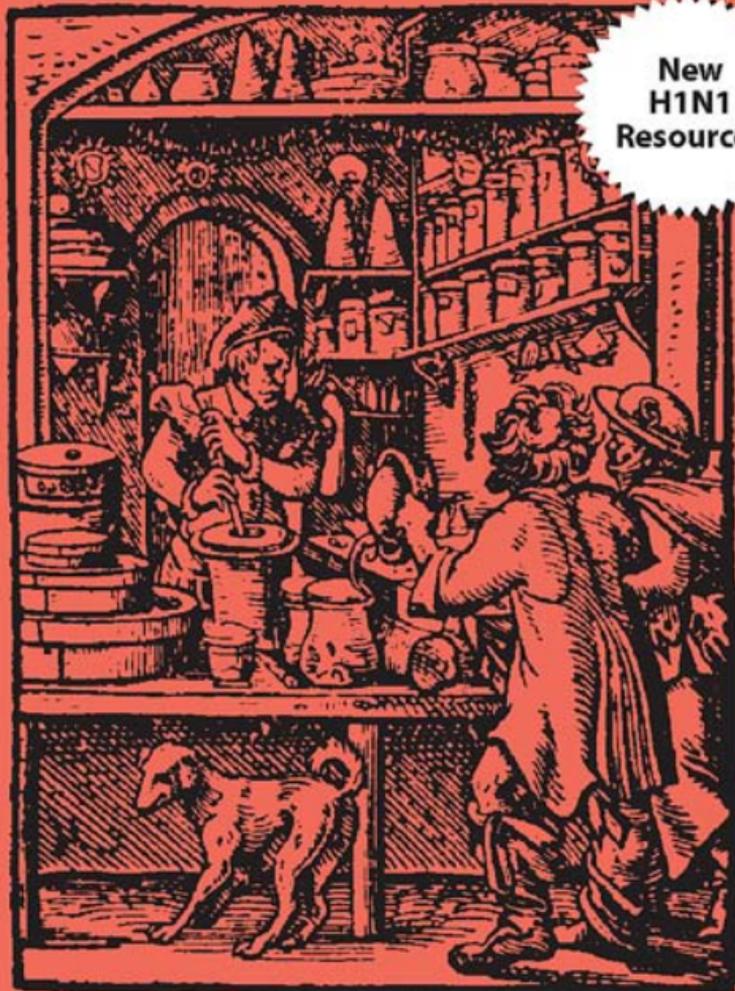


Tarascon Pocket Pharmacopoeia®

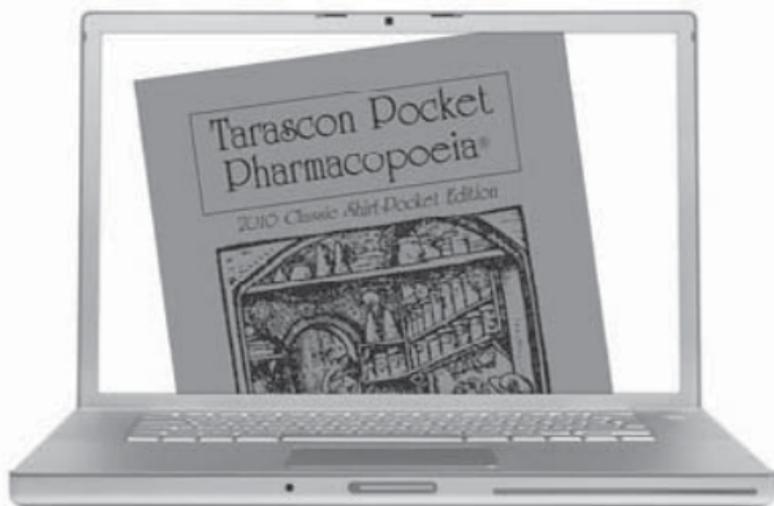
2010 Classic Shirt-Pocket Edition

**New
H1N1
Resources**



Editor in Chief: Richard J. Hamilton

FREE WEB ACCESS
WITH YOUR
TARASCON PHARMACOPOEIA®
PURCHASE



Laptop image © cloki/Shutterstock, Inc.

Receive a free six month subscription to the **Tarascon Web Edition** – Search continuously updated drug dosing information, check interactions, and much more from any web browser. Hurry, limited time offer.

REGISTER NOW AT
WWW.TARASCON.COM/WEBOFFER

Tarascon Pocket Pharmacopoeia®

2010 Classic Shirt-Pocket Edition



24TH EDITION

"Desire to take medicines ... distinguishes man from animals."

—Sir William Osler

Editor in Chief

Richard J. Hamilton, MD, FAAEM, FACMT

Professor and Chair, Department of Emergency Medicine

Drexel University College of Medicine
Philadelphia, PA



JONES AND BARTLETT PUBLISHERS

Sudbury, Massachusetts

BOSTON TORONTO LONDON SINGAPORE

World Headquarters

Jones and Bartlett
Publishers
40 Tall Pine Drive
Sudbury, MA 01776
978-443-5000
info@jbpub.com
www.jbpub.com

Jones and Bartlett
Publishers Canada
6339 Ormindale Way
Mississauga, Ontario
L5V 1J2 Canada

Jones and Bartlett
Publishers International
Barb House, Barb Mews
London W6 7PA
United Kingdom

Jones and Bartlett's books and products are available through most bookstores and online booksellers. To contact Jones and Bartlett Publishers directly, call 800-832-0034, fax 978-443-8000, or visit our website www.jbpub.com.

Substantial discounts on bulk quantities of Jones and Bartlett's publications are available to corporations, professional associations, and other qualified organizations. For details and specific discount information, contact the special sales department at Jones and Bartlett via the above contact information or send an email to specialsales@jbpub.com.

Copyright © 2010 by Jones and Bartlett Publishers, LLC

All rights reserved. No part of the material protected by this copyright may be reproduced or utilized in any form, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without written permission from the copyright owner.

The information in the *Pocket Pharmacopoeia* is compiled from sources believed to be reliable, and exhaustive efforts have been put forth to make the book as accurate as possible. The *Pocket Pharmacopoeia* is edited by a panel of drug information experts with extensive peer review and input from more than 50 practicing clinicians of multiple specialties. Our goal is to provide health professionals focused, core prescribing information in a convenient, organized, and concise fashion. We include FDA-approved dosing indications and those off-label uses that have a reasonable basis to support their use. However the accuracy and completeness of this work cannot be guaranteed. Despite our best efforts this book may contain typographical errors and omissions. The *Pocket Pharmacopoeia* is intended as a quick and convenient reminder of information you have already learned elsewhere. The contents are to be used as a guide only, and health care professionals should use sound clinical judgment and individualize therapy to each specific patient care situation. This book is not meant to be a replacement for training, experience, continuing medical education, or studying the latest drug prescribing literature. This book is sold without warranties of any kind, express or implied, and the publisher and editors disclaim any liability, loss, or damage caused by the contents. Although drug companies purchase and distribute our books as promotional items, the Tarascon editorial staff alone determines all book content.

ISSN: 1945-9076

ISBN: 978-0-7637-7439-4

6048

Printed in the United States of America

13 12 11 10 09 10 9 8 7 6 5 4 3 2 1

Production Credits

Chief Executive Officer: Clayton Jones
Chief Operating Officer: Don W. Jones, Jr.
President, Higher Education and
Professional Publishing: Robert W.
Holland, Jr.
V.P., Sales and Marketing: William J.
Kane
V.P., Design and Production: Anne
Spencer
V.P., Manufacturing and Inventory
Control: Therese Connell
Publisher: Christopher Davis

Senior Acquisitions Editor: Nancy
Anastasi Duffy
Senior Editorial Assistant: Jessica Acox
Production Editor: Wendy Swanson
Senior Marketing Manager: Barb
Bartoszek
Composition: Newgen
Text and Cover Design: Anne Spencer
Printing and Binding: Cenveo
Cover Printing: Cenveo

If you obtained your Pocket Pharmacopoeia from a bookstore, please send your address to info@tarascon.com. This allows you to be the first to hear of updates! (We don't sell or distribute our mailing lists, by the way.)

The cover woodcut is *The Apothecary* by Jost Amman, Frankfurt, 1574. Many of you knew that the answer to last year's puzzle was one third (a pill bottle contains one pill, either clonazepam or clonidine. A clonidine pill is placed into the bottle, the bottle is shaken, and a clonidine pill is removed. What are the chances that a clonazepam pill remains?). We will send a free copy of next year's edition to the first 25 who can solve this puzzle:

Three patients are waiting for two nurses to start an IV line (which takes 5 minutes) and infuse an antibiotic (which takes 5 minutes). The total of both of these tasks takes 10 minutes and the nurse must be physically present during the infusion. How fast can these two nurses complete this task?

CONTENTS

ANALGESICS1	Nitrates.....53	GASTROENTEROLOGY89
Antirheumatic Agents.....1	Pressors/Inotropes.....53	Antidiarrheals.....89
Muscle Relaxants.....2	Pulmonary Arterial Hypertension.....55	Antiemetics.....90
Non-Opioid Analgesic Combinations.....2	Thrombolytics.....55	Antilucer.....92
Non-Steroidal Anti-Inflammatories.....3	Volume Expanders.....56	Laxatives.....95
Opioid Agonist-Antagonists.....6	Other.....56	Ulcerative Colitis.....98
Opioid Agonists.....6	CONTRAST MEDIA57	Other GI Agents.....98
Opioid Analgesic Combinations.....8	MRI Contrast.....57	HEMATOLOGY99
Opioid Antagonists.....11	Radiography Contrast.....57	Anticoagulants.....99
Other Analgesics.....11	DERMATOLOGY58	Colony Stimulating Factors.....102
ANESTHESIA11	Acne Preparations.....58	Other Hematological Agents.....102
Anesthetics & Sedatives.....11	Actinic Keratosis Preparations.....59	HERBAL & ALTERNATIVE THERAPIES103
Local Anesthetics.....12	Antibacterials (Topical).....60	IMMUNOLOGY110
Neuromuscular Blockers.....12	Antifungals (Topical).....60	Immunizations.....110
ANTIMICROBIALS13	Antiparasitics (Topical).....61	Immunoglobulins.....112
Aminoglycosides.....13	Antipsoriasis.....62	Immunosuppression.....113
Antifungal Agents.....13	Antivirals (Topical).....62	Other.....113
Antimalarials.....15	Atopic Dermatitis Preparations.....63	NEUROLOGY114
Antimycobacterial Agents.....16	Corticosteroid / Antimicrobial Combinations.....63	Alzheimer's Disease.....114
Antiparasitics.....17	Hemorrhoid Care.....63	Anticonvulsants.....114
Antiviral Agents.....18	Other Dermatologic Agents.....64	Migraine Therapy.....117
Carbapenems.....25	ENDOCRINE & METABOLIC67	Multiple sclerosis.....118
Cephalosporins.....25	Androgens / Anabolic Steroids.....67	Myasthenia Gravis.....119
Macrolides.....27	Bisphosphonates.....67	Parkinsonian Agents.....119
Penicillins.....30	Corticosteroids.....68	Other Agents.....121
Quinolones.....32	Diabetes-Related.....70	OB/GYN121
Sulfonamides.....32	Diagnostic Agents.....74	Contraceptives.....121
Tetracyclines.....33	Gout-Related.....75	Estrogens.....122
Other Antimicrobials.....33	Minerals.....75	Hormone Combinations.....123
CARDIOVASCULAR35	Nutritionals.....78	Labor Induction / Cervical Ripening.....125
ACE Inhibitors.....35	Phosphate Binders.....78	Ovulation Stimulants.....125
Aldosterone Antagonists.....36	Thyroid Agents.....79	Progestins.....126
Angiotensin Receptor Blockers (ARBs).....37	Vitamins.....80	Selective Estrogen Receptor Modulators.....126
Antiadrenergic Agents.....38	Other.....82	Uterotonics.....126
Anti-Dysrhythmics / Cardiac Arrest.....39	ENT83	Vaginitis Preparations.....127
Anti-Hyperlipidemic Agents.....42	Antihistamines.....83	Other OB / GYN Agents.....128
Antihypertensive Combinations.....45	Antitussives / Expectorants.....84	ONCOLOGY128
Antiplatelet Drugs.....47	Decongestants.....86	OPHTHALMOLOGY129
Beta-Blockers.....48	Ear Preparations.....86	Allergy.....130
Calcium Channel Blockers (CCBs).....50	Mouth & Lip Preparations.....87	Antibacterials.....130
Diuretics.....52	Nasal Preparations.....88	Antiviral Agents.....132
	Other.....89	Corticosteroid & Antibacterial Combinations.....132

Corticosteroids.....	133	Antipsychotics.....	140	Other Pulmonary Medications.....	150
Glaucoma Agents.....	133	Anxiolytics / Hypnotics.....	143	TOXICOLOGY	152
Mydriatics & Cycloplegics.....	134	Combination Drugs.....	145	UROLOGY	154
Non-Steroidal Anti-Inflammatories.....	135	Drug Dependence Therapy.....	145	Benign Prostatic Hyperplasia.....	154
Other Ophthalmologic Agents.....	135	Stimulants / ADHD / Anorexians.....	146	Bladder Agents.....	154
PSYCHIATRY	136	PULMONARY	148	Erectile Dysfunction.....	155
Antidepressants.....	136	Beta Agonists.....	148	Nephrolithiasis.....	156
Antimanic (Bipolar) Agents.....	139	Combinations.....	149	Index	157
		Inhaled Steroids.....	149	Appendix	186
		Leukotriene Inhibitors.....	150		

PAGE INDEX FOR TABLES

GENERAL			
Abbreviations.....	ix	ACE inhibitors.....	35
Therapeutic drug levels.....	ix	QT interval drugs.....	41
Pediatric drugs.....	x	LDL goals.....	46
Conversions.....	xi	Lipid reduction by class.....	43
Pediatric vital signs and IV drugs.....	xi	Statins lipid response.....	46
Formulas.....	xii	Cardiac parameters.....	54
Drug therapy reference websites.....	xii	Thrombolysis in MI.....	55
Adult emergency drugs.....	186	Treatment and prevention of 2009 H1N1.....	188
Cardiac dysrhythmia protocols.....	187	DERMATOLOGY	
ANALGESICS		Topical steroids.....	65
Non-Steroidal.....	3	ENDOCRINE	
Opioid equivalency.....	7	Corticosteroids.....	69
Fentanyl transdermal.....	7	Diabetes numbers.....	71
ANTIMICROBIALS		Insulin.....	72
Bacterial Pathogens.....	23	IV solutions.....	76
STDs/vaginitis.....	28	Fluoride dose.....	76
Cephalosporins.....	26	Potassium forms.....	77
Penicillins.....	31	Peds rehydration.....	79
SBE prophylaxis.....	31	ENT	
Quinolones.....	32	ENT combinations.....	85
CARDIOVASCULAR		GASTROENTEROLOGY	
HTN therapy.....	37	H pylori treatment.....	94
		HEMATOLOGY	
		Heparin dosing.....	100
		Therapeutic goals for anticoagulation.....	101
		Warfarin interactions.....	101
		IMMUNOLOGY	
		Tetanus.....	113
		Child immunizations.....	112
		Treatment and prevention of 2009 H1N1.....	188
		NEUROLOGY	
		Dermatomes.....	118
		Nerve roots, LS spine.....	118
		Glasgow coma scale.....	119
		OB/GYN	
		Oral contraceptives.....	124
		Emerg contraception.....	123
		Drugs in pregnancy.....	127
		PSYCHIATRY	
		Antipsychotics.....	141
		Body mass index.....	146
		PULMONARY	
		Peak flow.....	150
		Inhaled steroids.....	151
		Inhaler colors.....	152
		TOXICOLOGY	
		Antidotes.....	153

TARASCON POCKET PHARMACOPOEIA EDITORIAL STAFF***EDITOR IN CHIEF**

Richard J Hamilton, MD, FAAEM, FACMT, Professor and Chair, Department of Emergency Medicine, Drexel University College of Medicine, Philadelphia, PA

ASSOCIATE EDITORS

Adrienne Z. Ables, PharmD, Associate Professor, Spartanburg Family Medicine Residency Program, Spartanburg, SC

Jill E. Allen, PharmD, BCPS, Drug Information Consultant, Salt Lake City, UT

Kimberly K. Birtcher, MS, PharmD, BCPS, CDE, Clinical Associate Professor, University of Houston College of Pharmacy, Houston, TX

Jill S. Burkiewicz, PharmD, BCPS, Professor, Pharmacy Practice, Director, PGY1 Residency Program, Midwestern University Chicago College of Pharmacy, Downers Grove, IL

David S. Craig, PharmD, BCPS, Clinical Pharmacist Specialist, H Lee Moffitt Cancer Center & Research Institute, Tampa, FL

William A. Kehoe, PharmD, MA, BCPS, Professor of Pharmacy Practice and Psychology, University of the Pacific, Stockton, CA

Neeta Bahal O'Mara, PharmD, BCPS, Coldstream Consulting LLC, Skillman, NJ.

EDITORIAL BOARD

Steven R. Abel, PharmD, FASHP, Assistant Dean for Clinical Programs, Buck Professor and Head, Dept. of Pharmacy Practice, Purdue University School of Pharmacy and Pharmaceutical Sciences, West Lafayette, IN

David R. Adams, MD, PharmD, Associate Professor of Dermatology, Penn State Hershey Medical Center, Hershey, PA

Heath P. Adams, PharmD, Trover Health System, Regional Medical Center, Madisonville, KY

Giovannina M. Anthony, MD, Obstetrics and Gynecology, Women's Health Center of Jackson, WY

Ouida Antle, PharmD, Carewest, Calgary, Alberta, Canada

Bruce Barrett, MD, PhD, Associate Professor of Family Medicine, University of Wisconsin, Madison, WI

Sandra Harley Counts, PharmD, Associate Professor of Family Medicine, AnMed Health Family Medicine Residency, Anderson, SC

Gary E. Davis, PharmD, Neuroscience Clinical Coordinator, Adjunct Assistant Professor, University of Utah Hospitals and Clinics, Salt Lake City, UT

Lori M. Dickerson, PharmD, FCCP, BCPS, Professor of Family Medicine, Medical University of SC

Joseph S. Esherick, MD, FAAFP, Family Medicine, Ventura County Medical Center, Ventura, CA

Randall L. Goodman, MD, FACS, Ophthalmology, Shepard Eye Center, Santa Maria, CA

Holly Gustafson, MD, Park Nicollet Internal Medicine, St. Louis Park, MN

EDITORIAL BOARD, cont.

James A. Greenberg, MD, Assistant Professor of OB/GYN, Harvard Medical School, Boston, MA

James R. Herman, MD, PhD, FACS, Urology Associates of Kingsport PC, Kingsport, TN

Arlyn J. LaBair, MD, Family Medicine, Denver, CO

Marc J. Laufgraben, MD, Endocrinology, Clinical Associate Professor of Medicine, Brown University, Providence, RI

Allen E. Lavee, MD, Anesthesiology, San Francisco, CA

Lawrence Loo, MD, Internal Medicine, Associate Professor of Medicine, Loma Linda University, CA

Yun Lu, PharmD, BCPS, Clinical Assistant Professor, University of Minnesota, Hennepin County Medical Center, Minneapolis, MN

Andrea Luisi, PharmD, BCPS, Cumberland, RI

Ian R. McNicholl, PharmD, BCPS (AQ – Infectious Diseases), AAHIVE, Associate Clinical Professor, Clinical Pharmacy Specialist, UCSF Positive Health Program, Editor, UCSF HIV InSite Drug Interaction Database, San Francisco, CA

Susan M. Miller, PharmD, BCPS, Pharmacy Clinical Coordinator, Cape Fear Valley Health System, Fayetteville, NC

Melissa J. Nirenberg, MD, PhD, Assistant Professor of Neurology, Weill Cornell Medical College, New York, NY

John Noviasky, PharmD, Associate Director of Pharmacy-Clinical Services, SUNY Upstate Medical University, Syracuse, NY

Robert C. Owens, Jr., PharmD, Maine Medical Center, Portland, ME; Clinical Assistant Professor, University of Vermont College of Medicine, Burlington, VT

Mary E. Pickett, MD, Internal Medicine, Associate Professor of Medicine, Oregon Health & Science University, Portland, OR

Joseph Saseen, PharmD, FCCP, FNLA, BCPS, CLS, Professor, University of Colorado, Schools of Pharmacy and Medicine, Denver/Aurora, CO

Timothy W. Smith, D.Phil, MD, Associate Professor of Medicine, Washington University School of Medicine, St. Louis, MO

Ronald L. Swaab, MD, Hematology & Oncology, Pottstown Memorial Regional Cancer Center, Pottstown, PA

Andrew E. Thompson, MD, Rheumatology, Assistant Professor of Medicine, University of Western Ontario, Canada

Kristin Walter, MD, Pulmonary & Critical Care Medicine, St. Joseph Hospital, Chicago, IL

Izak F. Wessels, M Med, FRCSE, FRCOphth, FACS, Clinical Associate Professor of Ophthalmology, Chattanooga Unit, University of Tennessee College of Medicine, and Loma Linda University, Loma Linda, CA

Robert M. Wood, MD, Family Medicine, Santa Maria, CA

David G. Zipes, MD, FHM, Pediatric Hospitalist, Peyton Manning Children's Hospital at St. Vincent, Indianapolis, IN

*Affiliations are given for information purposes only, and no affiliation sponsorship is claimed.

PREFACE TO THE TARASCON POCKET PHARMACOPOEIA®

The *Tarascon Pocket Pharmacopoeia* arranges drugs by clinical class with a comprehensive index in the back. Trade names are italicized and capitalized. Drug doses shown in mg/kg are generally intended for children, while fixed doses represent typical adult recommendations. Brackets indicate currently available formulations, although not all pharmacies stock all formulations. The availability of generic, over-the-counter, and scored formulations are mentioned. We have introduced a new format in this edition and have underlined the disease or indication for the pharmaceutical agent. It is meant to function as an aid to find information quickly. Codes are as follows:

▶ **METABOLISM & EXCRETION:** **L** = primarily liver, **K** = primarily kidney, **LK** = both, but liver > kidney, **KL** = both, but kidney > liver.

♀ **SAFETY IN PREGNANCY:** **A** = Safety established using human studies, **B** = Presumed safety based on animal studies, **C** = Uncertain safety; no human studies and animal studies show an adverse effect, **D** = Unsafe - evidence of risk that may in certain clinical circumstances be justifiable, **X** = Highly unsafe - risk of use outweighs any possible benefit. For drugs which have not been assigned a category: **+** Generally accepted as safe, **?** Safety unknown or controversial, **-** Generally regarded as unsafe.

▶ **SAFETY IN LACTATION:** **+** Generally accepted as safe, **?** Safety unknown or controversial, **-** Generally regarded as unsafe. Many of our “+” listings are from the AAP policy “The Transfer of Drugs and Other Chemicals Into Human Milk” (see www.aap.org) and may differ from those recommended by the manufacturer.

© **DEA CONTROLLED SUBSTANCES:** **I** = High abuse potential, no accepted use (eg, heroin, marijuana), **II** = High abuse potential and severe dependence liability (eg, morphine, codeine, hydromorphone, cocaine, amphetamines, methylphenidate, secobarbital). Some states require triplicates. **III** = Moderate dependence liability (eg, *Tylenol #3*, *Vicodin*), **IV** = Limited dependence liability (benzodiazepines, propoxyphene, phentermine), **V** = Limited abuse potential (eg, *Lomotil*).

§ **RELATIVE COST:** Cost codes used are “per month” of maintenance therapy (eg, antihypertensives) or “per course” of short-term therapy (eg, antibiotics). Codes are calculated using average wholesale prices (at press time in US dollars) for the most common indication and route of each drug at a typical adult dosage. For maintenance therapy, costs are calculated based upon a 30 day supply or the quantity that might typically be used in a given month. For short-term therapy (ie, 10 days or less), costs are calculated on a single treatment course. When multiple forms are available (eg, generics), these codes reflect the least expensive generally available product. When drugs don't neatly fit into the classification scheme above, we have assigned codes based upon the relative cost of other similar drugs. *These codes should be used as a rough guide only*, as (1) they reflect cost, not charges, (2) pricing often varies substantially from location to location and time to time, and (3) HMOs, Medicaid, and buying groups often negotiate quite different pricing. Check with your local pharmacy if you have any questions.

Code	Cost
\$	< \$25
\$\$	\$25 to \$49
\$\$\$	\$50 to \$99
\$\$\$\$	\$100 to \$199
\$\$\$\$\$	≥ \$200

as (1) they reflect cost, not charges, (2) pricing often varies substantially from location to location and time to time, and (3) HMOs, Medicaid, and buying groups often negotiate quite different pricing. Check with your local pharmacy if you have any questions.

♣ **CANADIAN TRADE NAMES:** Unique common Canadian trade names not used in the US are listed after a maple leaf symbol. Trade names used in both nations or only in the US are displayed without such notation.

ABBREVIATIONS IN TEXT

AAP – American Academy of Pediatrics	DPI – dry powder inhaler	LFT – liver function test	PO – by mouth
ac – before meals	EPS – extrapyramidal symptoms	LV – left ventricular	PR – by rectum
ADHD – attention deficit hyperactivity disorder	ET – endotracheal	LVEF – left ventricular ejection fraction	prn – as needed
AHA – American Heart Association	GERD – gastroesophageal reflux disease	MAOI – monoamine oxidase inhibitor	q – every
ANC – absolute neutrophil count	gts – drops	mEq – microgram	qam – every morning
ASA – aspirin	GU – genitourinary	MDI – metered dose inhaler	qhs – at bedtime
bid – twice per day	h – hour	mEq – milliequivalent	qid – four times/day
BP – blood pressure	HAART – highly active antiretroviral therapy	mg – milligram	qod – every other day
BPH – benign prostatic hyperplasia	Hb – hemoglobin	ml – milliliter	qpm – every evening
CAD – coronary artery disease	HCTZ – hydrochlorothiazide	mm – millimeter	RA – rheumatoid arthritis
cap – capsule	HIT – Heparin induced thrombocytopenia	mo – months old	SC – subcutaneous
cm – centimeter	hs – bedtime	MRSA – Methicillin Resistant Staphylococcus Aureus	sec – second
CMV – cytomegalovirus	HTN – hypertension	ng – nanogram	soln – solution
CNS – central nervous system	IM – intramuscular	NHLBI – National Heart, Lung, and Blood Institute	supp – suppository
COPD – chronic obstructive pulmonary disease	INR – international normalized ratio	NS – normal saline	susp – suspension
CrCl – creatinine clearance	IU – International units	N/V – nausea/vomiting	tab – tablet
CVA – stroke	IV – intravenous	NYHA – New York Heart Association	TB – tuberculosis
CYP – cytochrome P450	JRA – juvenile rheumatoid arthritis	OA – osteoarthritis	TCA – tricyclic antidepressant
D5W – 5% dextrose	kg – kilogram	pc – after meals	tid – three times/day
dL – deciliter			TNF – tumor necrosis factor
			TPN – total parenteral nutrition
			UTI – urinary tract infection
			wt – weight
			y – year
			yo – years old

THERAPEUTIC DRUG LEVELS

<i>Drug Level</i>	<i>Optimal</i>	<i>Timing</i>
amikacin peak	20-35 mcg/ml	30 minutes after infusion
amikacin trough	<5 mcg/ml	Just prior to next dose
carbamazepine trough	4-12 mcg/ml	Just prior to next dose
cyclosporine trough	50-300 ng/ml	Just prior to next dose
digoxin	0.8-2.0 ng/ml	Just prior to next dose
ethosuximide trough	40-100 mcg/ml	Just prior to next dose
gentamicin peak	5-10 mcg/ml	30 minutes after infusion
gentamicin trough	<2 mcg/ml	Just prior to next dose
lidocaine	1.5-5 mcg/ml	12-24 hours after start of infusion
lithium trough	0.6-1.2 meq/l	Just prior to first morning dose
NAPA	10-30 mcg/ml	Just prior to next procainamide dose
phenobarbital trough	15-40 mcg/ml	Just prior to next dose
phenytoin trough	10-20 mcg/ml	Just prior to next dose
primidone trough	5-12 mcg/ml	Just prior to next dose
procainamide	4-10 mcg/ml	Just prior to next dose
quinidine	2-5 mcg/ml	Just prior to next dose
theophylline	5-15 mcg/ml	8-12 hours after once daily dose
tobramycin peak	5-10 mcg/ml	30 minutes after infusion
tobramycin trough	<2 mcg/ml	Just prior to next dose
valproate trough (epilepsy)	50-100 mcg/ml	Just prior to next dose
valproate trough (mania)	45-125 mcg/ml	Just prior to next dose
vancomycin trough ¹	10-20 mg/L	Just prior to next dose
zonisamide ²	10-40 mcg/ml	Just prior to dose

¹Maintain trough >10 mg/L to avoid resistance; optimal trough is 10-20 mg/L²Ranges not firmly established but supported by clinical trial results

x Outpatient Pediatric Drugs

		Age	2mo	4mo	6mo	9mo	12mo	15mo	2yo	3yo	5yo
PEDIATRIC DRUGS		Kg	5	6½	8	9	10	11	13	15	19
		Lbs	11	15	17	20	22	24	28	33	42
<i>med</i>	<i>strength freq</i>		<i>teaspoons of liquid per dose (1 tsp= 5 mL)</i>								
<i>Tylenol</i> (mg)	q4h		80	80	120	120	160	160	200	240	280
<i>Tylenol</i> (tsp)	160/t	q4h	½	½	¾	¾	1	1	1¼	1½	1¾
ibuprofen (mg)	q6h		-	-	75†	75†	100	100	125	150	175
ibuprofen (tsp)	100/t	q6h	-	-	¾†	¾†	1	1	1¼	1½	1¾
amoxicillin or <i>Augmentin</i>	125/t bid		1	1¼	1½	1¾	1¾	2	2¼	2¾	3½
(not otitis media)	200/t bid		½	¾	1	1	1¼	1¼	1½	1¾	2¼
	250/t bid		½	½	¾	¾	1	1	1¼	1¼	1¾
	400/t bid		¼	½	½	½	¾	¾	¾	1	1
amoxicillin, (otitis media)‡	200/t bid		1	1¼	1¾	2	2	2¼	2¾	3	4
	250/t bid		¾	1¼	1½	1½	1¾	1¾	2¼	2½	3¼
	400/t bid		½	¾	¾	1	1	1¼	1½	1½	2
<i>Augmentin ES</i> ‡	600/t bid		?	½	½	¾	¾	¾	1	1¼	1½
azithromycin*§	100/t qd		¼†	½†	½	½	½	½	¾	¾	1
(5-day Rx)	200/t qd		--	¼†	¼	¼	¼	¼	½	½	½
<i>Bactrim/Septra</i>	---	bid	½	¾	1	1	1	1¼	1½	1½	2
cefaclor*	125/t bid		1	1	1¼	1½	1½	1¾	2	2½	3
"	250/t bid		½	½	¾	¾	¾	1	1	1¼	1½
cefadroxil	125/t bid		½	¾	1	1	1¼	1¼	1½	1¾	2¼
"	250/t bid		¼	½	½	½	¾	¾	¾	1	1
cefdinir	125/t qd		--	¾†	1	1	1	1¼	1½	1¾	2
cefixime	100/t qd		½	½	¾	¾	¾	1	1	1¼	1½
cefprozil*	125/t bid		--	¾†	1	1	1¼	1½	1½	2	2¼
"	250/t bid		--	½†	½	½	¾	¾	¾	1	1¼
cefuroxime	125/t bid		--	¾	¾	1	1	1	1½	1¾	2¼
cephalexin	125/t qid		--	½	¾	¾	1	1	1¼	1½	1¾
"	250/t qid		--	¼	¼	½	½	½	¾	¾	1
clarithromycin	125/t bid		½†	½†	½	½	¾	¾	¾	1	1¼
"	250/t bid		--	--	--	¼	½	½	½	½	¾
dicloxacillin	62½/t qid		½	¾	1	1	1¼	1¼	1½	1¾	2
nitrofurantoin	25/t qid		¼	½	½	½	½	¾	¾	¾	1
<i>Pediazole</i>	---	tid	½	½	¾	¾	1	1	1	1¼	1½
penicillin V**	250/t bid-tid		--	1	1	1	1	1	1	1	1
cetirizine	5/t qd		-	-	½	½	½	½	½	½	½
<i>Benadryl</i>	12.5/t q6h		½	½	¾	¾	1	1	1¼	1½	2
prednisolone	15/t qd		¼	½	½	¾	¾	¾	1	1	1¼
prednisone	5/t qd		1	1¼	1½	1¾	2	2¼	2½	3	3¾
<i>Robitussin</i>	---	q4h	-	-	¼†	¼†	½	½	¾	¾	1
<i>Tylenol w/ codeine</i>	q4h		-	-	-	-	-	-	-	1	1

* Dose shown is for otitis media only; see dosing in text for alternative indications.

† Dosing at this age/weight not recommended by manufacturer.

‡ AAP now recommends high dose (80-90 mg/kg/d) for all otitis media in children; with *Augmentin* used as ES only.

§ Give a double dose of azithromycin the first day.

**AHA dosing for streptococcal pharyngitis. Treat for 10 days.

tsp = teaspoon; t = teaspoon; q = every; h = hour; kg = kilogram; Lbs = pounds; ml = milliliter; bid = twice per day; qd = every day; qid = four times per day; tid = three times per day

PEDIATRIC VITAL SIGNS AND INTRAVENOUS DRUGS

Age	Pre- New-												
	matr	born	2m	4m	6m	9m	12m	15m	2y	3y	5y		
Weight	(Kg)	2	3½	5	6	½	8	9	10	11	13	15	19
	(Lbs)	4½	7½	11	15	17	20	22	24	28	33	42	
Maint fluids	(ml/h)	8	14	20	26	32	36	40	42	46	50	58	
ET tube	(mm)	2½	3/3½	3½	3½	3½	4	4	4½	4½	4½	5	
Defib	(Joules)	4	7	10	13	16	18	20	22	26	30	38	
Systolic BP	(high)	70	80	85	90	95		100	103	104	106	109	114
	(low)	40	60	70	70	70	70	70	75	75	80		
Pulse rate	(high)	145	145	180	180	180	180	160	160	160	150	150	135
	(low)	100	100	110	110	110	110	100	100	100	90	90	65
Resp rate	(high)	60	60	50	50	50	46	46	30	30	25	25	
	(low)	35	30	30	30	24	24	20	20	20	20	20	
adenosine	(mg)	0.2	0.3	0.5	0.6	0.8	0.9		1	1.1	1.3	1.5	1.9
atropine	(mg)	0.1	0.1	0.1	0.13	0.16	0.18	0.2	0.22	0.26	0.30	0.38	
Benadryl	(mg)	-	-	5	6½	8	9	10	11	13	15	19	
bicarbonate	(meq)	2	3½	5	6½	8	9	10	11	13	15	19	
dextrose	(g)	1	2	5	6½	8	9	10	11	13	15	19	
epinephrine	(mg)	.02	.04	.05	.07	.08	.09	0.1		0.11	0.13	0.15	0.19
lidocaine	(mg)	2	3½	5	6½	8	9	10	11	13	15	19	
morphine	(mg)	0.2	0.3	0.5	0.6	0.8	0.9		1	1.1	1.3	1.5	1.9
mannitol	(g)	2	3½	5	6½	8	9	10	11	13	15	19	
naloxone	(mg)	.02	.04	.05	.07	.08	.09	0.1		0.11	0.13	0.15	0.19
diazepam	(mg)	0.6	1	1.5	2	2.5		2.7	3	3.3		3.9	4.5
fosphenytoin* (PE)		40	70	100	130	160	180	200	220	260	300	380	
lorazepam	(mg)	0.1	0.2	0.3	0.35	0.4	0.5	0.5	0.6	0.7	0.8	1.0	
phenobarb	(mg)	30	60	75	100	125	125	150	175	200	225	275	
phenytoin*	(mg)	40	70	100	130	160	180	200	220	260	300	380	
ampicillin	(mg)	100	175	250	325	400	450	500	550	650	750	1000	
ceftriaxone	(mg)	-	-	250	325	400	450	500	550	650	750	1000	
cefotaxime	(mg)	100	175	250	325	400	450	500	550	650	750	1000	
gentamicin	(mg)	5	8	12	16	20	22	25	27	32	37	47	

*Loading doses; fosphenytoin dosed in "phenytoin equivalents".

CONVERSIONS

	<u>Liquid:</u>	<u>Weight:</u>
<u>Temperature:</u>	1 fluid ounce = 30mL	1 kilogram = 2.2 lbs
F = (1.8) C + 32	1 teaspoon = 5mL	1 ounce = 30 g
C = (F - 32)/1.8	1 tablespoon = 15mL	1 grain = 65 mg

FORMULAS

Alveolar-arterial oxygen gradient = $A-a = 148 - 1.2(\text{PaCO}_2) - \text{PaO}_2$
 [normal = 10-20 mmHg, breathing room air at sea level]

Calculated osmolality = $2\text{Na} + \text{glucose}/18 + \text{BUN}/2.8 + \text{ethanol}/4.6$
 [norm 280-295 meq/L. Na in meq/L; all others in mg/dL]

Pediatric IV maintenance fluids (see table on page 7)

- 4 ml/kg/hr **or** 100 ml/kg/day for first 10 kg, plus
- 2 ml/kg/hr **or** 50 ml/kg/day for second 10 kg, plus
- 1 ml/kg/hr **or** 20 ml/kg/day for all further kg

$\text{mcg/kg/min} = \frac{16.7 \times \text{drug conc [mg/ml]} \times \text{infusion rate [ml/h]}}{\text{weight [kg]}}$

$\text{Infusion rate [ml/h]} = \frac{\text{desired mcg/kg/min} \times \text{weight [kg]} \times 60}{\text{drug concentration [mcg/ml]}}$

Fractional excretion of sodium = $\left[\frac{\text{urine Na / plasma Na}}{\text{urine creat / plasma creat}} \right] \times 100\%$
 [Pre-renal, etc <1%; ATN, etc >1%]

Anion gap = $\text{Na} - (\text{Cl} + \text{HCO}_3)$ [normal = 10-14 meq/L]

Creatinine clearance = $\frac{(\text{lean kg})(140 - \text{age})(0.85 \text{ if female})}{(72)(\text{stable creatinine [mg/dL]})}$
 [normal >80]

Glomerular filtration rate using MDRD equation ($\text{ml/min}/1.73 \text{ m}^2$)
 = $186 \times (\text{creatinine})^{-1.154} \times (\text{age})^{-0.203} \times (0.742 \text{ if } \text{♀}) \times (1.210 \text{ if African American})$

Body surface area (BSA) = square root of: $\left[\frac{\text{height (cm)} \times \text{weight (kg)}}{3600} \right]$
 [in m^2]

DRUG THERAPY REFERENCE WEBSITES (selected)

<i>Professional societies or governmental agencies with drug therapy guidelines</i>		
AHRQ	Agency for Healthcare Research and Quality	www.ahrq.gov
AAP	American Academy of Pediatrics	www.aap.org
ACC	American College of Cardiology	www.acc.org
ACCP	American College of Chest Physicians	www.chestnet.org
ACCP	American College of Clinical Pharmacy	www.accp.com
AHA	American Heart Association	www.americanheart.org
ADA	American Diabetes Association	www.diabetes.org
AMA	American Medical Association	www.ama-assn.org
APA	American Psychiatric Association	www.psych.org
APA	American Psychological Association	www.apa.org
ATS	American Thoracic Society	www.thoracic.org
ASHP	Amer. Society Health-Systems Pharmacists	www.ashp.org
CDC	Centers for Disease Control and Prevention	www.cdc.gov
CDC	CDC bioterrorism and radiation exposures	www.bt.cdc.gov
IDSA	Infectious Diseases Society of America	www.idsociety.org
MHA	Malignant Hyperthermia Association	www.mhaus.org
NHLBI	National Heart, Lung, and Blood Institute	www.nhlbi.nih.gov
<i>Other therapy reference sites</i>		
	Cochrane library	www.cochrane.org
	Emergency Contraception Website	www.not-2-late.com
	Immunization Action Coalition	www.immunize.org
	Int'l Registry for Drug-Induced Arrhythmias	www.qtdrugs.org
	Managing Contraception	www.managingcontraception.com
	Nephrology Pharmacy Associates	www.nephrologypharmacy.com

ANALGESICS

Antirheumatic Agents—Biologic Response Modifiers

NOTE Death, sepsis, and serious infections (eg, TB & invasive fungal infections) have been reported.

ADALIMUMAB (Humira) RA, psoriatic arthritis, ankylosing spondylitis: 40 mg SC q 2 weeks, alone or in combination with methotrexate or other disease-modifying antirheumatic drugs (DMARDs). May increase frequency to once a week if not on methotrexate. Crohn's disease: 160 mg SC at week 0, 80 mg at week 2, then 40 mg q other week starting with week 4. [Trade only: 40 mg prefilled glass syringes or vials with needles, 2 per pack.] ▶Serum ♀B ▶—\$\$\$\$\$

ANAKINRA (Kineret) RA: 100 mg SC daily. [Trade only: 100 mg prefilled glass syringes with needles, 7 or 28 per box.] ▶K ♀B ▶?\$\$\$\$\$

ETANERCEPT (Enbrel) RA, psoriatic arthritis, ankylosing spondylitis: 50 mg SC once a week. Plaque psoriasis: 50 mg SC 2 times per week for 3 months, then 50 mg SC once a week. JRA age 4 to 17 yo: 0.8 mg/kg SC once a week, to max single dose of 50 mg. Max dose per injection site is 25 mg. [Supplied in a carton containing four dose trays and as single-use prefilled syringes. Each dose tray contains one 25 mg single-use vial of etanercept, one syringe (1 mL sterile bacteriostatic water for injection, containing 0.9% benzyl alcohol), one plunger, and two alcohol swabs. Single-use syringes contain 50 mg/mL.] ▶Serum ♀B ▶—\$\$\$\$\$

INFLIXIMAB (Remicade) RA: 3 mg/kg IV in combination with methotrexate at 0, 2, and 6 weeks. Ankylosing spondylitis: 5 mg/kg IV at 0, 2, and 6 weeks. Plaque psoriasis, psoriatic arthritis, moderately to severely active Crohn's disease, ulcerative colitis, or fistulizing disease: 5 mg/kg IV infusion at 0, 2, and 6 weeks, then q 8 weeks. ▶Serum ♀B ▶?\$\$\$\$\$

Antirheumatic Agents—Disease-Modifying Antirheumatic Drugs (DMARDs)

AZATHIOPRINE (Azasan, Imuran, +Immunoprin, Oprisine) RA: Initial dose 1 mg/kg (50 to 100 mg) PO daily or divided bid. Increase after 6 to 8 weeks. [Generic/Trade: Tabs 50 mg, scored. Trade only (Azasan): 75, 100 mg, scored.] ▶LK ♀D ▶—\$\$\$

HYDROXYCHLOROQUINE (Plaquenil) RA: Start 400 to 600 mg PO daily, then taper to 200 to 400 mg daily. SLE: 400 PO daily to bid to start, then taper to 200 to 400 mg daily. [Generic/Trade: Tabs 200 mg, scored.] ▶K ♀C ▶+ \$

LEFLUNOMIDE (Arava) RA: 100 mg PO daily for 3 days. Maintenance: 10 to 20 mg PO daily. [Generic/Trade: Tabs 10, 20 mg. Trade only: Tabs 100 mg.] ▶LK ♀X ▶—\$\$\$\$\$

METHOTREXATE (Rheumatrex, Trexall) RA, psoriasis: Start with 7.5 mg PO single dose once a week or 2.5 mg PO q 12 h for 3 doses given once a week. Max dose 20 mg/week. Supplement with 1 mg/day of folic acid. Chemotherapy doses vary by indication. [Trade only (Trexall): Tabs 5, 7.5, 10, 15 mg. Dose Pak (Rheumatrex) 2.5 mg (#8, 12, 16, 20, 24). Generic/Trade: Tabs 2.5 mg, scored.] ▶LK ♀X ▶—\$\$

2 Analgesics

Muscle Relaxants

BACLOFEN (*Lioresal, Kemstro*) Spasticity related to MS or spinal cord disease/injury: Start 5 mg PO tid, then increase by 5 mg/dose q 3 day until 20 mg PO tid. Max dose 20 mg qid. [Generic only: Tabs 10, 20 mg. Trade only: (Kemstro) Tabs orally disintegrating 10, 20 mg.] ▶K ♀C ▶+ \$\$

CARISOPRODOL (*Soma*) Acute musculoskeletal pain: 350 mg PO tid to qid. Abuse potential. [Generic/Trade: Tabs 350 mg. Trade only: Tabs 250 mg.] ▶LK ♀? ▶- \$

CHLORZOXAZONE (*Parafon Forte DSC*) Musculoskeletal pain: 500 to 750 mg PO tid to qid to start. Decrease to 250 mg tid to qid. [Generic/Trade: Tabs 250, 500 mg (Parafon Forte DSC 500 mg tabs scored).] ▶LK ♀C ▶? \$

CYCLOBENZAPRINE (*Amrix, Flexeril, Flexmid*) Musculoskeletal pain: Start 5 to 10 mg PO tid, max 30 mg/day or 15 to 30 mg (extended-release) PO daily. Not recommended in elderly. [Generic/Trade: Tabs 5, 10 mg. Generic only: Tabs 7.5 mg. Trade only (Amrix \$\$\$\$\$): Extended-release caps 15, 30 mg.] ▶LK ♀B ▶? \$

DANTROLENE (*Dantrium*) Chronic spasticity related to spinal cord injury, CVA, cerebral palsy, MS: 25 mg PO daily to start, up to max of 100 mg bid to qid if necessary. Malignant hyperthermia: 2.5 mg/kg rapid IV push q 5 to 10 min continuing until symptoms subside or to a maximum 10 mg/kg/dose. [Generic/Trade: Caps 25, 50, 100 mg.] ▶LK ♀C ▶- \$\$\$\$

METAXALONE (*Skelaxin*) Musculoskeletal pain: 800 mg PO tid to qid. [Trade only: Tabs 800 mg, scored.] ▶LK ♀? ▶? \$\$\$

METHOCARBAMOL (*Robaxin, Robaxin-750*) Acute musculoskeletal pain: 1500 mg PO qid or 1000 mg IM/IV tid for 48 to 72 h. Maintenance: 1000 mg PO qid, 750 mg PO q 4 h, or 1500 mg PO tid. Tetanus: Specialized dosing. [Generic/Trade: Tabs 500, 750 mg. OTC in Canada.] ▶LK ♀C ▶? \$\$

ORPHENADRINE (*Norflex*) Musculoskeletal pain: 100 mg PO bid. 60 mg IV/IM bid. [Generic only: 100 mg extended-release. OTC in Canada.] ▶LK ♀C ▶? \$\$

TIZANIDINE (*Zanaflex*) Muscle spasticity due to MS or spinal cord injury: 4 to 8 mg PO q 6 to 8 h prn, max 36 mg/day. [Generic/Trade: Tabs 4 mg, scored. Trade only: Caps 2, 4, 6 mg. Generic only: Tabs 2 mg.] ▶LK ♀C ▶? \$\$\$\$

Non-Opioid Analgesic Combinations

ASCRIPTIN (ASA + aluminum hydroxide + magnesium hydroxide + calcium carbonate) (*Aspir-Mox*) Multiple strengths. 1 to 2 tabs PO q 4 h. [OTC Trade only: Tabs 325 mg ASA/50 mg Mg hydroxide/50 mg Al hydroxide/50 mg Ca carbonate (Ascriptin and Aspir-Mox). 500 mg ASA/33 mg Mg hydroxide/33 mg Al hydroxide/237 mg Ca carbonate (Ascriptin Maximum Strength).] ▶K ♀D ▶? \$

BUFFERIN (ASA + calcium carbonate + magnesium oxide + magnesium carbonate) 1 to 2 tabs/caplets PO q 4 h. Max 12 in 24 h. [OTC Trade only: Tabs/caplets 325 mg ASA/158 mg Ca carbonate/63 mg of Mg oxide/34 mg of Mg carbonate. Bufferin ES: 500 mg ASA/222.3 mg Ca carbonate/88.9 mg of Mg oxide/55.6 mg of Mg carbonate.] ▶K ♀D ▶? \$

ESGIC (acetaminophen + butalbital + caffeine) 1 to 2 tabs or caps PO q 4 h. Max 6 in 24 h. [Generic only: Tabs/caps, 325 mg acetaminophen/50 mg butalbital/40 mg caffeine. Oral soln 325/50/40 mg per 15 mL. Generic/Trade: Tabs, Esgic Plus is 500/50/40 mg.] ▶LK ♀C D? \$

EXCEDRIN MIGRAINE (acetaminophen + ASA + caffeine) 2 tabs/caps/geltabs PO q 6 h while symptoms persist. Max 8 in 24 h. [OTC/Generic/Trade: Tabs, Caplets, Geltabs 250 mg acetaminophen/250 mg ASA/65 mg caffeine.] ▶LK ♀D D? \$

FIORICET (acetaminophen + butalbital + caffeine) 1 to 2 caps PO q 4 h. Max 6 caps in 24 h. [Generic/Trade: Caps 325 mg acetaminophen/50 mg butalbital/40 mg caffeine.] ▶LK ♀C D? \$

FIORINAL (ASA + butalbital + caffeine) (↕ Tecnal, Trianal) 1 to 2 tabs PO q 4 h. Max 6 tabs in 24 h. [Generic/Trade: Caps 325 mg ASA/50 mg butalbital/40 mg caffeine.] ▶KL ♀D D— ©III \$

GOODY'S EXTRA STRENGTH HEADACHE POWDER (acetaminophen + ASA + caffeine) 1 powder PO followed with liquid, or stir powder into a glass of water or other liquid. Repeat in 4 to 6 h prn. Max 4 powders in 24 h. [OTC trade only: 260 mg acetaminophen/520 mg ASA/32.5 mg caffeine per powder paper.] ▶LK ♀D D? \$

NORGESIC (orphenadrine + ASA + caffeine) Multiple strengths; write specific product on Rx. Norgesic: 1 to 2 tabs PO tid to qid. Norgesic Forte, 1 tab PO tid to qid. [Generic/Trade: Tabs: Norgesic 25 mg orphenadrine/385 mg ASA/30 mg caffeine, Norgesic Forte 50/770/60 mg.] ▶KL ♀D D? \$\$

PHRENILIN (acetaminophen + butalbital) Tension or muscle contraction headache: 1 to 2 tabs PO q 4 h. Max 6 in 24 h. [Generic/Trade: Tabs, Phrenilin 325 mg acetaminophen/50 mg butalbital. Caps, Phrenilin Forte 650/50 mg.] ▶LK ♀C D? \$

SEDAPAP (acetaminophen + butalbital) 1 to 2 tabs PO q 4 h. Max 6 tabs in 24 h. [Generic only: Tabs 650 mg acetaminophen/50 mg butalbital.] ▶LK ♀C D? \$

SOMA COMPOUND (carisoprodol + ASA) 1 to 2 tabs PO qid. Abuse potential. [Generic/Trade: Tabs 200 mg carisoprodol/325 mg ASA.] ▶LK ♀D D— \$\$\$

ULTRACET (tramadol + acetaminophen) (↕ Tramacet) Acute pain: 2 tabs PO q 4 to 6 h prn, (up to 8 tabs/day for no more than 5 days). Adjust dose in elderly & renal dysfunction. Avoid in opioid-dependent patients. Seizures may occur if concurrent antidepressants or seizure disorder. [Generic/Trade: Tabs 37.5 mg tramadol/325 mg acetaminophen.] ▶KL ♀C D— \$\$

Non-Steroidal Anti-Inflammatories—COX-2 Inhibitors

CELECOXIB (Celebrex) OA, ankylosing spondylitis: 200 mg PO daily or 100 mg PO bid. RA: 100 to 200 mg PO bid. Familial adenomatous polyposis: 400 mg PO bid with food. Acute pain, dysmenorrhea: 400 mg single dose, then 200 bid prn. An additional 200 mg dose may be given on day 1 if needed. JRA: Give 50 mg PO bid for age 2 to 17 yo and wt 10 to 25 kg, give 100 mg PO bid for wt greater than 25 kg. Contraindicated in sulfonamide allergy. [Trade only: Caps 50, 100, 200, 400 mg.] ▶L ♀C (D in 3rd trimester) D? \$\$\$\$

Non-Steroidal Anti-Inflammatories—Salicylic Acid Derivatives

ASA (*Ecotrin, Empirin, Halfprin, Bayer, Anacin, Zorprin, ASA, Asaphen, Entrophen, Novasen*) Analgesia: 325 to 650 mg PO/PR q 4 to 6 h. Platelet aggregation inhibition: 81 to 325 mg PO daily. [Generic/Trade (OTC): Tabs, 325, 500 mg; Chewable tabs 81 mg; enteric-coated 81, 162 mg (Halfprin), 81, 325, 500 mg (Ecotrin), 650, 975 mg. Trade only: Tabs, controlled-release 650, 800 mg (ZORprin, Rx). Generic only (OTC): Supps 60, 120, 200, 300, 600 mg.] ▶K ♀D ▶? \$

CHOLINE MAGNESIUM TRISALICYLATE (*Trilisate*) RA/OA: 1500 mg PO bid. [Generic only: Tabs 500, 750, 1000 mg. Soln 500 mg/5 mL.] ▶K ♀C (D in 3rd trimester) ▶? \$\$

DIFLUNISAL (*Dolobid*) Pain: 500 to 1000 mg initially, then 250 to 500 mg PO q 8 to 12 h. RA/OA: 500 mg to 1 g PO divided bid. [Generic/Trade: Tabs 250, 500 mg.] ▶K ♀C (D in 3rd trimester) ▶—\$\$\$

SALSALATE (*Salflex, Disalcid, Amigesic*) RA/OA: 3000 mg/day PO divided q 8 to 12 h. [Generic only: Tabs 500, 750 mg, scored.] ▶K ♀C (D in 3rd trimester) ▶? \$\$

Non-Steroidal Anti-Inflammatories—Other

ARTHROTEC (diclofenac + misoprostol) OA: One 50/200 tab PO tid. RA: One 50/200 tab PO tid to qid. If intolerant, may use 50/200 or 75/200 PO bid. Misoprostol is an abortifacient. [Trade only: Tabs 50/200, 75/200 mg diclofenac/mcg misoprostol.] ▶LK ♀X ▶—\$\$\$\$

DICLOFENAC (*Voltaren, Voltaren XR, Cataflam, Flector, Zipsor, Cambia, Voltaren Rapide*) Multiple strengths; write specific product on Rx. Immediate- or delayed-release 50 mg PO bid to tid or 75 mg PO bid. Extended-release (Voltaren XR): 100 to 200 mg PO daily. Patch (Flector): apply 1 patch to painful area bid. Gel: 2 to 4 g to affected area qid. Acute migraine with or without aura: 50 mg single dose (Cambia) [Generic/Trade: Tabs, immediate-release (Cataflam) 50 mg, extended-release (Voltaren XR) 100 mg. Generic only: Tabs, delayed-release 25, 50, 75 mg. Trade only: Patch (Flector) 1.3% diclofenac epolamine. Topical gel (Voltaren) 1% 100 g tube. Trade only: Caps, liquid-filled (Zipsor) 25 mg. Trade only: Powder for oral soln (Cambia) 50 mg.] ▶L ♀B (D in 3rd trimester) ▶—\$\$\$

ETODOLAC (♣*Ultradol*) Multiple strengths; write specific product on Rx. Immediate-release 200 to 400 mg PO bid to tid. Extended-release: 400 to 1200 mg PO daily. [Generic only: Caps immediate-release 200, 300 mg, Tabs immediate-release 400, 500 mg, Tabs extended-release 400, 500, 600 mg.] ▶L ♀C (D in 3rd trimester) ▶—\$\$\$

FLURBIPROFEN (*Ansaid, Froben, Froben SR*) 200 to 300 mg/day PO divided bid to qid. [Generic/Trade: Tabs immediate-release 50, 100 mg.] ▶L ♀B (D in 3rd trimester) ▶+ \$\$\$

IBUPROFEN (*Motrin, Advil, Nuprin, Rufen, Neoprofen, Caldolor*) 200 to 800 mg PO tid to qid. Peds older than 6 mo: 5 to 10 mg/kg PO q 6 to 8 h. GI perforation and necrotizing enterocolitis has been reported with NeoProfen. [OTC: Caps, Liqui-gel caps 200 mg. Tabs 100, 200 mg. Chewable tabs 50,

(cont.)

100 mg. Susp (infant gtt) 50 mg/1.25 mL (with calibrated dropper), 100 mg/5 mL. Rx Generic/Trade: Tabs 300, 400, 600, 800 mg.] ▶L ♀B (D in 3rd trimester) ▶+ \$

INDOMETHACIN (*Indocin, Indocin SR, Indocin IV, ↗Indocid-P.D.A.*) Multiple strengths; write specific product on Rx. Immediate-release preparations 25 to 50 mg cap PO tid. Sustained-release: 75 mg cap PO daily to bid. [Generic/Trade: Caps, sustained-release 75 mg. Generic only: Caps, immediate-release 25, 50 mg, Suppository 50 mg. Trade only: Oral susp 25 mg/5 mL (237 mL).] ▶L ♀B (D in 3rd trimester) ▶+ \$

KETOPROFEN (*Orudis, Orudis KT, Actron, Oruvail, ↗Orudis SR*) Immediate-release: 25 to 75 mg PO tid to qid. Extended-release: 100 to 200 mg cap PO daily. [OTC: Tabs, immediate-release 12.5 mg. Rx Generic only: Caps, extended-release 100, 150, 200 mg, Caps, immediate-release 25, 50, 75 mg.] ▶L ♀B (D in 3rd trimester) ▶- \$\$\$

KETOROLAC (*Toradol*) Moderately severe acute pain: 15 to 30 mg IV/IM q 6 h or 10 mg PO q 4 to 6 h prn. Combined duration IV/IM and PO is not to exceed 5 days. [Generic only: Tabs 10 mg.] ▶L ♀C (D in 3rd trimester) ▶+ \$

MEFENAMIC ACID (*Ponstel, ↗Ponstan*) Mild to moderate pain, primary dysmenorrhea: 500 mg PO initially, then 250 mg PO q 6 h prn for no more than 1 week. [Trade only: Caps 250 mg.] ▶L ♀D ▶- \$\$\$\$

MELOXICAM (*Mobic, ↗Mobicox*) RA/OA: 7.5 mg PO daily. JRA age 2 yo or older: 0.125 mg/kg PO daily. [Generic/Trade: Tabs 7.5, 15 mg. Susp 7.5 mg/5 mL (1.5 mg/mL).] ▶L ♀C (D in 3rd trimester) ▶? \$

NABUMETONE (*Relafen*) RA/OA: Initial: Two 500 mg tabs (1000 mg) PO daily. May increase to 1500 to 2000 mg PO daily or divided bid. [Generic only: Tabs 500, 750 mg.] ▶L ♀C (D in 3rd trimester) ▶- \$\$\$

NAPROXEN (*Naprosyn, Aleve, Anaprox, EC-Naprosyn, Naprelan, Prevacid, NapraPac*) Immediate-release: 250 to 500 mg PO bid. Delayed-release: 375 to 500 mg PO bid (do not crush or chew). Controlled-release: 750 to 1000 mg PO daily. JRA: give 2.5 mL PO bid for wt 13 kg or less, give 5 mL PO bid for 14 to 25 kg, give 7.5 mL PO bid for 26 to 38 kg. 500 mg naproxen equivalent to 550 mg naproxen sodium. [OTC Generic/Trade (Aleve): Tabs immediate-release 200 mg. OTC Trade only (Aleve): Caps, Gelcaps immediate-release 200 mg. Rx Generic/Trade: Tabs immediate-release (Naprosyn) 250, 375, 500 mg, (Anaprox) 275, 550 mg. Tabs delayed-release enteric coated (EC-Naprosyn) 375, 500 mg. Tabs, controlled-release (Naprelan) 375, 500, 750 mg. Susp (Naprosyn) 125 mg/5 mL. Prevacid NapraPac: 7 lansoprazole 15 mg caps packaged with 14 naproxen tabs 375 mg or 500 mg.] ▶L ♀B (D in 3rd trimester) ▶+ \$\$\$

OXAPROZIN (*Daypro*) 1200 mg PO daily. [Generic/Trade: Tabs 600 mg, trade scored.] ▶L ♀C (D in 3rd trimester) ▶- \$\$\$

NSAIDs – If one class fails, consider another. *Salicylic acid derivatives*: ASA, diflunisal, salsalate, Trilisate. *Propionic acids*: flurbiprofen, ibuprofen, ketoprofen, naproxen, oxaprozin. *Acetic acids*: diclofenac, etodolac, indomethacin, ketorolac, nabumetone, sulindac, tolmetin. *Fenamates*: meclofenamate. *Oxicams*: meloxicam, piroxicam. *COX-2 inhibitors*: celecoxib.

PIROXICAM (*Feldene, Fexicam*) 20 mg PO daily. [Generic/Trade: Caps 10, 20 mg.] ▶L ♀B (D in 3rd trimester) ▶+ \$\$\$

SULINDAC (*Clinoril*) 150 to 200 mg PO bid. [Generic/Trade: Tabs 200 mg. Generic only: Tabs 150 mg.] ▶L ♀B (D in 3rd trimester) ▶- \$\$\$

TIAPROFENIC ACID (✦*Surgam, Surgam SR*) Canada only. 600 mg PO daily of sustained-release, or 300 mg PO bid of regular-release. [Generic/Trade: Tabs 300 mg. Trade only: Caps, sustained-release 300 mg. Generic only: Tabs 200 mg.] ▶K ♀C (D in 3rd trimester) ▶- \$\$

TOLMETIN (*Tolectin*) 200 to 600 mg PO tid. [Generic/Trade: Tabs 200 (trade scored), 600 mg. Caps 400 mg.] ▶L ♀C (D in 3rd trimester) ▶+ \$\$\$\$

Opioid Agonist-Antagonists

BUPRENORPHINE (*Buprenex, Subutex*) Analgesia: 0.3 to 0.6 mg IV/IM q 6 h prn. Treatment of opioid dependence: Induction 8 mg SL on day 1, 16 mg SL on day 2. Maintenance: 16 mg SL daily. Can individualize to range of 4 to 24 mg SL daily. [Trade only (Subutex): SL tabs 2, 8 mg.] ▶L ♀C ▶- ©III \$ IV, \$\$\$\$ SL

BUTORPHANOL (*Stadol, Stadol NS*) 0.5 to 2 mg IV or 1 to 4 mg IM q 3 to 4 h prn. Nasal spray (Stadol NS): 1 spray (1 mg) in 1 nostril q 3 to 4 h. Abuse potential. [Generic only: Nasal spray 1 mg/spray, 2.5 mL bottle (14–15 doses/bottle).] ▶LK ♀C ▶+ ©IV \$\$\$

NALBUPHINE (*Nubain*) 10 to 20 mg IV/IM/SC q 3 to 6 h prn. ▶LK ♀? ▶? \$

PENTAZOCINE (*Talwin NX*) 30 mg IV/IM q 3 to 4 h prn (Talwin). 1 tab PO q 3 to 4 h. (Talwin NX = 50 mg pentazocine/0.5 mg naloxone). [Generic/Trade: Tabs 50 mg with 0.5 mg naloxone, trade scored.] ▶LK ♀C ▶? ©IV \$\$\$

Opioid Agonists

CODEINE 0.5 to 1 mg/kg up to 15 to 60 mg PO/IM/IV/SC q 4 to 6 h. Do not use IV in children. [Generic only: Tabs 15, 30, 60 mg. Oral soln: 15 mg/5 mL.] ▶LK ♀C ▶- ©II \$\$

FENTANYL (*Duragesic, Actiq, Fentora, Sublimaze, IONSYS, Onsolis*) Transdermal (Duragesic): 1 patch q 72 h (some with chronic pain may require q 48 h dosing). May wear more than 1 patch to achieve the correct analgesic effect. Transmucosal lozenge (Actiq) for breakthrough cancer pain: 200 to 1600 mcg, goal is 4 lozenges on a stick per day in conjunction with long-acting opioid. Buccal tab (Fentora) for breakthrough cancer pain: 100 to 800 mcg, titrated to pain relief. Buccal soluble film (Onsolis) for breakthrough cancer pain: 200 to 1200 mcg, titrated to pain relief. Adult analgesia/procedural sedation: 50 to 100 mcg slow IV over 1 to 2 min; carefully titrate to effect. Analgesia: 50 to 100 mcg IM q 1 to 2 h prn. [Generic/Trade: Transdermal patches 12.5, 25, 50, 75, 100 mcg/h. Actiq lozenges on a stick, berry flavored 200, 400, 600, 800, 1200, 1600 mcg. Trade only: IONSYS: Iontophoretic transdermal system: 40 mcg fentanyl per activation; max 6 doses/h. Max per system is eighty 40 mcg doses over 24 h. Trade only: (Fentora) buccal tab 100, 200, 300, 400, 600, 800 mcg. Trade only: (Onsolis) buccal soluble film 200, 400, 600, 800, & 1200 mcg in child-resistant, protective foil.] ▶L ♀C ▶+ ©II \$\$\$\$

HYDROMORPHONE (*Dilaudid, Dilaudid-5, ✦Hydromorph Contin*) Adults: 2 to 4 mg PO q 4 to 6 h. 0.5 to 2 mg IM/SC or slow IV q 4 to 6 h. 3 mg PR q 6 to 8 h.

(cont.)

OPIOID EQUIVALENCY*

<i>Opioid</i>	<i>PO</i>	<i>IV/SC/IM</i>	<i>Opioid</i>	<i>PO</i>	<i>IV/SC/IM</i>
buprenorphine	n/a	0.3–0.4 mg	meperidine	300 mg	75 mg
butorphanol	n/a	2 mg	methadone	5–15 mg	2.5–10 mg
codeine	130 mg	75 mg	morphine	30 mg	10 mg
fentanyl	?	0.1 mg	nalbuphine	n/a	10 mg
hydrocodone	20 mg	n/a	oxycodone	20 mg	n/a
hydromorphone	7.5 mg	1.5 mg	oxymorphone	10 mg	1 mg
levorphanol	4 mg	2 mg	pentazocine	50 mg	30 mg

*Approximate equianalgesic doses as adapted from the 2003 American Pain Society (www.ampainsoc.org) guidelines and the 1992 AHCPR guidelines. Not available = "n/a". See drug entries themselves for starting doses. Many recommend initially using lower than equivalent doses when switching between different opioids. IV doses should be titrated slowly with appropriate monitoring. All PO dosing is with immediate-release preparations. Individualize all dosing, especially in the elderly, children, and in those with chronic pain, opioid naive, or hepatic/renal insufficiency.

Titrate dose as high as necessary to relieve cancer pain or other types of non-malignant pain where chronic opioids are necessary. Peds age younger than or equal to 12 yo: 0.03 to 0.08 mg/kg PO q 4 to 6 h prn or give 0.015 mg/kg/dose IV q 4 to 6 h prn. [Generic/Trade: Tabs 2, 4, 8 mg (8 mg trade scored). Oral soln 5 mg/5 mL. Suppository 3 mg.] ▶L ♀ C ▶? ©II \$\$\$

LEVORPHANOL (Levo-Dromoran) 2 mg PO q 6 to 8 h prn. [Generic only: Tabs 2 mg, scored.] ▶L ♀ C ▶? ©II \$\$\$\$

MEPERIDINE (Demerol, pethidine) 1 to 1.8 mg/kg up to 150 mg IM/SC/PO or slow IV q 3 to 4 h. 75 mg meperidine IV/IM/SC is equivalent to 300 mg meperidine PO. [Generic/Trade: Tabs 50 (trade scored), 100 mg. Syrup 50 mg/5 mL (trade banana flavored).] ▶LK ♀ C but + ▶+ ©II \$\$\$

METHADONE (Diskets, Dolophine, Methadose, ▶Metadol) Severe pain in opioid-tolerant patients: 2.5 to 10 mg IM/SC/PO q 3 to 4 h prn. Titrate dose as high as necessary to relieve cancer pain or other types of non-malignant pain where chronic opioids are necessary. Opioid dependence: 20 to 100 mg PO daily. Treatment longer than 3 weeks is maintenance and only permitted in approved treatment programs. [Generic/Trade: Tabs 5, 10 mg, Dispersible tabs 40 mg (for opioid dependence only). Oral concentrate (Intensol): 10 mg/mL. Generic only: Oral soln 5, 10 mg/5 mL.] ▶L ♀ C ▶? ©II \$

MORPHINE (MS Contin, Kadian, Avinza, Roxanol, Oramorph SR, MSIR, DepoDur, ▶Statex, M.O.S., Doloral) Controlled-release tabs (MS Contin, Oramorph SR): Start at 30 mg PO q 8 to 12 h. Controlled-release caps

(cont.)

FENTANYL TRANSDERMAL DOSE (Dosing based on ongoing morphine requirement.)

Morphine* (IV/IM)	Morphine* (PO)	Transdermal fentanyl*
10–22 mg/d	60–134 mg/d	25 mcg/h
23–37 mg/d	135–224 mg/d	50 mcg/h
38–52 mg/d	225–314 mg/d	75 mcg/h
53–67 mg/d	315–404 mg/d	100 mcg/h

*For higher morphine doses see product insert for transdermal fentanyl equivalencies.

(Kadian): 20 mg PO q 12 to 24 h. Extended-release caps (Avinza): Start at 30 mg PO daily. Do not break, chew, or crush MS Contin or Oramorph SR. Kadian & Avinza caps may be opened & sprinkled in applesauce for easier administration; however, the pellets should not be crushed or chewed: give 0.1 to 0.2 mg/kg up to 15 mg IM/SC or slow IV q 4 h. Titrate dose as high as necessary to relieve cancer pain or other types of non-malignant pain where chronic opioids are necessary. [Generic/Trade: Tabs, immediate-release 15, 30 mg. Oral soln: 10 mg/5 mL, 20 mg/5 mL, 20 mg/mL (concentrate). Rectal supps 5, 10, 20, 30 mg. Controlled-release tabs (MS Contin) 15, 30, 60, 100, 200 mg. Trade only: Controlled-release caps (Kadian) 10, 20, 30, 50, 60, 80, 100, 200 mg, Controlled-release tabs (Oramorph SR) 15, 30, 60, 100 mg. Extended-release caps (Avinza) 30, 45, 60, 75, 90, 120 mg. Generic only: Tabs, immediate-release 10 mg.] ▶LK ♀C ▶+ ©II \$\$\$\$

OXYCODONE (*Roxicodone, OxyContin, Percolone, OxyIR, OxyFAST, †Endocodone, Supeudol*) Immediate-release preparations: 5 mg PO q 4 to 6 h prn. Controlled-release (OxyContin): 10 to 40 mg PO q 12 h (no supporting data for shorter dosing intervals for controlled-release tabs). Titrate dose as high as necessary to relieve cancer pain or other types of non-malignant pain where chronic opioids are necessary. Do not break, chew, or crush controlled-release preparations. [Generic/Trade: Immediate-release: Tabs (scored), Caps 5 mg. Tabs 15, 30 mg. Oral soln 5 mg/5 mL. Oral concentrate 20 mg/mL. Generic only: Immediate-release tabs 10, 20 mg. Trade only: Controlled-release tabs: 10, 15, 20, 30, 40, 60, 80 mg.] ▶L ♀B ▶- ©II \$\$\$\$

OXYMORPHONE (*Opana*) 10 to 20 mg PO q 4 to 6 h (immediate-release) or 5 mg q 12 h (extended-release) in opioid-naïve patients, 1 h before or 2 h after meals. 1 to 1.5 mg IM/SC q 4 to 6 h prn. 0.5 mg IV q 4 to 6 h prn, increase dose until pain adequately controlled. [Trade only: Extended-release tabs (Opana ER) 5, 7.5, 10, 15, 20, 30, 40 mg, Immediate-release tabs (Opana IR) 5, 10 mg.] ▶L ♀C ▶? ©II \$\$\$\$

PROPOXYPHENE (*Darvon-N, Darvon Pulvules*) 65 to 100 mg PO q 4 h prn. [Generic/Trade: Caps 65 mg. Trade only: Tabs 100 mg (Darvon-N).] ▶L ♀C ▶+ ©IV \$\$

Opioid Analgesic Combinations

NOTE See individual components for further information. May cause drowsiness and/or sedation, which may be enhanced by alcohol & other CNS depressants. Opioids, carisoprodol, and butalbital may be habit-forming. Avoid exceeding 4 g/day of acetaminophen in combination products. Caution people who drink 3 or more alcoholic drinks/day to limit acetaminophen use to 2.5 g/day due to additive liver toxicity. Opioids commonly cause constipation; concurrent laxatives are recommended. All opioids are pregnancy class D if used for prolonged periods or in high doses at term.

ANEXSIA (hydrocodone + acetaminophen) Multiple strengths; write specific product on Rx. 1 tab PO q 4 to 6 h prn. [Generic/Trade: Tabs 5/325, 5/500, 7.5/325, 7.5/650, 10/750 mg hydrocodone/mg acetaminophen, scored.] ▶LK ♀C ▶- ©III \$\$

CAPITAL WITH CODEINE SUSPENSION (acetaminophen + codeine) 15 mL PO q 4 h prn. Give 5 mL q 4 to 6 h prn for age 3 to 6 yo, give 10 mL PO q 4 to 6 h prn pain for age 7 to 12 yo, use adult dose for age older than 12 yo. [Generic available as oral soln. Trade available as susp. Both contain codeine 12 mg and acetaminophen 120 mg per 5 mL (trade, fruit punch flavor).] ▶LK ♀C ▶? ©V \$

COMBUNOX (oxycodone + ibuprofen) 1 tab PO q 6 h prn for no more than 7 days. Max 4 tabs per day. [Generic/Trade: Tabs 5 mg oxycodone/400 mg ibuprofen.] ▶L ♀C (D in 3rd trimester) ▶? ©II \$\$\$

DARVO CET (propoxyphene + acetaminophen) Multiple strengths; write specific product on Rx. 50/325, 2 tabs PO q 4 h prn. 100/500 or 100/650, 1 tab PO q 4 h prn. [Generic/Trade: Tabs 50/325 (Darvocet N-50), 100/650 (Darvocet N-100), 100/500 (Darvocet A500), mg propoxyphene/mg acetaminophen.] ▶L ♀C ▶+ ©IV \$\$

EMPIRIN WITH CODEINE (ASA + codeine) (✚292 tabs) Multiple strengths; write specific product on Rx. 1 to 2 tabs PO q 4 h prn. [Generic only: Tabs 325/30, 325/60 mg ASA/mg codeine. Empirin brand no longer made.] ▶LK ♀D ▶- ©III \$

FIORICET WITH CODEINE (acetaminophen + butalbital + caffeine + codeine) 1 to 2 caps PO q 4 h prn. Max 6 caps per day. [Generic/Trade: Caps 325 mg acetaminophen/50 mg butalbital/40 mg caffeine/30 mg codeine.] ▶LK ♀C ▶- ©III \$\$\$

FIORINAL WITH CODEINE (ASA + butalbital + caffeine + codeine) (✚Fiorinal C-1/4, Fiorinal C-1/2, Tecnal C-1/4, Tecnal C-1/2) 1 to 2 caps PO q 4 h prn. Max 6 caps/24 h. [Generic/Trade: Caps 325 mg ASA/50 mg butalbital/40 mg caffeine/30 mg codeine.] ▶LK ♀D ▶- ©III \$\$\$

IBUDONE (hydrocodone + ibuprofen) 1 tab PO q 4 to 6 h prn, max dose 5 tabs/day. [Generic/Trade: Tabs 5/200 mg and 10/200 mg hydrocodone/ibuprofen.] ▶LK ♀- ▶? ©III \$\$\$

LORCET (hydrocodone + acetaminophen) 1 to 2 caps (5/500) PO q 4 to 6 h prn, max dose 8 caps/day. 1 tab PO q 4 to 6 h prn (7.5/650 & 10/650), max dose 6 tabs/day. [Generic/Trade: Caps 5/500 mg, Tabs 7.5/650, 10/650 mg hydrocodone/acetaminophen.] ▶LK ♀C ▶- ©III \$

LORTAB (hydrocodone + acetaminophen) 1 to 2 tabs (2.5/500 & 5/500) PO q 4 to 6 h prn, max dose 8 tabs/day. 1 tab (7.5/500 & 10/500) PO q 4 to 6 h prn, max dose 5 tabs/day. Elixir 15 mL PO q 4 to 6 h prn, max 6 doses/day. [Generic/Trade: Lortab 5/500 (scored), Lortab 7.5/500 (trade scored), Lortab 10/500 mg hydrocodone/mg acetaminophen. Elixir: 7.5/500 mg hydrocodone/mg acetaminophen/15 mL. Trade only: Tabs 2.5/500 mg.] ▶LK ♀C ▶- ©III \$\$

MAXIDONE (hydrocodone + acetaminophen) 1 tab PO q 4 to 6 h prn, max dose 5 tabs/day. [Trade only: Tabs 10/750 mg hydrocodone/mg acetaminophen.] ▶LK ♀C ▶- ©III \$\$\$

MERSYNDOL WITH CODEINE (acetaminophen + codeine + doxylamine) Canada only. 1 to 2 tabs PO q 4 to 6 h prn. Max 12 tabs per day. [OTC Canada Trade only: Tabs 325 mg acetaminophen/8 mg codeine phosphate/5 mg doxylamine.] ▶LK ♀C ▶? \$

NORCO (hydrocodone + acetaminophen) 1 to 2 tabs PO q 4 to 6 h prn (5/325), max dose 12 tabs/day. 1 tab (7.5/325 & 10/325) PO q 4 to 6 h prn, max dose 8 & 6 tabs/day respectively. [Trade only: Tabs 5/325, 7.5/325, 10/325 mg hydrocodone/acetaminophen, scored.] ▶L ♀C ▶? ©III \$\$\$

PERCOCET (oxycodone + acetaminophen) (↗*Percocet-demi, Oxycocet, Endocet*) Multiple strengths; write specific product on Rx. 1 to 2 tabs PO q 4 to 6 h prn (2.5/325 & 5/325). 1 tab PO q 4 to 6 h prn (7.5/500 & 10/650). [Trade only: Tabs 2.5/325 oxycodone/acetaminophen. Generic/Trade: Tabs 5/325, 7.5/325, 7.5/500, 10/325, 10/650 mg. Generic only: 2.5/300, 5/300, 7.5/300, 10/300, 2.5/400, 5/400, 7.5/400, 10/400, 10/500 mg.] ▶L ♀C ▶- ©II \$

PERCODAN (oxycodone + ASA) (↗*Oxycodan, Endodan*) 1 tab PO q 6 h prn. [Generic/Trade: Tabs 4.88/325 mg oxycodone/ASA (trade scored).] ▶LK ♀D ▶- ©II \$\$

ROXICET (oxycodone + acetaminophen) Multiple strengths; write specific product on Rx. 1 tab PO q 6 h prn. Soln: 5 mL PO q 6 h prn. [Generic/Trade: Tabs 5/325 mg. Caps/Caplets 5/500 mg. Soln 5/325 per 5 mL, mg oxycodone/acetaminophen.] ▶L ♀C ▶- ©II \$

SOMA COMPOUND WITH CODEINE (carisoprodol + ASA + codeine) Moderate to severe musculoskeletal pain: 1 to 2 tabs PO qid prn. [Generic/Trade: Tabs 200 mg carisoprodol/325 mg ASA/16 mg codeine.] ▶L ♀D ▶- ©III \$\$\$

SYNALGOS-DC (dihydrocodeine + ASA + caffeine) 2 caps PO q 4 h prn. [Trade only: Caps 16 mg dihydrocodeine/356.4 mg ASA/30 mg caffeine. "Painpack"=12 caps.] ▶L ♀C ▶- ©III \$

TALACEN (pentazocine + acetaminophen) 1 tab PO q 4 h prn. [Generic/Trade: Tabs 25 mg pentazocine/650 mg acetaminophen, trade scored.] ▶L ♀C ▶? ©IV \$\$\$

TYLENOL WITH CODEINE (codeine + acetaminophen) (↗*Lenoltec, Emtec, Triatec*) Multiple strengths; write specific product on Rx. Give 1 to 2 tabs PO q 4 h prn. Elixir: give 5 ml q 4 to 6 h prn for age 3 to 6 yo, give 10 mL q 4 to 6 h prn for age 7 to 12 yo. [Generic only: Tabs Tylenol #2 (15/300). Tylenol with Codeine Elixir 12/120 per 5 mL, mg codeine/mg acetaminophen. Generic/Trade: Tabs Tylenol #3 (30/300), Tylenol #4 (60/300). Canadian forms come with (Lenoltec, Tylenol) or without (Empracet, Emtec) caffeine.] ▶LK ♀C ▶? ©III (Tabs), V (elixir) \$

TYLOX (oxycodone + acetaminophen) 1 cap PO q 6 h prn. [Generic/Trade: Caps 5 mg oxycodone/500 mg acetaminophen.] ▶L ♀C ▶- ©II \$

VICODIN (hydrocodone + acetaminophen) 5/500 (max dose 8 tabs/day) & 7.5/750 (max dose of 5 tabs/day): 1 to 2 tabs PO q 4 to 6 h prn. 10/660: 1 tab PO q 4 to 6 h prn (max of 6 tabs/day). [Generic/Trade: Tabs Vicodin (5/500), Vicodin ES (7.5/750), Vicodin HP (10/660), scored, mg hydrocodone/mg acetaminophen.] ▶LK ♀C ▶? ©III \$

VICOPROFEN (hydrocodone + ibuprofen) 1 tab PO q 4 to 6 h prn, max dose 5 tabs/day. [Generic/Trade: Tabs 7.5/200 mg hydrocodone/ibuprofen. Generic only: Tabs 2.5/200, 5/200, 10/200 mg.] ▶LK ♀- ▶? ©III \$\$\$

WYGESIC (propoxyphene + acetaminophen) 1 tab PO q 4 h prn. [Generic only: Tabs 65 mg propoxyphene/650 mg acetaminophen.] ▶L ♀C ▶? ©IV \$

XODOL (hydrocodone + acetaminophen) 1 tab PO q 4 to 6 h prn, max 6 doses/day. [Trade only: Tabs 5/300, 7.5/300, 10/300 mg hydrocodone/acetaminophen.] ▶LK ♀C D- ©III \$\$

ZYDONE (hydrocodone + acetaminophen) 1 to 2 tabs (5/400) PO q 4 to 6 h prn, max dose 8 tabs/day. 1 tab (7.5/400, 10/400) q 4 to 6 h prn, max dose 6 tabs/day. [Trade only: Tabs 5/400, 7.5/400, 10/400 mg hydrocodone/mg acetaminophen.] ▶LK ♀C D? ©III \$\$

Opioid Antagonists

NALOXONE (Narcan) Adult opioid overdose: 0.4 to 2 mg q 2 to 3 min prn. Adult post-op reversal: 0.1 to 0.2 mg q 2 to 3 min prn. Peds opioid overdose: 0.01 mg/kg IV; may give 0.1 mg/kg if inadequate response. Peds post-op reversal: 0.005 to 0.01 mg q 2 to 3 min prn. May use IM/SC/ET if IV not available. ▶LK ♀B D? \$

Other Analgesics

ACETAMINOPHEN (Tylenol, Panadol, Temptra, paracetamol, *Abenol, Atasol, Pediatrix) 325 to 650 mg PO/PR q 4 to 6 h prn. Max dose 4 g/day. OA: 2 extended-release caplets (ie, 1300 mg) PO q 8 h around the clock. Peds: 10 to 15 mg/kg/dose PO/PR q 4 to 6 h prn. [OTC: Tabs 325, 500, 650 mg. Chewable tabs 80 mg. Oral disintegrating Tabs 80, 160 mg. Caps/Gelcaps/Caplets 500 mg. Extended-release caplets 650 mg. Liquid 160 mg/5 mL, 500 mg/15 mL. Infant gtt 80 mg/0.8 mL. Supps 80, 120, 325, 650 mg.] ▶LK ♀B D+ \$

TAPENTADOL (Nucynta) Moderate to severe acute pain: 50 to 100 mg PO q 4 to 6 h prn, max 600 mg/day. Adjust dose in elderly, renal & hepatic dysfunction. Avoid in opioid-dependent patients. Seizures may occur with concurrent antidepressants or seizure disorder. [Trade only: Tabs 50, 75, 100 mg.] ▶LK ♀C D- ©II ?

TRAMADOL (Ultram, Ultram ER, Ryzolt) Moderate to moderately severe pain: 50 to 100 mg PO q 4 to 6 h prn, max 400 mg/day. Chronic pain, extended-release: 100 to 300 mg PO daily. Adjust dose in elderly, renal & hepatic dysfunction. Avoid in opioid-dependent patients. Seizures may occur with concurrent antidepressants or seizure disorder. [Generic/Trade: Tabs, immediate-release 50 mg. Trade only (Ultram ER, Ryzolt): Extended-release tabs 100, 200, 300 mg.] ▶KL ♀C D- \$\$\$

WOMEN'S TYLENOL MENSTRUAL RELIEF (acetaminophen + pamabrom) 2 caplets PO q 4 to 6 h. [OTC: Caplets 500 mg acetaminophen/25 mg pamabrom (diuretic).] ▶LK ♀B D+ \$

ANESTHESIA

Anesthetics & Sedatives

DEXMEDETOMIDINE (Precedex) ICU sedation less than 24 h: Load 1 mcg/kg over 10 min followed by infusion 0.2 to 0.7 mcg/kg/h titrated to desired sedation endpoint. Beware of bradycardia and hypotension. ▶LK ♀C D? \$\$\$\$

- ETOMIDATE (Amidate)** Induction: give 0.3 mg/kg IV. ▶L ♀C ▶? \$
- FOSPROPOFOL (Lusedra)** Initial dose 6.5 mg/kg IV (not to exceed 16.5 mL), then give 1.6 mg/kg supplemental dose q 4 min (not to exceed 4 mL). ▶L ♀—▶? \$\$\$
- KETAMINE (Ketalar)** 1 to 2 mg/kg IV over 1 to 2 min or 4 mg/kg IM induces 10 to 20 min dissociative state. Concurrent atropine minimizes hypersalivation. ▶L ♀? ▶? ©III \$
- METHOHEXITAL (Brevital)** Induction: give 1 to 1.5 mg/kg IV, duration 5 min. ▶L ♀B ▶? ©IV \$
- MIDAZOLAM (Versed)** Adult sedation/anoxiolysis: 5 mg or 0.07 mg/kg IM; or 1 mg IV slowly q 2 to 3 min up to 5 mg. Peds: 0.25 to 1 mg/kg to max of 20 mg PO, or 0.1 to 0.15 mg/kg IM. IV route (6 mo to 5 yo): initial dose 0.05 to 0.1 mg/kg IV, then titrated to max 0.6 mg/kg. IV route (6 to 12 yo): initial dose 0.025 to 0.05 mg/kg IV, then titrated to max 0.4 mg/kg. Monitor for respiratory depression. [Generic only: Oral liquid 2 mg/mL.] ▶LK ♀D ▶—©IV \$
- PENTOBARBITAL (Nembutal)** Pediatric sedation: 1 to 6 mg/kg IV, adjusted in increments of 1 to 2 mg/kg to desired effect, or 2 to 6 mg/kg IM, max 100 mg. ▶LK ♀D ▶? ©II \$
- PROPOFOL (Diprivan)** Induction dose: 40 mg IV q 10 sec until induction (2 to 2.5 mg/kg). ICU ventilator sedation: Infusion 5 to 50 mcg/kg/min. Deep sedation: 1 mg/kg IV over 20 to 30 seconds. Repeat 0.5 mg/kg IV prn. ▶L ♀B ▶—\$\$\$
- THIOPENTAL (Pentothal)** Induction: 3 to 5 mg/kg IV, duration 5 min. ▶L ♀C ▶? ©III \$

Local Anesthetics

- ARTICAINE (Septocaine, Zorcaine)** 4% injection (includes epinephrine). [4% (includes epinephrine 1:100,000).] ▶LK ♀C ▶? \$
- BUPIVACAINE (Marcaine, Sensorcaine)** Local and regional anesthesia. [0.25%, 0.5%, 0.75%, all with or without epinephrine.] ▶LK ♀C ▶? \$
- DUOCAINE (bupivacaine + lidocaine—local anesthetic)** Local anesthesia, nerve block for eye surgery. [Vials contain bupivacaine 0.375% + lidocaine 1%.] ▶LK ♀C ▶? \$
- LIDOCAINE—LOCAL ANESTHETIC (Xylocaine)** 0.5 to 1% injection with and without epinephrine. [0.5%, 1%, 1.5%, 2%. With epi: 0.5%, 1%, 1.5%, 2%.] ▶LK ♀B ▶? \$
- MEPIVACAINE (Carbocaine, Polocaine)** 1 to 2% injection. [1%, 1.5%, 2%, 3%.] ▶LK ♀C ▶? \$

Neuromuscular Blockers

- CISATRACURIUM (Nimbex)** Paralysis: 0.15 to 0.2 mg/kg IV. Peds: 0.1 mg/kg. Duration 30 to 60 min. ▶Plasma LB ▶? \$\$
- ROCURONIUM (Zemuron)** Paralysis: 0.6 mg/kg IV. Duration 30 min. ▶L ♀B ▶? \$\$
- SUCCINYLCHOLINE (Anectine, Quelicin)** Paralysis: 0.6 to 1.1 mg/kg IV. Peds: 2 mg/kg IV. ▶Plasma ♀C ▶? \$
- VECURIONIUM (Norcuron)** 0.08 to 0.1 mg/kg IV. Duration 15 to 30 min. ▶LK ♀C ▶? \$

ANTIMICROBIALS

Aminoglycosides

NOTE See also dermatology and ophthalmology

AMIKACIN (Amikin) 15 mg/kg (up to 1500 mg/day) IM/IV divided q 8 to 12 h. Peak 20 to 35 mcg/mL, trough <5 mcg/mL. Alternative 15 mg/kg IV q 24 h. ▶K ♀D ▶? \$\$\$

GENTAMICIN (Garamycin) Adults: 3 to 5 mg/kg/day IM/IV divided q 8 h. Peak 5 to 10 mcg/mL, trough <2 mcg/mL. Alternative 5 to 7 mg/kg IV q 24 h. Peds: 2 to 2.5 mg/kg q 8 h. ▶K ♀D ▶+ \$

STREPTOMYCIN Combo therapy for TB: 15 mg/kg (up to 1 g) IM daily. 10 mg/kg (up to 750 mg) for age 60 yo or older. Peds: 20 to 40 mg/kg (up to 1 g) IM daily. Nephrotoxicity, ototoxicity. ▶K ♀D ▶+ \$\$\$\$

TOBRAMYCIN (Nebcin, TOBI) Adults: 3 to 5 mg/kg/day IM/IV divided q 8 h. Peak 5 to 10 mcg/mL, trough <2 mcg/mL. Alternative 5 to 7 mg/kg IV q 24 h. Peds: 2 to 2.5 mg/kg q 8 h. Cystic fibrosis (TOBI): 300 mg neb bid 28 days on, then 28 days off. [Trade only: TOBI 300 mg ampules for nebulizer.] ▶K ♀D ▶? \$\$

Antifungal Agents—Azoles

CLOTRIMAZOLE (Mycelex, +Canesten, Clotrimaderm) Oral troches 5 times per day for 14 days. [Generic/Trade: Oral troches 10 mg.] ▶L ♀C ▶? \$\$\$\$

FLUCONAZOLE (Diflucan) Vaginal candidiasis: 150 mg PO single dose (\$). All other dosing regimens IV/PO. Oropharyngeal candidiasis: 100 to 200 mg daily for 7 to 14 days. Esophageal candidiasis: 200 to 400 mg daily for 14 to 21 days. Candidemia: 800 mg on first day, then 400 mg daily. Cryptococcal meningitis in AIDS: 400 mg daily. Peds: Oropharyngeal candidiasis: 6 mg/kg on first day, then 3 mg/kg daily for 7 to 14 days. Esophageal candidiasis: 12 mg/kg on first day, then 6 mg/kg daily for 14 to 21 days. Systemic candidiasis; cryptococcal meningitis in AIDS: 12 mg/kg on first day, then 6 to 12 mg/kg daily. [Generic/Trade: Tabs 50, 100, 150, 200 mg. 150 mg tab in single-dose blister pack. Susp 10, 40 mg/mL (35 mL).] ▶K ♀C ▶+ \$\$\$\$

ITRACONAZOLE (Sporanox) Oral caps for onychomycosis "pulse dosing": 200 mg PO bid for first week of month for 2 months (fingernails) or 3 to 4 months (toenails). Fluconazole-refractory oropharyngeal or esophageal candidiasis: Oral soln 200 mg PO daily for 14 to 21 days. Contraindicated with dofetilide, ergot alkaloids, lovastatin, PO midazolam, pimozide, quinidine, simvastatin, triazolam. Negative inotrope; do not use for onychomycosis if ventricular dysfunction. [Generic/Trade: Caps 100 mg. Trade only: Oral soln 10 mg/mL (150 mL).] ▶L ♀C ▶- \$\$\$\$

KETOCONAZOLE (Nizoral) 200 to 400 mg PO daily. Hepatotoxicity. Contraindicated with midazolam, pimozide, triazolam. H2 blockers, proton pump inhibitors, antacids impair absorption. [Generic/Trade: Tabs 200 mg.] ▶L ♀C ▶? + \$\$\$

POSACONAZOLE (Noxafil) Prevention of invasive Aspergillus or Candida infection, age 13 yo or older: 200 mg (5 mL) PO tid. Oropharyngeal candidiasis,

(cont.)

age 13 yo or older: 100 mg (2.5 mL) PO bid on day 1, then 100 mg PO once daily for 13 days. Oropharyngeal candidiasis resistant to itraconazole/fluconazole, age 13 yo or older: 400 mg (10 mL) PO bid. Take with full meal or liquid nutritional supplement. CYP3A4 inhibitor. [Trade only: Oral susp 40 mg/mL, 105 mL bottle.] ▶Glucuronidation ♀C ▶—\$\$\$\$\$

VORICONAZOLE (Vfend) Aspergillus, systemic Candida infections: 6 mg/kg IV q 12 h for 2 doses, then 3 to 4 mg/kg IV q 12 h (use 4 mg/kg for aspergillosis). Esophageal candidiasis, or maintenance therapy of aspergillosis/candidiasis: 200 mg PO bid. For wt less than 40 kg, reduce to 100 mg PO bid. Dosage adjustment for efavirenz: Voriconazole 400 mg PO bid with efavirenz 300 mg PO once daily (use caps). Peds, less than 12 yo: 7 mg/kg IV q 12 h and infuse IV over 2 h. Take tabs and/or susp 1 h before or after meals. CYP3A4 inhibitor. Many drug interactions. [Trade only: Tabs 50, 200 mg (contains lactose), susp 40 mg/mL (75 mL).] ▶L ♀D ▶? \$\$\$\$\$

Antifungal Agents—Echinocandins

ANIDULAFUNGIN (Eraxis) Candidemia: 200 mg IV load on day 1, then 100 mg IV once daily. Esophageal candidiasis: 100 mg IV load on day 1, then 50 mg IV once daily. Max infusion rate of 1.1 mg/min to prevent histamine reactions. ▶Degraded chemically ♀C ▶? \$\$\$\$\$

CASPOFUNGIN (Cancidas) Infuse over 1 h, give 70 mg IV loading dose on day 1, then 50 mg once daily. Peds: 70 mg/m² loading dose on day 1, then 50 mg/m² once daily (max of 70 mg/day). ▶KL ♀C ▶? \$\$\$\$\$

MICAFUNGIN (Mycamine) Infuse IV over 1 h. Esophageal candidiasis: 150 mg once daily. Prevention of candidal infections in bone marrow transplant patients: 50 mg once daily. Candidemia, acute disseminated candidiasis, Candida peritonitis/abscess: 100 mg once daily. ▶L, feces ♀C ▶? \$\$\$\$\$

Antifungal Agents—Polyenes

AMPHOTERICIN B DEOXYCHOLATE (Fungizone) Test dose 0.1 mg/kg up to 1 mg slow IV. Wait 2 to 4 h, and if tolerated then begin 0.25 mg/kg IV daily and advance to 0.5 to 1.5 mg/kg/day depending on fungal type. Maximum dose 1.5 mg/kg/day. ▶Tissues ♀B ▶? \$\$\$\$

AMPHOTERICIN B LIPID FORMULATIONS (Amphotec, Abelcet, AmBisome) Abelcet: 5 mg/kg/day IV at 2.5 mg/kg/h. AmBisome: 3 to 5 mg/kg/day IV over 2 h. Amphotec: Test dose of 10 mL over 15 to 30 min, observe for 30 min, then 3 to 4 mg/kg/day IV at 1 mg/kg/h. ▶? ♀B ▶? \$\$\$\$\$

Antifungal Agents—Other

FLUCYTOSINE (Ancobon) 50 to 150 mg/kg/day PO divided qid. Myelosuppression. [Trade only: Caps 250, 500 mg.] ▶K ♀C ▶—\$\$\$\$\$

GRISEOFULVIN (Grifulvin V, Fulvicin) Tinea capitis: 500 mg PO daily in adults; 15 to 20 mg/kg (up to 1 g) PO daily in peds. Treat for 4 to 6 weeks, continuing for 2 weeks past symptom resolution. [Generic/Trade: Susp 125 mg/5 mL (120 mL). Trade only: Tabs 250, 500 mg.] ▶Skin ♀C ▶? \$\$\$\$

NYSTATIN (*Mycostatin*, \blacklozenge *Nilstat*, *Nyaderm*, *Candistatin*) Thrush: 4 to 6 mL PO swish & swallow qid. Infants: 2 mL/dose with 1 mL in each cheek qid. [Generic only: Susp 100,000 units/mL (60, 480 mL).] \blacktriangleright Not absorbed ♀B \blacktriangleright ? \$\$

TERBINAFINE (*Lamisil*) Onychomycosis: 250 mg PO daily for 6 weeks to treat fingernails, for 12 weeks to treat toenails. Tinea capitis, age 4 yo or older: Give granules once daily with food for 6 weeks: 125 mg for wt less than 25 kg, 187.5 mg for wt 25 to 35 kg, 250 mg for wt more than 35 kg. [Generic/Trade: Tabs 250 mg. Trade only: Oral granules 125, 187.5 mg/packet.] \blacktriangleright LK ♀B \blacktriangleright —\$

Antimalarials

NOTE For help treating malaria or getting antimalarials, see www.cdc.gov/malaria or call the CDC "malaria hotline" (770) 488-7788 Monday-Friday 8 am to 4:30 pm EST; after hours or weekend (770) 488-7100. Pediatric doses of antimalarials should never exceed adult doses.

CHLOROQUINE (*Aralen*) Malaria prophylaxis, chloroquine-sensitive areas: 8 mg/kg up to 500 mg PO q week starting 1 to 2 weeks before exposure to 4 weeks after exposure. Chloroquine resistance is widespread. Can prolong QT interval and cause torsades. [Generic only: Tabs 250 mg. Generic/Trade: Tabs 500 mg (500 mg phosphate equivalent to 300 mg base).] \blacktriangleright KL ♀C but + \blacktriangleright + \$

COARTEM (artemether + lumefantrine) (*coartemether*) Uncomplicated malaria: Take with food bid for 3 days. On day 1, give 2nd dose 8 h after first dose. Dose based on wt: 1 tab for 5 to 14 kg; 2 tabs for 15 to 24 kg; 3 tabs for 25 to 34 kg; 4 tabs for 35 kg or greater. Repeat dose if vomiting occurs within 1 to 2 h. Can prolong QT interval. [Trade only: Tabs, artemether 20 mg + lumefantrine 120 mg.] \blacktriangleright L ♀C \blacktriangleright ? \$\$\$

MALARONE (atovaquone + proguanil) Prevention of malaria: Give indicated dose PO once daily from 1 to 2 days before exposure until 7 days after. Dose based on wt: $\frac{1}{2}$ ped tab for wt 5 to 8 kg; $\frac{3}{4}$ ped tab for wt 9 to 10 kg; 1 ped tab for wt 11 to 20 kg; 2 ped tabs for 21 to 30 kg, 3 ped tabs for 31 to 40 kg, 1 adult tab for all patients wt greater than 40 kg. Treatment of malaria: Give the following dose PO once daily for 3 days. Dose based on wt: 2 ped tabs for 5 to 8 kg; 3 ped tabs for 9 to 10 kg; 1 adult tab for 11 to 20 kg; 2 adult tabs for 21 to 30 kg; 3 adult tabs for 31 to 40 kg, 4 adult tabs for all patients wt greater than 40 kg. Take with food or milky drink. [Trade only: Adult tabs atovaquone 250 mg + proguanil 100 mg; pediatric tabs 62.5 mg + 25 mg.] \blacktriangleright Fecal excretion; LK ♀C \blacktriangleright ? \$\$\$\$\$

MEFLOQUINE (*Lariam*) Malaria prophylaxis for chloroquine-resistant areas: 250 mg PO once a week from 1 week before exposure to 4 weeks after. Treatment: 1250 mg PO single dose. Peds. Malaria prophylaxis: Give the following dose PO once a week starting 1 week before exposure to 4 weeks after: Dose based on wt: give 5 mg/kg (prepared by pharmacist) once a week for wt 9 kg or less; give $\frac{1}{4}$ tab once a week for wt greater than 9 kg to 19 kg; give $\frac{1}{2}$ tab once a week for wt greater than 19 kg to 30 kg; give $\frac{3}{4}$ tab once a week for wt greater than 30 to 45 kg; give 1 tab once a week for wt 45 kg or greater. Treatment: 20 to 25 mg/kg PO single dose or divided into 2 doses given 6 to 8 h apart. Take on full stomach. [Generic/Trade: Tabs 250 mg.] \blacktriangleright L ♀C \blacktriangleright ? \$\$

PRIMAQUINE Prevention of relapse, P vivax/ovale malaria: 0.5 mg/kg (up to 30 mg) base PO daily for 14 days. Do not use unless normal G6PD level. [Generic only: Tabs 26.3 mg (equiv to 15 mg base).] ▶L ♀—▶—\$

QUININE (Qualaquin) Malaria: 648 mg PO tid. Peds: 25 to 30 mg/kg/day (up to 2 g/day) PO divided q 8 h. Treat for 3 days (Africa/South America) or 7 days (Southeast Asia). Also give 7 day course of doxycycline, tetracycline, or clindamycin. Nocturnal leg cramps: 260 to 325 mg PO qhs. FDA believes risks outweigh benefits for this indication. Can cause life-threatening adverse effects: Cinchonism with overdose; hemolysis with G6PD deficiency; hypersensitivity; thrombocytopenia; QT interval prolongation; many drug interactions. [Trade only: Caps 324 mg. ▶L ♀C ▶+? \$\$\$\$]

Antimycobacterial Agents

NOTE Two or more drugs are required for the treatment of active mycobacterial infections. See guidelines at <http://www.thoracic.org/sections/publications/statements/>.

DAPSONE (Aczone) Pneumocystis prophylaxis, leprosy: 100 mg PO daily. Pneumocystis treatment: 100 mg PO daily with trimethoprim 5 mg/kg PO tid for 21 days. Acne (Aczone): Apply bid. [Generic only: Tabs 25, 100 mg. Trade only (Aczone): Topical gel 5% 30, 60 g.] ▶LK ♀C ▶—\$

ETHAMBUTOL (Myambutol, ✦Etibi) 15 to 20 mg/kg PO daily. Dose with whole tabs: Give 800 mg PO daily for wt 40 to 55 kg, 1200 mg for wt 56 to 75 kg, 1600 mg for wt 76 to 90 kg. Base dose on estimated lean body wt. Peds: 15 to 20 mg/kg (up to 1 g) PO daily. [Generic/Trade: Tabs 100, 400 mg.] ▶LK ♀C but + ▶+ \$\$\$\$

ISONIAZID (INH, ✦Isotamine) Adults: 5 mg/kg (up to 300 mg) PO daily. Peds: 10 to 15 mg/kg (up to 300 mg) PO daily. Hepatotoxicity. Consider supplemental pyridoxine up to 50 mg per day to prevent neuropathy. [Generic only: Tabs 100, 300 mg, syrup 50 mg/5 mL.] ▶LK ♀C but + ▶+ \$

PYRAZINAMIDE (PZA, ✦Tebrazid) 20 to 25 mg/kg (up to 2000 mg) PO daily. Dose with whole tabs: Give 1000 mg PO daily for wt 40 to 55 kg, 1500 mg for wt 56 to 75 kg, 2000 mg for wt 76 to 90 kg. Base dose on estimated lean body wt. Peds: 15 to 30 mg/kg (up to 2000 mg) PO daily. Hepatotoxicity. [Generic only: Tabs 500 mg.] ▶LK ♀C ▶? \$\$\$\$

RIFABUTIN (Mycobutin) 300 mg PO daily or 150 mg PO bid. Dosage reduction required with protease inhibitors. [Trade only: Caps 150 mg.] ▶L ♀B ▶? \$\$\$\$\$

RIFAMATE (isoniazid + rifampin) 2 caps PO daily on empty stomach. [Generic/Trade: Caps isoniazid 150 mg + rifampin 300 mg.] ▶LK ♀C but + ▶+ \$\$\$\$

RIFAMPIN (Rimactane, Rifadin, ✦Rofact) TB: 10 mg/kg (up to 600 mg) PO/IV daily. Peds: 10 to 20 mg/kg (up to 600 mg) PO/IV daily. Neisseria meningitidis carriers: 600 mg PO bid for 2 days. Peds: Age 1 mo or older: 10 mg/kg (up to 600 mg) PO bid for 2 days. Age younger than 1 mo: 5 mg/kg PO bid for 2 days. IV & PO doses are the same. Take oral doses on empty stomach.

(cont.)

[Generic/Trade: Caps 150, 300 mg. Pharmacists can make oral susp.] ▶L ♀C but + D+ \$\$\$

RIFAPENTINE (Priftin) 600 mg PO twice a week for 2 months, then once a week for 4 months. Use for continuation therapy only in selected HIV-negative patients. [Trade only: Tabs 150 mg.] ▶Esterases, fecal ♀C D? \$\$\$\$

RIFATER (isoniazid + rifampin + pyrazinamide) 4 tabs daily for wt less than 45 kg, 5 tabs daily for wt 45 to 54 kg, 6 tabs daily for wt 55 kg or greater. [Trade only: Tabs Isoniazid 50 mg + rifampin 120 mg + pyrazinamide 300 mg.] ▶LK ♀C D? \$\$\$\$

Antiparasitics

ALBENDAZOLE (Albenza) Hydatid disease, neurocysticercosis: 15 mg/kg/day (up to 800 mg/day) for wt less than 60 kg, 400 mg PO bid for wt 60 kg or greater. [Trade only: Tabs 200 mg.] ▶L ♀C D? \$\$\$

ATOVAQUONE (Mepron) Pneumocystis treatment: 750 mg PO bid for 21 days. Pneumocystis prevention: 1500 mg PO daily. Take with meals. [Trade only: Susp 750 mg/5 mL (210 mL), foil pouch 750 mg/5 mL (5, 10 mL).] ▶Fecal ♀C D? \$\$\$\$

IVERMECTIN (Stromectol) Single PO dose of 200 mcg/kg for strongyloidiasis, 200 mcg/kg for scabies (dose may need to be repeated in 10 to 14 days), 150 mcg/kg for onchocerciasis. (Not for children less than 15 kg.) Take on empty stomach with water. [Trade only: Tabs 3 mg.] ▶L ♀C D+ \$\$

MEBENDAZOLE (Vermox) Pinworm: 100 mg PO once; repeat in 2 weeks. Roundworm, whipworm, hookworm: 100 mg PO bid for 3 days. [Generic only: Chewable tabs 100 mg.] ▶L ♀C D? \$\$

NITAZOXANIDE (Alinia) Cryptosporidial or Giardial diarrhea: 100 mg bid for age 1 to 3 yo, 200 mg bid for 4 to 11 yo, 500 mg bid for adults and children 12 yo or older. Give PO with food for 3 days. Use susp if less than 12 yo. [Trade only: Oral susp 100 mg/5 mL 60 mL bottle, Tab 500 mg.] ▶L ♀B D? \$\$\$\$

PAROMOMYCIN 25 to 35 mg/kg/day PO divided tid with or after meals. [Generic only: Caps 250 mg.] ▶Not absorbed ♀C D- \$\$\$\$

PENTAMIDINE (Pentam, NebuPent) Pneumocystis treatment: 4 mg/kg IM/IV daily for 21 days. Pneumocystis prevention: 300 mg nebulized q 4 weeks. [Trade only: Aerosol 300 mg.] ▶K ♀C D- \$\$\$

PRAZIQUANTEL (Biltricide) Schistosomiasis: 20 mg/kg PO q 4 to 6 h for 3 doses. Neurocysticercosis: 50 mg/kg/day PO divided tid for 15 days (up to 100 mg/kg/day for peds). [Trade only: Tabs 600 mg.] ▶LK ♀B D- \$\$\$

PYRANTEL (Antiminth, Pin-X, Pinworm, Combantrin) Pinworm, roundworm: 11 mg/kg (up to 1 g) PO single dose. Repeat in 2 weeks for pinworm. [OTC Trade only (Pin-X): Susp 144 mg/mL (equivalent to 50 mg/mL of pyrantel base) 30, 60 mL. Tabs 720.5 mg (equivalent to 250 mg of pyrantel base). OTC Generic only: Caps 180 mg (equivalent to 62.5 mg of pyrantel base).] ▶Not absorbed ♀- D? \$

PYRIMETHAMINE (Daraprim) CNS toxoplasmosis in AIDS. Acute therapy: First dose 200 mg PO, then 50 mg PO daily for wt less than 60 kg, use 75 mg PO once daily for 60 kg or greater. Treat for at least 6 weeks with pyrimethamine +

(cont.)

sulfadiazine + leucovorin 10 to 25 mg PO once daily (can increase leucovorin to 50 mg/day or more). Secondary prevention: Pyrimethamine 25 to 50 mg PO once daily + sulfadiazine + leucovorin 10 to 25 mg PO once daily. [Trade only: Tabs 25 mg.] ▶L ♀C ▶+ \$\$

THIABENDAZOLE (Mintezol) Helminths: 22 mg/kg/dose (up to 1500 mg) PO bid after meals. Treat for 2 days for strongyloidiasis, cutaneous larva migrans. [Trade only: Chewable tabs 500 mg, Susp 500 mg/5 mL (120 mL).] ▶LK ♀C ▶? \$

TINIDAZOLE (Tindamax) Adults: 2 g PO daily for 1 day for trichomoniasis or giardiasis, for 3 days for amebiasis. Bacterial vaginosis: 2 g PO once daily for 2 days or 1 g PO once daily for 5 days. Peds, age older than 3 yo: 50 mg/kg (up to 2 g) PO daily for 1 day for giardiasis, for 3 days for amebiasis. Take with food. [Trade only: Tabs 250, 500 mg. Pharmacists can compound oral susp.] ▶KL ♀C ▶?-\$

Antiviral Agents—Anti-CMV

CIDOFOVIR (Vistide) CMV retinitis in AIDS: 5 mg/kg IV once a week for 2 weeks, then 5 mg/kg every 2 weeks. Severe nephrotoxicity. ▶K ♀C ▶- \$\$\$\$\$

FOSCARNET (Foscavir) CMV retinitis: 60 mg/kg IV (over 1 h) q 8 h or 90 mg/kg IV (over 1.5 to 2 h) q 12 h for 2 to 3 weeks, then 90 to 120 mg/kg/day IV over 2 h. HSV infection: 40 mg/kg (over 1 h) q 8 to 12 h. Nephrotoxicity, seizures. ▶K ♀C ▶? \$\$\$\$\$

GANCICLOVIR (Cytovene) CMV retinitis: Induction 5 mg/kg IV q 12 h for 14 to 21 days. Maintenance 6 mg/kg IV daily for 5 days per week. Myelosuppression. Potential carcinogen, teratogen. May impair fertility. [Generic only: Caps 250, 500 mg.] ▶K ♀C ▶- \$\$\$\$\$

VALGANCICLOVIR (Valcyte) CMV retinitis: 900 mg PO bid for 21 days, then 900 mg PO daily. Prevention of CMV disease in high-risk kidney, kidney-pancreas, heart transplant patients: 900 mg PO daily given within 10 days post-transplant until 100 days post-transplant. Greater bioavailability than oral ganciclovir. Give with food. Impaired fertility, myelosuppression, potential carcinogen & teratogen. [Trade only: Tabs 450 mg.] ▶K ♀C ▶- \$\$\$\$\$

Antiviral Agents—Anti-Herpetic

ACYCLOVIR (Zovirax) Genital herpes: 400 mg PO tid for 7 to 10 days for first episode, or for 5 days for recurrent episodes. Chronic suppression of genital herpes: 400 mg PO bid, in HIV infection use 400 to 800 mg PO bid to tid. Zoster: 800 mg PO 5 times a day for 7 to 10 days. Chickenpox: 20 mg/kg (up to 800 mg) PO qid for 5 days. Adult IV: 5 to 10 mg/kg IV q 8 h, each dose over 1 h. Herpes encephalitis: 20 mg/kg IV q 8 h for 10 days for age 3 mo to 12 yo, 10 mg/kg IV q 8 h for 10 days for age 12 yo or older. Neonatal herpes: 20 mg/kg IV q 8 h for 21 days for disseminated/CNS disease, for 14 days for skin/mucous membrane infections. [Generic/Trade: Caps 200 mg, Tabs 400, 800 mg. Susp 200 mg/5 mL.] ▶K ♀B ▶+ \$

FAMCICLOVIR (Famvir) First episode genital herpes: 250 mg PO tid for 7 to 10 days. Recurrent genital herpes: 1000 mg PO bid for 2 doses; give 500 mg

(cont.)

bid for 7 days if HIV infected. Chronic suppression of genital herpes: 250 mg PO bid; 500 mg PO bid if HIV-infected. Recurrent herpes labialis: 1500 mg PO single dose; 500 mg bid for 7 days if HIV-infected. Zoster: 500 mg PO tid for 7 days. [Generic/Trade: Tabs 125, 250, 500 mg.] ▶K ♀B ▶? \$\$\$

VALACYCLOVIR (Valtrex) First episode genital herpes: 1 g PO bid for 10 days. Recurrent genital herpes: 500 mg PO bid for 3 days; if HIV infected give 1 g PO bid for 5 to 10 days. Chronic suppression of genital herpes: 500 to 1000 mg PO daily; if HIV infected give 500 mg PO bid. Reduction of genital herpes transmission in immunocompetent patients with no more than 9 recurrences per year: 500 mg PO daily for source partner, in conjunction with safer sex practices. Herpes labialis, age 12 yo or older: 2 g PO q 12 h for 2 doses. Zoster: 1000 mg PO tid for 7 days. Chicken pox, age 2 to 18 yo: 20 mg/kg (max of 1 g) PO tid for 5 days. [Generic/Trade: Tabs 500, 1000 mg.] ▶K ♀B ▶+ \$\$\$\$

NOTE FOR ALL ANTI-HIV DRUGS *Many serious drug interactions; always check before prescribing. AIDS treatment guidelines available online at www.aidsinfo.nih.gov.*

Antiviral Agents—Anti-HIV—CCR5 Antagonists

MARAVIROC (Selzentry, MVC) 150 mg PO bid with strong CYP3A4 inhibitors (delavirdine, most protease inhibitors, ketoconazole, itraconazole, clarithromycin); 300 mg PO bid with drugs that are not strong CYP3A4 inducers/inhibitors (NRTIs, tipranavir-ritonavir, nevirapine, enfuvirtide); 600 mg PO bid with strong CYP3A4 inducers (efavirenz, rifampin, carbamazepine, phenobarbital, phenytoin). Tropism test before treatment; not for dual/mixed or CXCR4-tropic HIV infection. Hepatotoxicity with allergic features. [Trade only: Tabs 150, 300 mg.] ▶LK ♀B ▶- \$\$\$\$

Antiviral Agents—Anti-HIV—Combinations

ATRIPLA (efavirenz + emtricitabine + tenofovir) 1 tab PO once daily on empty stomach, preferably at bedtime. [Trade only: Tabs efavirenz 600 mg + emtricitabine 200 mg + tenofovir 300 mg.] ▶KL ♀D ▶- \$\$\$\$

COMBIVIR (lamivudine + zidovudine) Combination therapy of HIV, wt 30 kg or greater: 1 tab PO bid. [Trade only: Tabs lamivudine 150 mg + zidovudine 300 mg.] ▶LK ♀C ▶- \$\$\$\$

EPZICOM (abacavir + lamivudine) 1 tab PO daily. [Trade only: Tabs abacavir 600 mg + lamivudine 300 mg.] ▶LK ♀C ▶- \$\$\$\$

TRIZIVIR (abacavir + lamivudine + zidovudine) 1 tab PO bid. [Trade only: Tabs abacavir 300 mg + lamivudine 150 mg + zidovudine 300 mg.] ▶LK ♀C ▶- \$\$\$\$

TRUVADA (emtricitabine + tenofovir) 1 tab PO daily. [Trade only: Tabs emtricitabine 200 mg + tenofovir 300 mg.] ▶K ♀B ▶- \$\$\$\$

Antiviral Agents—Anti-HIV—Fusion Inhibitors

ENFUVRTIDE (Fuzeon, T-20) 90 mg SC bid. Peds, age 6 yo or older: 2 mg/kg (up to 90 mg) SC bid. [30 days kit with vials, diluent, syringes, alcohol wipes. Single-dose vials contain 108 mg to provide 90 mg enfuvirtide.] ▶Serum ♀B ▶- \$\$\$\$

Antiviral Agents—Anti-HIV—Integrase Strand Transfer Inhibitor

RALTEGRAVIR (*Isentress, RAL*) 400 mg PO bid. [Trade only: Tabs 400 mg.] ▶Glucuronidation ♀C ▶—\$\$\$\$\$

Antiviral Agents—Anti-HIV—Non-Nucleoside Reverse Transcriptase Inhibitors

EFAVIRENZ (*Sustiva, EFV*) Adults & children wt 40 kg or greater: 600 mg PO qhs. With voriconazole: Use voriconazole 400 mg PO bid & efavirenz 300 mg PO once daily. Peds, age 3 yo or older: Give PO qhs 200 mg for wt 10 kg to less than 15 kg; 250 mg for wt 15 kg to less than 20 kg; 300 mg for wt 20 kg to less than 25 kg; 350 mg for wt 25 kg to less than 32.5 kg; 400 mg for wt 32.5 kg to less than 40 kg. Do not give with high-fat meal. [Trade only: Caps 50, 100, 200 mg, Tabs 600 mg.] ▶L ♀D ▶—\$\$\$\$\$

ETRAVIRINE (*Intencele, ETR*) Combination therapy for treatment-resistant HIV infection: 200 mg PO bid after meals. [Trade only: Tabs 100 mg.] ▶L ♀B ▶—\$\$\$\$\$

NEVIRAPINE (*Viramune, NVP*) 200 mg PO daily for 14 days initially. If tolerated, increase to 200 mg PO bid. Peds, age 15 days or older: 150 mg/m² PO once daily for 14 days, then 150 mg/m² bid (max dose 200 mg bid). Severe skin reactions and hepatotoxicity. [Trade only: Tabs 200 mg, susp 50 mg/5 mL (240 mL).] ▶LK ♀C ▶—\$\$\$\$\$

Antiviral Agents—Anti-HIV—Nucleoside / Nucleotide Reverse Transcriptase Inhibitors

ABACAVIR (*Ziagen, ABC*) Adult: 300 mg PO bid or 600 mg PO daily. Peds. Oral soln, age 3 mo or older: 8 mg/kg PO bid (up to 300 mg) PO bid. Peds, tabs: 150 mg PO bid for wt 14 to 21 kg, 150 mg PO q am and 300 mg PO q pm for wt 22 to 29 kg, 300 mg PO bid for wt 30 kg or greater. Potentially fatal hypersensitivity. HLA-B*5701 predisposes to hypersensitivity; screen before starting and avoid if positive test. Never rechallenge with abacavir after suspected reaction. [Trade only: Tabs 300 mg (scored), oral soln 20 mg/mL (240 mL).] ▶L ♀C ▶—\$\$\$\$\$

DIDANOSINE (*Videx, Videx EC, ddI*) Videx EC. Give 200 mg PO once daily for wt 20 to 24 kg, 250 mg PO once daily for wt 25 to 59 kg, 400 mg PO once daily for wt 60 kg or greater. Dosage reduction of Videx EC with tenofovir in adults: 200 mg for wt less than 60 kg, 250 mg for wt 60 kg or greater. Dosage reduction unclear with tenofovir if CrCl <60 mL/min. Buffered powder, peds: 100 mg/m² PO bid for age 2 weeks to 8 mo. 120 mg/m² PO bid for age older than 8 mo. All formulations usually taken on empty stomach. [Generic/Trade: Pediatric powder for oral soln 10 mg/mL (buffered with antacid), delayed-release caps (Videx EC) 125, 200, 250, 400 mg.] ▶LK ♀B ▶—\$\$\$\$\$

EMTRICITABINE (*Emtriva, FTC*) 200 mg cap or 240 mg oral soln PO once daily. Peds, oral soln: 3 mg/kg PO once daily for age 3 mo or younger, 6 mg/kg PO once daily (up to 240 mg) for age older than 3 mo. Can give 200 mg cap PO once daily if wt greater than 33 kg. [Trade only: Caps 200 mg, oral soln 10 mg/mL (170 mL).] ▶K ♀B ▶—\$\$\$\$\$

- LAMIVUDINE** (*Epivir, Epivir-HBV, 3TC, Heptovir*) Epivir for HIV infection. Adults and greater than 16 yo: 150 mg PO bid or 300 mg PO daily. Peds: 4 mg/kg (up to 150 mg) PO bid. Can use tabs if wt 14 kg or greater. Epivir-HBV for hepatitis B: Adults: 100 mg PO daily. Peds: 3 mg/kg (up to 100 mg) PO daily. [Trade only: Epivir, 3TC: Tabs 150 (scored), 300 mg, oral soln 10 mg/mL. Epivir-HBV, Heptovir: Tabs 100 mg, oral soln 5 mg/mL.] ▶K ♀C ▶- \$\$\$\$\$
- STAVUDINE** (*Zerit, d4T*) Adults and peds, at least 30 kg: 40 mg PO q 12 h if at least 60 kg; 30 mg q 12 h if less than 60 kg. Peds, less than 30 kg: 1 mg/kg PO bid. [Generic/Trade: Caps 15, 20, 30, 40 mg, Oral soln 1 mg/mL (200 mL).] ▶K ♀C ▶- \$\$\$\$\$
- TENOFOVIR** (*Viread, TDF*) 300 mg PO daily. [Trade only: Tabs 300 mg.] ▶K ♀B ▶- \$\$\$\$\$
- ZIDOVUDINE** (*Retrovir, AZT, ZDV*) 600 mg per day divided bid or tid for wt 30 kg or greater. Dosing method using wt: give 24 mg/kg/day divided bid or tid for wt 4 to 8 kg, 18 mg/kg/day divided bid or tid for wt 9 to 29 kg. [Generic/Trade: Caps 100 mg, Tabs 300 mg, Syrup 50 mg/5 mL (240 mL).] ▶LK ♀C ▶- \$\$\$\$\$

Antiviral Agents—Anti-HIV—Protease Inhibitors

- ATAZANAVIR** (*Reyataz, ATV*) Adults, therapy-naive: 400 mg PO once daily (without ritonavir) OR 300 mg + ritonavir 100 mg PO both once daily. With tenofovir, therapy-naive: 300 mg + ritonavir 100 mg PO both once daily. With efavirenz, therapy-naive: 400 mg + ritonavir 100 mg PO both once daily. Therapy-experienced: 300 mg + ritonavir 100 mg PO both once daily. Peds, therapy-naive, age 6 yo or older: Give following dose PO once daily based on wt: atazanavir 8.5 mg/kg for wt 15 to 19 kg; 7 mg/kg (up to 300 mg) for wt 20 kg or greater. Give with ritonavir 4 mg/kg (up to 100 mg) PO once daily. Peds, therapy-experienced, age 6 yo or older and wt 25 kg or greater: atazanavir 7 mg/kg (up to 300 mg) with ritonavir 4 mg/kg (up to 100 mg) PO once daily. Therapy-naive, ritonavir-intolerant, age 13 yo or older and wt 39 kg or greater: 400 mg PO once daily. Give caps with food. Give atazanavir 2 h before or 1 h after buffered didanosine. [Trade only: Caps 100, 150, 200, 300 mg.] ▶L ♀B ▶- \$\$\$\$\$
- DARUNAVIR** (*Prezista, DRV*) Therapy-naive: 800 mg + ritonavir 100 mg PO once daily. Therapy-experienced: 600 mg + ritonavir 100 mg PO bid. Peds, age 6 yo or older: 375 mg + ritonavir 50 mg PO bid for wt 20 to 29 kg; 450 mg + ritonavir 60 mg PO bid for wt 30 kg to 39 kg; 600 mg + ritonavir 100 mg PO bid for wt 40 kg or greater. Take with food. Do not use without ritonavir. [Trade only: Tabs 75, 300, 400, 600 mg.] ▶L ♀B ▶- \$\$\$\$\$
- FOSAMPRENAVIR** (*Lexiva, FPV, Telzir*) Therapy-naive adults: 1400 mg PO bid (without ritonavir) OR 1400 mg + ritonavir 100/200 mg PO both once daily OR 700 mg + ritonavir 100 mg PO both bid. Protease inhibitor-experienced adults: 700 mg + ritonavir 100 mg PO both bid. Peds, therapy-naive, 2 to 5 yo: Susp 30 mg/kg PO bid. Therapy-naive, 6 yo or older: Susp 30 mg/kg PO bid OR susp 18 mg/kg + ritonavir 3 mg/kg PO both bid. Therapy-experienced, 6 yo or older: Susp 18 mg/kg + ritonavir 3 mg/kg PO both bid. Do not exceed adult dose in children. For unboosted fosamprenavir, can use tabs for peds patients with wt 47 kg or greater. For ritonavir-boosted fosamprenavir, can use tabs for peds patients wt 39 kg or greater. Take tabs without regard to meals. Adults should

take susp without food; children should take with food. [Trade only: Tabs 700 mg, susp 50 mg/mL.] ▶L ♀C ▶—\$\$\$\$\$

INDINAVIR (Crixivan, IDV) 800 mg PO q 8 h between meals with water (at least 48 ounces/day to prevent kidney stones). [Trade only: Caps 100, 200, 333, 400 mg.] ▶LK ♀C ▶—\$\$\$\$\$

LOPINAVIR-RITONAVIR (Kaletra, LPV/r) Adults: Therapy-naive: 400/100 mg PO bid or 800/200 mg PO once daily (tabs or oral soln). Therapy-experienced: 400/100 mg PO bid (tabs or oral soln). Coadministration of efavirenz, nevirapine, fosamprenavir, or nelfinavir: 500/125 mg tabs (two 200/50 mg + one 100/25 mg tab) or 533/133 mg oral soln (6.5 mL) PO bid. Infants: age 14 days to 6 mo: Lopinavir 16 mg/kg PO bid. Peds: age 6 mo to 12 yo: Lopinavir 12 mg/kg PO bid for wt less than 15 kg, use 10 mg/kg PO bid for wt 15 to 40 kg. Coadministration of efavirenz, nevirapine, fosamprenavir, or nelfinavir: Lopinavir 13 mg/kg PO bid for wt less than 15 kg, 11 mg/kg PO bid for wt 15 to 45 kg. Do not exceed adult dose in children. No once daily dosing for therapy-experienced, pediatric, or pregnant patients, or with efavirenz, nevirapine, fosamprenavir, or nelfinavir. Give tabs without regard to meals; give oral soln with food. [Trade only: Tabs 200/50 mg, 100/25 mg; oral soln 80/20 mg/mL (160 mL).] ▶L ♀C ▶—\$\$\$\$\$

NELFINAVIR (Viracept, NFV) 750 mg PO tid or 1250 mg PO bid. Peds: 45 to 55 mg/kg PO bid (up to 2500 mg/day). Take with meals. [Trade only: Tabs 250, 625 mg, oral powder 50 mg/g (114 g).] ▶L ♀B ▶—\$\$\$\$\$

RITONAVIR (Norvir, RTV) Adult doses of 100 mg PO daily to 400 mg PO bid used to boost levels of other protease inhibitors. Full-dose regimen (600 mg PO bid) poorly tolerated. Peds, full-dose regimen: Start with 250 mg/m² bid and increase q 2 to 3 days by 50 mg/m² bid to achieve usual dose of 350 to 400 mg/m² (up to 600 mg) PO bid for age older than 1 mo. If 400 mg/m² twice daily not tolerated, consider other alternatives. See specific protease inhibitor entries (atazanavir, darunavir, fosamprenavir, tipranavir) for pediatric boosting doses of ritonavir. [Trade only: Caps 100 mg, oral soln 80 mg/mL (240 mL).] ▶L ♀B ▶—\$\$\$\$\$

SAQUINAVIR (Invirase, SQV) Take with or after meals. Regimens must contain ritonavir. Saquinavir 1000 mg + ritonavir 100 mg both PO bid within 2 h after meals. Saquinavir 1000 mg PO + Kaletra 400/100 mg PO both bid. [Trade only: Invirase (hard gel) Caps 200 mg, Tabs 500 mg.] ▶L ♀B ▶?\$\$\$\$\$

TIPRANAVIR (Aptivus, TPV) 500 mg boosted by ritonavir 200 mg PO bid with food. Peds: 14 mg/kg with 6 mg/kg ritonavir PO bid; do not exceed adult dose. Hepatotoxicity. [Trade only: Caps 250 mg. Oral soln 100 mg/mL (95 mL in unit-of-use amber glass bottle).] ▶Feces ♀C ▶—\$\$\$\$\$

Antiviral Agents—Anti-Influenza

AMANTADINE (Symmetrel, ♦Endantadine) Parkinsonism: 100 mg PO bid. Max 300 to 400 mg/day divided tid to qid. Prevention/treatment of influenza A: give 5 mg/kg/day up to 150 mg/day PO divided bid for age 1 to 9 yo and any child wt less than 40 kg. Give 100 mg PO bid for adults and children age 10 yo or older; reduce to 100 mg PO daily if age 65 yo or older. The CDC generally recommends against amantadine/rimantadine for treatment/prevention of influenza A in the United States due to high levels of resistance. However, amantadine/rimantadine had a role in the management of oseltamivir-resistant H1N1

influenza in 2008–09 US season. [Generic only: Caps 100 mg. Generic/Trade: Tabs 100 mg, syrup 50 mg/5 mL (480 mL).] ▶K ♀C ▶? \$\$\$

OSETAMIVIR (Tamiflu) Influenza A/B and 2009 H1N1: For treatment, give each dose bid for 5 days starting within 2 days of symptom onset. For prevention, give each dose once daily for 10 days starting within 2 days of exposure. For adults each dose is 75 mg. For peds, age 1 yo or older, each dose is 30 mg for wt 15 kg or less; 45 mg for wt 16 to 23 kg; 60 mg for wt 24 to 40 kg; and 75 mg for wt 40 kg or greater or age 13 yo or older. 2009 H1N1 influenza treatment in infants younger than 1 yo: Treat for 5 days with 12 mg PO bid for age less than 3 mo; 20 mg PO bid for age 3 to 5 mo; 25 mg bid for age 6 to 11 mo. 2009 H1N1 influenza prophylaxis in infants younger than 1 yo: Treat for 10 days with 20 mg PO once daily for age 3 to 5 mo; 25 mg once daily for age 6 to 11 mo. Due to limited data, prophylaxis is not recommended for infants younger than 3 mo unless the situation is critical. Take with food to improve tolerability. See table in Appendix for prevention and treatment of 2009 H1N1. [Trade only: Caps 30, 45, 75 mg, Susp 12 mg/mL (25 mL). Pharmacist compounded susp is 15 mg/mL.] ▶LK ♀C ▶? \$\$\$

RIMANTADINE (Flumadine) Prophylaxis/treatment of influenza A: 100 mg PO bid for adults and peds age 10 yo or older, reduce dose to 100 mg PO once daily for age 65 yo or older. Peds influenza A prophylaxis: give 5 mg/kg/day (up to 150 mg/day) PO divided bid for age 1 to 9 yo or any child wt less than 40 kg. The CDC generally recommends against amantadine/rimantadine for treatment/prevention of influenza A in the United States due to high levels of resistance. However, amantadine/rimantadine had a role in the management of oseltamivir-resistant H1N1 influenza in 2008–09 US season. [Generic/Trade: Tabs 100 mg.] ▶LK ♀C ▶— \$\$\$

OVERVIEW OF BACTERIAL PATHOGENS (Selected)

GRAM Positive Aerobic Cocci: *Staph epidermidis* (coagulase negative), *Staph aureus* (coagulase positive), Streptococci: *S pneumoniae* (pneumococcus), *S pyogenes* (Group A), *S agalactiae* (Group B), enterococcus

GRAM Positive Aerobic / Facultatively Anaerobic Bacilli: *Bacillus*, *Corynebacterium diphtheriae*, *Erysipelothrix rhusiopathiae*, *Listeria monocytogenes*, *Nocardia*

GRAM Negative Aerobic Diplococci: *Moraxella catarrhalis*, *Neisseria gonorrhoeae*, *Neisseria meningitidis*

GRAM Negative Aerobic Coccobacilli: *Haemophilus ducreyi*, *Haemoph. Influenzae*

GRAM Negative Aerobic Bacilli: *Acinetobacter*, *Bartonella* species, *Bordetella pertussis*, *Brucella*, *Burkholderia cepacia*, *Campylobacter*, *Francisella tularensis*, *Helicobacter pylori*, *Legionella pneumophila*, *Pseudomonas aeruginosa*, *Stenotrophomonas maltophilia*, *Vibrio cholerae*, *Yersinia*

GRAM Neg Facultatively Anaerobic Bacilli: *Aeromonas hydrophila*, *Eikenella corrodens*, *Pasteurella multocida*, Enterobacteriaceae: *E coli*, *Citrobacter*, *Shigella*, *Salmonella*, *Klebsiella*, *Enterobacter*, *Hafnia*, *Serratia*, *Proteus*, *Providencia*

ANAEROBES: *Actinomyces*, *Bacteroides fragilis*, *Clostridium botulinum*, *Clostridium difficile*, *Clostridium perfringens*, *Clostridium tetani*, *Fusobacterium*, *Lactobacillus*, *Peptostreptococcus*

DEFECTIVE Cell Wall Bacteria: *Chlamydia pneumoniae*, *Chlamydia psittaci*, *Chlamydia trachomatis*, *Coxiella burnetii*, *Mycoplasma pneumoniae*, *Rickettsia prowazekii*, *Rickettsia rickettsii*, *Rickettsia typhi*, *Ureaplasma urealyticum*

SPIROCHETES: *Borrelia burgdorferi*, *Leptospira*, *Treponema pallidum*

MYCOBACTERIA: *M avium* complex, *M kansasii*, *M leprae*, *M TB*

ZANAMIVIR (Relenza) Influenza A/B and 2009 H1N1 influenza treatment: 2 puffs bid for 5 days for all ages 7 yo or older. Influenza A/B and 2009 H1N1 influenza prevention: 2 puffs once daily for 10 days for all ages 5 yo or older starting within 2 days of exposure. Do not use if chronic airways disease. See table for prevention and treatment of 2009 H1N1 in Appendix. Alternative for oseltamivir-resistant influenza A (H1N1). [Trade only: Rotadisk inhaler 5 mg/puff (20 puffs).] ▶K ♀C ▶? \$\$\$

Antiviral Agents—Other

ADEFOVIR (Hepsera) Chronic hepatitis B: 10 mg PO daily. Nephrotoxic; lactic acidosis and hepatic steatosis; discontinuation may exacerbate hepatitis B; may result in HIV resistance in untreated HIV infection. [Trade only: Tabs 10 mg.] ▶K ♀C ▶— \$\$\$\$\$

ENTECAVIR (Baraclude) Chronic hepatitis B: 0.5 mg PO once daily if treatment-naïve; give 1 mg if lamivudine-resistant, history of viremia despite lamivudine treatment, or HIV coinfecting. Give 2 h after last meal or 2 h before next meal. [Trade only: Tabs 0.5, 1 mg, Soln 0.05 mg/mL (210 mL).] ▶K ♀C ▶— \$\$\$\$\$

INTERFERON ALFA-2B (Intron A) Chronic hepatitis B: 5 million units/day or 10 million units 3 times per week SC/IM for 16 weeks if HBeAg+, for 48 weeks if HBeAg-. Chronic hepatitis C: 3 million units SC/IM 3 times per week for 4 months. Continue for 18 to 24 months if ALT normalized. [Trade only: Powder/soln for injection 10, 18, 50 million units/vial. Soln for injection 18, 25 million units/multidose vial. Multidose injection pens 3, 5, 10 million units/0.2 mL (1.5 mL), 6 doses/pen.] ▶K ♀C ▶?+ \$\$\$\$\$

INTERFERON ALFACON-1 (Infergen) Chronic hepatitis C: 9 mcg SC 3 times per week for 24 weeks. If relapse/no response, increase to 15 mcg SC 3 times per week. If intolerable adverse effects, reduce to 7.5 mcg SC 3 times per week. [Trade only: Vials injectable soln 30 mcg/mL (0.3 mL, 0.5 mL).] ▶Plasma ♀C ▶? \$\$\$\$\$

PALIVIZUMAB (Synagis) Prevention of respiratory syncytial virus pulmonary disease in high-risk children: 15 mg/kg IM once monthly during RSV season. ▶L ♀C ▶? \$\$\$\$\$

PEGINTERFERON ALFA-2A (Pegasys) Chronic hepatitis C: 180 mcg SC in abdomen or thigh once a week for 48 weeks with or without PO ribavirin. Hepatitis B: 180 mcg SC in abdomen or thigh once a week for 48 weeks. May cause or worsen severe autoimmune, neuropsychiatric, ischemic, and infectious diseases. Frequent clinical & lab monitoring. [Trade only: 180 mcg/1 mL soln in single-use vial, 180 mcg/0.5 mL prefilled syringe.] ▶LK ♀C ▶— \$\$\$\$\$

PEGINTERFERON ALFA-2B (PEG-Intron) Chronic hepatitis C: Give SC once a week on same day each week. Monotherapy 1 mcg/kg/week. In combo with oral ribavirin: 1.5 mcg/kg/week with ribavirin 800 to 1400 mg/day PO divided bid. Peds, age older than 3 yo: 60 mcg/m² SC once a week with ribavirin 15 mg/kg/day PO divided bid. May cause or worsen severe autoimmune, neuropsychiatric, ischemic, and infectious diseases. Frequent clinical & lab monitoring. [Trade only: 50, 80, 120, 150 mcg/0.5 mL single-use vials with diluent, 2 syringes, and alcohol swabs. Disposable single-dose Redipen 50, 80, 120, 150 mcg.] ▶K? ♀C ▶— \$\$\$\$\$

RIBAVIRIN—INHALED (*Virazole*) Severe respiratory syncytial virus infection in children: Aerosol 12 to 18 h/day for 3 to 7 days. Beware of sudden pulmonary deterioration; ventilator dysfunction due to drug precipitation. ▶Lung ♀X
 ▶— \$\$\$\$\$

RIBAVIRIN—ORAL (*Rebetol, Copegus, Ribasphere*) Hepatitis C. Rebetol in combo with interferon alfa 2b (Intron A): 400 mg q am and 600 q pm for wt 75 kg or less; 600 mg PO bid for wt greater than 75 kg. Rebetol in combo with peginterferon alfa 2b (PEG-Intron): give 400 mg PO bid for wt 65 kg or less, give 400 mg PO q am and 600 mg PO q pm for wt 66 to 85 kg; give 600 mg bid for wt 86 to 105 kg; give 600 mg PO q am and 800 mg PO q pm for wt greater than 105 kg. Peds: Rebetol in combo with peginterferon alfa 2b (PEG-Intron), age 3 yo and older: For wt less than 47 kg or patients who cannot swallow caps: 15 mg/kg/day of soln PO divided bid. Copegus in combo with peginterferon alfa 2a (Pegasys): For genotypes 1 and 4, give 500 mg PO bid for wt less than 75 kg; give 600 mg PO bid for wt 75 kg or greater. For genotypes 2 and 3, give 400 mg PO bid. Take copegus with food. Caps for peds: give 400 mg PO bid for wt 47 to 59 kg; give 400 mg PO q am and 600 mg q pm for 60 to 73 kg; give 600 mg PO bid for wt greater than 73 kg. Decrease ribavirin dose if Hb decreases. [Generic/Trade: Caps 200 mg, Tabs 200, 500 mg. Generic only: Tabs 400, 600 mg. Trade only (Rebetol): Oral soln 40 mg/mL (100 mL).] ▶Cellular, K ♀X ▶— \$\$\$\$\$

TELBIVUDINE (*Tyzeka*) Chronic hepatitis B: 600 mg PO once daily. [Trade only: Tabs 600 mg, oral soln 100 mg/5 mL (300 mL).] ▶K ♀B ▶— \$\$\$\$\$

Carbapenems

DORIPENEM (*Doribax*) 500 mg IV q 8 h. ▶K ♀B ▶? \$\$\$\$\$

ERTAPENEM (*Invanz*) 1 g IV/IM q 24 h. Prophylaxis, colorectal surgery: 1 g IV 1 h before incision. Peds, less than 13 yo: 15 mg/kg IV/IM q 12 h (up to 1 g/day). Infuse IV over 30 min. ▶K ♀B ▶? \$\$\$\$\$

IMIPENEM-CILASTATIN (*Primaxin*) 250 to 1000 mg IV q 6 to 8 h. Peds for age older than 3 mo: 15 to 25 mg/kg IV q 6 h. Seizures (especially if given with ganciclovir, elderly with renal dysfunction, or cerebrovascular or seizure disorder). ▶K ♀C ▶? \$\$\$\$\$

MEROPENEM (*Merrem IV*) Complicated skin infections: 10 mg/kg up to 500 mg IV q 8 h. Intra-abdominal infections: 20 mg/kg up to 1 g IV q 8 h. Peds meningitis: 40 mg/kg IV q 8 h for age 3 mo or older; 2 g IV q 8 h for wt greater than 50 kg. ▶K ♀B ▶? \$\$\$\$\$

Cephalosporins—1st Generation

CEFADROXIL (*Duricef*) 1 to 2 g/day PO once daily or divided bid. Peds: 30 mg/kg/day divided bid. [Generic/Trade: Tabs 1 g, Caps 500 mg, Susp 125, 250, 500 mg/5 mL.] ▶K ♀B ▶+ \$\$\$

CEFAZOLIN (*Ancef*) 0.5 to 1.5 g IM/IV q 6 to 8 h. Peds: 25 to 50 mg/kg/day divided q 6 to 8 h (use up to 100 mg/kg/day for severe infections). ▶K ♀B ▶+ \$\$

CEPHALEXIN (*Keflex, Panixine DisperDose*) 250 to 500 mg PO qid. Peds: 25 to 50 mg/kg/day. Not for otitis media, sinusitis. [Generic/Trade: Caps 250,

(cont.)

500 mg. Generic only: Tabs 250, 500 mg, susp 125, 250 mg/5 mL. Panixine DisperDose 125, 250 mg scored tabs for oral susp. Trade only: Caps 333, 750 mg.] ▶K ♀B ▶? \$\$\$

Cephalosporins—2nd Generation

CEFACTOR (Ceclor, Raniclor) 250 to 500 mg PO tid. Peds: 20 to 40 mg/kg/day PO divided tid. Otitis media: 40 mg/kg/day PO divided bid. Group A streptococcal pharyngitis: 20 mg/kg/day PO divided bid. Serum sickness-like reactions with repeated use. [Generic only: Caps 250, 500 mg, Susp, Chewable tabs 125, 187, 250, 375 mg per 5 mL or tab.] ▶K ♀B ▶? \$\$\$\$

CEFOXITIN (Mefoxin) 1 to 2 g IM/IV q 6 to 8 h. Peds: 80 to 160 mg/kg/day IV divided q 4 to 8 h. ▶K ♀B ▶+ \$\$\$\$

CEFPROZIL (Cefzil) 250 to 500 mg PO bid. Peds otitis media: 15 mg/kg/dose PO bid. Peds group A streptococcal pharyngitis (2nd line to penicillin): 7.5 mg/kg/dose PO bid for 10 days. [Generic/Trade: Tabs 250, 500 mg, Susp 125, 250 mg/5 mL.] ▶K ♀B ▶+ \$\$\$\$

CEFUROXIME (Zinacef, Cefitin) IV: 750 to 1500 mg IM/IV q 8 h. Oral: 250 to 500 mg PO bid. Peds: 50 to 100 mg/kg/day IV divided q 6 to 8 h, not for meningitis. Peds: 20 to 30 mg/kg/day susp PO divided bid. [Generic/Trade: Tabs 125, 250, 500 mg, Susp 125, 250 mg/5 mL.] ▶K ♀B ▶? \$\$\$

Cephalosporins—3rd Generation

CEFDINIR (Omnicef) 14 mg/kg/day up to 600 mg/day PO once daily or divided bid. [Generic/Trade: Caps 300 mg. Susp 125, 250 mg/5 mL.] ▶K ♀B ▶? \$\$\$\$

CEFDITOREN (Spectracef) 200 to 400 mg PO bid with food. [Trade only: Tabs 200, 400 mg.] ▶K ♀B ▶? \$\$\$\$

CEFIXIME (Suprax) 400 mg PO once daily. Gonorrhea: 400 mg PO single-dose. Peds: 8 mg/kg/day once daily or divided bid. [Trade only: Susp 100, 200 mg/5 mL, Tabs 400 mg.] ▶K/Bile ♀B ▶? \$\$

CEFOTAXIME (Claforan) Usual dose: 1 to 2 g IM/IV q 6 to 8 h. Peds: 50 to 180 mg/kg/day IM/IV divided q 4 to 6 h. AAP dose for pneumococcal meningitis: 225 to 300 mg/kg/day IV divided q 6 to 8 h. ▶KL ♀B ▶+ \$\$\$\$

CEPHALOSPORINS – GENERAL ANTIMICROBIAL SPECTRUM

1st generation: gram positive (including Staph aureus); basic gram neg. coverage

2nd generation: diminished Staph aureus, improved gram negative coverage compared to 1st generation; some with anaerobic coverage

3rd generation: further diminished Staph aureus, further improved gram negative coverage compared to 1st & 2nd generation; some with Pseudomonal coverage & diminished gram positive coverage

4th generation: same as 3rd generation plus coverage against Pseudomonas

CEFPODOXIME (Vantin) 100 to 400 mg PO bid. Peds: 10 mg/kg/day divided bid. [Generic/Trade: Tabs 100, 200 mg. Susp 50, 100 mg/5 mL.] ▶K ♀B ▶? \$\$\$\$

CEFTAZIDIME (Ceptaz, Fortaz, Tazicef) 1 g IM/IV or 2 g IV q 8 to 12 h. Peds: 30 to 50 mg/kg IV q 8 h. ▶K ♀B ▶+ \$\$\$\$\$

CEFTIBUTEN (Cedax) 400 mg PO once daily. Peds: 9 mg/kg (up to 400 mg) PO once daily. [Trade only: Caps 400 mg, susp 90 mg/5 mL.] ▶K ♀B ▶? \$\$\$\$\$

CEFTIZOXIME (Cefizox) 1 to 2 g IV q 8 to 12 h. Peds: 50 mg/kg/dose IV q 6 to 8 h. ▶K ♀B ▶? \$\$\$\$\$

CEFTRIAXONE (Rocephin) 1 to 2 g IM/IV q 24 h. Meningitis: 2 g IV q 12 h. Gonorrhea: Single dose 125 mg IM (250 mg if PID). Peds: 50 to 75 mg/kg/day (up to 2 g/day) divided q 12 to 24 h. Meningitis: 100 mg/kg/day (up to 4 g/day) IV divided q 12 to 24 h. Otitis media: 50 mg/kg up to 1 g IM single dose. May dilute in 1% lidocaine for IM. Contraindicated in neonates who require (or are expected to require) IV calcium (including calcium in TPN); fatal lung/kidney precipitation of calcium ceftriaxone has been reported in neonates. In other patients, do not give ceftriaxone and calcium-containing solns simultaneously, but sequential administration is acceptable if lines are flushed with a compatible fluid between infusions. ▶K/Bile ♀B ▶+ \$\$\$

Cephalosporins—4th Generation

CEFEPIME (Maxipime) 0.5 to 2 g IM/IV q 12 h. Peds: 50 mg/kg IV q 8 to 12 h. ▶K ♀B ▶? \$\$\$\$\$

Macrolides

AZITHROMYCIN (Zithromax, Zmax) 500 mg IV daily. 10 mg/kg (up to 500 mg) PO on day 1, then 5 mg/kg (up to 250 mg) daily for 4 days. Otitis media: 30 mg/kg PO single dose or 10 mg/kg PO daily for 3 days. Peds sinusitis: 10 mg/kg PO daily for 3 days. Group A streptococcal pharyngitis (second-line to penicillin): 12 mg/kg (up to 500 mg) PO daily for 5 days. Adult acute sinusitis or exacerbation of chronic bronchitis: 500 mg PO daily for 3 days. Zmax for community-acquired pneumonia, acute sinusitis: 60 mg/kg (up to 2 g) PO single dose on empty stomach; give adult dose of 2 g for wt 34 kg or greater. Chlamydia (including pregnancy), chancroid: 1 g PO single dose. Gonorrhea: 2 g PO single dose. Prevention of disseminated Mycobacterium avium complex disease: 1200 mg PO once a week. [Generic/Trade: Tabs 250, 500, 600 mg, Susp 100, 200/5 mL. Trade only: Packet 1000 mg. Z-Pak: #6, 250 mg tab. Tri-Pak: #3, 500 mg tab. Zmax extended-release oral susp: 2 g in 60 mL single-dose bottle.] ▶L ♀B ▶? \$\$

CLARITHROMYCIN (Biaxin, Biaxin XL) 250 to 500 mg PO bid. Peds: 7.5 mg/kg PO bid. H pylori: See table in GI section. See table for prophylaxis of bacterial endocarditis. Mycobacterium avium complex disease prevention: 7.5 mg/kg up to 500 mg PO bid. Biaxin XL: 1000 mg PO daily with food. [Generic/Trade: Tabs 250, 500 mg. Extended-release tab 500 mg. Susp 125, 250 mg/5 mL. Trade only: Biaxin XL-Pak: #14, 500 mg tabs. Generic only: Extended-release tabs 1000 mg.] ▶KL ♀C ▶? \$\$\$

SEXUALLY TRANSMITTED DISEASES & VAGINITIS*

Bacterial vaginosis: 1) metronidazole 5 g of 0.75% gel intravaginally daily for 5 days OR 500 mg PO bid for 7 days. 2) clindamycin 5 g of 2% cream intravaginally qhs for 7 days. In pregnancy: 1) metronidazole 500 mg PO bid for 7 days OR 250 mg PO tid for 7 days. 2) clindamycin 300 mg PO bid for 7 days.

Candidal vaginitis: 1) intravaginal clotrimazole, miconazole, terconazole, nystatin, tioconazole, or butoconazole. 2) fluconazole 150 mg PO single dose.

Chancroid: Single dose of: 1) azithromycin 1 g PO or 2) ceftriaxone 250 mg IM.

Chlamydia: First line either azithromycin 1 g PO single dose or doxycycline 100 mg PO bid for 7 days. Second line fluoroquinolones or erythromycin. In pregnancy: 1) azithromycin 1 g PO single dose. 2) amoxicillin 500 mg PO tid for 7 days. Repeat NAAT[†] 3 weeks after treatment.

Epididymitis: 1) ceftriaxone 250 mg IM single dose + doxycycline 100 mg PO bid for 10 days. 2) ofloxacin 300 mg PO bid or levofloxacin 500 mg PO daily for 10 days if enteric organisms suspected, or negative gonococcal culture or NAAT.[†]

Gonorrhea: Single dose of: 1) ceftriaxone 125 mg IM[‡] 2) cefixime 400 mg PO (not for pharynx).[†] Treat chlamydia empirically. Consider azithromycin 2 g PO single dose for uncomplicated gonorrhea, but no efficacy/safety data for this regimen in pregnant women.

Gonorrhea, disseminated: Initially treat with ceftriaxone 1 g IM/IV q 24 h until 24 to 48 h after improvement. Second-line alternatives: 1) cefotaxime 1 g IV q 8h.[‡] 2) ceftizoxime 1 g IV q 8 h. Complete 1 week of treatment with: 1) cefixime tabs 400 mg PO bid. 2) cefixime susp 500 mg PO bid. 3) cefpodoxime 400 mg PO bid.[†]

Gonorrhea, meningitis: ceftriaxone 1 to 2 g IV q 12 h for 10 to 14 days.[‡]

Gonorrhea, endocarditis: ceftriaxone 1 to 2 g IV q 12 h for at least 4 weeks.[‡]

Granuloma inguinale: doxycycline 100 mg PO bid for at least 3 weeks and until lesions completely healed. Alternative azithromycin 1 g PO once weekly for 3 weeks.

Herpes simplex (genital, first episode): 1) acyclovir 400 mg PO tid for 7 to 10 days. 2) famciclovir 250 mg PO tid for 7 to 10 days. 3) valacyclovir 1 g PO bid for 7 to 10 days.

Herpes simplex (genital, recurrent): 1) acyclovir 400 mg PO tid for 5 days. 2) acyclovir 800 mg PO tid for 2 days or bid for 5 days. 3) famciclovir 125 mg PO bid for 5 days. 4) famciclovir 1 g PO bid for 1 day. 5) valacyclovir 500 mg PO bid for 3 days. 6) valacyclovir 1 g PO daily for 5 days.

Herpes simplex (suppressive therapy): 1) acyclovir 400 mg PO bid. 2) famciclovir 250 mg PO bid. 3) valacyclovir 500 to 1000 mg PO daily.

Herpes simplex (genital, recurrent in HIV infection): 1) Acyclovir 400 mg PO tid for 5 to 10 days. 2) famciclovir 500 mg PO bid for 5 to 10 days. 3) Valacyclovir 1 g PO bid for 5 to 10 days.

Herpes simplex (suppressive therapy in HIV infection): 1) Acyclovir 400 to 800 mg PO bid to tid. 2) Famciclovir 500 mg PO bid. 3) Valacyclovir 500 mg PO bid.

Herpes simplex (prevention of transmission in immunocompetent patients with ≤9 recurrences/year): Valacyclovir 500 mg PO daily by source partner, in conjunction with safer sex practices.

Lymphogranuloma venereum: 1) doxycycline 100 mg PO bid for 21 days. Alternative: erythromycin base 500 mg PO qid for 21 days.

Pelvic inflammatory disease (PID), inpatient regimens: 1) cefoxitin 2 g IV q 6h + doxycycline 100 mg IV/PO q 12 h. 2) clindamycin 900 mg IV q 8 h + gentamicin 2 mg/kg IM/IV loading dose, then 1.5 mg/kg IM/IV q 8 h (See gentamicin entry for alternative daily dosing). Can switch to PO therapy within 24 h of improvement.

Pelvic inflammatory disease (PID), outpatient treatment: 1) ceftriaxone 250 mg IM single dose + doxycycline 100 mg PO bid +/- metronidazole 500 mg PO bid for 14 days.

(cont.)

SEXUALLY TRANSMITTED DISEASES & VAGINITIS* (continued)

Proctitis, proctocolitis, enteritis: ceftriaxone 125 mg IM single dose + doxycycline 100 mg PO bid for 7 days.

Sexual assault prophylaxis: ceftriaxone 125 mg IM single dose + metronidazole 2 g PO single dose + azithromycin 1 g PO single dose/doxycycline 100 mg PO bid for 7 days. Consider giving antiemetic.

Syphilis (primary and secondary): 1) benzathine penicillin 2.4 million units IM single dose. 2) doxycycline 100 mg PO bid for 2 weeks if penicillin allergic.

Syphilis (early latent, i.e. duration less than 1 year): 1) benzathine penicillin 2.4 million units IM single dose. 2) doxycycline 100 mg PO bid for 2 weeks if penicillin allergic.

Syphilis (late latent or unknown duration): 1) benzathine penicillin 2.4 million units IM q week for 3 doses. 2) doxycycline 100 mg PO bid for 4 weeks if penicillin allergic.

Syphilis (tertiary): 1) benzathine penicillin 2.4 million units IM q week for 3 doses. 2) doxycycline 100 mg PO bid for 4 weeks if penicillin allergic.

Syphilis (neuro): 1) penicillin G 18 to 24 million units/day continuous IV infusion or 3 to 4 million units IV q 4 h for 10 to 14 days. 2) procaine penicillin 2.4 million units IM daily + probenecid 500 mg PO qid, both for 10 to 14 days.

Syphilis in pregnancy: Treat only with penicillin regimen for stage of syphilis as noted above. Use penicillin desensitization protocol if penicillin-allergic.

Trichomoniasis: metronidazole (can use in pregnancy) or tinidazole, each 2 g PO single dose.

Urethritis, Cervicitis: Test for Chlamydia and gonorrhea with NAAT.[‡] Treat based on test results or treat presumptively if high-risk of infection (Chlamydia: age 25 yo or younger, new/ multiple sex partners, or unprotected sex; gonorrhea: population prevalence greater than 5%), esp. if NAAT[‡] unavailable or patient unlikely to return for follow-up.

Urethritis (persistent/recurrent): 1) metronidazole/tinidazole 2 g PO single dose + azithromycin 2 g PO single dose (if not used in first episode).

*MMWR 2006;55:RR-11 or <http://www.cdc.gov/STD/treatment/>. Treat sexual partners for all except herpes, candida, and bacterial vaginosis.

[†]As of April 2007, the CDC no longer recommends fluoroquinolones for gonorrhea because of high resistance rates. Do not consider fluoroquinolone unless antimicrobial susceptibility can be documented by culture. If parenteral cephalosporin not feasible for PID (and NAAT is negative or culture documents fluoroquinolone susceptibility), can consider levofloxacin 500 mg PO once daily or ofloxacin 400 mg PO bid +/- metronidazole 500 mg PO bid for 14 days.

[‡]NAAT = nucleic acid amplification test.

§Cephalosporin desensitization advised for cephalosporin-allergic patients (e.g. pregnant women).

ERYTHROMYCIN BASE (*Eryc*, *E-mycin*, *Ery-Tab*, **➤***Erybid*, *Erythromid*, *P.C.E.*) 250 to 500 mg PO qid, 333 mg PO tid, or 500 mg PO bid. [Generic/Trade: Tabs 250, 333, 500 mg, delayed-release cap 250.] ▶L ♀B ▶+ \$

ERYTHROMYCIN ETHYL SUCCINATE (*EES*, *Eryped*) 400 mg PO qid. Peds: 30 to 50 mg/kg/day PO divided qid. [Generic/Trade: Tabs 400 mg, Susp 200, 400 mg/5 mL. Trade only (*Eryped*): Susp 100 mg/2.5 mL (50 mL).] ▶L ♀B ▶+ \$

ERYTHROMYCIN LACTOBIONATE (**➤***Erythrocin IV*) 15 to 20 mg/kg/day (max 4 g) IV divided q 6 h. Peds: 15 to 50 mg/kg/day IV divided q 6 h. ▶L ♀B ▶+ \$\$\$\$\$

PEDIAZOLE (erythromycin ethyl succinate + sulfisoxazole) 50 mg/kg/day (based on EES dose) PO divided tid to qid. [Generic/Trade: Susp, erythromycin ethyl succinate 200 mg + sulfisoxazole 600 mg/5 mL.] ▶KL ♀C ▶- \$\$

Penicillins—1st generation—Natural

BENZATHINE PENICILLIN (*Bicillin L-A*, \blacktriangle *Megacillin*) Adults and peds wt greater than 27 kg: 1.2 million units IM. Peds wt 27 kg or less: 600,000 units IM. Doses last 2 to 4 weeks. Give IM q month for secondary prevention of rheumatic fever (q 3 weeks for high-risk patients). [Trade only: For IM use, 600,000 units/mL; 1, 2, 4 mL syringes.] \blacktriangleright K $\text{\textcircled{F}}$ B \blacktriangleright ? \$\$\$

BICILLIN C-R (procaine penicillin + benzathine penicillin) For IM use. Not for treatment of syphilis. [Trade only: For IM use 300/300 thousand units/mL procaine/benzathine penicillin; 1, 2, 4 mL syringes.] \blacktriangleright K $\text{\textcircled{F}}$ B \blacktriangleright ? \$\$\$

PENICILLIN G Pneumococcal pneumonia and severe infections: 250,000 to 400,000 units/kg/day (8 to 12 million units/day in adult) IV divided q 4 to 6 h. Pneumococcal meningitis: 250,000 to 400,000 units/kg/day (24 million units/day in adult) in 4 to 6 divided doses. \blacktriangleright K $\text{\textcircled{F}}$ B \blacktriangleright ? \$\$\$\$

PENICILLIN V (*Veetids*, \blacktriangle *PVF-K*, *Nadopen-V*) Adults: 250 to 500 mg PO qid. Peds: 25 to 50 mg/kg/day divided bid to qid. AHA doses for pharyngitis: 250 mg (peds 27 kg or less) or 500 mg (adults and peds greater than 27 kg) PO bid to tid for 10 days. [Generic/Trade: Tabs 250, 500 mg, oral soln 125, 250 mg/5 mL.] \blacktriangleright K $\text{\textcircled{F}}$ B \blacktriangleright ? \$

PROCAINE PENICILLIN (*Wycillin*) 0.6 to 1 million units IM daily (peak 4 h, lasts 24 h). \blacktriangleright K $\text{\textcircled{F}}$ B \blacktriangleright ? \$\$\$\$\$

Penicillins—2nd generation—Penicillinase-Resistant

DICLOXACILLIN (*Dynapen*) 250 to 500 mg PO qid. Peds: 12.5 to 25 mg/kg/day divided qid. [Generic only: Caps 250, 500 mg.] \blacktriangleright KL $\text{\textcircled{F}}$ B \blacktriangleright ? \$\$\$

NAFCILLIN 1 to 2 g IM/IV q 4 h. Peds: 50 to 200 mg/kg/day divided q 4 to 6 h. \blacktriangleright L $\text{\textcircled{F}}$ B \blacktriangleright ? \$\$\$\$\$

OXACILLIN (*Bactocill*) 1 to 2 g IM/IV q 4 to 6 h. Peds 150 to 200 mg/kg/day IM/IV divided q 4 to 6 h. \blacktriangleright KL $\text{\textcircled{F}}$ B \blacktriangleright ? \$\$\$\$\$

Penicillins—3rd generation—Aminopenicillins

AMOXICILLIN (*Amoxil*, *DisperMox*, *Moxatag*, *Trimox*, \blacktriangle *Novamoxin*) 250 to 500 mg PO tid, or 500 to 875 mg PO bid. High-dose for community-acquired pneumonia, acute sinusitis: 1 g PO tid. Lyme disease: 500 mg PO tid for 14 days for early disease, for 28 days for Lyme arthritis. Chlamydia in pregnancy: 500 mg PO tid for 7 days. AHA dosing for group A streptococcal pharyngitis: 50 mg/kg (max 1 g) PO once daily for 10 days. Group A streptococcal pharyngitis/tonsillitis: 775 mg ER tab (Moxatag) PO for 10 days for age 12 yo or older. Peds AAP otitis media: 90 mg/kg/day divided bid. AAP recommends 5 to 7 days of therapy for age 6 yo or older with non-severe otitis media, and 10 days for younger children and those with severe disease. Peds infections other than otitis media: 40 mg/kg/day PO divided tid or 45 mg/kg/day divided bid. [Generic/Trade: Caps 250, 500 mg, Tabs 500, 875 mg, chews 125, 200, 250, 400 mg, susp 125, 250 mg/5 mL, susp 200, 400 mg/5 mL. Trade only: Infant gttts 50 mg/mL (Amoxil). DisperMox 200, 400, 600 mg tabs for oral susp, Moxatag 775 mg extended-release tab.] \blacktriangleright K $\text{\textcircled{F}}$ B \blacktriangleright + \$

AMOXICILLIN-CLAVULANATE (*Augmentin, Augmentin ES-600, Augmentin XR, ♣Clavulin*) 500 to 875 mg PO bid or 250 to 500 mg tid. Augmentin XR: 2 tabs PO q 12 h with meals. Peds AAP otitis media: Augmentin ES 90 mg/kg/day divided bid. AAP recommends 5 to 7 days of therapy for age 6 yo or older non-severe otitis media, and 10 days for younger children and those with severe disease. Peds: 45 mg/kg/day PO divided bid or 40 mg/kg/day divided tid for sinusitis, pneumonia, otitis media; 25 mg/kg/day divided bid or 20 mg/kg/day divided tid for less severe infections. [Generic/Trade: (amoxicillin/clavulanate) Tabs 250/125, 500/125, 875/125 mg, Chewable tabs, Susp 200/28.5, 400/57 mg per tab or 5 mL, 250/62.5 mg per 5 mL, (ES) Susp 600/42.9 mg per 5 mL. Trade only: Chewable tabs, Susp 125/31.25 per tab or 5 mL, 250/62.5 mg per tab. Extended-release tabs (Augmentin XR) 1000/62.5 mg.] ▶K ♀B ▶? \$\$\$\$

AMPICILLIN (*Principen, ♣Penbritin*) Usual dose: 1 to 2 g IV q 4 to 6 h. Sepsis, meningitis: 150 to 200 mg/kg/day IV divided q 3 to 4 h. Peds: 50 to 400 mg/kg/day IM/IV divided q 4 to 6 h. [Generic/Trade: Caps 250, 500 mg, susp 125, 250 mg/5 mL.] ▶K ♀B ▶? \$ PO \$\$\$\$\$ IV

AMPICILLIN-SULBACTAM (*Unasyn*) 1.5 to 3 g IM/IV q 6 h. Peds: 100 to 400 mg/kg/day of ampicillin divided q 6 h. ▶K ♀B ▶? \$\$\$\$\$

Penicillins—4th generation—Extended Spectrum

PIPERACILLIN Usual dose: 3 to 4 g IM/IV q 4 to 6 h. ▶K/BILE ♀B ▶? \$\$\$\$\$

PIPERACILLIN-TAZOBACTAM (*Zosyn, ♣Tazocin*) 3.375 to 4.5 g IV q 6 h. Peds appendicitis/peritonitis: 80 mg/kg IV q 8 h for age 2 to 9 mo, 100 mg/kg (cont.)

SUBACUTE BACTERIAL ENDOCARDITIS PROPHYLAXIS

For dental, oral, respiratory tract, or esophageal procedures	
Standard regimen	amoxicillin 2 g PO 1 h before procedure
Unable to take oral meds	ampicillin 2 g IM/IV within 30 min before procedure
Allergic to penicillin	clindamycin 600 mg PO; or cephalexin or cefadroxil 2 g PO; or azithromycin or clarithromycin 500 mg PO 1 h before procedure
Allergic to penicillin and unable to take oral meds	clindamycin 600 mg IV; or cefazolin 1 g IM/IV within 30 min before procedure
Pediatric drug doses	Total pediatric dose should not exceed adult dose. Amoxicillin 50 mg/kg, ampicillin 50 mg/kg, azithromycin 15 mg/kg, cephalexin 50 mg/kg, cefadroxil 50 mg/kg, cefazolin 25 mg/kg, clarithromycin 15 mg/kg, clindamycin 20 mg/kg.

PENICILLINS — GENERAL ANTIMICROBIAL SPECTRUM

1st generation: Most streptococci; oral anaerobic coverage
2nd generation: Most streptococci; *Staph aureus* (but not MRSA)
3rd generation: Most streptococci; basic gram negative coverage
4th generation: *Pseudomonas*

piperacillin IV q 8 h for age older than 9 mo, use adult dose for wt greater than 40 kg. ▶K ♀B ▶? \$\$\$\$\$

TICARCILLIN-CLAVULANATE (Timentin) 3.1 g IV q 4 to 6 h. Peds: 50 mg/kg up to 3.1 g IV q 4 to 6 h. ▶K ♀B ▶? \$\$\$\$\$

Quinolones—2nd Generation

CIPROFLOXACIN (Cipro, Cipro XR, ProQuin XR) 200 to 400 mg IV q 8 to 12 h. 250 to 750 mg PO bid. Simple UTI: 250 mg bid for 3 days or Cipro XR/Proquin XR 500 mg PO daily for 3 days. Give Proquin XR with main meal of day. Cipro XR for pyelonephritis or complicated UTI: 1000 mg PO daily for 7 to 14 days. [Generic/Trade: Tabs 100, 250, 500, 750 mg. Extended-release tabs 500, 1000 mg. Trade only (ProQuin XR): Extended-release tabs 500 mg, blister pack 500 mg (#3 tabs).] ▶LK ♀C but teratogenicity unlikely ▶?+ \$

NORFLOXACIN (Noroxin) Simple UTI: 400 mg PO bid for 3 days. [Trade only: Tabs 400 mg.] ▶LK ♀C ▶? \$

OFLOXACIN (Floxin) 200 to 400 mg PO bid. [Generic/Trade: Tabs 200, 300, 400 mg.] ▶LK ♀C ▶?+ \$\$\$

Quinolones—3rd Generation

LEVOFLOXACIN (Levaquin) 250 to 750 mg PO/IV daily. [Trade only: Tabs 250, 500, 750 mg, Oral soln 25 mg/mL. Leva-Pak: #5, 750 mg tabs.] ▶KL ♀C ▶? \$\$\$\$

Quinolones—4th Generation

GEMIFLOXACIN (Factive) 320 mg PO daily for 5 to 7 days. [Trade only: Tabs 320 mg.] ▶Feces, K ♀C ▶— \$\$\$\$

MOXIFLOXACIN (Avelox) 400 mg PO/IV daily for 5 days (chronic bronchitis exacerbation), 5 to 14 days (complicated intra-abdominal infection), 7 days (uncomplicated skin infections), 10 days (acute sinusitis), 7 to 14 days (community-acquired pneumonia), 7 to 21 days (complicated skin infections). [Trade only: Tabs 400 mg.] ▶LK ♀C ▶— \$\$\$

Sulfonamides

SULFADIAZINE CNS toxoplasmosis in AIDS. Acute treatment: 1000 mg PO qid for wt less than 60 kg to 1500 mg PO qid for wt 60 kg or greater. Secondary

(cont.)

QUINOLONES—GENERAL ANTIMICROBIAL SPECTRUM

1st generation: gram negative (excluding *Pseudomonas*), urinary tract only, no atypicals

2nd generation: gram negative (including *Pseudomonas*); *Staph aureus* (but not MRSA or *pneumococcus*); some atypicals

3rd generation: gram negative (including *Pseudomonas*); gram positive, including *pneumococcus* and *Staph aureus* (but not MRSA); expanded atypical coverage

4th generation: same as 3rd generation plus enhanced coverage of *pneumococcus*, decreased activity vs. *Pseudomonas*

prevention: 2000 to 4000 mg/day PO divided bid to qid. Give with pyrimethamine + leucovorin. [Generic only: Tabs 500 mg.] ▶K ♀C D+ \$\$\$\$

TRIMETHOPRIM-SULFAMETHOXAZOLE (*Bactrim*, *Septra*, *Sulfatrim*, *cotrimoxazole*) 1 tab PO bid, double-strength (DS, 160 mg/800 mg) or single-strength (SS, 80 mg/400 mg). Pneumocystis treatment: 15 to 20 mg/kg/day (based on TMP) IV divided q 6 to 8 h or PO divided tid for 21 days total. Pneumocystis prophylaxis: 1 DS tab PO daily. Peds usual dose: 5 mL susp/10 kg (up to 20 mL)/dose PO bid. Community-acquired MRSA skin infections: Adults: 1 to 2 DS tabs PO bid for 7 to 10 days. Peds: 8 to 12 mg/kg/day (based on TMP) PO divided bid. [Generic/Trade: Tabs 80 mg TMP/400 mg SMX (single strength), 160 mg TMP/800 mg SMX (double strength; DS), susp 40 mg TMP/200 mg SMX per 5 mL. 20 mL susp = 2 SS tabs = 1 DS tab.] ▶K ♀C D+ \$

Tetracyclines

DEMECLOCYCLINE (*Declomycin*) Usual dose: 150 mg PO qid or 300 mg PO bid on empty stomach. SIADH: 600 to 1200 mg/day PO given in 3 to 4 divided doses. [Generic/Trade: Tabs 150, 300 mg.] ▶K, feces ♀D D?+ \$\$\$\$

DOXYCYCLINE (*Adoxa*, *Doryx*, *Monodox*, *Oracea*, *Periostat*, *Vibramycin*, *Vibra-Tabs*, ♦*Doxycin*) 100 mg PO bid on first day, then 50 mg bid or 100 mg daily. Severe infections: 100 mg PO/IV bid. Community-acquired MRSA skin infections: 100 mg PO bid. Lyme disease: 100 mg PO bid for 14 days for early disease, for 28 days for Lyme arthritis. Acne: Up to 100 mg PO bid. Periostat (\$\$\$\$\$) for periodontitis: 20 mg PO bid. Oracea (\$\$\$\$\$) for inflammatory rosacea: 40 mg PO once every morning on empty stomach. Malaria prophylaxis: 2 mg/kg/day up to 100 mg PO daily starting 1 to 2 days before exposure until 4 weeks after. Avoid in children age younger than 8 yo due to teeth staining. [Generic/Trade: Tabs 75, 100 mg, Caps 20, 50, 100 mg, Susp 25 mg/5 mL (60 mL). Trade only: (Vibramycin) Syrup 50 mg/5 mL (480 mL). Delayed-release (Doryx): Tabs 75, 100 mg, Caps 40 mg (Oracea). Generic only: Caps 75, 150 mg tabs 50, 150 mg.] ▶LK ♀D D?+ \$

MINOCYCLINE (*Minocin*, *Dynacin*, *Solodyn*, ♦*Enca*) 200 mg IV/PO initially, then 100 mg q 12 h. Community-acquired MRSA skin infections: 100 mg PO bid. Acne (traditional dosing, not Solodyn): 50 mg PO bid. Solodyn (\$\$\$\$\$) for inflammatory acne: Give 45 mg PO once daily to age 12 yo or older for wt 45 to 59 kg, give 90 mg for wt 60 to 90 kg, give 135 mg for wt 91 to 136 kg. [Generic/Trade: Caps, Tabs 50, 75, 100 mg. Tabs, Extended-release 45, 90, 135 mg (Solodyn).] ▶LK ♀D D?+ \$\$\$

TETRACYCLINE (*Sumycin*) 250 to 500 mg PO qid. [Generic only; Caps 250, 500 mg.] ▶LK ♀D D?+ \$

Other Antimicrobials

AZTREONAM (*Azactam*) 0.5 to 2 g IM/IV q 6 to 12 h. Peds: 30 mg/kg IV q 6 to 8 h. ▶K ♀B D+ \$\$\$\$\$

CHLORAMPHENICOL (*Chloromycetin*) 50 to 100 mg/kg/day IV divided q 6 h. Aplastic anemia. ▶LK ♀C D- \$\$\$\$\$

CLINDAMYCIN (*Cleocin*, *Dalacin C*) 150 to 450 mg PO qid. 600 to 900 mg IV q 8 h. Community-acquired MRSA skin infections: 30 mg/kg/day (up to 300 mg) PO tid. Peds: 20 to 40 mg/kg/day IV divided q 6 to 8 h or give 8 to 25 mg/kg/day susp PO divided q 6 to 8 h. [Generic/Trade: Caps 75, 150, 300 mg. Trade only: Oral soln 75 mg/5 mL (100 mL.)] ▶L ♀B D? + \$\$\$

DAPTOMYCIN (*Cubicin*, *Cidecin*) Complicated skin infections (including MRSA): 4 mg/kg IV daily for 7 to 14 days. S. aureus bacteremia (including MRSA): 6 mg/kg IV daily for at least 2 to 6 weeks. Infuse over 30 min. Not for pneumonia (inactivated by surfactant). ▶K ♀B D? \$\$\$\$

DROTRECOGIN (*Xigris*) To reduce mortality in sepsis: 24 mcg/kg/h IV for 96 h. ▶Plasma ♀C D? \$\$\$\$

FOSFOMYCIN (*Monurol*) Simple UTI: One 3 g packet PO single-dose. [Trade only: 3 g packet of granules.] ▶K ♀B D? \$\$

LINEZOLID (*Zyvox*, *Zyvoxam*) Pneumonia, complicated skin infections (including MRSA), vancomycin-resistant E faecium infections: 10 mg/kg (up to 600 mg) IV/PO q 8 h for age younger than 12 yo, 600 mg IV/PO q 12 h for adults and age 12 yo or older. Myelosuppression, drug interactions due to MAO inhibition. Limit tyramine foods to <100 mg/meal. [Trade only: Tabs 600 mg, Susp 100 mg/5 mL.] ▶Oxidation/K ♀C D? \$\$\$\$

METRONIDAZOLE (*Flagyl*, *Flagyl ER*, *Florazole ER*, *Trikacide*, *Nidazol*) Bacterial vaginosis: 500 mg PO bid or Flagyl ER 750 mg PO daily for 7 days. H pylori: See table in GI section. Anaerobic bacterial infections: Load 1 g or 15 mg/kg IV, then 500 mg or 7.5 mg/kg (up to 4 g/day) IV/PO q 6 to 8 h, each IV dose over 1 h. Peds: 7.5 mg/kg IV q 6 h. C. difficile associated diarrhea: 500 mg PO tid for 10 to 14 days. Peds: 30 mg/kg/day PO divided qid for 10 to 14 days. Trichomoniasis: 2 g PO single dose for patient & sex partners (may be used in pregnancy per CDC). Giardia: 250 mg (5 mg/kg/dose for peds) PO tid for 5 to 7 days. [Generic/Trade: Tabs 250, 500 mg, Caps 375 mg. Trade only: Tabs, extended-release 750 mg.] ▶KL ♀B D?-\$

NITROFURANTOIN (*Furadantin*, *Macrodantin*, *Macrobid*) 50 to 100 mg PO qid. Peds: 5 to 7 mg/kg/day divided qid. Macrobid: 100 mg PO bid. [Generic/Trade (Macrobid): Caps 25, 50, 100 mg, (Macrobid): Caps 100 mg. Trade only (Furadantin): Susp 25 mg/5 mL.] ▶KL ♀B D? +? \$

RIFAXIMIN (*Xifaxan*) Travelers diarrhea: 200 mg PO tid for 3 days. [Trade only: Tabs 200 mg.] ▶Feces, no GI absorption ♀C D? \$\$

SYNERCID (quinupristin + dalfopristin) 7.5 mg/kg IV q 8 to 12 h, each dose over 1 h. Not active against E faecalis. ▶Bile ♀B D? \$\$\$\$

TELITHROMYCIN (*Ketek*) 800 mg PO daily for 7 to 10 days for community-acquired pneumonia. No longer indicated for acute sinusitis or acute exacerbation of chronic bronchitis (risks exceed potential benefit). Contraindicated in myasthenia gravis. [Trade only: Tabs 300, 400 mg. Ketek Pak: #10, 400 mg tabs.] ▶LK ♀C D? \$\$\$

TIGECYCLINE (*Tyggacil*) Complicated skin infections, complicated intra-abdominal infections, community-acquired pneumonia: 100 mg IV first dose, then 50 mg IV q 12 h. Infuse over 30 to 60 min. ▶Bile, K ♀D D? + \$\$\$\$

TRIMETHOPRIM (*Primsol*, *Proloprim*) 100 mg PO bid or 200 mg PO daily. [Generic only: Tabs 100, 200 mg. Trade only: (Primsol): Oral soln 50 mg/5 mL.] ▶K ♀C D-\$

VANCOMYCIN (Vancocin) Usual dose: 15 to 20 mg/kg IV q 8 to 12 h; consider loading dose of 25 to 30 mg/kg for severe infection. Infuse over 1 h; infuse over 1.5 to 2 h if dose greater than 1 g. Peds: 10 to 15 mg/kg IV q 6 h. C difficile diarrhea: 40 to 50 mg/kg/day PO up to 500 mg/day divided qid for 10 to 14 days. IV administration ineffective for this indication. [Trade only: Caps 125, 250 mg.] ▶K ♀C ▶? \$\$\$\$\$

CARDIOVASCULAR

ACE Inhibitors

NOTE See also antihypertensive combinations. Hyperkalemia possible, especially if used concomitantly with other drugs that increase K⁺ (including K⁺ containing salt substitutes) and in patients with heart failure, diabetes mellitus, or renal impairment. Monitor closely for hypoglycemia, especially during first month of treatment when combined with insulin or oral antidiabetic agents. ACE inhibitors are contraindicated during pregnancy. Contraindicated with a history of angioedema. Renoprotection and decreased cardiovascular morbidity/mortality seen with some ACE inhibitors are most likely a class effect.

BENAZEPRIL (Lotensin) HTN: Start 10 mg PO daily, usual maintenance dose 20 to 40 mg PO daily or divided bid, max 80 mg/day. [Generic/Trade: Tabs, unscored 5, 10, 20, 40 mg.] ▶LK ♀- ▶? \$\$

CAPTOPRIL (Capoten) HTN: Start 25 mg PO bid to tid, usual maintenance dose 25 to 150 mg bid to tid, max 450 mg/day. Heart failure: Start 6.25 to 12.5 mg PO (cont.)

ACE INHIBITOR DOSING	HTN		Heart Failure	
	Initial	Max/day	Initial	Max
benazepril (Lotensin)	10 mg daily*	80 mg	-	-
captopril (Capoten)	25 mg bid/tid	450 mg	6.25 mg tid	50 mg tid
enalapril (Vasotec)	5 mg daily*	40 mg	2.5 mg bid	10–20 mg bid
fosinopril (Monopril)	10 mg daily*	80 mg	5–10 mg daily	40 mg daily
lisinopril (Zestril/ Prinivil)	10 mg daily	80 mg	2.5–5 mg daily	20–40 mg daily
moexipril (Univasc)	7.5 mg daily*	30 mg	-	-
perindopril (Aceon)	4 mg daily*	16 mg	2 mg daily	8–16 mg daily
quinapril (Accupril)	10–20 mg daily*	80 mg	5 mg bid	20 mg bid
ramipril (Altace)	2.5 mg daily*	20 mg	1.25–2.5 mg bid	10 mg daily
trandolapril (Mavik)	1–2 mg daily*	8 mg	1 mg daily	4 mg daily

Data taken from prescribing information and *Circulation* 2009;119:e391–e479.

*May require bid dosing for 24-h BP control.

- tid, usual dose 50 to 100 mg PO tid, max 450 mg/day. Diabetic nephropathy: 25 mg PO tid. [Generic/Trade: Tabs, scored 12.5, 25, 50, 100 mg.] ▶LK ♀- ▶+ \$
- CILAZAPRIL** (◆*Inhibace*) Canada only. HTN: 1.25 to 10 mg PO daily. [Generic/Trade: Tabs, scored 1, 2.5, 5 mg.] ▶LK ♀- ▶? \$
- ENALAPRIL** (*enalaprilat, Vasotec*) HTN: Start 5 mg PO daily, usual maintenance dose 10 to 40 mg PO daily or divided bid, max 40 mg/day. If oral therapy not possible, can use enalaprilat 1.25 mg IV q 6 h over 5 min, and increase up to 5 mg IV q 6 h if needed. Renal impairment or concomitant diuretic therapy: Start 2.5 mg PO daily. Heart failure: Start 2.5 mg PO bid, usual 10 to 20 mg PO bid, max 40 mg/day. [Generic/Trade: Tabs, scored 2.5, 5 mg, unscored 10, 20 mg.] ▶LK ♀- ▶+ \$\$
- FOSINOPRIL** (*Monopril*) HTN: Start 10 mg PO daily, usual maintenance dose 20 to 40 mg PO daily or divided bid, max 80 mg/day. Heart failure: Start 10 mg PO daily, usual dose 20 to 40 mg PO daily, max 40 mg/day. [Generic/Trade: Tabs, scored 10, unscored 20, 40 mg.] ▶LK ♀- ▶? \$
- LISINAPRIL** (*Prinivil, Zestril*) HTN: Start 10 mg PO daily, usual maintenance dose 20 to 40 mg PO daily, max 80 mg/day. Heart failure, acute MI: Start 2.5 to 5 mg PO daily, usual dose 5 to 20 mg PO daily, max dose 40 mg. [Generic/Trade: Tabs, unscored (Zestril) 2.5, 5, 10, 20, 30, 40 mg. Tabs, scored (Prinivil) 10, 20, 40 mg.] ▶K ♀- ▶? \$
- MOEXIPRIL** (*Univasc*) HTN: Start 7.5 mg PO daily, usual maintenance dose 7.5 to 30 mg PO daily or divided bid, max 30 mg/day. [Generic/Trade: Tabs, scored 7.5, 15 mg.] ▶LK ♀- ▶? \$\$
- PERINDOPRIL** (*Aceon, ◆Coversyl*) HTN: Start 4 mg PO daily, usual maintenance dose 4 to 8 mg PO daily or divided bid, max 16 mg/day. Reduction of cardiovascular events in stable CAD: Start 4 mg PO daily for 2 weeks, max 8 mg/day. Elderly (age older than 70 yo): 2 mg PO daily for 1 week, 4 mg PO daily for 1 week, max 8 mg/day. [Trade only: Tabs, scored 2, 4, 8 mg.] ▶K ♀- ▶? \$\$\$
- QUINAPRIL** (*Accupril*) HTN: Start 10 to 20 mg PO daily (start 10 mg/day if elderly), usual maintenance dose 20 to 80 mg PO daily or divided bid, max 80 mg/day. Heart failure: Start 5 mg PO bid, usual maintenance dose 10 to 20 mg bid. [Generic/Trade: Tabs, scored 5, unscored 10, 20, 40 mg.] ▶LK ♀- ▶? \$\$\$
- RAMIPRIL** (*Altace*) HTN: 2.5 mg PO daily, usual maintenance dose 2.5 to 20 mg PO daily or divided bid, max 20 mg/day. Heart failure post MI: Start 2.5 mg PO bid, usual maintenance dose 5 mg PO bid. Reduce risk of MI, CVA, death from cardiovascular causes: 2.5 mg PO daily for 1 week, then 5 mg daily for 3 weeks, increase as tolerated to max 10 mg/day. [Generic/Trade: Caps 1.25, 2.5, 5, 10 mg. Trade only: Tabs 1.25, 2.5, 5, 10 mg.] ▶LK ♀- ▶? \$\$\$
- TRANDOLAPRIL** (*Mavik*) HTN: Start 1 mg PO daily, usual maintenance dose 2 to 4 mg PO daily or divided bid, max 8 mg/day. Heart failure/post MI: Start 0.5 to 1 mg PO daily, usual maintenance dose 4 mg PO daily. [Generic/Trade: Tabs, 1, 2, 4 mg.] ▶LK ♀- ▶? \$\$

Aldosterone Antagonists

- EPLERENONE** (*Inspra*) HTN: Start 50 mg PO daily; max 50 mg bid. Improve survival of stable patients with LV systolic dysfunction (LVEF 40% or less) and

(cont.)

heart failure post MI: Start 25 mg PO daily; titrate to target dose 50 mg daily within 4 weeks, if tolerated. [Generic/Trade: Tabs unscored 25, 50 mg.] ▶L ♀B ▶? \$\$\$\$

SPIRONOLACTONE (Aldactone) HTN: 50 to 100 mg PO daily or divided bid. Edema: 25 to 200 mg/day. Hypokalemia: 50 to 100 mg PO daily. Primary hyperaldosteronism, maintenance: 100 to 400 mg/day PO. Cirrhotic ascites: Start 100 mg once daily or in divided doses. Maintenance 25 to 200 mg/day. [Generic/Trade: Tabs, unscored 25 mg scored 50, 100 mg.] ▶LK ♀D ▶+ \$

Angiotensin Receptor Blockers (ARBs)

NOTE See also antihypertensive combinations.

CANDESARTAN (Atacand) HTN: Start 16 mg PO daily, maximum 32 mg/day. Reduce cardiovascular death and hospitalizations from heart failure (NYHA II–IV and LVEF 40% or less): Start 4 mg PO daily, maximum 32 mg/day; has added effect when used with ACE inhibitor. [Trade only: Tabs, unscored 4, 8, 16, 32 mg.] ▶K ♀– ▶? \$\$\$\$

EPROSARTAN (Teveten) HTN: Start 600 mg PO daily, maximum 800 mg/day given daily or divided bid. [Trade only: Tabs unscored 400, 600 mg.] ▶Fecal excretion ♀– ▶? \$\$\$\$

HTN THERAPY¹

Area of Concern	BP Target	Preferred Therapy ²	Comments
General coronary artery disease prevention	<140/90 mm Hg	ACEI, ARB, CCB, thiazide, or combination	Start 2 drugs if systolic BP ≥160 or diastolic BP ≥100
High coronary artery disease risk ³	<130/80 mm Hg		
Stable angina, unstable angina, MI	<130/80 mm Hg	Beta-blocker ⁴ + (ACEI or ARB) ⁵	May add dihydropyridine CCB or thiazide
Left heart failure ^{6,7}	<120/80 mm Hg	Beta-blocker + (ACEI or ARB) + diuretic ⁸ + aldosterone antagonist ⁹	

1. ACEI = angiotensin converting enzyme inhibitor; ARB = angiotensin-receptor blocker; CCB = calcium-channel blocker; MI = myocardial infarction. Adapted from *Circulation* 2007;115:2761–2788. 2. All patients should attempt lifestyle modifications: optimize wt, healthy diet, sodium restriction, exercise, smoking cessation, alcohol moderation. 3. Diabetes mellitus, chronic kidney disease, known CAD or risk equivalent (eg, peripheral artery disease, abdominal aortic aneurysm, carotid artery disease and prior ischemic CVA/TIA), 10-year Framingham risk score ≥10%. 4. Use only if hemodynamically stable. If beta-blocker contraindications or intolerable side effects (and no bradycardia or heart failure), may substitute verapamil or diltiazem. 5. Preferred if anterior wall MI, persistent HTN, heart failure, or diabetes mellitus. 6. Avoid verapamil, diltiazem, clonidine, beta-blockers. 7. For patients of African descent with NYHA class III or IV HF, consider adding hydralazine/isosorbide dinitrate. 8. Loop or thiazide. 9. Use if NYHA class III or IV, or if clinical heart failure + LVEF < 40%.

- IRBESARTAN (Avapro)** HTN: Start 150 mg PO daily, maximum 300 mg/day. Type 2 diabetic nephropathy: Start 150 mg PO daily, target dose 300 mg daily. [Trade only: Tabs, unscored 75, 150, 300 mg.] ▶L ♀-D? \$\$\$
- LOSARTAN (Cozaar)** HTN: Start 50 mg PO daily, max 100 mg/day given daily or divided bid. Volume-depleted patients or history of hepatic impairment: Start 25 mg PO daily. CVA risk reduction in patients with HTN & LV hypertrophy: (may not be effective in patients of African descent): Start 50 mg PO daily. If need more BP reduction add HCTZ 12.5 mg PO daily; then increase losartan to 100 mg/day, then increase HCTZ to 25 mg/day. Type 2 diabetic nephropathy: Start 50 mg PO daily, target dose 100 mg daily. [Trade only: Tabs, unscored 25, 50, 100 mg.] ▶L ♀-D? \$\$\$
- OLMESARTAN (Benicar)** HTN: Start 20 mg PO daily, max 40 mg/day. [Trade only: Tabs, unscored 5, 20, 40 mg.] ▶K ♀-D? \$\$\$
- TELMISARTAN (Micardis)** HTN: Start 40 mg PO daily, max 80 mg/day. [Trade only: Tabs, unscored 20, 40, 80 mg.] ▶L ♀-D? \$\$\$
- VALSARTAN (Diovan)** HTN: Start 80 to 160 mg PO daily, max 320 mg/day. Heart failure: Start 40 mg PO bid, target dose 160 mg bid; there is no evidence of added benefit when used with adequate dose of ACE inhibitor. Reduce mortality/morbidity post MI with LV systolic dysfunction/failure: Start 20 mg PO bid, target dose 160 mg bid. [Trade only: Tabs, scored 40 mg, unscored 80, 160, 320 mg.] ▶L ♀-D? \$\$\$

Antiadrenergic Agents

- CLONIDINE (Catapres, Catapres-TTS, +Dixarit)** HTN: Start 0.1 mg PO bid, usual maintenance dose 0.2 to 1.2 mg/day divided bid to tid, max 2.4 mg/day. Rebound HTN with abrupt discontinuation, especially at doses that exceed 0.7 mg/day. Transdermal (Catapres-TTS): Start 0.1 mg/24 h patch once a week, titrate to desired effect, max effective dose 0.6 mg/24 h (two 0.3 mg/24 h patches). Transdermal Therapeutic System (TTS) is designed for 7 days use so that a TTS-1 delivers 0.1 mg/day for 7 days. May supplement first dose of TTS with oral for 2 to 3 days while therapeutic level is achieved. ADHD (unapproved peds): Start 0.05 mg PO qhs, titrate based on response over 8 weeks to max 0.2 mg/day (for wt less than 45 kg) or to max 0.4 mg/day (for wt 45 kg or greater) in 2 to 4 divided doses. Tourette's syndrome (unapproved peds and adult): 3 to 5 mcg/kg/day PO divided bid to qid. Opioid withdrawal, adjunct: 0.1 to 0.3 mg PO tid to qid or 0.1 to 0.2 mg PO q 4 h for 3 days tapering off over 4 to 10 days. Alcohol withdrawal, adjunct: 0.1 to 0.2 mg PO q 4 h prn. Smoking cessation: Start 0.1 mg PO bid, increase 0.1 mg/day at weekly intervals to 0.75 mg/day as tolerated; transdermal (Catapres TTS): 0.1 to 0.2 mg/24 h patch once a week for 2 to 3 weeks after cessation. Menopausal flushing: 0.1 to 0.4 mg/day PO divided bid to tid. Transdermal system applied weekly: 0.1 mg/day. [Generic/Trade: Tabs, unscored 0.1, 0.2, 0.3 mg. Trade only: Transdermal weekly patch 0.1 mg/day (TTS-1), 0.2 mg/day (TTS-2), 0.3 mg/day (TTS-3).] ▶LK ♀C D? \$\$\$
- DOXAZOSIN (Cardura, Cardura XL)** BPH: Immediate-release: Start 1 mg PO qhs, max 8 mg/day. Extended-release (not approved for HTN): 4 mg PO qam

(cont.)

with breakfast, max 8 mg/day. HTN: Start 1 mg PO qhs, max 16 mg/day. Take first dose at bed time to minimize orthostatic hypotension. [Generic/Trade: Tabs, scored 1, 2, 4, 8 mg. Trade only (Cardura XL): Tabs, extended-release 4, 8 mg.] ▶L ♀C ▶? \$\$

GUANFACINE (Tenex) HTN: Start 1 mg PO qhs, increase to 2 to 3 mg qhs if needed after 3 to 4 weeks, max 3 mg/day. ADHD in children: Start 0.5 mg PO daily, titrate by 0.5 mg q 3 to 4 d as tolerated to 0.5 mg PO tid. [Generic/Trade: Tabs, unscored 1, 2 mg.] ▶K ♀B ▶? \$

METHYLDOPA (Aldomet) HTN: Start 250 mg PO bid to tid, maximum 3000 mg/day. May cause hemolytic anemia. [Generic only: Tabs, unscored 125, 250, 500 mg.] ▶LK ♀B ▶+ \$

PRAZOSIN (Minipress) HTN: Start 1 mg PO bid to tid, max 40 mg/day. Take first dose at bed time to minimize orthostatic hypotension. [Generic/Trade: Caps 1, 2, 5 mg.] ▶L ♀C ▶? \$\$

TERAZOSIN (Hytrin) HTN: Start 1 mg PO qhs, usual effective dose 1 to 5 mg PO daily or divided bid, max 20 mg/day. Take first dose at bed time to minimize orthostatic hypotension. BPH: Start 1 mg PO qhs, usual effective dose 10 mg/day, max 20 mg/day. [Generic/Trade: Tabs, Caps 1, 2, 5, 10 mg.] ▶LK ♀C ▶? \$\$

Anti-Dysrhythmics / Cardiac Arrest

ADENOSINE (Adenocard) PSVT conversion (not A-fib): Adult and peds wt 50 kg or greater: 6 mg rapid IV & flush, preferably through a central line. If no response after 1 to 2 min, then 12 mg. A 3rd dose of 12 mg may be given prn. Peds wt less than 50 kg: Initial dose 50 to 100 mcg/kg, subsequent doses 100 to 200 mcg/kg q 1 to 2 min prn up to a max single dose of 300 mcg/kg or 12 mg whichever is less. Half-life is less than 10 sec. Give doses by rapid IV push followed by NS flush. Need higher dose if on theophylline or caffeine, lower dose if on dipyridamole or carbamazepine ▶Plasma ♀C ▶? \$\$\$

AMIODARONE (Cordarone, Pacerone) Life-threatening ventricular arrhythmia without cardiac arrest: Load 150 mg IV over 10 min, then 1 mg/min for 6 h, then 0.5 mg/min for 18 h. Mix in D5W. Oral loading dose 800 to 1600 mg PO daily for 1 to 3 weeks, reduce to 400 to 800 mg PO daily for 1 month when arrhythmia is controlled, reduce to lowest effective dose thereafter, usually 200 to 400 mg PO daily. Photosensitivity with oral therapy. Pulmonary & hepatic toxicity. Hypo or hyperthyroidism possible. Coadministration of fluoroquinolones, macrolides, or azoles may prolong QTc. May increase digoxin levels; discontinue digoxin or decrease dose by 50%. May increase INR with warfarin by up to 100%; decrease warfarin dose by 33 to 50%. Do not use with grapefruit juice. Do not use with simvastatin dose greater than 20 mg/day, lovastatin dose greater than 40 mg/day; caution with atorvastatin; increases risk of myopathy and rhabdomyolysis. Caution with beta-blockers and calcium channel blockers. IV therapy may cause hypotension. Contraindicated with marked sinus bradycardia and 2nd or 3rd degree heart block in the absence of a functioning pacemaker. [Trade only (Pacerone): Tabs, 100, 300 mg. Generic/Trade: Tabs, scored 200, 400 mg.] ▶L ♀D ▶- \$\$\$

ATROPINE (AtroPen) Bradycardia/CPR: 0.5 to 1 mg IV q 3 to 5 min to max 0.04 mg/kg (3 mg). Peds: 0.02 mg/kg/dose; minimum single dose, 0.1 mg; max cumulative dose, 1 mg. AtroPen: Injector pens for insecticide or nerve agent poisoning. [Trade only: Prefilled auto-injector pen: 0.25 mg (yellow), 0.5 mg (blue), 1 mg (dark red), 2 mg (green).] ▶K ♀C D- \$

BICARBONATE Severe acidosis: 1 mEq/kg IV up to 50 to 100 mEq/dose. ▶K ♀C D? \$

DIGOXIN (Lanoxin, Lanoxicaps, Digitek) Systolic heart failure/rate control of chronic A-fib: 0.125 to 0.25 mg PO daily; impaired renal function: 0.0625 to 0.125 mg PO daily. Rapid A-fib: Load 0.5 mg IV, then 0.25 mg IV q 6 h for 2 doses, maintenance 0.125 to 0.375 mg IV/PO daily. [Generic/Trade: Tabs, scored (Lanoxin, Digitek) 0.125, 0.25 mg; elixir 0.05 mg/mL. Trade only: Caps (Lanoxicaps), 0.1, 0.2 mg.] ▶KL ♀C D+ \$

DIGOXIN IMMUNE FAB (Digibind, Digifab) Digoxin toxicity: Dose varies. Acute ingestion of known amount: 1 vial binds approximately 0.5 mg digoxin. Acute ingestion of unknown amount: 10 vials IV, may repeat once. Toxicity during chronic therapy: 6 vials usually adequate; one formula is: Number vials is equivalent to (serum dig level in ng/mL) × (kg)/100. ▶K ♀C D? \$\$\$\$

DISOPYRAMIDE (Norpace, NorpaceCR, Rythmodan, Rythmodan-LA) Rarely indicated, consult cardiologist. Ventricular arrhythmia: 400 to 800 mg PO daily in divided doses (immediate-release is divided q 6 h; extended-release is divided q 12 h). Proarrhythmic. [Generic/Trade: Caps, immediate-release 100, 150 mg; extended-release 150 mg. Trade only: Caps, extended-release 100 mg.] ▶KL ♀C D+ \$\$\$\$

DRONEDARONE (Multaq) Reduce risk of CV hospitalization with paroxysmal or persistent atrial fib/flutter, with recent episode of atrial fib/flutter and CV risk factors (ie, age older than 70 yo, HTN, diabetes, prior CVA, left atrial diameter 50 mm or greater or LVEF less than 40%), who are in sinus rhythm or will be converted: 400 mg PO BID with morning and evening meals. Do not use with any of the following: 2nd or 3rd degree AV block or sick sinus syndrome without functioning pacemaker; bradycardia <50 bpm; QTc Bazett interval >500 ms; or severe hepatic impairment. Do not use with grapefruit juice; other antiarrhythmic agents; potent inhibitors of CYP 3A4 enzyme system (clarithromycin, erythromycin, itraconazole, ketoconazole, nefazodone, ritonavir, voriconazole); or inducers of CYP 3A4 enzyme system (carbamazepine, phenytoin, phenobarbital, rifampin, St. John's Wort). May increase digoxin levels; discontinue digoxin or decrease dose by 50%. Caution with beta-blockers and calcium channel blockers. May increase levels of sirolimus, tacrolimus, and CYP3A4 substrates with narrow therapeutic index. [Trade: Tabs, unscored 400 mg.] ▶L ♀X D- \$\$\$\$

FLECAINIDE (Tambacor) Proarrhythmic. Prevention of paroxysmal atrial fib/flutter or PSVT, with symptoms & no structural heart disease: Start 50 mg PO q 12 h, may increase by 50 mg bid q 4 days, max 300 mg/day. Use with AV nodal slowing agent (beta-blocker, verapamil, diltiazem) to minimize risk of 1:1 atrial flutter. Life-threatening ventricular arrhythmias without structural heart disease: Start 100 mg PO q 12 h, may increase by 50 mg bid q 4 days, max 400 mg/day. With severe renal impairment (CrCl <35 mL/min): Start 50 mg PO bid. [Generic/Trade: Tabs, unscored 50, scored 100, 150 mg.] ▶K ♀C D- \$\$\$\$

SELECTED DRUGS THAT MAY PROLONG THE QT INTERVAL

alfuzosin	erythromycin*†	nicardipine	sertraline
amiodarone*†	felbamate	octreotide	sotalol*†
apomorphine	flecainide*	ofloxacin	sunitinib
arsenic trioxide*	foscarnet	ondansetron	tacrolimus
azithromycin*	fosphenytoin	pentamidine*†	tamoxifen
chloroquine*	gemifloxacin	phenothiazines‡	telithromycin*
chlorpromazine	granisetron	pimozide*†	thioridazine
cisapride*†	haloperidol*‡	polyethylene glycol (PEG-salt soln)§	tizanidine
clarithromycin*	ibutilide*†	procainamide*	tolterodine
clozapine	indapamide*	quetiapine‡	varafenafil
cocaine*	isradipine	quinidine*†	venlafaxine
dasatinib	levofloxacin*	quinine	visicol§
disopyramide*†	lithium	ranolazine	voriconazole*
dofetilide*	mefloquine	risperidone‡	vorinostat
dolasetron	methadone*†	salmeterol	ziprasidone‡
droperidol*	moexipril/HCTZ		
epirubicin	moxifloxacin		

Note. This table may not include all drugs that prolong the QT interval or cause torsades. Risk of drug-induced QT prolongation may be increased in women, elderly, hypokalemia, hypomagnesemia, bradycardia, starvation, CHF, & CNS injuries. Hepatorenal dysfunction & drug interactions can increase the concentration of QT interval-prolonging drugs. Coadministration of QT interval-prolonging drugs can have additive effects. Avoid these (and other) drugs in congenital prolonged QT syndrome (www.qtdrugs.org). *Torsades reported in product labeling/case reports. †Increased risk in women. ‡QT prolongation: thioridazine > ziprasidone > risperidone, quetiapine, haloperidol. §May be due to electrolyte imbalance.

IBUTILIDE (Corvert) Recent onset A-fib/flutter: 0.01 mg/kg up to 1 mg IV over 10 min, may repeat once if no response after 10 additional min. Keep on cardiac monitor at least 4 h. ▶K ♀C ▶? \$\$\$\$\$

ISOPROTERENOL (Isuprel) Refractory bradycardia or 3rd degree AV block: bolus method: 0.02 to 0.06 mg IV; infusion method, dilute 2 mg in 250 mL D5W (8 mcg/mL), a rate of 37.5 mL/h delivers 5 mcg/min. Peds infusion method: 0.05 to 2 mcg/kg/min. Using the same concentration as adult for a 10 kg child, a rate of 8 mL/h delivers 0.1 mcg/kg/min. ▶LK ♀C ▶? \$\$\$

LIDOCAINE (Xylocaine, Xylocard) Ventricular arrhythmia: Load 1 mg/kg IV, then 0.5 mg/kg q 8 to 10 min as needed to max 3 mg/kg. IV infusion: 4 g in 500 mL D5W (8 mg/mL) run at rate of 7.5 to 30 mL/h to deliver 1 to 4 mg/min. Peds: 20 to 50 mcg/kg/min. ▶LK ♀B ▶? \$

MEXILETINE (Mexitil) Proarrhythmic. Rarely indicated, consult cardiologist. Ventricular arrhythmia: Start 200 mg PO q 8 h with food or antacid, max dose 1200 mg/day. [Generic only: Caps, 150, 200, 250 mg.] ▶L ♀C ▶—\$\$\$

PROCAINAMIDE (Pronestyl) Ventricular arrhythmia: Loading dose: 100 mg IV q 10 min or 20 mg/min (150 mL/h) until QRS widens more than 50%, dysrhythmia suppressed, hypotension, or total of 17 mg/kg or 1000 mg delivered. Infusion: dilute 2 g in 250 mL D5W (8 mg/mL) rate of 15 to 45 mL/h to deliver 2 to 6 mg/min. Proarrhythmic. ▶LK ♀C ▶? \$

PROPAFENONE (Rythmol, Rythmol SR) Proarrhythmic. Prevention of paroxysmal atrial fib/flutter or PSVT, with symptoms & no structural heart

(cont.)

disease; or life-threatening ventricular arrhythmias: Start (immediate-release) 150 mg PO q 8 h; may increase after 3 to 4 days to 225 mg PO q 8 h; max 900 mg/day. Prolong time to recurrence of symptomatic atrial fib without structural heart disease: 225 mg SR PO q 12 h, may increase after 5 days to 325 mg SR PO q 12 h, max 425 mg SR PO q 12 h. Consider using with AV nodal blocking agent (beta-blocker, verapamil, diltiazem) to minimize risk of 1:1 atrial flutter. [Generic/Trade: Tabs (immediate-release), scored 150, 225, 300 mg. Trade only: SR, Caps 225, 325, 425 mg.] ▶L ♀C ▶? \$\$\$\$

QUINIDINE (♣ *Biquin durules*) Arrhythmia: Gluconate, extended-release: 324 to 648 mg PO q 8 to 12 h; sulfate, immediate-release: 200 to 400 mg PO q 6 to 8 h; sulfate, extended-release: 300 to 600 mg PO q 8 to 12 h. Proarrhythmic. [Generic gluconate: Tabs, extended-release unscored 324 mg. Generic sulfate: Tabs, scored immediate-release 200, 300 mg, Tabs, extended-release 300 mg.] ▶LK ♀C ▶+ \$\$\$-gluconate, \$-sulfate

SOTALOL (*Betapace, Betapace AF, ♣Rylosol*) Ventricular arrhythmia (Betapace), A-fib/A-flutter (Betapace AF): Start 80 mg PO bid, max 640 mg/day. Proarrhythmic. [Generic/Trade: Tabs, scored 80, 120, 160, 240 mg, Tabs, scored (Betapace AF) 80, 120, 160 mg.] ▶K ♀B ▶- \$\$\$\$

Anti-Hyperlipidemic Agents—Bile Acid Sequestrants

CHOLESTYRAMINE (*Questran, Questran Light, Prevalite, LoCHOLEST, LoCHOLEST Light*) Elevated LDL-C: Powder: Start 4 g PO daily to bid before meals, increase up to max 24 g/day. [Generic/Trade: Powder for oral susp, 4 g cholestyramine resin/9 g powder (Questran, LoCHOLEST), 4 g cholestyramine resin/5 g powder (Questran Light), 4 g cholestyramine resin/5.5 g powder (Prevalite, LoCHOLEST Light). Each available in bulk powder and single-dose packets.] ▶Not absorbed ♀C ▶+ \$\$\$

COLESEVELAM (*Welchol*) Glycemic control of type 2 diabetes or reduce elevated LDL-C: 3 tabs PO bid with meals or 6 tabs once daily with a meal, max dose 6 tabs/day. [Trade only: Tabs, unscored, 625 mg.] ▶Not absorbed ♀B ▶+ \$\$\$\$\$

COLESTIPOL (*Colestid, Colestid Flavored*) Elevated LDL-C: Tabs: Start 2 g PO daily to bid, max 16 g/day. Granules: Start 5 g PO daily to bid, max 30 g/day. [Generic/Trade: Tabs 1 g. Granules for oral susp, 5 g/7.5 g powder.] ▶Not absorbed ♀B ▶+ \$\$\$

Anti-Hyperlipidemic Agents—HMG-CoA Reductase Inhibitors (“Statins”) & combinations

NOTE Hepatotoxicity: Monitor LFTs initially, about 12 weeks after starting/titrating therapy, then annually or more frequently if indicated. Evaluate muscle symptoms & creatine kinase before starting therapy. Evaluate muscle symptoms 6 to 12 weeks after starting/increasing therapy & at each follow-up visit. Obtain creatine kinase when patient complains of muscle soreness, tenderness, weakness, or pain. These factors increase risk of myopathy: Advanced age (especially age older than 80 yo and female); multisystem disease (eg,

(cont.)

chronic renal insufficiency, especially due to diabetes); multiple medications; perioperative periods; alcohol abuse; grapefruit juice (more than 1 quart/day); specific concomitant medications: Fibrates (especially gemfibrozil), nicotinic acid (rare), cyclosporine, erythromycin, clarithromycin, itraconazole, ketoconazole, protease inhibitors, nefazodone, verapamil, amiodarone. Weigh potential risk of combination therapy against potential benefit.

ADVICOR (lovastatin + niacin) Hyperlipidemia: 1 tab PO qhs with a low-fat snack. Establish dose using extended-release niacin first, or if already on lovastatin substitute combo product with lowest niacin dose. ASA or ibuprofen 30 min prior may decrease niacin flushing reaction. [Trade only: Tabs, unscored extended-release lovastatin/niacin 20/500, 20/750, 20/1000, 40/1000 mg.] ▶LK ♀X ▶— \$\$\$\$

ATORVASTATIN (Lipitor) Hyperlipidemia/prevention of cardiovascular events, including type 2 DM: Start 10 to 40 mg PO daily, max 80 mg/day. [Trade only: Tabs, unscored 10, 20, 40, 80 mg.] ▶L ♀X ▶— \$\$\$

CADUET (amlodipine + atorvastatin) Simultaneous treatment of HTN and hypercholesterolemia: Establish dose using component drugs first. Dosing interval: Daily [Trade only: Tabs, 2.5/10, 2.5/20, 2.5/40, 5/10, 5/20, 5/40, 5/80, 10/10, 10/20, 10/40, 10/80 mg.] ▶L ♀X ▶— \$\$\$\$

FLUVASTATIN (Lescol, Lescol XL) Hyperlipidemia: Start 20 to 80 mg PO qhs, max 80 mg daily (XL) or divided bid. Post percutaneous coronary intervention: 80 mg of extended-release PO daily, max 80 mg daily. [Trade only: Caps, 20, 40 mg. Tabs, extended-release, unscored 80 mg.] ▶L ♀X ▶— \$\$\$

LOVASTATIN (Mevacor, Altoprev) Hyperlipidemia/prevention of cardiovascular events: Start 20 mg PO q pm, max 80 mg/day daily or divided bid. [Generic/Trade: Tabs, unscored 20, 40 mg. Trade only: Tabs, extended-release (Altoprev) 20, 40, 60 mg.] ▶L ♀X ▶— \$

LIPID REDUCTION BY CLASS/AGENT¹

Drug class/agent	LDL	HDL	TG
Bile acid sequestrants ²	↓ 15–30%	↑ 3–5%	No change or ↑
Cholesterol absorption inhibitor ³	↓ 18%	↑ 1%	↓ 8%
Fibrates ⁴	↓ 5–20%	↑ 10–20%	↓ 20–50%
Lovastatin+ext'd release niacin ^{5*}	↓ 30–42%	↑ 20–30%	↓ 32–44%
Niacin ^{5*}	↓ 5–25%	↑ 15–35%	↓ 20–50%
Omega 3 fatty acids ⁷	No change or ↑	↑ 9%	↓ 45%
Statins ⁸	↓ 18–63%	↑ 5–15%	↓ 7–35%
Simvastatin+ezetimibe ⁹	↓ 45–60%	↑ 6–10%	↓ 23–31%

1. LDL = low density lipoprotein. HDL = high density lipoprotein. TG = triglycerides. Adapted from NCEP: JAMA 2001; 285:2486 and prescribing information. 2. Cholestyramine (4–16 g), colestipol (5–20 g), colesevelam (2.6–3.8 g). 3. Ezetimibe (10 mg). When added to statin therapy, will ↓ LDL 25%, ↑ HDL 3%, ↓ TG 14% in addition to statin effects. 4. Fenofibrate (145–200 mg), gemfibrozil (600 mg BID). 5. Advicor® (20/1000–40/2000 mg). 6. Extended release nicotinic acid (Niaspan® 1–2 g), immediate release (crystalline) nicotinic acid (1.5–3 g), sustained release nicotinic acid (Slo-Niacin® 1–2 g). 7. Lovaza (4 g) 8. Atorvastatin (10–80 mg), fluvastatin (20–80 mg), lovastatin (20–80 mg), pravastatin (20–80 mg), rosuvastatin (5–40 mg), simvastatin (20–80 mg). 9. Vytorin® (10/10–10/80 mg). *Lowers lipoprotein a.

PRAVASTATIN (Pravachol) Hyperlipidemia/prevention of cardiovascular events: Start 40 mg PO daily, max 80 mg/day. [Generic/Trade: Tabs, unscored 10, 20, 40, 80 mg. Generic only: Tabs 30 mg.] ▶L ♀X ▶— \$\$\$

ROSUVASTATIN (Crestor) Hyperlipidemia/slow progression of atherosclerosis: Start 10 mg PO daily, max 40 mg/day. [Trade only: Tabs, unscored 5, 10, 20, 40 mg.] ▶L ♀X ▶— \$\$\$\$

SIMCOR (simvastatin + niacin) Hyperlipidemia: 1 tab PO qhs with a low-fat snack. If niacin-naïve or switching from immediate-release niacin, start: 20/500 mg PO q pm. If receiving extended-release niacin, do not start with more than 40/2000 mg PO every evening. Max 40/2000 mg/day. ASA or ibuprofen 30 min prior may decrease niacin flushing reaction. [Trade only: Tabs, unscored extended-release simvastatin/niacin 20/500, 20/750, 20/1000 mg.] ▶LK ♀X ▶— \$\$\$

SIMVASTATIN (Zocor) Hyperlipidemia: Start 20 to 40 mg PO q pm, max 80 mg/day. Reduce cardiovascular mortality/events in high risk for coronary heart disease event: Start 40 mg PO q pm, max 80 mg/day. [Generic/Trade: Tabs, unscored 5, 10, 20, 40, 80 mg. Generic only: Orally disintegrating tabs 10, 20, 40, 80 mg.] ▶L ♀X ▶— \$\$\$\$

VYTORIN (ezetimibe + simvastatin) Hyperlipidemia: Start 10/20 mg PO q pm, max 10/80 mg/day. Start 10/40 mg if goal is >55% LDL reduction. [Trade only: Tabs, unscored ezetimibe/simvastatin 10/10, 10/20, 10/40, 10/80 mg.] ▶L ♀X ▶— \$\$\$\$

Anti-Hyperlipidemic Agents—Other

BEZAFIBRATE (♣Bezalip) Canada only. Hyperlipidemia/hypertriglyceridemia: 200 mg immediate-release PO bid to tid, or 400 mg of sustained-release PO daily. [Canada Trade only: Sustained-release tab 400 mg.] ▶K ♀D ▶— \$\$\$

EZETIMIBE (Zetia, ♣Ezetrol) Hyperlipidemia: 10 mg PO daily. [Trade only: Tabs, unscored 10 mg.] ▶L ♀C ▶? \$\$\$\$

FENOFIBRATE (TriCor, Antara, Lipofen, Triglide, ♣Lipidil Micro, Lipidil Supra, Lipidil EZ) Hypertriglyceridemia: Tricor tabs: 48 to 145 mg PO daily, max 145 mg daily. Antara: 43 to 130 mg PO daily; max 130 mg daily. Fenoglide: 40 to 120 mg PO daily; max 120 mg daily. Lipofen: 50 to 150 mg PO daily, max 150 mg daily. Lofibra: 54 to 200 mg PO daily, max 200 mg daily. Triglide: 50 to 160 mg PO daily, max 160 mg daily. Generic tabs: 54 to 160 mg, max 160 mg daily. Generic caps: 67 to 200 mg PO daily; max 200 mg daily. Hypercholesterolemia/mixed dyslipidemia: Tricor tabs: 145 mg PO daily. Antara: 130 mg PO daily. Fenoglide: 120 mg daily. Lipofen: 150 mg daily. Lofibra: 160 to 200 mg daily, max 200 mg daily. Triglide: 160 mg daily. Generic tabs: 160 mg daily. Generic caps 200 mg PO daily. All formulations, except Antara, Tricor, and Triglide should be taken with food. [Generic only: Tabs, unscored 54, 160 mg. Generic caps, 67, 134, 200 mg. Trade only: Tricor tabs, unscored 48, 145 mg. Antara caps 43, 130 mg. Fenoglide unscored tabs 40, 120 mg. Lipofen unscored tabs 50, 100, 150 mg. Lofibra tabs, unscored 54, 160 mg. Triglide tabs, unscored 50, 160 mg. Lofibra caps, 67, 134, 200 mg.] ▶LK ♀C ▶— \$\$\$

FENOFIBRIC ACID (TriLipix) In combination with statin for mixed dyslipidemia and CHD or CHD risk equivalent: 135 mg PO daily. Hypertriglyceridemia: 45 to

(cont.)

135 mg PO daily, max 135 mg daily. Hypercholesterolemia/mixed dyslipidemia: 135 mg PO daily. [TriLipix, delayed-release caps 45, 135 mg.] ▶LK ♀C
 D—\$\$\$

GEMFIBROZIL (Lopid) Hypertriglyceridemia/primary prevention of CAD: 600 mg PO bid 30 min before meals. [Generic/Trade: Tabs, scored 600 mg.] ▶LK ♀C D? \$\$\$

Antihypertensive Combinations

NOTE Dosage should first be adjusted by using each drug separately. See component drugs for further details.

BY TYPE: **ACE Inhibitor/Diuretic:** *Accuretic, Capozide, Inhibace Plus, Lotensin HCT, Monopril HCT, Prinzide, Uniretic, Vasertic, Zestoretic.* **ACE Inhibitor/Calcium Channel Blocker:** *Lexxel, Lotrel, Tarka.* **Angiotensin Receptor Blocker/Diuretic:** *Atacand HCT, Avalide, Benicar HCT, Diovan HCT, Hyzaar, Micardis HCT, Teveten HCT.* **Angiotensin Receptor Blocker/Calcium Channel Blocker:** *Exforge.* **Beta-blocker/Diuretic:** *Corzide, Dutoprol, Inderide, Lopressor HCT, Tenoretic, Timolide, Ziac.* **Diuretic combinations:** *Aldactazide, Dyazide, Maxzide, Moduretic, Triazide.* **Diuretic/miscellaneous antihypertensive:** *Aldoril, Apresazide, Clorpres, Minizide.*

BY NAME: **ACCURETIC (quinapril + HCTZ):** Generic/Trade: Tabs, 10/12.5, 20/12.5, 20/25. **Aldactazide (spironolactone + HCTZ):** Generic/Trade: Tabs, non-scored 25/25, scored 50/50 mg. **Aldoril (methyldopa + HCTZ):** Generic/Trade: Tabs, non-scored, 250/15 (Aldoril-15), 250/25 mg (Aldoril-25). Trade only: Tabs, non-scored, 500/30 (Aldoril D30), 500/50 mg (Aldoril D50). **Apresazide (hydralazine + HCTZ):** Generic only: Caps 25/25, 50/50 mg. **Atacand HCT (candesartan + HCTZ, ▲Atacand Plus):** Trade only: Tab, non-scored 16/12.5, 32/12.5 mg. **Avalide (irbesartan + HCTZ):** Trade only: Tabs, non-scored 150/12.5, 300/12.5, 300/25 mg. **Benicar HCT (olmesartan + HCTZ):** Trade only: Tabs, non-scored 20/12.5, 40/12.5, 40/25. **Capozide (captopril + HCTZ):** Generic/Trade: Tabs, scored 25/15, 25/25, 50/15, 50/25 mg. **Clorpres (clonidine + chlorthalidone):** Trade only: Tabs, scored 0.1/15, 0.2/15, 0.3/15 mg. **Corzide (nadolol + bendroflumethiazide):** Generic/Trade: Tabs 40/5, 80/5 mg. **Diovan HCT (valsartan + HCTZ):** Trade only: Tabs, non-scored 80/12.5, 160/12.5, 160/25, 320/12.5, 320/25 mg. **Dutoprol (metoprolol + HCTZ):** Trade only: Tabs, non-scored 25/12.5, 50/12.5 mg. Tabs, scored 100/12.5 mg. **Dyazide (triam-terene + HCTZ):** Generic/Trade: Caps, (Dyazide) 37.5/25, (generic only) 50/25 mg. **Exforge (amlodipine + valsartan):** Trade only: Tabs, non-scored 5/160, 5/320, 10/160, 10/320 mg. **Hyzaar (losartan + HCTZ):** Trade only: Tabs, non-scored 50/12.5, 100/12.5, 100/25 mg. **Inderide (propranolol + HCTZ):** Generic/Trade: Tabs, scored 40/25, 80/25. **Inhibace Plus (cilazapril + HCTZ):** Trade only: Scored tabs 5 mg cilazapril + 12.5 mg HCTZ. **Lexxel (enalapril + felodipine):** Trade only: Tabs, non-scored 5/2.5, 5/5 mg. **Lopressor HCT (metoprolol + HCTZ):** Generic/Trade: Tabs, scored 50/25, 100/25, 100/50 mg. **Lotensin HCT (benazepril + HCTZ):** Generic/Trade: Tabs, scored 5/6.25, 10/12.5, 20/12.5, 20/25 mg. **Lotrel (amlodipine + benazepril):** Generic/Trade: Cap, 2.5/10, 5/10, 5/20, 10/20 mg. Trade only: Cap,

(cont.)

5/40, 10/40 mg. **Maxzide** (triamterene + HCTZ, ♣ **Triazide**): Generic/Trade: Tabs, scored (Maxzide-25) 37.5/25 (Maxzide) 75/50 mg. **Maxzide-25** (triamterene + HCTZ): Generic/Trade: Tabs, scored (Maxzide-25) 37.5/25 (Maxzide) 75/50 mg. **Micardis HCT** (telmisartan + HCTZ, ♣ **Micardis Plus**): Trade only: Tabs, non-scored 40/12.5, 80/12.5, 80/25 mg. **Minizide** (prazosin + polythiazide): Trade only: cap, 1/0.5, 2/0.5, 5/0.5 mg. **Moduretic** (amiloride + HCTZ, ♣ **Moduref**): Generic/Trade: Tabs, scored 5/50 mg. **Monopril HCT** (fosinopril + HCTZ): Generic/Trade: Tabs, non-scored 10/12.5, scored 20/12.5 mg. **Prinzide** (lisinopril + HCTZ): Generic/Trade: Tabs, non-scored 10/12.5, 20/12.5, 20/25 mg. **Tarka** (trandolapril + verapamil): Trade only: Tabs, non-scored 2/180, 1/240, 2/240, 4/240 mg. **Tenoretic** (atenolol + chlorthalidone): Generic/Trade: Tabs, scored 50/25, non-scored 100/25 mg. **Teveten HCT** (eprosartan + HCTZ): Trade only: Tabs, non-scored 600/12.5, 600/25 mg. **Timolide** (timolol + HCTZ): Trade only: Tabs, non-scored 10/25 mg. **Uniretic** (moexipril + HCTZ): Generic/Trade: Tabs, scored 7.5/12.5, 15/12.5, 15/25 mg. **Vaseretic** (enalapril + HCTZ): Generic/Trade: Tabs, non-scored 5/12.5, 10/25 mg. **Zestoretic** (lisinopril + HCTZ): Generic/Trade: Tabs, non-scored 10/12.5, 20/12.5, 20/25 mg. **Ziac** (bisoprolol + HCTZ): Generic/Trade: Tabs, non-scored 2.5/6.25, 5/6.25, 10/6.25 mg.

Antihypertensives—Other

ALISKIREN (**Tekturna**) HTN: 150 mg PO daily, max 300 mg/day. [Trade only: Tabs, un-scored 150, 300 mg.] ▶LK ♀—♂—? \$\$\$

FENOLDOPAM (**Corlopam**) Severe HTN: 10 mg in 250 mL D5W (40 mcg/mL), start at 0.1 mcg/kg/min titrate q 15 min, usual effective dose 0.1 to 1.6 mcg/kg/min. ▶LK ♀♂? \$\$\$

STATINS		
Minimum Dose for 30–40% LDL Reduction	LDL*	LFT Monitoring**
atorvastatin 10 mg	–39%	Baseline, 12 weeks, semiannually
fluvastatin 40 mg bid	–36%	Baseline, 12 weeks
fluvastatin XL 80 mg	–35%	Baseline, 12 weeks
lovastatin 40 mg	–31%	Baseline
pravastatin 40mg	–34%	Baseline
rosuvastatin 5 mg	–45%	Baseline, 12 weeks, semiannually
simvastatin 20 mg	–38%	Baseline for all doses; Get LFTs prior to & 3 months after dose increase to 80 mg, then semiannually for first year.

*Adapted from Circulation 2004;110:227–239. **Data taken from prescribing information for primary hypercholesterolemia. LDL= low-density lipoprotein, LFT = liver function tests. Will get ~6% decrease in LDL with every doubling of dose. ACC/AHA/NHLBI schedule for LFT monitoring: baseline, ~12 weeks after starting/titrating therapy, annually, when clinically indicated. Stop statin therapy if LFTs are >3 times upper limit of normal.

LDL CHOLESTEROL GOALS ¹		Lifestyle Changes ²	Also Consider Meds at LDL (mg/dL) ³
Risk Category	LDL Goal		
High risk: CHD or equivalent risk, ^{4,5,6} 10-year risk >20%	<100 (optional <70) ⁷	LDL \geq 100 ⁸	\geq 100 (<100: consider Rx options) ⁹
Moderately high risk: 2+ risk factors, ¹⁰ 10-year risk 10–20%	<130 (optional <100)	LDL \geq 130 ⁸	\geq 130 (100–129: consider Rx options) ¹¹
Moderate risk: 2+ risk factors, ¹⁰ 10-year risk <10%	<130 mg/dL	LDL \geq 130	\geq 160
Lower risk: 0 to 1 risk factor ⁵	<160 mg/dL	LDL \geq 160	\geq 190 (160–189: Rx optional)

1. CHD = coronary heart disease. LDL = low density lipoprotein. Adapted from NCEP: *JAMA* 2001; 285:2486; NCEP Report: *Circulation* 2004;110:227-239. All 10-year risks based upon Framingham stratification; calculator available at: <http://hin.nhlbi.nih.gov/atp/iii/calculator.asp?usertype=prof>. 2. Dietary modification, wt reduction, exercise. 3. When using LDL lowering therapy, achieve at least 30–40% LDL reduction. 4. Equivalent risk defined as diabetes, other atherosclerotic disease (peripheral artery disease, abdominal aortic aneurysm, symptomatic carotid artery disease, CKD or prior ischemic CVA/TIA), or \geq 2 risk factors such that 10-year risk >20%. 5. History of ischemic CVA or transient ischemic attack = CHD risk equivalents (*Stroke* 2006;37:577–617). 6. Chronic kidney disease = CHD risk equivalent [*Am J Kidney Dis* 2003 Apr;41 (4 suppl 3):I-IV,S1–91]. 7. For any patient with atherosclerotic disease, may treat to LDL <70 mg/dL (*Circulation* 2006;113:2363–72). 8. Regardless of LDL, lifestyle changes are indicated when lifestyle-related risk factors (obesity, physical inactivity, \uparrow TG, \downarrow HDL, or metabolic syndrome) are present. 9. If baseline LDL <100, starting LDL lowering therapy is an option based on clinical trials. With \uparrow TG or \downarrow HDL, consider combining fibrate or nicotinic acid with LDL lowering drug. 10. Risk factors: Cigarette smoking, HTN (BP \geq 140/90 mmHg or on antihypertensive meds), low HDL (<40 mg/dL), family hx of CHD (1° relative: σ <55 yo, ♀ <65 yo), age (σ \geq 45 yo, ♀ \geq 55 yo). 11. At baseline or after lifestyle changes - initiating therapy to achieve LDL <100 is an option based on clinical trials.

HYDRALAZINE (Apresoline) Hypertensive emergency: 10 to 50 mg IM or 10 to 20 mg IV, repeat prn. HTN: Start 10 mg PO bid to qid, max 300 mg/day. Headaches, peripheral edema, SLE syndrome. [Generic only: Tabs, unscored 10, 25, 50, 100 mg.] \blacktriangleright LK ♀ C \blacktriangleright + \$

NITROPRUSSIDE (Nipride, Nitropress) Hypertensive emergency: Dilute 50 mg in 250 mL D5W (200 mcg/mL), rate of 6 mL/h for 70 kg adult delivers starting dose of 0.3 mcg/kg/min. Max 10 mcg/kg/min. Protect from light. Cyanide toxicity with high doses (10 mcg/kg/min), hepatic/renal impairment, and prolonged infusions (longer than 3 to 7 days); check thiocyanate levels. \blacktriangleright RBCs ♀ C \blacktriangleright - \$

PHENTOLAMINE (Regitine, Rogitine) Diagnosis of pheochromocytoma: 5 mg increments IV/IM. Peds 0.05 to 0.1 mg/kg IV/IM up to 5 mg per dose. Extravasation: 5 to 10 mg in 10 mL NS inject 1 to 5 mL SC (in divided doses) around extravasation site. \blacktriangleright Plasma ♀ C \blacktriangleright ? \$\$\$

Antiplatelet Drugs

ABCIXIMAB (ReoPro) Platelet aggregation inhibition, percutaneous coronary intervention: 0.25 mg/kg IV bolus via separate infusion line before procedure, then 0.125 mcg/kg/min (max 10 mcg/min) IV infusion for 12 h. \blacktriangleright Plasma ♀ C \blacktriangleright ? \$\$\$\$\$

AGGRENOX (ASA + dipyridamole) Prevention of CVA after TIA/CVA: 1 cap PO bid. [Trade only: Caps, 25 mg ASA/200 mg extended-release dipyridamole.] ▶LK ♀D? \$\$\$\$

CLOPIDOGREL (Plavix) Reduction of thrombotic events: Recent acute MI/CVA, established peripheral arterial disease: 75 mg PO daily; non-ST segment elevation acute coronary syndrome: 300 mg loading dose, then 75 mg PO daily in combination with ASA. ST segment elevation MI: Start with/without 300 mg loading dose, then 75 mg PO daily in combination with ASA, with/without thrombolytics. [Trade: Tabs, unscored 75, 300 mg.] ▶LK ♀B? \$\$\$\$

DIPYRIDAMOLE (Persantine) Antithrombotic: 75 to 100 mg PO qid. [Generic/Trade: Tabs, unscored 25, 50, 75 mg.] ▶L ♀B? \$\$\$

EPTIFIBATIDE (Integrilin) Acute coronary syndrome: Load 180 mcg/kg IV bolus, then infusion 2 mcg/kg/min for up to 72 h. Discontinue infusion prior to CABG. Percutaneous coronary intervention: Load 180 mcg/kg IV bolus just before procedure, followed by infusion 2 mcg/kg/min and a 2nd 180 mcg/kg IV bolus 10 min after the first bolus. Continue infusion for up to 18 to 24 h (minimum 12 h) after procedure. Reduce infusion dose to 1 mcg/kg/min with CrCl <50 mL/min; contraindicated in dialysis patients. ▶K ♀B? \$\$\$\$

PRASUGREL (Effient) Reduction of thrombotic events after acute coronary syndrome managed with percutaneous coronary intervention (PCI): 60 mg loading dose, then 10 mg PO daily in combination with ASA. Patients wt less than 60 kg consider lowering maintenance dose to 5 mg PO daily. [Trade: Tabs, unscored 5, 10 mg.] ▶LK ♀B? \$\$\$\$

TICLOPIDINE (Ticlid) Due to high incidence of neutropenia and thrombotic thrombocytopenia purpura, other drugs preferred. Platelet aggregation inhibition/reduction of thrombotic CVA: 250 mg PO bid with food. [Generic/Trade: Tabs, unscored 250 mg.] ▶L ♀B? \$\$\$\$

TIROFIBAN (Aggrastat) Acute coronary syndromes: Start 0.4 mcg/kg/min IV infusion for 30 min, then decrease to 0.1 mcg/kg/min for 48 to 108 h or until 12 to 24 h after coronary intervention. Half dose with CrCl <30 mL/min. Use concurrent heparin to keep PTT 2× normal. ▶K ♀B? \$\$\$\$

Beta-Blockers

NOTE See also antihypertensive combinations. Not first line for HTN unless to treat angina, post MI, LV dysfunction. Abrupt discontinuation may precipitate angina, MI, arrhythmias, or rebound HTN; discontinue by tapering over 1 to 2 weeks. Avoid use of non-selective beta-blockers and use agents with beta-1 selectively in asthma/COPD. Beta-1 selectivity diminishes at high doses. Avoid in decompensated heart failure, sick sinus syndrome, severe peripheral artery disease.

ACEBUTOLOL (Sectral, ♦Rhotral) HTN: Start 400 mg PO daily or 200 mg PO bid, maximum 1200 mg/day. Beta-1 receptor selective. [Generic/Trade: Caps, 200, 400 mg.] ▶LK ♀B? \$-\$

ATENOLOL (Tenormin) Acute MI: 50 to 100 mg PO daily or in divided doses; or 5 mg IV over 5 min, repeat in 10 min. HTN: Start 25 to 50 mg PO daily or divided bid, maximum 100 mg/day. Beta-1 receptor selective. [Generic/Trade: Tabs, unscored 25, 100 mg; scored, 50 mg.] ▶K ♀D? \$

BETAXOLOL (*Kerlone*) HTN: Start 5 to 10 mg PO daily, max 20 mg/day. Beta-1 receptor selective. [Generic/Trade: Tabs, scored 10 mg, unscored 20 mg.] ▶LK ♀C ▶? \$\$

BISOPROLOL (*Zebeta*, *Monacor*) HTN: Start 2.5 to 5 mg PO daily, max 20 mg/day. Beta-1 receptor selective. [Generic/Trade: Tabs, scored 5 mg, unscored 10 mg.] ▶LK ♀C ▶? \$\$

CARVEDILOL (*Coreg*, *Coreg CR*) Heart failure, immediate-release: Start 3.125 mg PO bid, double dose every 2 weeks as tolerated up to max of 25 mg bid (for wt 85 kg or less) or 50 mg bid (for wt greater than 85 kg). Heart failure, sustained-release: Start 10 mg PO daily, double dose every 2 weeks as tolerated up to max of 80 mg/day. LV dysfunction following acute MI, immediate-release: Start 3.125 to 6.25 mg PO bid, double dose q 3 to 10 days as tolerated to max of 25 mg bid. LV dysfunction following acute MI, sustained-release: Start 10 to 20 mg PO daily, double dose q 3 to 10 days as tolerated to max of 80 mg/day. HTN, immediate-release: Start 6.25 mg PO bid, double dose q 7 to 14 days as tolerated to max 50 mg/day. HTN, sustained-release: Start 20 mg PO daily, double dose q 7 to 14 days as tolerated to max 80 mg/day. Take with food to decrease orthostatic hypotension. Give Coreg CR in the morning. Alpha-1, beta-1, and beta-2 receptor blocker. [Generic/Trade: Tabs, immediate-release unscored 3.125, 6.25, 12.5, 25 mg. Trade only: Caps, extended-release 10, 20, 40, 80 mg.] ▶L ♀C ▶? \$\$\$

ESMOLOL (*Brevibloc*) SVT/HTN emergency: Load 500 mcg/kg over 1 min (dilute 5 g in 500 mL (10 mg/mL) and give 3.5 ml to deliver 35 g bolus for 70 kg patient) then start infusion 50 to 200 mcg/kg/min (40 mL/h delivers 100 mcg/kg/min for 70 kg patient). Half-life is 9 min. Beta-1 receptor selective. ▶K ♀C ▶? \$

LABETALOL (*Trandate*) HTN: Start 100 mg PO bid, max 2400 mg/day. HTN emergency: Start 20 mg IV slow injection, then 40 to 80 mg IV q 10 min prn up to 300 mg or IV infusion 0.5 to 2 mg/min. Peds: Start 0.3 to 1 mg/kg/dose (max 20 mg). Alpha-1, beta-1, and beta-2 receptor blocker. [Generic/Trade: Tabs, scored 100, 200, 300 mg.] ▶LK ♀C ▶+ \$\$\$

METOPROLOL (*Lopressor*, *Toprol-XL*, *Betaloc*) Acute MI: 50 to 100 mg PO q 12 h; or 5 mg increments IV q 5 to 15 min up to 15 mg followed by oral therapy. HTN (immediate-release): Start 100 mg PO daily or in divided doses, increase pm up to 450 mg/day; may require multiple daily doses to maintain 24 h BP control. HTN (extended-release): Start 25 to 100 mg PO daily, increase pm up to 400 mg/day. Heart failure: Start 12.5 to 25 mg (extended-release) PO daily, double dose q 2 weeks as tolerated up to max 200 mg/day. Angina: Start 50 mg PO bid (immediate-release) or 100 mg PO daily (extended-release), increase pm up to 400 mg/day. Beta-1 receptor selective. IV to PO conversion: 1 mg IV is equivalent to 2.5 mg PO (divided qid). Immediate-release form is metoprolol tartrate; extended-release form is metoprolol succinate. Take with food. [Generic/Trade: Tabs, scored 50, 100 mg, extended-release 25, 50, 100, 200 mg. Generic only: Tabs, scored 25 mg.] ▶L ♀C ▶? \$\$

NADOLOL (*Corgard*) HTN: Start 20 to 40 mg PO daily, max 320 mg/day. Beta-1 and beta-2 receptor blocker. [Generic/Trade: Tabs, scored 20, 40, 80, 120, 160 mg.] ▶K ♀C ▶- \$\$

NEBIVOLOL (*Bystolic*) HTN: Start 5 mg PO daily, maximum 40 mg/day. Beta-1 receptor selective at doses of 10 mg or less and in patients who extensively metabolize CYP2D6; otherwise, inhibits both beta-1 and beta-2 receptors. [Trade only: Tabs, unscored 2.5, 5, 10, 20 mg.] ▶L ♀C ▶—\$\$\$

OXPRENOLOL (♣*Trasicor*, *Slow-Trasicor*) Canada only. HTN: Regular-release: Initially 20 mg PO tid, titrate upwards prn to usual maintenance 120 to 320 mg/day divided bid to tid. Alternatively, may substitute an equivalent daily dose of sustained-release product; do not exceed 480 mg/day. [Trade only: Regular-release tabs 40, 80 mg. Sustained-release tabs 80, 160 mg.] ▶L ♀D ▶—\$\$

PINDOLOL (♣*Visken*) HTN: Start 5 mg PO bid, max 60 mg/day. Beta-1 and beta-2 receptor blocker. [Generic only: Tabs, scored 5, 10 mg.] ▶K ♀B ▶? \$\$\$

PROPRANOLOL (*Inderal*, *Inderal LA*, *InnoPran XL*) HTN: Start 20 to 40 mg PO bid or 60 to 80 mg PO daily, max 640 mg/day; extended-release (*Inderal LA*) max 640 mg/day; extended-release (*InnoPran XL*) 80 mg qhs (10 pm), max 120 mg qhs (chronotherapy). Supraventricular tachycardia or rapid atrial fibrillation/flutter: 1 mg IV q 2 min. Max of 2 doses in 4 h. Migraine prophylaxis: Start 40 mg PO bid or 80 mg PO daily (extended-release), max 240 mg/day. Beta-1 and beta-2 receptor blocker. [Generic/Trade: Tabs, scored 40, 60, 80. Caps, extended-release 60, 80, 120, 160 mg. Generic only: Soln 20, 40 mg/5 mL. Tabs, 10, 20 mg. Trade only: (*InnoPran XL* qhs) 80, 120 mg.] ▶L ♀C ▶+ \$\$

Calcium Channel Blockers (CCBs)—Dihydropyridines

NOTE See also antihypertensive combinations.

AMLODIPINE (*Norvasc*) HTN: Start 2.5 to 5 mg PO daily, max 10 mg daily. [Generic/Trade: Tabs, unscored 2.5, 5, 10 mg. Generic only: Orally disintegrating tabs 2.5, 5, 10 mg.] ▶L ♀C ▶? \$\$\$

CLEVIDIPINE (*Cleviprex*) HTN: Start 1 to 2 mg/h IV, titrate q 1.5 to 10 min to bp response, usual maintenance dose 4 to 6 mg/h, max 32 mg/h IV. An increase of 1 to 2 mg/h will decrease SBP approximately 2 to 4 mmHg. ▶KL ♀C ▶? \$\$\$

FELODIPINE (*Plendil*, ♣*Renedil*) HTN: Start 2.5 to 5 mg PO daily, maximum 10 mg/day. [Generic/Trade: Tabs, extended-release, unscored 2.5, 5, 10 mg.] ▶L ♀C ▶? \$\$

ISRADIPINE (*DynaCirc*, *DynaCirc CR*) HTN: Start 2.5 mg PO bid, max 20 mg/day (max 10 mg/day in elderly). Controlled-release: 5 to 10 mg PO daily. [Trade only: Tabs, controlled-release 5, 10 mg. Generic only: Immediate-release caps 2.5, 5 mg.] ▶L ♀C ▶? \$\$\$\$

NICARDIPINE (*Cardene*, *Cardene SR*) HTN emergency: Begin IV infusion at 5 mg/h, titrate to effect, max 15 mg/h. HTN: Start 20 mg PO tid, max 120 mg/day. Sustained-release: Start 30 mg PO bid, max 120 mg/day. [Generic/Trade: Caps, immediate-release 20, 30 mg. Trade only: Caps, sustained-release 30, 45, 60 mg.] ▶L ♀C ▶? \$\$

NIFEDIPINE (*Procardia*, *Adalat*, *Procardia XL*, *Adalat CC*, *Afeditab CR*, ♣*Adalat XL*, *Adalat PA*) HTN/angina: Extended-release: 30 to 60 mg PO

(cont.)

daily, max 120 mg/day. Angina: Immediate-release: Start 10 mg PO tid, max 120 mg/day. Avoid sublingual administration, may cause excessive hypotension, acute MI, CVA. Do not use immediate-release caps for treating HTN. Preterm labor: Loading dose: 10 mg PO q 20 to 30 min if contractions persist, up to 40 mg within the first h. Maintenance dose: 10 to 20 mg PO q 4 to 6 h or 60 to 160 mg extended-release PO daily. [Generic/Trade: Caps, 10, 20 mg. Tabs, extended-release (Adalat CC, Afeditab CR, Procardia XL) 30, 60 mg, (Adalat CC, Procardia XL) 90 mg.] ▶L ♀C ▶+ \$\$

NISOLDIPINE (Sular) HTN: Start 17 mg PO daily, max 34 mg/day. Take on an empty stomach. [Trade only: Tabs, extended-release 8.5, 17, 25.5, 34 mg. These replace the former 10, 20, 30, 40 mg tabs. Generic only: Tabs, extended-release 20, 30, 40 mg.] ▶L ♀C ▶? \$\$\$

Calcium Channel Blockers (CCBs)—Non-Dihydropyridines

NOTE See also antihypertensive combinations.

DILTIAZEM (Cardizem, Cardizem LA, Cardizem CD, Cartia XT, Dilacor XR, Diltiazem CD, Diltzac, Diltia XT, Tiazac, Taztia XT) Atrial fibrillation/flutter, PSVT: Bolus 20 mg (0.25 mg/kg) IV over 2 min. Rebolus 15 min later (if needed) 25 mg (0.35 mg/kg). Infusion 5 to 15 mg/h. HTN, once daily, extended-release: Start 120 to 240 mg PO daily, max 540 mg/day. HTN, once daily, graded extended-release (Cardizem LA): Start 180 to 240 mg PO daily, max 540 mg/day. HTN, twice daily, sustained-release: Start 60 to 120 mg PO bid, max 360 mg/day. Angina, immediate-release: Start 30 mg PO qid, max 360 mg/day divided tid to qid; Angina, extended-release: start 120 to 240 mg PO daily, max 540 mg/day. Angina, once daily, graded extended-release (Cardizem LA): start 180 mg PO daily, doses more than 360 mg may provide no additional benefit. [Generic/Trade: Tabs, immediate-release, unscored (Cardizem) 30, scored 60, 90, 120 mg; Caps, extended-release (Cardizem CD, Cartia XT daily) 120, 180, 240, 300, 360 mg, (Diltzac, Taztia XT, Tiazac daily) 120, 180, 240, 300, 360, 420 mg, (Dilacor XR, Diltia XT) 120, 180, 240 mg. Trade only: Tabs, extended-release graded (Cardizem LA daily) 120, 180, 240, 300, 360, 420 mg.] ▶L ♀C ▶+ \$\$

VERAPAMIL (Isoptin SR, Calan, Covera-HS, Verelan, Verelan PM, Veramil) SVT adults: 5 to 10 mg IV over 2 min; SVT peds (age 1 to 15 yo): 2 to 5 mg (0.1 to 0.3 mg/kg) IV, max dose 5 mg. Angina: Immediate-release, start 40 to 80 mg PO tid to qid, max 480 mg/day; sustained to release, start 120 to 240 mg PO daily, max 480 mg/day (use bid dosing for doses greater than 240 mg/day with Isoptin SR and Calan SR); (Covera-HS) 180 mg PO qhs, max 480 mg/day. HTN: Same as angina, except (Verelan PM) 100 to 200 mg PO qhs, max 400 mg/day; immediate-release tabs should be avoided in treating HTN. [Generic/Trade: Tabs, immediate-release, scored (Calan) 40, 80, 120 mg; Tabs, sustained-release, unscored (Isoptin SR) 120, scored 180, 240 mg; Caps, sustained-release (Verelan) 120, 180, 240, 360 mg; Caps, extended-release (Verelan PM) 100, 200, 300 mg. Trade only: Tabs, extended-release (Covera HS) 180, 240 mg.] ▶L ♀C ▶+ \$\$

Diuretics—Carbonic Anhydrase Inhibitors

ACETAZOLAMIDE (*Diamox, Diamox Sequels*) Glaucoma: 250 mg PO up to qid (immediate-release) or 500 mg PO up to bid (sustained-release). Max 1 g/day. Acute glaucoma: 250 mg IV q 4 h or 500 mg IV initially with 125 to 250 mg q 4 h, followed by oral therapy. Mountain sickness prophylaxis: 125 to 250 mg PO bid to tid, beginning 1 to 2 days prior to ascent and continuing at least 5 days at higher altitude. Edema: Rarely used, start 250 to 375 mg IV/PO q am given intermittently (every other day or 2 consecutive days followed by none for 1 to 2 days) to avoid loss of diuretic effect. [Generic only: Tabs, 125, 250 mg. Generic/Trade: Caps, extended-release 500 mg.] ▶LK ♀C ▶+ \$

Diuretics—Loop

BUMETANIDE (*Bumex, ♣Burinex*) Edema: 0.5 to 1 mg IV/IM; 0.5 to 2 mg PO daily. 1 mg bumetanide is roughly equivalent to 40 mg furosemide. [Generic/Trade: Tabs, scored 0.5, 1, 2 mg.] ▶K ♀C ▶? \$

ETHACRYNIC ACID (*Edecrin*) Rarely used. May be useful in sulfa-allergic patients. Edema: 0.5 to 1 mg/kg IV, max 100 mg/dose; 25 to 100 mg PO daily to bid. [Trade only: Tabs, scored 25 mg.] ▶K ♀B ▶? \$\$\$

FUROSEMIDE (*Lasix*) Edema: Initial dose 20 to 80 mg IV/IM/PO, increase dose by 20 to 40 mg q 6 to 8 h until desired response is achieved, max 600 mg/day. Use lower doses in elderly. [Generic/Trade: Tabs, unscored 20, scored 40, 80 mg. Generic only: Oral soln 10 mg/mL, 40 mg/5 mL.] ▶K ♀C ▶? \$

TORSEMIDE (*Demadex*) Edema: 5 to 20 mg IV/PO daily. [Generic/Trade: Tabs, scored 5, 10, 20, 100 mg.] ▶LK ♀B ▶? \$

Diuretics—Potassium Sparing

NOTE See also antihypertensive combinations and aldosterone antagonists. Beware of hyperkalemia. Use cautiously with other agents that may cause hyperkalemia (ie, ACE inhibitors, ARBs, aliskiren).

Diuretics—Thiazide Type

NOTE See also antihypertensive combinations.

CHLORTHALIDONE (*Thalitone*) HTN: 12.5 to 25 mg PO daily, max 50 mg/day. Edema: 50 to 100 mg PO daily, max 200 mg/day. Nephrolithiasis (unapproved use): 25 to 50 mg PO daily. [Trade only: Tabs, unscored (Thalitone) 15 mg. Generic only: Tabs unscored 25, 50 mg.] ▶L ♀B, D if used in pregnancy-induced HTN ▶+ \$

HYDROCHLOROTHIAZIDE (*HCTZ, Esidrix, Oretic, Microzide, HydroDiuril*) HTN: 12.5 to 25 mg PO daily, max 50 mg/day. Edema: 25 to 100 mg PO daily, max 200 mg/day. [Generic/Trade: Tabs, scored 25, 50 mg; Caps 12.5 mg.] ▶L ♀B, D if used in pregnancy-induced HTN ▶+ \$

INDAPAMIDE (*Lozol, ♣Lozide*) HTN: 1.25 to 5 mg PO daily, max 5 mg/day. Edema: 2.5 to 5 mg PO qam. [Generic only: Tabs, unscored 1.25, 2.5 mg.] ▶L ♀B, D if used in pregnancy-induced HTN ▶? \$

METOLAZONE (*Zaroxolyn*) Edema: 5 to 10 mg PO daily, max 10 mg/day in heart failure, 20 mg/day in renal disease. If used with loop diuretic, start with 2.5 mg PO daily. [Generic/Trade: Tabs 2.5, 5, 10 mg.] ▶L ♀B, D if used in pregnancy-induced HTN ▶? \$\$\$

Nitrates

ISOSORBIDE DINITRATE (*Isordil, Dilatrate-SR, +Cedocard SR, Coronex*) Angina prophylaxis: 5 to 40 mg PO tid (7 am, noon, 5 pm), sustained-release: 40 to 80 mg PO bid (8 am, 2 pm). Acute angina, SL Tabs: 2.5 to 10 mg SL q 5 to 10 min prn, up to 3 doses in 30 min. [Generic/Trade: Tabs, scored 5, 10, 20, 30 mg. Trade only: Tabs, (Isordil) 40 mg, Caps, extended-release (Dilatrate-SR) 40 mg. Generic only: Tabs, sustained-release 40 mg, Tabs, sublingual 2.5, 5 mg.] ▶L ♀C ▶? \$

ISOSORBIDE MONONITRATE (*ISMO, Monoket, Imdur*) Angina: 20 mg PO bid (8 am and 3 pm). Extended-release: Start 30 to 60 mg PO daily, maximum 240 mg/day. [Generic/Trade: Tabs, unscored (ISMO, bid dosing) 20 mg, scored (Monoket, bid dosing) 10, 20 mg, extended-release, scored (Imdur, daily dosing) 30, 60, unscored 120 mg.] ▶L ♀C ▶? \$\$\$

NITROGLYCERIN INTRAVENOUS INFUSION (*Tridil*) Perioperative HTN, acute MI/Heart failure, acute angina: Mix 50 mg in 250 mL D5W (200 mcg/mL), start at 10 to 20 mcg/min (3 to 6 mL/h), then titrate upward by 10 to 20 mcg/min pm. [Brand name "Tridil" no longer manufactured, but retained herein for name recognition.] ▶L ♀C ▶? \$

NITROGLYCERIN OINTMENT (*Nitro-BID*) Angina prophylaxis: Start 0.5 inch q 8 h, maintenance 1 to 2 inch q 8 h, maximum 4 inch q 4 to 6 h; 15 mg/inch. Allow for a nitrate-free period of 10 to 14 h to avoid nitrate tolerance. 1 inch ointment is ~15 mg. [Trade only: Ointment, 2%, tubes 1, 30, 60 g (Nitro-BID).] ▶L ♀C ▶? \$

NITROGLYCERIN SPRAY (*Nitrolingual, NitroMist*) Acute angina: 1 to 2 sprays under the tongue prn, max 3 sprays in 15 min. [Trade only: Nitrolingual soln, 4.9, 12 mL. 0.4 mg/spray (60 or 200 sprays/canister); NitroMist aerosol 0.4 mg/spray (230 sprays/canister).] ▶L ♀C ▶? \$\$\$\$

NITROGLYCERIN SUBLINGUAL (*Nitrostat, NitroQuick*) Acute angina: 0.4 mg SL under tongue, repeat dose q 5 min pm up to 3 doses in 15 min. [Generic/Trade: Sublingual tabs, unscored 0.3, 0.4, 0.6 mg; in bottles of 100 or package of 4 bottles with 25 tabs each.] ▶L ♀C ▶? \$

NITROGLYCERIN TRANSDERMAL (*Minitran, Nitro-Dur, +Trinipatch*) Angina prophylaxis: 1 patch 12 to 14 h each day. Allow for a nitrate-free period of 10 to 14 h each day to avoid nitrate tolerance. [Generic/Trade: Transdermal system 0.1, 0.2, 0.4, 0.6 mg/h. Trade only: (Nitro-Dur) 0.3, 0.8 mg/h.] ▶L ♀C ▶? \$\$\$

Pressors/Inotropes

DOBUTAMINE (*Dobutrex*) Inotropic support: 2 to 20 mcg/kg/min. Dilute 250 mg in 250 mL D5W (1 mg/mL), a rate of 21 mL/h delivers 5 mcg/kg/min for a 70 kg patient. ▶Plasma ♀D ▶- \$

CARDIAC PARAMETERS AND FORMULASCardiac output (CO) = heart rate \times CVA volume [normal 4-8 l/min]Cardiac index (CI) = CO/BSA [normal 2.8-4.2 l/min/m²]

MAP (mean arterial press) = [(SBP - DBP)/3] + DBP [normal 80-100 mmHg]

SVR (systemic vasc resis) = (MAP - CVP) \times (80)/CO [normal 800-1200 dyne/sec/cm⁵]PVR (pulm vasc resis) = (PAM - PCWP) \times (80)/CO [normal 45-120 dyne/sec/cm⁵]

QTc = QT / square root of RR [normal 0.38-0.42]

Right atrial pressure (central venous pressure) [normal 0-8 mmHg]

Pulmonary artery systolic pressure (PAS) [normal 20-30 mmHg]

Pulmonary artery diastolic pressure (PAD) [normal 10-15 mmHg]

Pulmonary capillary wedge pressure (PCWP) [normal 8-12 mmHg (post-MI ~16 mmHg)]

DOPAMINE (Intropin) Pressor: Start at 5 mcg/kg/min, increase prn by 5 to 10 mcg/kg/min increments at 10 min intervals, max 50 mcg/kg/min. Mix 400 mg in 250 mL D5W (1600 mcg/mL) a rate of 13 mL/h delivers 5 mcg/kg/min in a 70 kg patient. Doses in mcg/kg/min: 2 to 4 (traditional renal dose, apparently ineffective) dopaminergic receptors; 5 to 10 (cardiac dose) dopaminergic and beta-1 receptors; more than 10 dopaminergic, beta-1, and alpha-1 receptors. ▶Plasma ♀C ▶—\$

EPHEDRINE Pressor: 10 to 25 mg slow IV, repeat q 5 to 10 min prn. [Generic only: Caps, 50 mg.] ▶K ♀C ▶? \$

EPINEPHRINE (EpiPen, EpiPen Jr, Twinject, adrenalin) Cardiac arrest: 1 mg IV q 3 to 5 min. Anaphylaxis: 0.1 to 0.5 mg SC/IM, may repeat SC dose q 10 to 15 min. Acute asthma & hypersensitivity reactions: Adults: 0.1 to 0.3 mg of 1:1000 soln SC or IM; Peds: 0.01 mg/kg (up to 0.3 mg) of 1:1000 soln SC or IM. [Soln for injection: 1:1000 (1 mg/mL in 1 mL amps or 10 mL vial). Trade only: EpiPen Auto-injector delivers one 0.3 mg (1:1000, 0.3 mL) IM dose. EpiPen Jr. Autoinjector delivers one 0.15 mg (1:2000, 0.3 mL) IM dose. Twinject Auto-injector delivers one 0.15 mg (1:1000, 0.15 mL) or 0.3 mg (1:1000, 0.3 mL) IM/SC dose.] ▶Plasma ♀C ▶—\$

INAMRINONE Heart failure: 0.75 mg/kg bolus IV over 2 to 3 min, then infusion 5 to 10 mcg/kg/min; mix 100 mg in 100 mL NS (1 mg/mL) a rate of 21 mL/h delivers 5 mcg/kg/min for a 70 kg patient. ▶K ♀C ▶? \$\$\$\$

MIDODRINE (Orvaten, ProAmatine, Amatine) Orthostatic hypotension: 10 mg PO tid while awake. [Generic/Trade: Tabs, scored 2.5, 5, 10 mg.] ▶LK ♀C ▶? \$\$\$\$

MILRINONE (Primacor) Systolic heart failure (NYHA class III, IV): Load 50 mcg/kg IV over 10 min, then begin IV infusion of 0.375 to 0.75 mcg/kg/min. ▶K ♀C ▶? \$\$

NOREPINEPHRINE (Levophed) Acute hypotension: start 8 to 12 mcg/min, adjust to maintain BP, average maintenance rate 2 to 4 mcg/min, mix 4 mg in 500 mL D5W (8 mcg/mL) rate of 22.5 mL/h delivers 3 mcg/min. Ideally through central line. ▶Plasma ♀C ▶? \$

PHENYLEPHRINE—IV (Neo-Synephrine) Severe hypotension: 50 mcg boluses IV. Infusion: 20 mg in 250 mL D5W (80 mcg/mL), start 100 to 180 mcg/min (75 to 135 mL/h), usual dose once BP is stabilized 40 to 60 mcg/min. ▶Plasma ♀C ▶—\$

Pulmonary Arterial Hypertension

SILDENAFIL (Revatio) Pulmonary arterial hypertension: 20 mg PO tid. Contraindicated with nitrates. Coadministration is not recommended with ritonavir, potent CYP3A inhibitors, or other phosphodiesterase-5 inhibitors. Teach patients to seek medical attention for vision loss, hearing loss, or erections lasting longer than 4 h. [Trade only (Revatio): Tabs 20 mg.] ▶L ♀B ▶— \$\$\$\$

TADALAFIL (Adcirca) Pulmonary arterial hypertension: 40 mg PO daily. Contraindicated with nitrates. Coadministration is not recommended with potent CYP3A inhibitors (itraconazole, ketoconazole), potent CYP3A inducers (rifampin), other phosphodiesterase-5 inhibitors. Caution with ritonavir, see PI for specific dose adjustments. Teach patients to seek medical attention for vision loss, hearing loss, or erections lasting longer than 4 h. [Trade only (Adcirca): Tabs 20 mg.] ▶L ♀B ▶— \$\$\$\$

Thrombolytics

ALTEPLASE (tPA, t-PA, Activase, Cathflo, Activase rt-PA) Acute MI: (dose for wt 67 kg or less) give 15 mg IV bolus, then 0.75 mg/kg (max 50 mg) over 30 min, then 0.5 mg/kg (max 35 mg) over the next 60 min; (dose for wt greater than 67 kg) give 15 mg IV bolus, then 50 mg over 30 min, then 35 mg over the next 60; use concurrent heparin infusion. Acute ischemic stroke with symptoms 3 h or less: 0.9 mg/kg (max 90 mg); give 10% of total dose as an IV bolus, and the remainder IV over 60 min. Multiple exclusion criteria. Acute pulmonary embolism: 100 mg IV over 2 h, then restart heparin when PTT twice normal or less. Occluded central venous access device: 2 mg/mL in catheter for 2 h. May use second dose if needed. ▶L ♀C ▶? \$\$\$\$\$

RETEPLASE (Retavase) Acute MI: 10 units IV over 2 min; repeat once in 30 min. ▶L ♀C ▶? \$\$\$\$\$

STREPTOKINASE (Streptase, Kabikinase) Acute MI: 1.5 million units IV over 60 min. ▶L ♀C ▶? \$\$\$\$\$

THROMBOLYTIC THERAPY FOR ACUTE MI

Indications (if high-volume cath lab unavailable): Clinical history & presentation strongly suggestive of MI within 12 h plus ≥ 1 of the following: 1 mm ST elevation in ≥ 2 contiguous leads; new left BBB; or 2 mm ST depression in V1-4 suggestive of true posterior MI.

Absolute contraindications: Previous cerebral hemorrhage, known cerebral aneurysm or arteriovenous malformation, known intracranial neoplasm, recent (< 3 mo) ischemic CVA (except acute ischemic CVA < 3 h), aortic dissection, active bleeding or bleeding diathesis (excluding menstruation), significant closed head or facial trauma (< 3 mo).

Relative contraindications: Severe uncontrolled HTN ($> 180/110$ mm Hg) on presentation or chronic severe HTN; prior ischemic CVA (> 3 mo), dementia, other intracranial pathology; traumatic/prolonged (> 10 min) cardiopulmonary resuscitation; major surgery (< 3 weeks); recent (within 2-4 weeks) internal bleeding; puncture of non-compressible vessel; pregnancy; active peptic ulcer disease; current use of anticoagulants. For streptokinase/anistreplase: prior exposure (> 5 days ago) or prior allergic reaction.

TENECTEPLASE (TNKase) Acute MI: Single IV bolus dose over 5 sec based on body wt; 30 mg for wt less than 60 kg, 35 mg for wt 60 to 69 kg, 40 mg for wt 70 to 79 kg, 45 mg for wt 80 to 89 kg, 50 mg for wt 90 kg or more. ▶L ♀C ▶? \$\$\$\$\$

UROKINASE (Kinlytic) PE: 4400 units/kg IV loading dose over 10 min, followed by IV infusion 4400 units/kg/h for 12 h. Occluded IV catheter: 5000 units instilled into catheter, remove soln after 5 min. ▶L ♀B ▶? \$\$\$\$\$

Volume Expanders

ALBUMIN (Albuminar, Buminat, Albumarc, +Plasbumin) Shock, burns: 500 mL of 5% soln IV infusion as rapidly as tolerated, repeat in 30 min if needed. ▶L ♀C ▶? \$\$\$\$\$

DEXTRAN (Rheomacrodex, Gentran, Macrodex) Shock/hypovolemia: 20 mL/kg up to 500 mL IV. ▶K ♀C ▶? \$\$

HETASTARCH (Hespan, Hextend) Shock/hypovolemia: 500 to 1000 mL IV 6% soln. ▶K ♀C ▶? \$\$

PLASMA PROTEIN FRACTION (Plasmanate, Protenate, Plasmatein) Shock/hypovolemia: 5% soln 250 to 500 mL IV prn. ▶L ♀C ▶? \$\$\$

Other

BIDIL (hydralazine + isosorbide dinitrate) Heart failure (adjunct to standard therapy in patients of African descent): Start 1 tab PO tid, increase as tolerated to max 2 tabs tid. May decrease to ½ tab tid with intolerable side effects; try to increase dose when side effects subside. [Trade only: Tabs, scored 37.5/20 mg.] ▶LK ♀C ▶? \$\$\$\$\$

CILOSTAZOL (Pletal) Intermittent claudication: 100 mg PO bid on empty stomach. 50 mg PO bid with CYP 3A4 inhibitors (eg, ketoconazole, itraconazole, erythromycin, diltiazem) or CYP 2C19 inhibitors (eg, omeprazole). [Generic/Trade: Tabs 50, 100 mg.] ▶L ♀C ▶? \$\$\$\$

NESIRITIDE (Natrecor) Hospitalized patients with decompensated heart failure with dyspnea at rest: 2 mcg/kg IV bolus over 60 sec, then 0.01 mcg/kg/min IV infusion for up to 48 h. Do not initiate at higher doses. Limited experience with increased doses. Mix 1.5 mg vial in 250 mL D5W (6 mcg/mL) a bolus of 23.3 mL is 2 mcg/kg for a 70 kg patient, infusion set at rate 7 mL/h delivers a 0.01 mcg/kg/min for a 70 kg patient. Symptomatic hypotension. May increase mortality. Not indicated for outpatient infusion, for scheduled repetitive use, to improve renal function, or to enhance diuresis. ▶K, plasma ♀C ▶? \$\$\$\$\$

PENTOXIFYLLINE (Trental) 400 mg PO tid with meals. [Generic/Trade: Tabs, extended-release 400 mg.] ▶L ♀C ▶? \$\$\$

RANOLAZINE (Ranexa) Chronic angina: 500 mg PO bid, max 1000 mg bid. Baseline and follow-up ECGs; may prolong QT interval. Contraindicated with clinically significant hepatic impairment, potent CYP3A4 inhibitors, CYP3A inducers. Max 500 mg bid, if used with diltiazem, verapamil, or moderate CYP3A inhibitors. [Trade only: Tabs, extended-release 500, 1000 mg.] ▶LK ♀C ▶? \$\$\$\$\$

CONTRAST MEDIA

MRI Contrast—Gadolinium-based

NOTE Avoid gadolinium-based contrast agents if severe renal insufficiency (GFR <30 mL/min/1.73 m²) due to risk of nephrogenic systemic fibrosis/nephrogenic fibrosing dermopathy. Similarly avoid in acute renal insufficiency of any severity due to hepatorenal syndrome or during the perioperative phase of liver transplant.

- GADOBENATE (MultiHance)** Non-iodinated, non-ionic IV contrast for MRI. ▶K ♀C ▶? \$\$\$\$
- GADODIAMIDE (Omniscan)** Non-iodinated, non-ionic IV contrast for MRI. ▶K ♀C ▶? \$\$\$\$
- GADOPENTETATE (Magnevist)** Non-iodinated IV contrast for MRI. ▶K ♀C ▶? \$\$\$
- GADOTERIDOL (Prohance)** Non-iodinated, non-ionic IV contrast for MRI. ▶K ♀C ▶? \$\$\$\$
- GADOVERSETAMIDE (OptiMARK)** Non-iodinated IV contrast for MRI. ▶K ♀C ▶— \$\$\$\$

MRI Contrast—Other

- FERUMOXIDES (Feridex)** Non-iodinated, non-ionic, iron-based IV contrast for hepatic MRI. ▶L ♀C ▶? \$\$\$\$
- FERUMOXIL (GastroMARK)** Non-iodinated, non-ionic, iron-based, oral GI contrast for MRI. ▶L ♀B ▶? \$\$\$\$
- MANGAFODIPIR (Teslascan)** Non-iodinated manganese-based IV contrast for MRI. ▶L ♀—▶— \$\$\$\$

Radiography Contrast

NOTE Beware of allergic or anaphylactoid reactions. Avoid IV contrast in renal insufficiency or dehydration. Hold metformin (Glucophage) prior to or at the time of iodinated contrast dye use and for 48 h after procedure. Restart after procedure only if renal function is normal.

- BARIUM SULFATE** Non-iodinated GI (eg, oral, rectal) contrast. ▶Not absorbed ♀? ▶+ \$
- DIATRIZOATE (Cystografin, Gastrografen, Hypaque, MD-Gastroview, RenoCal, Reno-DIP, Reno-60, Renografin)** Iodinated, ionic, high osmolality IV or GI contrast. ▶K ♀C ▶? \$
- IODIXANOL (Visipaque)** Iodinated, non-ionic, iso-osmolar IV contrast. ▶K ♀B ▶? \$\$\$
- IOHEXOL (Omnipaque)** Iodinated, non-ionic, low osmolality IV and oral/body cavity contrast. ▶K ♀B ▶? \$\$\$
- IOPAMIDOL (Isovue)** Iodinated, non-ionic, low osmolality IV contrast. ▶K ♀? ▶? \$
- IOPROMIDE (Ultravist)** Iodinated, non-ionic, low osmolality IV contrast. ▶K ♀B ▶? \$\$\$

- IOTHALAMATE** (*Conray*, \clubsuit *Vascoray*) Iodinated, ionic, high osmolality IV contrast. \blacktriangleright K $\text{\textcircled{F}}$ $\text{\textcircled{B}}$ $\text{\textcircled{D}}$ —\$
- IOVERSOL** (*Optiray*) Iodinated, non-ionic, low osmolality IV contrast. \blacktriangleright K $\text{\textcircled{F}}$ $\text{\textcircled{B}}$ $\text{\textcircled{D}}$? \$\$
- IOXAGLATE** (*Hexabrix*) Iodinated, ionic, low osmolality IV contrast. \blacktriangleright K $\text{\textcircled{F}}$ $\text{\textcircled{B}}$ $\text{\textcircled{D}}$ —\$\$\$
- IOXILAN** (*Oxilan*) Iodinated, non-ionic, low osmolality IV contrast. \blacktriangleright K $\text{\textcircled{F}}$ $\text{\textcircled{B}}$ $\text{\textcircled{D}}$ —\$\$\$

DERMATOLOGY

Acne Preparations

- ACANYA** (clindamycin + benzoyl peroxide) Apply qd. [Trade only: Gel (clindamycin 1.2% + benzoyl peroxide 2.5%) 50 g.] \blacktriangleright K $\text{\textcircled{F}}$ $\text{\textcircled{C}}$ $\text{\textcircled{D}}$ + \$\$\$\$
- ADAPALENE** (*Differin*) Apply qhs. [Trade only: Gel 0.1%, 0.3% (45 g), Cream 0.1% (45 g), Soln 0.1% (30 mL), Swabs 0.1% (60 ea).] \blacktriangleright Bile $\text{\textcircled{F}}$ $\text{\textcircled{C}}$ $\text{\textcircled{D}}$? \$\$\$\$
- AZELAIC ACID** (*Azelex*, *Finacea*, *Finevin*) Apply bid. [Trade only: Cream 20%, 30, 50 g (Azelex), Gel 15% 50 g (Finacea).] \blacktriangleright K $\text{\textcircled{F}}$ $\text{\textcircled{B}}$ $\text{\textcircled{D}}$? \$\$\$\$
- BENZACLIN** (clindamycin + benzoyl peroxide) Apply bid. [Trade only: Gel (clindamycin 1% + benzoyl peroxide 5%) 25, 50 g (jar), 50 g (pump).] \blacktriangleright K $\text{\textcircled{F}}$ $\text{\textcircled{C}}$ $\text{\textcircled{D}}$ + \$\$\$\$
- BENZAMYCIN** (erythromycin base + benzoyl peroxide) Apply bid. [Generic/Trade: Gel (erythromycin 3% + benzoyl peroxide 5%) 23.3, 46.6 g. Trade only: Benzamycin Pak, #60 gel pouches.] \blacktriangleright LK $\text{\textcircled{F}}$ $\text{\textcircled{C}}$ $\text{\textcircled{D}}$? \$\$\$
- BENZOYL PEROXIDE** (*Benzac*, *Benzagel 10%*, *Desquam*, *Clearasil*, \clubsuit *Solugel*, *Benoxyl*) Apply daily; increase to bid to tid if needed. [OTC and Rx generic: Liquid 2.5, 5 mL, 10%. Bar 5 g, 10%. Mask 5%. Lotion 4, 5, 8 g, 10%. Cream 5 g, 10%. Gel 2.5, 4, 5, 6, 10, 20%. Pad 3, 4, 6, 8, 9%, other strengths available.] \blacktriangleright LK $\text{\textcircled{F}}$ $\text{\textcircled{C}}$ $\text{\textcircled{D}}$? \$
- CLENIA** (sulfacetamide + sulfur) Apply daily to tid. [Generic only: Lotion (sodium sulfacetamide 10%/sulfur 5%) 25, 30, 45, 60 g. Trade only: Cream (sodium sulfacetamide 10%/sulfur 5%) 28 g. Generic/Trade: Foaming wash 170, 340 g.] \blacktriangleright K $\text{\textcircled{F}}$ $\text{\textcircled{C}}$ $\text{\textcircled{D}}$? \$\$\$
- CLINDAMYCIN—TOPICAL** (*Cleocin T*, *Clindagel*, *ClindaMax Vaginal*, *Evoclin*, \clubsuit *Dalacin T*) Apply daily (Evoclin, Clindagel, Clindamax) or bid (Cleocin T). [Generic/Trade: Gel 1% 30, 60 g, Lotion 1% 60 mL, Soln 1% 30, 60 mL. Trade only: Foam 1% 50, 100 g (Evoclin), Gel 1% 40, 75 mL (Clindagel).] \blacktriangleright L $\text{\textcircled{F}}$ $\text{\textcircled{B}}$ $\text{\textcircled{D}}$ —\$
- DIANE-35** (cyproterone + ethinyl estradiol) Canada only. 1 tab PO daily for 21 consecutive days, stop for 7 days, repeat cycle. [Canada Generic/Trade: Blister pack of 21 tabs 2 mg cyproterone acetate/0.035 mg ethinyl estradiol.] \blacktriangleright L $\text{\textcircled{F}}$ $\text{\textcircled{X}}$ $\text{\textcircled{D}}$ —\$\$
- DUAC** (clindamycin + benzoyl peroxide) (\clubsuit Clindoxyl) Apply qhs. [Trade only: Gel (clindamycin 1% + benzoyl peroxide 5%) 45 g.] \blacktriangleright K $\text{\textcircled{F}}$ $\text{\textcircled{C}}$ $\text{\textcircled{D}}$ + \$\$\$\$
- EPIDUO** (adapalene + benzoyl peroxide) Apply qd. [Trade only: Gel (0.1% adapalene + benzoyl peroxide 2.5%) 45 g.] \blacktriangleright Bile K $\text{\textcircled{F}}$ $\text{\textcircled{C}}$ $\text{\textcircled{D}}$? \$\$\$\$\$

ERYTHROMYCIN—TOPICAL (*Eryderm, Erycette, Erygel, A/T/S, ♣Sans-Acne, Erysol*) Apply bid. [Generic/Trade: Soln 2% 60 mL, Pads 2%, Gel 2% 30, 60 g, Ointment 2% 25 g. Generic only: Soln 1.5% 60 mL.] ▶L ♀B ▶? \$

ISOTRETINOIN (*Amnesteem, Claravis, Sotret, ♣Clarus*) 0.5 to 2 mg/kg/day PO divided bid for 15 to 20 weeks. Typical target dose is 1 mg/kg/day. Potent teratogen; use extreme caution. Can only be prescribed by healthcare professionals who are registered with the iPLEDGE program. May cause depression. Not for long-term use. [Generic: Caps 10, 20, 40 mg. Generic only (Sotret and Claravis): Caps 30 mg.] ▶LK ♀X ▶—\$\$\$\$\$

ROSULA (sulfacetamide + sulfur) Apply daily to tid. [Trade only: Gel (sodium sulfacetamide 10%/sulfur 5%) 45 g. Aqueous cleanser (sodium sulfacetamide 10%/sulfur 5%) 355 mL. Soap (sodium sulfacetamide 10%/sulfur 4%) 473 mL.] ▶K ♀C ▶? \$\$\$\$

SALICYLIC ACID (*Akurza, Clearasil Cleanser, Stridex Pads*) Apply/wash area up to tid. [OTC Generic/Trade: Pads, Gel, Lotion, Liquid, Mask scrub, 0.5%, 1%, 2%. Rx Trade only (Akurza): Cream 6% 340 g. Lotion 6%, 355 mL.] ▶Not absorbed ♀? ▶? \$

SULFACETAMIDE—TOPICAL (*Klaron, Rosula NS*) Apply bid. [Generic/Trade (Klaron): Lotion 10% 118 mL. Trade only: Single-use pads 10%, 30 ea. (Rosula NS).] ▶K ♀C ▶? \$\$\$\$

SULFACET-R (sulfacetamide + sulfur) Apply daily to tid. [Generic/Trade: Lotion (sodium sulfacetamide 10%/sulfur 5%) 25 g.] ▶K ♀C ▶? \$\$\$

TAZAROTENE (*Tazorac, Avage*) Acne (Tazorac): apply 0.1% cream qhs. Psoriasis: apply 0.05% cream qhs, increase to 0.1% prn. [Trade only (Tazorac): Cream 0.05% and 0.1% 30, 60 g. Gel 0.05% and 0.1% 30, 100 g. Trade only (Avage): Cream 0.1% 15, 30 g.] ▶L ♀X ▶? \$\$\$\$

TRETINOIN—TOPICAL (*Retin-A, Retin-A Micro, Renova, Retisol-A, ♣Stieva-A, Rejuva-A, Vitamin A Acid Cream*) Apply qhs. [Generic/Trade: Cream 0.025% 20, 45 g, 0.05% 20, 45 g, 0.1% 20, 45 g, Gel 0.025% 15, 45 g, 0.1% 15, 45 g. Trade only: Renova cream 0.02% 40, 60 g, Retin-A Micro gel 0.04%, 0.1% 20, 45, 50 g.] ▶LK ♀C ▶? \$\$\$

ZIANA (clindamycin + tretinoin) Apply qhs. [Trade only: Gel clindamycin 1.2% + tretinoin 0.025% 30, 60 g.] ▶LK ♀C ▶? \$\$\$\$

Actinic Keratosis Preparations

DICLOFENAC—TOPICAL (*Solaraze, Voltaren*) Solaraze: Actinic/solar keratoses: apply bid to lesions for 60 to 90 days. Voltaren: Osteoarthritis of areas amenable to topical therapy: 2 g (upper extremities) to 4 g (lower extremities) qid. [Trade only: Gel 3% 50 g (Solaraze), 100 g (Solaraze, Voltaren).] ▶L ♀B ▶? \$\$\$\$

FLUOROURACIL—TOPICAL (*5-FU, Carac, Efudex, Fluoroplex*) Actinic keratoses: apply bid for 2 to 6 weeks. Superficial basal cell carcinomas: apply 5% cream/soln bid. [Trade only: Cream 0.5% 30 g (Carac), 5% 25 g (Efudex), 1% 30 g (Fluoroplex). Generic/Trade: Soln 2%, 5% 10 mL (Efudex). Cream 5% 40 g.] ▶L ♀X ▶—\$\$\$

METHYLAMINOLEVULINATE (*Metvix, Metvixia*) Apply cream to non-hyperkeratotic actinic keratoses lesion and surrounding area on face or

(cont.)

scalp; cover with dressing for 3 h; remove dressing and cream and perform illumination therapy. Repeat in 7 days. [Trade only: Cream 16.8%, 2 g tube.] ▶Not absorbed ♀C ▶?

Antibacterials (Topical)

BACITRACIN (➔ *Baciguent*) Apply daily to tid. [OTC Generic/Trade: Ointment 500 units/g 1, 15, 30 g.] ▶Not absorbed ♀C ▶? \$

FUSIDIC ACID—TOPICAL (➔ *Fucidin*) Canada only. Apply tid to qid. [Canada trade only: Cream 2% fusidic acid 5, 15, 30 g. Ointment 2% sodium fusidate 5, 15, 30 g.] ▶L ♀? ▶? \$

GENTAMICIN—TOPICAL (*Garamycin*) Apply tid to qid. [Generic only: Ointment 0.1% 15, 30 g. Cream 0.1% 15, 30 g.] ▶K ♀D ▶? \$

MAFENIDE (*Sulfamylon*) Apply daily to bid. [Trade only: Cream 57, 114, 454 g. Topical soln 5% 50 g packets.] ▶LK ♀C ▶? \$\$

METRONIDAZOLE—TOPICAL (*Noritate, MetroCream, MetroGel, MetroLotion, ➔ Rosasol*) Rosacea: Apply daily (1%) or bid (0.75%). [Trade only: Gel (MetroGel) 1% 45, 60 g. Cream (Noritate) 1% 60 g. Generic/Trade: Gel 0.75% 45 g. Cream 0.75% 45 g. Lotion (MetroLotion) 0.75% 59 mL.] ▶KL ♀B (– in first trimester) ▶– \$\$\$

MUPIROCIN (*Bactroban, Centany*) Impetigo/infected wounds: Apply tid. Nasal methicillin-resistant S aureus eradication: 0.5 g in each nostril bid for 5 days. [Generic/Trade: Ointment 2% 22 g. Nasal ointment 2% 1 g single-use tubes (for MRSA eradication). Trade only: Cream 2% 15, 30 g.] ▶Not absorbed ♀B ▶? \$\$

NEOSPORIN CREAM (neomycin + polymyxin + bacitracin) Apply daily to tid. [OTC Trade only: neomycin 3.5 mg/g + polymyxin 10,000 units/g 15 g and unit dose 0.94 g.] ▶K ♀C ▶? \$

NEOSPORIN OINTMENT (bacitracin + neomycin + polymyxin) Apply daily to tid. [OTC Generic/Trade: bacitracin 400 units/g + neomycin 3.5 mg/g + polymyxin 5000 units/g 15, 30 g and “to go” 0.9 g packets.] ▶K ♀C ▶? \$

POLYSPORIN (bacitracin + polymyxin) (➔ Polytopic) Apply ointment/aerosol/powder daily to tid. [OTC Trade only: Ointment 15, 30 g and unit dose 0.9 g, Powder 10 g.] ▶K ♀C ▶? \$

RETAPAMULIN (*Altabax*) Impetigo: apply bid for 5 days. [Trade only: Ointment 1% 5, 10, 15 g.] ▶Not absorbed ♀B ▶? \$\$\$

SILVER SULFADIAZINE (*Silvadene, ➔ Dermazin, Flamazine, SSD*) Apply daily to bid. [Generic/Trade: Cream 1% 20, 50, 85, 400, 1000 g.] ▶LK ♀B ▶– \$\$

Antifungals (Topical)

BUTENAFINE (*Lotrimin Ultra, Mentax*) Apply daily to bid. [Rx Trade only: Cream 1% 15, 30 g (Mentax). OTC Trade only: Cream 1% 12, 24 g (Lotrimin Ultra).] ▶L ♀B ▶? \$

CICLOPIROX (*Loprox, Penlac, ➔ Stieprox shampoo*) Cream, lotion: apply bid. Nail soln: apply daily to affected nails; apply over previous coat; remove with alcohol every 7 days. Seborrheic dermatitis (Loprox shampoo): Shampoo

(cont.)

- twice weekly for 4 weeks. [Trade only: Shampoo (Loprox) 1% 120 mL. Generic/Trade: Gel 0.77% 30, 45, 100 g. Nail soln (Penlac) 8% 6.6 mL. Cream (Loprox) 0.77% 15, 30, 90 g. Lotion (Loprox TS) 0.77% 30, 60 mL.] ▶K ♀B ▶? \$\$\$\$
- CLOTRIMAZOLE—TOPICAL** (*Lotrimin AF, Mycelex, Canesten, Clotrimaderm*) Apply bid. [Note that Lotrimin brand cream, lotion, soln are clotrimazole, while Lotrimin powders and liquid spray are miconazole. Rx Generic only: Cream 1% 15, 30, 45 g. Soln 1% 10, 30 mL. OTC Trade only (Lotrimin AF): Cream 1% 12, 24 g. Soln 1% 10 mL.] ▶L ♀B ▶? \$
- ECONAZOLE** Tinea pedis, cruris, corporis, tinea versicolor: apply daily. Cutaneous candidiasis: apply bid. [Generic only: Cream 1% 15, 30, 85 g.] ▶Not absorbed ♀C ▶? \$\$
- KETOCONAZOLE—TOPICAL** (*Extina, Nizoral, Xolegel, Ketoderm*) Tinea/candidal infections: apply daily. Seborrheic dermatitis: apply cream daily to bid for 4 weeks or gel daily for 2 weeks or foam bid for 4 weeks. Dandruff: apply 1% shampoo twice a week. Tinea versicolor: apply shampoo to affected area, leave on for 5 min, rinse. [Generic/Trade: Cream 2% 15, 30, 60 g. Shampoo 2% 120 mL. Trade only: Shampoo 1% 120, 210 mL (OTC Nizoral). Gel 2% 15 g (Xolegel). Foam 2% 50, 100 g (Extina).] ▶L ♀C ▶? \$\$
- MICONAZOLE—TOPICAL** (*Micatin, Lotrimin AF, ZeaSorb AF*) Tinea candida: apply bid. [Note that Lotrimin brand cream, lotion, soln are clotrimazole, while Lotrimin powders and liquid spray are miconazole. OTC Trade only: Powder 2% 70, 160 g, Spray powder 2% 90, 100, 140 g, Spray liquid 2% 90, 105 mL, Gel 2% 24 g.] ▶L ♀ + ▶? \$
- NAFTIFINE** (*Naftin*) Tinea: apply daily (cream) or bid (gel). [Trade only: Cream 1% 15, 30, 60, 90 g. Gel 1% 20, 40, 60, 90 g.] ▶LK ♀B ▶? \$\$\$\$
- NYSTATIN—TOPICAL** (*Mycostatin, Nilstat, Nyaderm, Candistatin*) Candidiasis: apply bid to tid. [Generic/Trade: Cream, Ointment 100,000 units/g 15, 30 g. Powder 100,000 units/g 15, 30, 60 g.] ▶Not absorbed ♀C ▶? \$
- OXICONAZOLE** (*Oxistat, Oxizole*) Tinea pedis, cruris, and corporis: apply daily to bid. Tinea versicolor (cream only): apply daily. [Trade only: Cream 1% 15, 30, 60 g, Lotion 1% 30 mL.] ▶? ♀B ▶? \$\$\$\$
- SERTACONAZOLE** (*Ertaczo*) Tinea pedis: apply bid. [Trade only: Cream 2% 30, 60 g.] ▶Not absorbed ♀C ▶? \$\$\$\$
- TERBINAFINE—TOPICAL** (*Lamisil, Lamisil AT*) Tinea: apply daily to bid. [OTC Trade only (Lamisil AT): Cream 1% 12, 24 g. Spray pump soln 1% 30 mL. Gel 1% 6, 12 g.] ▶L ♀B ▶? \$
- TOLNAFTATE** (*Tinactin*) Apply bid. [OTC Generic/Trade: Cream 1% 15, 30 g. Soln 1% 10 mL. Powder 1% 45 g. OTC Trade only: Gel 1% 15 g. Powder 1% 90 g. Spray powder 1% 100, 133, 150 g. Spray liquid 1% 100, 113 mL.] ▶? ♀? ▶? \$

Antiparasitics (Topical)

- A-200** (pyrethrins + piperonyl butoxide) (*R&C*) Lice: apply shampoo, wash after 10 min. Reapply in 5 to 7 days. [OTC Generic/Trade: Shampoo (0.33% pyrethrins, 4% piperonyl butoxide) 60, 120 mL.] ▶L ♀C ▶? \$

CROTAMITON (*Eurax*) Scabies: apply cream/lotion topically from chin to feet, repeat in 24 h, bathe 48 h later. Pruritus: Massage prn. [Trade only: Cream 10% 60 g. Lotion 10% 60, 480 mL.] ▶? ♀C ▶? \$\$\$

LINDANE (✚*Hexit*) Other drugs preferred. Scabies: apply 30 to 60 mL of lotion, wash after 8 to 12 h. Lice: 30 to 60 mL of shampoo, wash off after 4 min. Can cause seizures in epileptics or if overused/misused in children. Not for infants. [Generic only: Lotion 1% 60, 480 mL. Shampoo 1% 60, 480 mL.] ▶L ♀B ▶? \$

MALATHION (*Ovide*) Apply to dry hair, let dry naturally, wash off in 8 to 12 h. [Generic/Trade: Lotion 0.5% 59 mL.] ▶? ♀B ▶? \$\$\$\$

PERMETHRIN (*Elimite, Acticin, Nix, ✚Kwellada-P*) Scabies: apply cream from head (avoid mouth/nose/eyes) to soles of feet & wash after 8 to 14 h. 30 g is typical adult dose. Lice: Saturate hair and scalp with 1% rinse, wash after 10 min. Do not use in age younger than 2 mo. May repeat therapy in 7 days, as necessary. [Generic/Trade: Cream (Elimite, Acticin) 5% 60 g. OTC Generic/Trade: Liquid creme rinse (Nix) 1% 60 mL.] ▶L ♀B ▶? \$\$\$

RID (pyrethrins + piperonyl butoxide) Lice: apply shampoo/mousse, wash after 10 min. Reapply in 5 to 10 days. [OTC Generic/Trade: Shampoo 60, 120, 240 mL. OTC Trade only: Mousse 5.5 oz.] ▶L ♀C ▶? \$

Antipsoriatics

ACITRETIN (*Soriatane*) 25 to 50 mg PO daily. Avoid pregnancy during therapy and for 3 years after discontinuation. [Trade only: Caps 10, 25 mg.] ▶L ♀X ▶— \$\$\$\$\$

ALEFACEPT (*Amevive*) 7.5 mg IV or 15 mg IM once a week for 12 doses. May repeat with 1 additional 12-week course after 12 weeks have elapsed since last dose. ▶? ♀B ▶? \$\$\$\$\$

ANTHRALIN (*Drithocrema, ✚Anthrascalp, Anthranol, Anthraforte, Dithranol*) Apply daily. Short contact periods (ie, 15 to 20 min) followed by removal may be preferred. [Trade only: Cream 0.5, 1% 50 g.] ▶? ♀C ▶— \$\$\$

CALCIPOTRIENE (*Dovonex*) Apply bid. [Trade only: Ointment 0.005% 30, 60, 100 g, Cream 0.005% 30, 60, 100 g. Generic/Trade: Scalp soln 0.005% 60 mL.] ▶L ♀C ▶? \$\$\$\$

TACLONEX (calcipotriene + betamethasone) Apply daily for up to 4 weeks. [Trade only: Ointment (calcipotriene 0.005% + betamethasone dipropionate 0.064%) 15, 30, 60, 100 g. Topical susp 15, 30, 60 g.] ▶L ♀C ▶? \$\$\$\$\$

Antivirals (Topical)

ACYCLOVIR—TOPICAL (*Zovirax*) Herpes genitalis: Apply ointment q 3 h (6 times per day) for 7 days. Recurrent herpes labialis: Apply cream 5 times per day for 4 days. [Trade only: Ointment 5% 15 g, Cream 5% 2, 5 g.] ▶K ♀C ▶? \$\$\$\$\$

DOCOSANOL (*Abreva*) Oral-facial herpes (cold sores): Apply 5 times per day until healed. [OTC Trade only: Cream 10% 2 g.] ▶Not absorbed ♀B ▶? \$

IMIQUIMOD (*Aldara*) Genital/perianal warts: Apply 3 times per week overnight for up to 16 weeks. Wash off after 8 h. Non-hyperkeratotic, non-hypertrophic

(cont.)

actinic keratoses on face/scalp in immunocompetent adults: Apply twice a week overnight for 16 weeks. Wash off after 8 h. Primary superficial basal cell carcinoma: Apply 5 times a week for 6 weeks. Wash off after 8 h. [Trade only: Cream 5% single-use packets.] ▶Not absorbed ♀D? \$\$\$\$\$

PENCICLOVIR (*Denavir*) Herpes labialis (cold sores): Apply cream q 2 h while awake for 4 days. [Trade only: Cream 1% tube 1.5 g.] ▶Not absorbed ♀B D? \$\$

PODOFILOX (*Condylox*, *Condylina*, *Wartec*) External genital warts (gel and soln) and perianal warts (gel only): Apply bid for 3 consecutive days of a weeks and repeat for up to 4 weeks. [Generic/Trade: Soln 0.5% 3.5 mL. Trade only: Gel 0.5% 3.5 g.] ▶? ♀C D? \$\$\$\$

PODOPHYLLIN (*Podocon-25*, *Podofin*, *Podofilm*) Warts: Apply by physician. [Not to be dispensed to patients. For hospital/clinic use; not intended for outpatient prescribing. Trade only: Liquid 25% 15 mL.] ▶? ♀-D- \$\$\$

SINECATECHINS (*Veregen*) Apply tid to external genital warts for up to 16 weeks. [Trade only: Ointment 15% 15, 30 g.] ▶Unknown ♀C D? \$\$\$\$\$

Atopic Dermatitis Preparations

PIMECROLIMUS (*Elidel*) Atopic dermatitis: Apply bid. [Trade only: Cream 1% 30, 60, 100 g.] ▶L ♀C D? \$\$\$\$

TACROLIMUS—TOPICAL (*Protopic*) Atopic dermatitis: Apply bid. [Trade only: Ointment 0.03%, 0.1% 30, 60, 100 g.] ▶Minimal absorption ♀C D? \$\$\$\$

Corticosteroid / Antimicrobial Combinations

CORTISPORIN (neomycin + polymyxin + hydrocortisone) Apply bid to qid. [Trade only: Cream 7.5 g, Ointment 15 g.] ▶LK ♀C D? \$\$\$

FUCIDIN H (fusidic acid + hydrocortisone) Canada only. apply tid. [Canada Trade only: Cream (2% fusidic acid, 1% hydrocortisone acetate) 30 g.] ▶L ♀? D? \$\$

LOTRISONE (clotrimazole + betamethasone) (*Lotriderm*) Apply bid. Do not use for diaper rash. [Generic/Trade: Cream (clotrimazole 1% + betamethasone 0.05%) 15, 45 g. Lotion (clotrimazole 1% + betamethasone 0.05%) 30 mL.] ▶L ♀C D? \$\$\$

MYCOLOG II (nystatin + triamcinolone) Apply bid. [Generic only: Cream, Ointment 15, 30, 60, 120, 454 g.] ▶L ♀C D? \$

Hemorrhoid Care

DIBUCAINE (*Nupercainal*) Apply cream/ointment tid to qid prn. [OTC Trade only: Ointment 1% 30, 60 g.] ▶L ♀? D? \$

PRAMOXINE (*Tucks Hemorrhoidal Ointment*, *Fleet Pain Relief*, *Proctofoam NS*) ointment/pads/foam up to 5 times per day prn. [OTC Trade only: Ointment (Tucks Hemorrhoidal Ointment) 30 g. Pads (Fleet Pain Relief) 100 ea. Aerosol foam (ProctoFoam NS) 15 g.] ▶Not absorbed ♀+ D+ \$

STARCH (*Tucks Suppositories*) 1 suppository up to 6 times per day prn. [OTC Trade only: Supps (51% topical starch; vegetable oil, tocopheryl acetate) 12, 24 ea.] ▶Not absorbed ♀+ D+ \$

WITCH HAZEL (*Tucks*) Apply to anus/perineum up to 6 times per day prn. [OTC Generic/Trade: Pads 50% 12, 40, 100 ea, generically available in various quantities.] ▶? ♀ + ▶ + \$

Other Dermatologic Agents

ALITRETINOIN (*Panretin*) Apply bid to qid to cutaneous Kaposi's lesions [Trade only: Gel 0.1% 60 g.] ▶Not absorbed ♀D—\$\$\$\$\$

ALUMINUM CHLORIDE (*Drysol, Certain Dri*) Apply qhs. [Rx Trade only: Soln 20% 37.5 mL bottle, 35, 60 mL bottle with applicator. OTC Trade only (Certain Dri): Soln 12.5% 36 mL bottle.] ▶K ♀? ▶? \$

BECAPLERMIN (*Regranex*) Diabetic ulcers: Apply daily. [Trade only: Gel 0.01%, 2, 15 g.] ▶Minimal absorption ♀C ▶? \$\$\$\$

CALAMINE Apply tid to qid prn for poison ivy/oak or insect bite itching. [OTC Generic only: Lotion 120, 240, 480 mL.] ▶? ♀? ▶? \$

CAPSAICIN (*Zostrix, Zostrix-HP*) Arthritis, post-herpetic or diabetic neuralgia: Apply tid to qid. [OTC Generic/Trade: Cream 0.025% 60 g, 0.075% (HP) 60 g. OTC Generic only: Lotion 0.025% 59 mL, 0.075% 59 mL.] ▶? ♀? ▶? \$

COAL TAR (*Polytar, Tegrin, Cutar, Tarsum*) Apply shampoo at least twice a week, or for psoriasis apply daily to qid. [OTC Generic/Trade: Shampoo, cream, ointment, gel, lotion, liquid, oil, soap.] ▶? ♀? ▶? \$

DOXEPIN—TOPICAL (*Zonalon*) Pruritus: Apply qid for up to 8 days. [Trade only: Cream 5% 30, 45 g.] ▶L ♀B —\$\$\$\$

EFLORNITHINE (*Vaniqa*) Reduction of facial hair: Apply to face bid. [Trade only: Cream 13.9% 30 g.] ▶K ♀C ▶? \$\$\$

EMLA (*prilocaine + lidocaine—topical*) Topical anesthesia: Apply 2.5 g cream or 1 disc to region at least 1 h before procedure. Cover with occlusive dressing. [Generic/Trade: Cream (2.5% lidocaine + 2.5% prilocaine) 5, 30 g.] ▶LK ♀B ▶? \$\$

HYALURONIC ACID (*Bionect, Restylane, Perlane*) Moderate to severe facial wrinkles: Inject into wrinkle/fold (Restylane). Protection of dermal ulcers: Apply gel/cream/spray bid or tid (Bionect). [OTC Trade only: Cream 2% 15, 30 g. Rx Generic/Trade: Soln 3% 30 mL, Gel 4% 30 g, Cream 4% 15, 30, 60 g.] ▶? ♀? ▶? \$\$\$

HYDROQUINONE (*Eldopaque, Eldoquin, Eldoquin Forte, EpiQuin Micro, Esoterica, Glyquin, Lustra, Melanex, Solaquin, Claripel, +Ultraquin*) Hyperpigmentation: Apply bid. [OTC Trade only: Cream 2% 15, 30 g. Rx Generic/Trade: Soln 3% 30 mL. Gel 4% 30 g. Cream 4% 15, 30, 60 g.] ▶? ♀C ▶? \$

LACTIC ACID (*Lac-Hydrin, Amlactin, +Dermalac*) Apply bid. [Trade only: Lotion 12% 150, 360 mL. Generic/OTC: Cream 12% 140, 385 g. AmLactin AP is lactic acid (12%) with pramoxine (1%).] ▶? ♀? ▶? \$\$

LIDOCAINE—TOPICAL (*Xylocaine, Lidoderm, Numby Stuff, LMX, Zingo, +Maxilene*) Apply prn. Dose varies with anesthetic procedure, degree of anesthesia required and individual patient response. Postherpetic neuralgia: Apply up to 3 patches to affected area at once for up to 12 h within a 24 h period. Apply 30 min prior to painful procedure (ELA-Max 4%). Discomfort with anorectal disorders: Apply prn (ELA-Max 5%). Intradermal powder

(cont.)

CORTICOSTEROIDS—TOPICAL

Potency*	Generic	Trade Name	Forms	Frequency
Low	aclometasone dipropionate	Aclovate	0.05% C/O	bid-tid
Low	clocortolone pivalate	Cloderm	0.1% C	tid
Low	desonide	DesOwen, Tridesilon	0.05% C/L/O	bid-tid
Low	hydrocortisone	Hytone, others	0.5% C/L/O; 1% C/L/O; 2.5% C/L/O	bid-qid
Low	hydrocortisone acetate	Cortaid, Corticaïne	0.5% C/O, 1% C/O/Sp	bid-qid
Medium	betamethasone valerate	Luxiq	0.1% C/L/O; 0.12% F (Luxiq)	qd-bid
Medium	desoximetasone‡	Topicort	0.05% C	bid
Medium	fluocinolone	Synalar	0.01% C/S; 0.025% C/O	bid-qid
Medium	flurandrenolide	Cordran	0.025% C/O; 0.05% C/L/O/T	bid-qid
Medium	fluticasone propionate	Cutivate	0.005% O; 0.05% C/L	qd-bid
Medium	hydrocortisone butyrate	Locoid	0.1% C/O/S	bid-tid
Medium	hydrocortisone valerate	Westcort	0.2% C/O	bid-tid
Medium	mometasone furoate	Elocon	0.1% C/L/O	qd
Medium	triamcinolone‡	Aristocort, Kenalog	0.025% C/L/O; 0.1% C/L/O/S	bid-tid
High	amcinonide	Cyclocort	0.1% C/L/O	bid-tid
High	betamethasone dipropionate‡	Maxivate, others	0.05% C/L/O (non-Diprolene)	qd-bid
High	desoximetasone‡	Topicort	0.05% G; 0.25% C/O	bid
High	diflorasone diacetate‡	Maxiflor	0.05% C/O	bid
High	fluocinonide	Lidex	0.05% C/G/O/S	bid-qid
High	halcinonide	Halog	0.1% C/O/S	bid-tid
High	triamcinolone‡	Aristocort, Kenalog	0.5% C/O	bid-tid
Very high	betamethasone dipropionate‡	Diprolene, Diprolene AF	0.05% C/G/L/O	qd-bid
Very high	clobetasol	Temovate, Cormax, Olux	0.05% C/G/O/L/S/Sp/F (Olux)	bid
Very high	diflorasone diacetate‡	Psorcon	0.05% C/O	qd-tid
Very high	halobetasol propionate	Ultravate	0.05% C/O	qd-bid

*Potency based on vasoconstrictive assays, which may not correlate with efficacy. Not all available products are listed, including those lacking potency ratings. ‡These drugs have formulations in more than once potency category. C, cream; O, ointment; L, lotion; T, tape; F, foam; S, solution; G, gel; Sp, spray

injection for venipuncture/IV cannulation, 3 to 18 yo (Zingo): 0.5 mg to site 1 to 10 min prior. [For membranes of mouth and pharynx: Spray 10%, Ointment 5%. Liquid, 5%. Soln 2%, 4%. Dental patch. For urethral use: Jelly 2%. Patch (Lidoderm) 5%. Intradermal powder injection system: 0.5 mg (Zingo). OTC Trade only: Liposomal lidocaine 4% (ELA-Max).] ▶LK ♀B ▶+ \$\$

MINOXIDIL—TOPICAL (Rogaine, Women's Rogaine, Rogaine Extra Strength, Minoxidil for Men, Theroxidil Extra Strength, Minox, Apogain) Androgenetic alopecia in men or women: 1 mL to dry scalp bid. [OTC Generic/Trade: Soln 2% 60 mL (Rogaine, Womens Rogaine). Soln 5% 60 mL (Rogaine Extra Strength, Theroxidil Extra Strength—for men only). Foam 5% 60 g (Rogaine Extra Strength).] ▶K ♀C ▶-\$

MONOBENZONE (Benquin) Extensive vitiligo: Apply bid to tid. [Trade only: Cream 20% 35.4 g.] ▶Minimal absorption ♀C ▶? \$\$\$

OATMEAL (Aveeno) Pruritus from poison ivy/oak, varicella: Apply lotion qid prn. Also bath packets for tub. [OTC Generic/Trade: Lotion, Bath packets.] ▶Not absorbed ♀? ▶? \$

PANAFIL (papain + urea + chlorophyllin copper complex) Debridement of acute or chronic lesions: Apply to clean wound and cover daily to bid. [Trade only: Ointment 6, 30 g, Spray 33 mL.] ▶? ♀? ▶? \$\$\$

PLIAGIS (tetracaine + lidocaine—topical) Apply 20 to 30 min prior to superficial dermatological procedure (60 min for tattoo removal). [Trade only: Cream lidocaine 7% + tetracaine 7%.] ▶Minimal absorption ♀B ▶? \$\$

PRAMOSONE (pramoxine + hydrocortisone) (Pramox HC) Inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses: apply tid to qid. [Trade only: 1% pramoxine/1% hydrocortisone acetate Cream 30, 60 g. Ointment 30 g. Lotion 60, 120, 240 mL. 1% pramoxine/2.5% hydrocortisone acetate Cream 30, 60 g. Ointment 30 g. Lotion 60, 120 mL.] ▶Not absorbed ♀C ▶? \$\$\$

SELENIUM SULFIDE (Selsun, Exsel, Versel) Dandruff, seborrheic dermatitis: Apply 5 to 10 mL lotion/shampoo twice per week for 2 weeks then less frequently, thereafter. Tinea versicolor: Apply 2.5% lotion/shampoo to affected area daily for 7 days. [OTC Generic/Trade: Lotion/Shampoo 1% 120, 210, 240, 325 mL, 2.5% 120 mL. Rx Generic/Trade: Lotion/Shampoo 2.5% 120 mL.] ▶? ♀C ▶? \$

SOLAG (mequinol + tretinoin) (Solage) Apply to solar lentigines bid. [Trade only: Soln 30 mL (mequinol 2% + tretinoin 0.01%).] ▶Not absorbed ♀X ▶? \$\$\$\$

SYNERA (tetracaine + lidocaine—topical) Apply 20 to 30 min prior to superficial dermatological procedure. [Trade only: Topical patch (lidocaine 70 mg + tetracaine 70 mg).] ▶Minimal absorption ♀B ▶? \$\$

TRI-LUMA (fluocinolone + hydroquinone + tretinoin) Melasma of the face: apply qhs for 4 to 8 weeks. [Trade only: Cream 30 g (fluocinolone 0.01% + hydroquinone 4% + tretinoin 0.05%).] ▶Minimal absorption ♀C ▶? \$\$\$\$

VUSION (miconazole—topical + zinc oxide + white petrolatum) Apply to affected diaper area with each change for 7 days. [Trade only: Ointment 50 g.] ▶Minimal absorption ♀C ▶? \$\$\$\$\$

ENDOCRINE & METABOLIC

Androgens / Anabolic Steroids**NOTE** See OB/GYN section for other hormones.

METHYLTESTOSTERONE (*Android, Methitest, Testred, Virilon*) Advancing inoperable breast cancer in women who are 1 to 5 years postmenopausal: 50 to 200 mg/day PO in divided doses. Hypogonadism in men: 10 to 50 mg PO daily. [Generic only: Caps 10 mg, Tabs 10, 25 mg.] ▶L ♀X ▶? ©III \$\$\$

NANDROLONE (♣*Deca-Durabolin*) Anemia of renal disease: Women 50 to 100 mg IM once a week, men 100 to 200 mg IM once a week. [Canada only: Injection 50, 100, 200 mg/mL.] ▶L ♀X ▶- ©III \$\$

OXANDROLONE (*Oxandrin*) Weight gain: 2.5 mg PO bid to qid for 2 to 4 weeks. [Generic/Trade: Tabs 2.5, 10 mg.] ▶L ♀X ▶? ©III \$\$\$\$

TESTOSTERONE (*Androderm, AndroGel, Delatestryl, Depo-Testosterone, Striant, Testim, Testopel, Testro AQ, ♣Andriol*) Injectable enanthate or cypionate: 50 to 400 mg IM q 2 to 4 weeks. Transdermal: Androderm: 5 mg patch to non-scrotal skin qhs. AndroGel 1%: Apply 5 g from gel pack or 4 pumps (5 g) from dispenser daily to shoulders/upper arms/abdomen. Testim: 1 tube (5 g) daily to shoulders/upper arms. Pellet: Testopel: 2 to 6 (150 to 450 mg testosterone) pellets SC q 3 to 6 months. Buccal: Striant: 30 mg q 12 h on upper gum above the incisor tooth; alternate sides for each application. [Trade only: Patch 2.5, 5 mg/24 h (Androderm). Gel 1% 2.5, 5 g packet, 75 g multidose pump (AndroGel). Gel 1%, 5 g tube (Testim). Pellet 75 mg (Testopel). Buccal: Blister packs 30 mg (Striant). Generic/Trade: Injection 100, 200 mg/mL (cypionate), 200 mg/mL (ethanate).] ▶L ♀X ▶? ©III \$\$\$\$

Bisphosphonates

ALENDRONATE (*Fosamax, Fosamax Plus D, ♣Fosavance*) Postmenopausal osteoporosis prevention (5 mg PO daily or 35 mg PO weekly) and treatment (10 mg daily, 70 mg PO weekly, 70 mg/vit D3 2800 international units PO weekly, or 70 mg/vit D3 5600 international units PO weekly). Treatment of glucocorticoid-induced osteoporosis: 5 mg PO daily in men and women or 10 mg PO daily in postmenopausal women not taking estrogen. Treatment of osteoporosis in men: 10 mg PO daily, 70 mg PO weekly, or 70 mg/vit D3 2800 international units PO weekly, or 70 mg/vit D3 5600 international units PO weekly. Paget's disease in men and women: 40 mg PO daily for 6 months. [Generic/Trade (Fosamax): Tabs 5, 10, 35, 40, 70 mg. Trade only: Oral soln 70 mg/75 mL (single-dose bottle). Fosamax Plus D: 70 mg + either 2800 or 5600 units of vitamin D3.] ▶K ♀C ▶- \$\$

CLODRONATE (♣*Ostac, Bonefos*) Canada only. IV single dose, 1500 mg slow infusion over at least 4 h. IV multiple dose, 300 mg slow infusion daily over 2 to 6 h up to 10 days. Oral, following IV therapy, maintenance 1600 to 2400 mg/day in single or divided doses. Max PO dose 3200 mg/day; duration of therapy is usually 6 months. [Generic/Trade: Caps 400 mg.] ▶K ♀D ▶- \$\$\$\$

ETIDRONATE (*Didronel*) Paget's disease: 5 to 10 mg/kg PO daily for 6 months or 11 to 20 mg/kg daily for 3 months. [Generic/Trade: Tabs 200, 400 mg.] ▶K ♀C ▶? \$\$\$\$

IBANDRONATE (*Boniva*) Treatment/Prevention of postmenopausal osteoporosis. Oral: 2.5 mg PO daily or 150 mg PO once a month. IV: 3 mg IV q 3 months. [Trade only: Tabs 2.5, 150 mg.] ▶K ♀C ▶? \$\$\$\$

PAMIDRONATE (*Aredia*) Hypercalcemia of malignancy: 60 to 90 mg IV over 2 to 24 h. Wait at least 7 days before considering retreatment. ▶K ♀D ▶? \$\$\$\$

RISEDRONATE (*Actonel, Actonel Plus Calcium*) Prevention & treatment of postmenopausal osteoporosis: 5 mg PO daily, 35 mg PO weekly, 75 mg PO on 2 consecutive days each month, or 150 mg once a month. Treatment of osteoporosis in men: 35 mg PO weekly. Prevention & treatment of glucocorticoid-induced osteoporosis: 5 mg PO daily. Paget's disease: 30 mg PO daily for 2 months. [Generic/Trade: Tabs 5, 30, 35 mg. Trade only: 75, 150 mg; 35/1250 mg (calcium).] ▶K ♀C ▶? \$\$\$

ZOLEDRONIC ACID (*Reclast, Zometa, ✦Aclasta*) Treatment of osteoporosis: 5 mg (Reclast) once yearly IV infusion over 15 min or longer. Prevention and treatment of glucocorticoid-induced osteoporosis: 5 mg (Reclast) once a year IV infusion over 15 min or longer. Hypercalcemia (Zometa): 4 mg IV infusion over 15 min or longer. Wait at least 7 days before considering retreatment. Paget's disease (Reclast): 5 mg IV single dose. Multiple myeloma and metastatic bone lesions from solid tumors (Zometa): 4 mg IV infusion over 15 min or longer q 3 to 4 weeks. ▶K ♀D ▶? \$\$\$\$

Corticosteroids

NOTE See also dermatology, ophthalmology.

BETAMETHASONE (*Celestone, Celestone Soluspan, ✦Betaject*) Anti-inflammatory/Immunosuppressive: 0.6 to 7.2 mg/day PO divided bid to qid; up to 9 mg/day IM. Fetal lung maturation, maternal antepartum: 12 mg IM q 24 h for 2 doses. [Trade only: Syrup 0.6 mg/5 mL.] ▶L ♀C ▶- \$\$\$\$

CORTISONE (*Cortone*) 25 to 300 mg PO daily. [Generic only: Tabs 5, 10, 25 mg.] ▶L ♀D ▶- \$

DEXAMETHASONE (*Decadron, Dexpak, ✦Dexasone*) Anti-inflammatory/Immunosuppressive: 0.5 to 9 mg/day PO/IV/IM, divided bid to qid. Cerebral edema: 10 to 20 mg IV load, then 4 mg IM q 6 h (off-label IV use common) or 1 to 3 mg PO tid. Bronchopulmonary dysplasia in preterm infants: 0.5 mg/kg PO/IV divided q 12 h for 3 days, then taper. Croup: 0.6 mg/kg PO or IM for one dose. Acute asthma: age older than 2 yo: 0.6 mg/kg to max 16 mg PO daily for 2 days. Fetal lung maturation, maternal antepartum: 6 mg IM q 12 h for 4 doses. Antiemetic, prophylaxis: 8 mg IV or 12 mg PO prior to chemotherapy; 8 mg PO daily for 2 to 4 days. Antiemetic, treatment: 10 to 20 mg PO/IV q 4 to 6 h. [Generic/Trade: Tabs 0.5, 0.75. Generic only: Tabs 0.25, 1.0, 1.5, 2, 4, 6 mg; elixir 0.5 mg/5 mL; Soln 0.5 mg/5 mL, 1 mg/1 mL (concentrate). Trade only: Dexpak 13 days (51 total 1.5 mg tabs for a 13 days taper) Dexpak 6 days (21 total 1.5 mg tabs for 6 days taper).] ▶L ♀C ▶- \$

FLUDROCORTISONE (*Florinef*) Mineralocorticoid activity: 0.1 mg PO 3 times a week to 0.2 mg PO daily. [Generic only: Tabs 0.1 mg.] ▶L ♀C Ⓜ? \$

HYDROCORTISONE (*Cortef, Cortenema, Solu-Cortef*) 100 to 500 mg IV/IM q 2 to 6 h prn (sodium succinate). 20 to 240 mg/day PO divided tid to qid. Ulcerative colitis: 100 mg retention enema qhs (laying on side for 1 h or longer) for 21 days. [Generic/Trade: Tabs 5, 10, 20 mg, Enema 100 mg/60 mL.] ▶L ♀C Ⓜ- \$

METHYLPREDNISOLONE (*Solu-Medrol, Medrol, Depo-Medrol*) Oral (Medrol): Dose varies, 4 to 48 mg PO daily. Medrol Dosepak tapers 24 to 0 mg PO over 7 days. IM/Joints (Depo-Medrol): Dose varies, 4 to 120 mg IM q 1 to 2 weeks. Parenteral (Solu-Medrol): Dose varies, 10 to 250 mg IV/IM. Peds: 0.5 to 1.7 mg/kg PO/IV/IM divided q 6 to 12 h. Acute spinal cord injury: 30 mg/kg IV over 15 min, followed in 45 min by a 5.4 mg/kg/h IV infusion for 23 to 47 h. [Trade only: Tabs 2, 16, 32 mg. Generic/Trade: Tabs 4, 8 mg. Medrol Dosepak (4 mg, 21 tabs).] ▶L ♀C Ⓜ- \$

PREDNISOLONE (*Flo-Pred, Prelone, Pediapred, Orapred, Orapred ODT*) 5 to 60 mg PO daily. [Generic/Trade: Syrup 15 mg/5 mL (Prelone; wild cherry flavor). Soln 5 mg/5 mL (Pediapred, raspberry flavor), 15 mg/5 mL (Orapred; grape flavor). Trade only: Orally disintegrating tabs 10, 15, 30 mg (Orapred ODT); Susp 5 mg/5 mL, 15 mg/5 mL (Flo-Pred; cherry flavor). Generic only: Tabs 5 mg. Syrup 5 mg/5 mL.] ▶L ♀C Ⓜ+ \$\$

PREDNISONE (*Deltasone, Sterapred, Winpred*) 1 to 2 mg/kg or 5 to 60 mg PO daily. [Trade only: Sterapred (5 mg tabs: Tapers 30 to 5 mg PO over 6 days or 30 to 10 mg over 12 days), Sterapred DS (10 mg tabs: Tapers 60 to 10 mg over 6 days, or 60 to 20 mg PO over 12 days) taper packs. Generic only: Tabs 1, 2.5, 5, 10, 20, 50 mg. Soln 5 mg/5 mL, 5 mg/mL (Prednisone Intensol).] ▶L ♀C Ⓜ+ \$

TRIAMCINOLONE (*Aristospan, Kenalog, Trivaris*) 4 to 48 mg PO/IM daily. Intra-articular 2.5 to 40 mg (Kenalog, Trivaris), 2 to 20 mg (Aristospan).

(cont.)

CORTICO- STEROIDS	Approximate Equivalent Dose (mg)	Relative Anti- inflammatory Potency	Relative Mineralocorti- coid Potency	Biological Half-life (h)
betamethasone	0.6–0.75	20–30	0	36–54
cortisone	25	0.8	2	8–12
dexamethasone	0.75	20–30	0	36–54
fludrocortisone	n.a.	10	125	18–36
hydrocortisone	20	1	2	8–12
methylpredni- solone	4	5	0	18–36
prednisolone	5	4	1	18–36
prednisone	5	4	1	18–36
triamcinolone	4	5	0	12–36

n.a., not available.

[Trade only: Injection 10 mg/mL, 40 mg/mL (Kenalog), 5 mg/mL, 20 mg/mL (Aristospan), 8 mg (80 mg/mL) syringe (Trivaris).] ▶L ♀C ▶—\$

Diabetes-Related—Alpha-Glucosidase Inhibitors

ACARBOSE (Precose, + Glucobay) Start 25 mg PO tid with meals, and gradually increase as tolerated to maintenance 50 to 100 mg tid. [Generic/Trade: Tabs 25, 50, 100 mg.] ▶Gut/K ♀B ▶—\$\$\$

MIGLITOL (Glyset) Start 25 mg PO tid with meals, maintenance 50 to 100 tid. [Trade only: Tabs 25, 50, 100 mg.] ▶K ♀B ▶—\$\$\$

Diabetes-Related—Combinations

ACTOPLUS MET (pioglitazone + metformin) 1 tab PO daily or bid. If inadequate control with metformin monotherapy, start 15/500 or 15/850 PO daily or bid. If inadequate control with pioglitazone monotherapy, start 15/500 bid or 15/850 daily. Max 45/2550 mg/day. Obtain LFTs before therapy and periodically thereafter. [Trade only: Tabs 15/500, 15/850 mg.] ▶KL ♀C ▶? \$\$\$\$\$

AVANDAMET (rosiglitazone + metformin) Initial therapy (drug-naïve): Start 2/500 mg PO daily or bid. If inadequate control with metformin alone, select tab strength based on adding 4 mg/day rosiglitazone to existing metformin dose. If inadequate control with rosiglitazone alone, select tab strength based on adding 1000 mg/day metformin to existing rosiglitazone dose. Max 8/2000 mg/day. Obtain LFTs before therapy & periodically thereafter. [Trade only: Tabs 2/500, 4/500, 2/1000, 4/1000 mg.] ▶KL ♀C ▶? \$\$\$\$\$

AVANDARYL (rosiglitazone + glimepiride) Initial therapy (drug-naïve): Start 4/1 mg PO daily. If switching from monotherapy with a sulfonylurea or glitazone, consider 4/2 mg PO daily. Max 8/4 mg/day. Obtain LFTs before therapy & periodically thereafter. [Trade only: Tabs 4/1, 4/2, 4/4, 8/2, 8/4 mg rosiglitazone/glimepiride.] ▶LK ♀C ▶? \$\$\$\$

DUETACT (pioglitazone + glimepiride) Start 30/2 mg PO daily. Start up to 30/4 mg PO daily if prior glimepiride therapy, or 30/2 mg PO daily if prior pioglitazone therapy; max 30/4 mg/day. Obtain LFTs before therapy & periodically thereafter. [Trade only: Tabs 30/2, 30/4 mg pioglitazone/glimepiride.] ▶LK ♀C ▶—\$\$\$\$

GLUCOVANCE (glyburide + metformin) Initial therapy (drug-naïve): Start 1.25/250 mg PO daily or bid with meals; max 10/2000 mg daily. Inadequate control with a sulfonylurea or metformin alone: Start 2.5/500 or 5/500 mg PO bid with meals; max 20/2000 mg daily. [Generic/Trade: Tabs 1.25/250, 2.5/500, 5/500 mg.] ▶KL ♀B ▶? \$\$\$

JANUMET (sitagliptin + metformin) 1 tab PO bid. Individualize based on patient's current therapy. If inadequate control with metformin monotherapy, start 50/500 or 50/1000 bid based on current metformin dose. If inadequate control on sitagliptin, start 50/500 bid. Max 100/2000 mg/day. Give with meals. [Trade only: Tabs 50/500, 50/1000 mg sitagliptin/metformin.] ▶K ♀B ▶? \$\$\$\$

METAGLIP (glipizide + metformin) Initial therapy (drug-naïve): Start 2.5/250 mg PO daily to 2.5/500 mg PO bid with meals; max 10/2000 mg daily. Inadequate control with a sulfonylurea or metformin alone: Start 2.5/500 or

(cont.)

DIABETES NUMBERS*

<u>Criteria for diagnosis:</u> Pre-diabetes: Fasting glucose 100–125 mg/dL Diabetes: † Fasting glucose \geq 126 mg/dL, random glucose with symptoms: \geq 200 mg/dL, or \geq 200 mg/dL 2 h after 75 g oral glucose load	<u>Self-monitoring glucose goals</u>	
	Preprandial	70–130 mg/dL
	Postprandial	<180 mg/dL
A1C goal <7%;		
<u>Critically ill glucose goal <140 mg/dL (surgical pts ideal glucose ~110 mg/dL)</u>		
<u>Estimated average glucose (eAG):</u> eAG (mg/dL) = (28.7 \times A1C) – 46.7		
<u>Complications prevention & management:</u> ASA‡ (75–162 mg/day) in Type 1 & 2 adults for primary prevention (those with an increased cardiovascular risk, including >40 yo or additional risk factors) and secondary prevention (those with vascular disease); statin therapy to achieve 30–40% LDL reduction regardless of baseline LDL (for those with vascular disease, those >40 yo and additional risk factor, or those <40 yo but LDL >100 mg/dL); ACE inhibitor or ARB if hypertensive or micro-/macro-albuminuria; pneumococcal vaccine (revaccinate one time if age \geq 65 and previously received vaccine at age <65 and >5 yr ago). <u>Every visit:</u> Measure wt & BP (goal <130/80 mm Hg); visual foot exam; review self-monitoring glucose record; review/adjust meds; review self-mgmt skills, dietary needs, and physical activity; smoking cessation counseling. <u>Twice a year:</u> A1C in those meeting treatment goals with stable glycemia (quarterly if not); dental exam. <u>Annually:</u> Fasting lipid profile** [goal LDL <100 mg/dL; cardiovascular disease consider LDL <70mg/dL, HDL >40 mg/dL (>50 mg/dL in women), TG <150 mg/dL], q 2 yr with low-risk lipid values; creatinine; albumin to creatinine ratio spot collection; dilated eye exam; flu vaccine; foot exam.		

*See recommendations at: care.diabetesjournals.org. Reference: *Diabetes Care* 2009;32 (Suppl 1):S13–S61. Glucose values are plasma. †Confirm diagnosis with glucose testing on subsequent day. ‡Avoid ASA if <21 yo due to Reye's Syndrome risk; use if <30 yo has not been studied. **LDL is primary target of therapy.

5/500 mg PO bid with meals; max 20/2000 mg daily. [Generic/Trade: Tabs 2.5/250, 2.5/500, 5/500 mg.] ▶KL ♀C ▶? \$\$\$

PRANDIMET (repaglinide + metformin) Initial therapy (drug-naive): Start 1/500 mg PO daily before meals; max 10/2500 mg daily or 4/1000 mg/meal. May start higher if already taking higher coadministered doses of repaglinide and metformin. [Trade: Tabs 1/500, 2/500 mg.] ▶KL ♀C ▶? \$\$\$

Diabetes-Related—“Glitazones” (Thiazolidinediones)

PIOGLITAZONE (Actos) Start 15 to 30 mg PO daily, max 45 mg/day. Monitor LFTs. [Trade only: Tabs 15, 30, 45 mg.] ▶L ♀C ▶— \$\$\$\$

ROSIGLITAZONE (Avandia) Diabetes monotherapy or in combination with metformin or sulfonylurea: Start 4 mg PO daily or divided bid, max 8 mg/day. Obtain LFTs before therapy & periodically thereafter. [Trade only: Tabs 2, 4, 8 mg.] ▶L ♀C ▶— \$\$\$\$

Diabetes-Related—Insulins

INSULIN—INJECTABLE COMBINATIONS (Humalog Mix 75/25, Humalog Mix 50/50, Humulin 70/30, Humulin 50/50, Novolin 70/30, Novolog Mix 70/30, Novolog Mix 50/50) Diabetes: Doses vary, but typically total insulin 0.3 to 1 unit/kg/day SC in divided doses (Type 1), and 0.5 to 1.5 unit/kg/day SC in

(cont.)

divided doses (Type 2). Administer rapid-acting insulin mixtures (Humalog, NovoLog) within 15 min before or immediately after a meal. Administer regular insulin mixtures 30 min before meals. [Trade only: Insulin lispro protamine susp/insulin lispro (Humalog Mix 75/25, Humalog Mix 50/50). Insulin aspart protamine/insulin aspart (Novolog Mix 70/30, Novolog Mix 50/50). NPH and regular mixtures (Humulin 70/30, Novolin 70/30 or Humulin 50/50). Insulin available in pen form: Novolin 70/30 InnoLet, Novolog Mix 70/30, Novolog Mix 50/50, FlexPen, Humulin 70/30, Humalog Mix 75/25 KwikPen, Humalog Mix 50/50 KwikPen.] ▶LK ♀B/C ▶+ \$\$\$\$

INSULIN—INJECTABLE INTERMEDIATE/LONG-ACTING (Novolin N, Humulin N, Lantus, Levemir) Diabetes: Doses vary, but typically total insulin 0.3 to 0.5 unit/kg/day SC in divided doses (Type 1), and 1 to 1.5 unit/kg/day SC in divided doses (Type 2). Generally, 50 to 70% of insulin requirements are provided by rapid or short-acting insulin and the remainder from intermediate- or long-acting insulin. Lantus: Start 10 units SC daily (same time everyday) in insulin-naïve patients. Levemir: Type 2 DM (inadequately controlled on oral meds): Start 0.1 to 0.2 units/kg once daily in evening or 10 units SC daily or BID. [Trade only: Injection NPH (Novolin N, Humulin N). Insulin glargine (Lantus). Insulin detemir (Levemir). Insulin available in pen form: Novolin N InnoLet, Humulin N Pen, Lantus OptiClik (reusable), Lantus SoloStar (prefilled-disposable), Levemir InnoLet, Levemir FlexPen. Premixed preparations of NPH and regular insulin also available.] ▶LK ♀B/C ▶+ \$\$\$\$

INSULIN—INJECTABLE SHORT/RAPID-ACTING (Apidra, Novolin R, NovoLog, Humulin R, Humalog, + NovoRapid) Diabetes: Doses vary, but typically

(cont.)

INJECTABLE INSULINS*		Onset (h)	Peak (h)	Duration (h)
Rapid/short-acting:	Insulin aspart (NovoLog)	<0.2	1–3	3–5
	Insulin glulisine (Apidra)	0.30–0.4	1	4–5
	Insulin lispro (Humalog)	0.25–0.5	0.5–2.5	≤5
	Regular (Novolin R, Humulin R)	0.5–1	2–3	3–6
Intermediate/long-acting:	NPH (Novolin N, Humulin N)	2–4	4–10	10–16
	Insulin detemir (Levemir)	n.a.	flat action profile	up to 23†
	Insulin glargine (Lantus)	2–4	peakless	24
Mixtures:	Insulin aspart protamine susp/ aspart (NovoLog Mix 70/30, NovoLog Mix 50/50)	0.25	1–4 (biphasic)	up to 24
	Insulin lispro protamine susp/ insulin lispro (Humalog Mix 75/25, Humalog Mix 50/50)	<0.25	1–3 (biphasic)	10–20
	NPH/Reg (Humulin 70/30, Humulin 50/50, Novolin 70/30)	0.5–1	2–10 (biphasic)	10–20

*These are general guidelines, as onset, peak, and duration of activity are affected by the site of injection, physical activity, body temperature, and blood supply. † Dose dependent duration of action, range from 6 to 23 h. n.a., not available.

total insulin 0.3 to 0.5 unit/kg/day SC in divided doses (**Type 1**), and 1 to 1.5 unit/kg/day SC in divided doses (**Type 2**). Generally, 50 to 70% of insulin requirements are provided by rapid or short-acting insulin and the remainder from intermediate- or long-acting insulin. Administer rapid-acting insulin (Humalog, NovoLog, Apidra) within 15 min before or immediately after a meal. Administer regular insulin 30 min before meals. **Severe hyperkalemia**: 5 to 10 units regular insulin plus concurrent dextrose IV. **Profound hyperglycemia** (eg, DKA): 0.1 unit regular/kg IV bolus, then initial infusion 100 units regular in 100 mL NS (1 unit/mL), at 0.1 units/kg/h. 70 kg: 7 units/h (7 mL/h). [Trade only: Injection regular (Novolin R, Humulin R). Insulin glulisine (Apidra). Insulin lispro (Humalog). Insulin aspart (NovoLog). Insulin available in pen form: Novolin R InnoLet, Humulin R, Apidra OptiClik, Humalog KwikPen, Novolog FlexPen.] ▶LK ♀B/C ▶+ \$\$\$

Diabetes-Related—Meglitinides

NATEGLINIDE (Starlix) 120 mg PO tid within 30 min before meals; use 60 mg PO tid in patients who are near goal A1C. [Trade only: Tabs 60, 120 mg.] ▶L ♀C ▶? \$\$\$\$

REPAGLINIDE (Prandin, +Gluconorm) Start 0.5 to 2 mg PO tid before meals, maintenance 0.5 to 4 mg tid to qid, max 16 mg/day. [Trade only: Tabs 0.5, 1, 2 mg.] ▶L ♀C ▶? \$\$\$\$

Diabetes-Related—Sulfonylureas—2nd Generation

GLICLAZIDE (+Diamicon, Diamicon MR) Canada only. Immediate-release: Start 80 to 160 mg PO daily, max 320 mg PO daily (160 mg or more per day should be in divided doses). Modified-release: Start 30 mg PO daily, max 120 mg PO daily. [Generic/Trade: Tabs 80 mg (Diamicon). Trade only: Tabs, modified-release 30 mg (Diamicon MR).] ▶KL ♀C ▶? \$

GLIMEPIRIDE (Amaryl) Start 1 to 2 mg PO daily, usual 1 to 4 mg/day, max 8 mg/day. [Generic/Trade: Tabs 1, 2, 4 mg. Generic only: Tabs 3, 6, 8 mg.] ▶LK ♀C ▶- \$\$

GLIPIZIDE (Glucotrol, Glucotrol XL) Start 5 mg PO daily, usual 10 to 20 mg/day, max 40 mg/day (divide bid if more than 15 mg/day). Extended-release: Start 5 mg PO daily, usual 5 to 10 mg/day, max 20 mg/day. [Generic/Trade: Tabs 5, 10 mg; Extended-release tabs 2.5, 5, 10 mg.] ▶LK ♀C ▶? \$

GLYBURIDE (DiaBeta, Glynase PresTab, +Euglucon) Start 1.25 to 5 mg PO daily, usual 1.25 to 20 mg daily or divided bid, max 20 mg/day. Micronized tabs: Start 1.5 to 3 mg PO daily, usual 0.75 to 12 mg/day divided bid, max 12 mg/day. [Generic/Trade: Tabs (scored) 1.25, 2.5, 5 mg. Micronized Tabs (scored) 1.5, 3, 4.5, 6 mg.] ▶LK ♀B ▶? \$

Diabetes-Related—Other

A1C HOME TESTING (Metrika A1CNow) For home A1C testing [Fingerstick blood.] ▶None ♀+ ▶+ \$

DEXTROSE (*Glucose, B-D Glucose, Insta-Glucose, Dex-4*) Hypoglycemia: 0.5 to 1 g/kg (1 to 2 mL/kg) up to 25 g (50 mL) of 50% soln IV. Dilute to 25% for pediatric administration. [OTC Generic/Trade: Chewable tabs 4 g (Dex-4), 5 g (Glucose). Trade only: Oral gel 40%.] ▶L ♀C ▶? \$

EXENATIDE (*Byetta*) Type 2 DM adjunctive therapy when inadequate control on metformin, a sulfonylurea, or a glitazone (alone or in combination): 5 mcg SC bid (within 1 h before the morning and evening meals, or 1 h before the two main meals of the day at least 6 h apart). May increase to 10 mcg SC bid after 1 month. [Trade only: Prefilled pen (60 doses each) 5 mcg/dose, 1.2 mL; 10 mcg/dose, 2.4 mL.] ▶K ♀C ▶? \$\$\$\$\$

GLUCAGON (*Glucagen*) Hypoglycemia: 1 mg IV/IM/SC, onset 5 to 20 min. Diagnostic aid: 1 mg IV/IM/SC. [Trade only: Injection 1 mg.] ▶LK ♀B ▶? \$\$\$

GLUCOSE HOME TESTING (*Accu-Chek Active, Accu-Check Advantage, Accu-Check Aviva, Accu-Check Compact, Accu-Check Compact Plus, Accu-Check Complete, Accu-Check Voicemate, FreeStyle Flash, FreeStyle Freedom, FreeStyle Freedom Lite, FreeStyle Lite, OneTouch Ultra, OneTouch UltraMini, OneTouch UltraSmart, Precision Xtra, ReliOn, Sidekick, True Track Smart System, Clinistix, Clinitest, Diastix, Tes-Tape*) Use for home glucose monitoring. [Plasma: Accu-Check meters, FreeStyle meters, OneTouch meters, Precision Xtra, ReliOn, Sidekick, True Track. Urine: Clinistix, Clinitest, Diastix, Tes-Tape.] ▶None ♀ + ▶ + \$\$

METFORMIN (*Glucophage, Glucophage XR, Glumetza, Fortamet, Riomet*) Diabetes, type 2: Immediate-release: Start 500 mg PO daily to bid or 850 mg PO daily with meals, may gradually increase to max 2550 mg/day. Extended-release: Glucophage XR: 500 mg PO daily with evening meal; increase by 500 mg once a week to max 2000 mg/day (may divide bid). Glumetza: 1000 mg PO daily with evening meal; increase by 500 mg once a week to max 2000 mg/day (may divide bid). Fortamet: 500 to 1000 mg daily with evening meal; increase by 500 mg once a week to max 2500 mg/day. Polycystic ovary syndrome (unapproved, immediate-release): 500 mg PO tid. [Generic/Trade: Tabs 500, 850, 1000 mg, extended-release 500, 750 mg. Trade only, extended-release: Fortamet 500, 1000 mg; Glumetza 500, 1000 mg. Trade only: Oral soln 500 mg/5 mL (Riomet).] ▶K ♀B ▶? \$

PRAMLINTIDE (*Symlin, Symlinpen*) Type 1 DM with mealtime insulin therapy: Initiate 15 mcg SC immediately before major meals and titrate by 15 mcg increments (if significant nausea has not occurred for at least 3 day) to maintenance 30 to 60 mcg as tolerated. Type 2 DM with mealtime insulin therapy: Initiate 60 mcg SC immediately before major meals and increase to 120 mcg as tolerated (if significant nausea has not occurred for 3 to 7 days). [Trade only: 600 mcg/mL in 5 mL vials, 1000 mcg/mL pen injector (Symlinpen) 1.5, 2.7 mL.] ▶K ♀C ▶? \$\$\$\$

SITAGLIPTIN (*Januvia*) Type 2 DM: 100 mg PO daily. [Trade only: Tabs 25, 50, 100 mg.] ▶K ♀B ▶? \$\$\$\$

Diagnostic Agents

COSYNTROPIN (*Cortrosyn, Synacthen*) Rapid screen for adrenocortical insufficiency: 0.25 mg (0.125 mg if age younger than 2 yo) IM/IV over 2 min; measure serum cortisol before and 30 to 60 min after. ▶L ♀C ▶? \$

Gout-Related

ALLOPURINOL (*Aloprim, Zyloprim*) Mild gout or recurrent calcium oxalate stones: 200 to 300 mg PO daily to bid, max 800 mg/day. [Generic/Trade: Tabs 100, 300 mg.] ▶K ♀C D+ \$

COLBENEMID (colchicine + probenecid) 1 tab PO daily for 1 week, then 1 tab PO bid. [Generic only: Tabs 0.5 mg colchicine + 500 mg probenecid.] ▶KL ♀C D? \$

COLCHICINE (*Colcrys*) Rapid treatment of acute gouty arthritis: 2 tabs PO at first sign of attack then 1 tab 1 h later (max 3 tabs). Gout prophylaxis: 0.6 mg PO bid if CrCl \geq 50 mL/min, 0.6 mg PO daily if CrCl 35 to 49 mL/min, 0.6 mg PO q 2 to 3 days if CrCl 10 to 34 mL/min. [Trade only: Tabs 0.6 mg.] ▶L ♀C D? \$

FEBUXOSTAT (*Uloric*) Hyperuricemia with gout: Start 40 mg PO daily, max 80 mg daily. [Trade only: Tabs 40, 80 mg.] ▶LK ♀C D? \$\$\$\$

PROBENECID (↔*Benuryl*) Gout: 250 mg PO bid for 7 days, then 500 mg bid. Adjunct to penicillin injection: 1 to 2 g PO. [Generic only: Tabs 500 mg.] ▶KL ♀B D? \$

Minerals

CALCIUM ACETATE (*PhosLo*) Hyperphosphatemia: Initially 2 tabs/caps PO with each meal. [Generic/Trade: Gelcaps 667 mg (169 mg elem Ca).] ▶K ♀+ D? \$\$\$\$

CALCIUM CARBONATE (*Caltrate, Mylanta Children's, Os-Cal, Oyst-Cal, Tums, Surpass, Viactiv, ↔Calsan*) Supplement: 1 to 2 g elem Ca/day or more PO with meals divided bid to qid. Antacid: 1000 to 3000 mg PO q 2 h prn or 1 to 2 pieces gum chewed prn, max 7000 mg/day. [OTC Generic/Trade: Tabs 500, 650, 750, 1000, 1250, 1500 mg, Chewable tabs 400, 500, 750, 850, 1000, 1177, 1250 mg, Cap 1250 mg, Gum 300, 450 mg, Susp 1250 mg/5 mL. Calcium carbonate is 40% elem Ca and contains 20 mEq of elem Ca/g calcium carbonate. Not more than 500 to 600 mg elem Ca/dose. Available in combination with sodium fluoride, vitamin D and/or vitamin K. Trade examples: Caltrate 600 + D is equivalent to 600 mg elemental Ca/200 units vit D, Os-Cal 500 + D is equivalent to 500 mg elemental Ca/200 units vit D, Os-Cal Extra D is equivalent to 500 mg elemental Ca/400 units vit D, Tums (regular strength) is equivalent to 200 mg elemental Ca, Tums (ultra) is equivalent to 400 mg elemental Ca, Viactiv (chewable) 500 mg elemental Ca + 100 units vit D + 40 mcg vit K.] ▶K ♀+ (? first trimester) D? \$

CALCIUM CHLORIDE 500 to 1000 mg slow IV q 1 to 3 days. [Generic only: Injectable 10% (1000 mg/10 mL) 10 mL ampules, vials, syringes.] ▶K ♀+ D+ \$

CALCIUM CITRATE (*Citracal*) 1 to 2 g elem Ca/day or more PO with meals divided bid to qid. [OTC Trade only (mg elem Ca): 200, 250 mg with 200 units vitamin D and 250 mg with 125 units vitamin D and 80 mg of magnesium. Chewable tabs 500 mg with 200 units vitamin D. OTC Generic/Trade: Tabs 200 mg, 315 mg with 200 units vitamin D.] ▶K ♀+ D+ \$

CALCIUM GLUCONATE 2.25 to 14 mEq slow IV. 500 to 2000 mg PO bid to qid. [Generic only: Injectable 10% (1000 mg/10 mL, 4.65 mEq/10 mL) 1, 10, 50, 100, 200 mL. OTC Generic only: Tabs 50, 500, 650, 975, 1000 mg. Chewable tabs 650 mg.] ▶K ♀+ D+ \$

FERRIC GLUCONATE COMPLEX (Ferrlecit) 125 mg elem iron IV over 10 min or diluted in 100 mL NS IV over 1 h. Peds age 6 yo or older: 1.5 mg/kg (max 125 mg) elem iron diluted in 25 mL NS & administered IV over 1 h. ▶KL ♀B ▶? \$\$\$\$\$

FERROUS GLUCONATE (Fergon) 800 to 1600 mg ferrous gluconate PO divided tid. [OTC Generic/Trade: Tabs 240 mg ferrous gluconate equivalent to 27 mg elem iron. Generic only: Tabs 27, 300, 324, 325 mg.] ▶K ♀ + ▶ + \$

FERROUS SULFATE (Fer-in-Sol, Feosol, ✦Ferodan, Slow-Fe) 500 to 1000 mg ferrous sulfate (100 to 200 mg elem iron) PO divided tid. Liquid: Adults 5 to 10 mL tid, non-infant children 2.5 to 5 mL tid. Many other available formulations. [OTC Generic/Trade (mg ferrous sulfate): Tabs, extended-release 160 mg; tabs 324, 325 mg; gtt 75 mg/0.6 mL. OTC Generic only: Tabs, extended-release 50 mg; elixir 220 mg/5 mL.] ▶K ♀ + ▶ + \$

FERUMOXYTOL (Feraheme) Iron deficiency in chronic kidney disease: Give 510 mg IV push, followed by 510 mg IV push once given 3 to 8 days after initial injection. ▶KL ♀C ▶? \$\$\$\$\$

FLUORIDE (Luride, ✦Fluor-A-Day, Fluotic) Adult dose: 10 mL of topical rinse swish and spit daily. Peds daily dose based on fluoride content of drinking water (table). [Generic only: Chewable tabs 0.5, 1 mg, Tab 1 mg, gtt 0.125 mg, 0.25 mg, and 0.5 mg/dropperful, Lozenges 1 mg, Soln 0.2 mg/mL, Gel 0.1%, 0.5%, 1.23%, Rinse (sodium fluoride) 0.05, 0.1, 0.2%.] ▶K ♀? ▶? \$

IRON DEXTRAN (INFeD, DexFerrum, ✦Dexiron, Infufer) 25 to 100 mg IM daily prn. Equations available to calculate IV dose based on wt & Hb. ▶KL ♀- ▶? \$\$\$\$\$

IRON POLYSACCHARIDE (Niferex, Niferex-150, Nu-Iron 150) 50 to 200 mg PO divided daily to tid. [OTC Trade only: Caps 60 mg (Niferex). OTC Generic/

(cont.)

FLUORIDE SUPPLEMENTATION

Age	<0.3 ppm in drinking water	0.3–0.6 ppm in drinking water	>0.6 ppm in drinking water
0–0.5 yo	none	none	none
0.5–3 yo	0.25 mg PO qd	none	none
3–6 yo	0.5 mg PO qd	0.25 mg PO qd	none
6–16 yo	1 mg PO qd	0.5 mg PO qd	none

IV SOLUTIONS

Solution	Dextrose	Calories/Liter						
		Liter	Na*	K*	Ca*	Cl*	Lactate*	Osm*
0.9 NS	0 g/L	0	154	0	0	154	0	310
LR	0 g/L	9	130	4	3	109	28	273
D5 W	50 g/L	170	0	0	0	0	0	253
D5 0.2 NS	50 g/L	170	34	0	0	34	0	320
D5 0.45 NS	50 g/L	170	77	0	0	77	0	405
D5 0.9 NS	50 g/L	170	154	0	0	154	0	560
D5 LR	50 g/L	179	130	4	2.7	109	28	527

* All given in mEq/L

- Trade: Caps 150 mg (Niferex-150, Nu-Iron 150), liquid 100 mg/5 mL (Niferex). 1 mg iron polysaccharide = 1 mg elemental iron.] ▶K ♀ + ▶ + \$ \$
- IRON SUCROSE (Venofer)** Iron deficiency with hemodialysis: 5 mL (100 mg elem iron) IV over 5 min or diluted in 100 mL NS IV over 15 min or longer. Iron deficiency in non-dialysis chronic kidney disease: 10 mL (200 mg elem iron) IV over 5 min. ▶KL ♀ B ▶? \$\$\$\$
- MAGNESIUM CHLORIDE (Slow-Mag)** 2 tabs PO daily. [OTC Trade only: Enteric coated tab 64 mg. Slow-Mag 64 mg tab equivalent to 64 mg elem magnesium.] ▶K ♀ A ▶ + \$
- MAGNESIUM GLUCONATE (Almora, Magtrate, Maganate, + Maglucate)** 500 to 1000 mg PO divided tid. [OTC Generic only: Tabs 500 mg, liquid 54 mg elem Mg/5 mL.] ▶K ♀ A ▶ + \$
- MAGNESIUM OXIDE (Mag-200, Mag-Ox 400)** 400 to 800 mg PO daily. [OTC Generic/Trade: Caps 140, 250, 400, 420, 500 mg.] ▶K ♀ A ▶ + \$
- MAGNESIUM SULFATE** Hypomagnesemia: 1 g of 20% soln IM q 6 h for 4 doses, or 2 g IV over 1 h (monitor for hypotension). Peds: 25 to 50 mg/kg IV/IM q 4 to 6 h for 3 to 4 doses, max single dose 2 g. Eclampsia: 4 to 6 g IV over 30 min, then 1 to 2 g/h. Drip: 5 g in 250 mL D5W (20 mg/mL), 2 g/h is a rate of 100 mL/h. Preterm labor: 6 g IV over 20 min, then 1 to 3 g/h titrated to decrease contractions. Monitor respirations & reflexes. If needed, may reverse toxic effects with calcium gluconate 1 g IV. Torsades de pointes: 1 to 2 g IV in D5W over 5 to 60 min. ▶K ♀ A ▶ + \$
- PHOSPHORUS (Neutra-Phos, K-Phos)** 1 cap/packet PO qid. 1 to 2 tabs PO qid. Severe hypophosphatemia (eg, <1 mg/dL): 0.08 to 0.16 mmol/kg IV over 6 h. [OTC Trade only: (Neutra-Phos, Neutra-Phos K) tab/cap/packet 250 mg (8 mmol) phosphorus. Rx: Trade only: (K-Phos) tab 250 mg (8 mmol) phosphorus.] ▶K ♀ C ▶? \$
- POTASSIUM (Cena-K) (Effer-K, K+8, K+10, Kaochlor, Kaon, Kaon Cl, Kay Ciel, Kaylixir, K+Care, K+Care ET, K-Dur, K-G Elixir, K-Lease, K-Lor, Klorcon, Klorvess, Klorvess Effervescent, Klotrix, K-Lyte, K-Lyte Cl, K-Norm, Kolyum, K-Tab, K-vescent, Micro-K, Micro-K LS, Slow-K, Ten-K, Tri-K)** IV infusion 10 mEq/h (diluted). 20 to 40 mEq PO daily or bid. [Injectable, many different products in a variety of salt forms (ie, chloride, bicarbonate, citrate, acetate, gluconate), available in tabs, caps, liquids, effervescent tabs, packets. Potassium gluconate is available OTC.] ▶K ♀ C ▶? \$

POTASSIUM (oral forms)

Effervescent Granules: 20 mEq: Klorvess Effervescent, K-vescent

Effervescent Tabs: 25 mEq: Effer-K, K+Care ET, K-Lyte, K-Lyte/Cl, Klor-Con/EF
50 mEq: K-Lyte DS, K-Lyte/Cl 50

Liquids: 20 mEq/15 mL: Cena-K, Kaochlor S-F, K-G Elixir, Kaochlor 10%, Kay Ciel, Kaon, Kaylixir, Klorvess, Kolyum, Potasalan, Twin-K

30 mEq/15 mL: Rum-K 40 mEq/15 mL: Cena-K, Kaon-Cl 20% 45 mEq/15 mL: Tri-K

Powders: 15 mEq/pack: K+Care 20 mEq/pack: Gen-K, K+Care, Kay Ciel, K-Lor, Klor-Con 25 mEq/pack: K+Care, Klor-Con 25

Tabs/Caps: 8 mEq: K+8, Klor-Con 8, Slow-K, Micro-K 10 mEq: K+10, K-Norm, Kaon-Cl 10, Klor-Con 10, Klotrix, K-Tab, K-Dur 10, Micro-K 10 20 mEq: Klor-Con M20, K-Dur 20

ZINC ACETATE (*Galzin*) Dietary supplement: 8 to 12 mg (elemental) daily. Zinc deficiency: 25 to 50 mg (elemental) daily. Wilson's disease: 25 to 50 mg (elemental) tid. [Trade only: Caps 25, 50 mg elemental zinc.] ▶Minimal absorption ♀A ▶—\$\$\$

ZINC SULFATE (*Orazinc, Zincate*) Dietary supplement: 8 to 12 mg (elemental) daily. Zinc deficiency: 25 to 50 mg (elemental) daily. [OTC Generic/Trade: Tabs 66, 110, 200 mg. Rx Generic/Trade: Caps 220 mg.] ▶Minimal absorption ♀A ▶—\$

Nutritionals

BANANA BAG, RALLY PACK Alcoholic malnutrition (one formula): Add thiamine 100 mg + folic acid 1 mg + IV multivitamins to 1 liter NS and infuse over 4 h. Magnesium sulfate 2 g may be added. "Banana bag" and "rally pack" are jargon and not valid drug orders. Specify individual components. ▶KL ♀+ ▶+ \$

FAT EMULSION (*Intralipid, Liposyn*) Dosage varies. ▶L ♀C ▶? \$\$\$\$\$

FORMULAS—INFANT (*Enfamil, Similac, Isomil, Nursoy, ProSobee, Soyalac, Alsoy, Nutramigen Lipil*) Infant meals. [OTC: Milk-based (Enfamil, Similac, SMA) or soy-based (Isomil, Nursoy, ProSobee, Soyalac, Alsoy).] ▶L ♀+ ▶+ \$

LEVOCARNITINE (*Carnitor*) 10 to 20 mg/kg IV at each dialysis session. [Generic/Trade: Tabs 330 mg, Oral soln 1 g/10 mL.] ▶KL ♀B ▶? \$\$\$\$\$

OMEGA-3 FATTY ACID (*fish oil, Lovaza, Promega, Cardio-Omega 3, Sea-Omega, Marine Lipid Concentrate, MAX EPA, SuperEPA 1200*) Hypertriglyceridemia: Lovaza: 4 caps PO daily or divided bid; 2 to 4 g EPA + DHA content daily. Lovaza is only FDA approved fish oil, previously known as Omacor. Marine Lipid Concentrate, Super EPA 1200 mg cap contains EPA 360 mg + DHA 240 mg, daily dose is equivalent to 4 to 8 caps. [Trade only: (Lovaza) 1 g cap (total 840 mg EPA + DHA). Generic/Trade: Caps, shown as EPA + DHA mg content, 240 (Promega Pearls), 300 (Cardio-Omega 3, Max EPA), 320 (Sea-Omega), 400 (Promega), 500 (Sea-Omega), 600 (Marine Lipid Concentrate, SuperEPA 1200), 875 mg (SuperEPA 2000).] ▶L ♀C ▶? \$

Phosphate Binders

LANTHANUM CARBONATE (*Fosrenol*) Hyperphosphatemia in end stage renal disease: Start 1500 mg/day PO in divided doses with meals. Titrate dose q 2 to 3 weeks in increments of 750 mg/day until acceptable serum phosphate is reached. Most will require 1500 to 3000 mg/day to reduce phosphate <6.0 mg/dL. [Trade only: Chewable tabs 500, 750, 1000 mg.] ▶Not absorbed ♀C ▶? \$\$\$\$\$

SEVELAMER (*Renagel, Renvela*) Hyperphosphatemia: 800 to 1600 mg PO tid with meals. [Trade only (Renagel—sevelamer hydrochloride): Tabs 400, 800 mg. (Renvela—sevelamer carbonate): Tabs 800 mg.] ▶Not absorbed ♀C ▶? \$\$\$\$\$

PEDIATRIC REHYDRATION SOLUTIONS

<i>Brand</i>	<i>Glucose</i>	<i>Calories/</i>		<i>Na*</i>	<i>K*</i>	<i>Cl*</i>	<i>Citrate*</i>	<i>Phos*</i>	<i>Ca*</i>	<i>Mg*</i>
		<i>Liter</i>								
CeraLyte 50 (premeasured powder packet)	0 g/L	160		50	20	40	30	0	0	0
CeraLyte 70 (premeasured powder packet)	0 g/L	160		70	20	60	30	0	0	0
CeraLyte 90 (premeasured powder packet)	0 g/L	160		90	20	80	30	0	0	0
Infalyte	30 g/L	140		50	25	45	34	0	0	0
Kao Lectrolyte (premeasured powder packet)	20 g/L	90		50	20	40	30	0	0	0
Lytren (Canada)	20 g/L	80		50	25	45	30	0	0	0
Naturalyte	25 g/L	100		45	20	35	48	0	0	0
Pedialyte and Pedialyte Freezer Pops	25 g/L	100		45	20	35	30	0	0	0
Rehydralyte	25 g/L	100		75	20	65	30	0	0	0
Resol	20 g/L	80		50	20	50	34	5	4	4

* All given in mEq/L

Thyroid Agents

LEVOTHYROXINE (*L-Thyroxine, Levolet, Levo-T, Levothroid, Levoxyl, Novothyrox, Synthroid, Thyro-Tabs, Tirosint, Unithroid, T4, ♦Eltroxin, Euthyrox*) Start 100 to 200 mcg PO daily (healthy adults) or 12.5 to 50 mcg PO daily (elderly or CV disease), increase by 12.5 to 25 mcg/day at 3 to 8 weeks intervals. Usual maintenance dose 100 to 200 mcg/day, max 300 mcg/day. [Generic/Trade: Tabs 25, 50, 75, 88, 100, 112, 125, 137, 150, 175, 200, 300 mcg. Trade only: Caps: 25, 50, 75, 100, 125, 150 mcg in 7 days blister packs, Tabs: 13 mcg (Tirosint).] ▶L ♀A ▶+ \$

LIOTHYRONINE (*T3, Cytomel, Triostat*) Start 25 mcg PO daily, max 100 mcg/day. [Generic/Trade: Tabs 5, 25, 50 mcg.] ▶L ♀A ▶? \$\$

METHIMAZOLE (*Tapazole*) Start 5 to 20 mg PO tid or 10 to 30 mg PO daily, then adjust. [Generic/Trade: Tabs 5, 10. Generic only: Tabs 15, 20 mg.] ▶L ♀D ▶+ \$\$\$

PROPYLTHIOURACIL (*PTU, ♦Propyl Thyracil*) Start 100 mg PO tid, then adjust. Thyroid storm: 200 to 300 mg PO qid, then adjust. [Generic only: Tabs 50 mg.] ▶L ♀D (but preferred over methimazole) ▶+ \$

SODIUM IODIDE I-131 (*Hicon, Iodotope, Sodium Iodide I-131 Therapeutic*) Specialized dosing for hyperthyroidism and thyroid carcinoma. [Generic/Trade: Caps, Oral soln: Radioactivity range varies at the time of calibration. Hicon is a kit containing caps and a concentrated oral soln for dilution and cap preparation.] ▶K ♀X D— \$\$\$\$\$

Vitamins

ASCORBIC ACID (*vitamin C, Redoxon*) 70 to 1000 mg PO daily. [OTC Generic only: Tabs 25, 50, 100, 250, 500, 1000 mg, Chewable tabs 100, 250, 500 mg, Timed-release tabs 500, 1000, 1500 mg, Timed-release caps 500 mg, Lozenges 60 mg, Liquid 35 mg/0.6 mL, Oral soln 100 mg/mL, Syrup 500 mg/5 mL.] ▶K ♀C D? \$

CALCITRIOL (*Rocaltrol, Calcijex*) 0.25 to 2 mcg PO daily. [Generic/Trade: Caps 0.25, 0.5 mcg. Oral soln 1 mcg/mL. Injection 1, 2 mcg/mL.] ▶L ♀C D? \$\$

CYANOCOBALAMIN (*vitamin B12, CaloMist, Nascobal*) Deficiency states: 100 to 200 mcg IM once a month or 1000 to 2000 mcg PO daily for 1 to 2 weeks followed by 1000 mcg PO daily, 500 mcg intranasal weekly (Nascobal: 1 spray 1 nostril once a week), or 50 to 100 mcg intranasal daily (CaloMist: 1 to 2 sprays each nostril daily). [OTC Generic only: Tabs 100, 500, 1000, 5000 mcg; lozenges 100, 250, 500 mcg. Rx Trade only: Nasal spray 500 mcg/spray (Nascobal 2.3 mL), 25 mcg/spray (CaloMist, 18 mL).] ▶K ♀C D+ \$

DIATX (*folic acid + niacinamide + cobalamin + pantothenic acid + pyridoxine + D-biotin + thiamine + ascorbic acid + riboflavin*) 1 tab PO daily. [Trade only: Each tab contains folic acid 5 mg + niacinamide 20 mg + cobalamin 1 mg + pantothenic acid 10 mg + pyridoxine 50 mg + D-biotin 300 mcg + thiamine 1.5 mg + vitamin C 60 mg + riboflavin 1.5 mg. Diatx Fe: Adds 100 mg ferrous fumarate per tab. Diatx Zn adds 25 mg of zinc oxide per tab.] ▶LK ♀? D? \$\$\$

DOXERCALCIFEROL (*Hectorol*) Secondary hyperparathyroidism on dialysis: Oral: 10 mcg PO 3 times a week. May increase every 8 weeks by 2.5 mcg/dose; max 60 mcg/week. IV: 4 mcg IV 3 times a week. May increase dose every 8 weeks by 1 to 2 mcg/dose; max 18 mcg/week. Secondary hyperparathyroidism not on dialysis: Start 1 mcg PO daily, may increase by 0.5 mcg/dose q 2 weeks. Max 3.5 mcg/day. [Trade only: Caps 0.5, 2.5 mcg.] ▶L ♀B D? \$\$\$\$\$

FOLGARD (*folic acid + cyanocobalamin + pyridoxine*) 1 tab PO daily. [OTC Trade only: Folic acid 0.8 mg + cyanocobalamin 0.115 mg + pyridoxine 10 mg tab.] ▶K ♀? D? \$

FOLIC ACID (*folate, Folvite*) 0.4 to 1 mg IV/IM/PO/SC daily. [OTC Generic only: Tabs 0.4, 0.8 mg. Rx Generic 1 mg.] ▶K ♀A D+ \$

FOLTIX (*folic acid + cyanocobalamin + pyridoxine*) 1 tab PO daily. [Trade only: Folic acid 2.5 mg/cyanocobalamin 2 mg/pyridoxine 25 mg tab.] ▶K ♀A D+ \$\$

MULTIVITAMINS (*MVI*) Dose varies with product. Tabs come with and without iron. [OTC and Rx: Many different brands and forms available with and without iron (tabs, caps, chewable tabs, gtt, liquid).] ▶LK ♀+ D+ \$

NEPHROCAPS (ascorbic acid + folic acid + niacin + thiamine + riboflavin + pyridoxine + pantothenic acid + biotin + cyanocobalamin) 1 cap PO daily. If on dialysis, take after treatment. [Generic/Trade: Vitamin C 100 mg/folic acid 1 mg/niacin 20 mg/thiamine 1.5 mg/riboflavin 1.7 mg/pyridoxine 10 mg/pantothenic acid 5 mg/biotin 150 mcg/cyanocobalamin 6 mcg.] ▶K ♀? ▶? \$

NEPHROVITE (ascorbic acid + folic acid + niacin + thiamine + riboflavin + pyridoxine + pantothenic acid + biotin + cyanocobalamin) 1 tab PO daily. If on dialysis, take after treatment. [Generic/Trade: Vitamin C 60 mg/folic acid 1 mg/niacin 20 mg/thiamine 1.5 mg/riboflavin 1.7 mg/pyridoxine 10 mg/pantothenic acid 10 mg/biotin 300 mcg/cyanocobalamin 6 mcg.] ▶K ♀? ▶? \$

NIACIN (*vitamin B3, nicotinic acid, Niacor, Nicolar, Slo-Niacin, Niaspan*) Niacin deficiency: 10 to 500 mg PO daily. Hyperlipidemia: Start 50 to 100 mg PO bid to tid with meals, increase slowly, usual maintenance range 1.5 to 3 g/day, max 6 g/day. Extended-release (Niaspan): Start 500 mg qhs, increase monthly pm up to max 2000 mg. Extended-release formulations not listed here may have greater hepatotoxicity. Titrate slowly and use ASA or NSAID 30 min before niacin doses to decrease flushing reaction. [OTC Generic only: Tabs 50, 100, 250, 500 mg, timed-release cap 125, 250, 400 mg, timed-release tab 250, 500 mg, liquid 50 mg/5 mL. Trade only: 250, 500, 750 mg (Slo-Niacin). Rx: Trade only: Tabs 500 mg (Niacor), Timed-release caps 500 mg, Timed-release tabs 500, 750, 1000 mg (Niaspan, \$\$\$\$).] ▶K ♀C ▶? \$

PARICALCITOL (*Zemlar*) Prevention/treatment of secondary hyperparathyroidism with renal insufficiency: 1 to 2 mcg PO daily or 2 to 4 mcg PO 3 times a week; increase dose by 1 mcg/day or 2 mcg/week until desired PTH level is achieved. Prevention/treatment of secondary hyperparathyroidism with renal failure (CrCl <15 mL/min): PO: To calculate initial dose divide baseline iPTH by 80 and then administer this dose in mcg 3 times a week. To titrate dose based on response, divide recent iPTH by 80 then administer this dose in mcg 3 times a week. IV: 0.04 to 0.1 mcg/kg (2.8 to 7 mcg) IV 3 times a week at dialysis; increase dose by 2 to 4 mcg q 2 to 4 weeks until desired PTH level is achieved. Max dose 0.24 mcg/kg (16.8 mcg). [Trade only: Caps 1, 2, 4 mcg.] ▶L ♀C ▶? \$\$\$\$

PHYTONADIONE (*vitamin K, Mephyton, AquaMephyton*) Single dose of 0.5 to 1 mg IM within 1 h after birth. Excessive oral anticoagulation: Dose varies based on INR. INR 5 to 9: 1 to 2.5 mg PO (up to 5 mg PO may be given if rapid reversal necessary); INR >9 with no bleeding: 5 to 10 mg PO; Serious bleeding & elevated INR: 10 mg slow IV infusion. Adequate daily intake: 120 mcg (males) and 90 mcg (females). [Trade only: Tabs 5 mg.] ▶L ♀C ▶+ \$

PYRIDOXINE (*vitamin B6*) 10 to 200 mg PO daily. INH overdose: 1 g IV/IM over 30 min, repeat until total dose of 1 g for each gram of INH ingested. [OTC Generic only: Tabs 25, 50, 100 mg, timed-release tab 100 mg.] ▶K ♀A ▶+ \$

RIBOFLAVIN (*vitamin B2*) 5 to 25 mg PO daily. [OTC Generic only: Tabs 25, 50, 100 mg.] ▶K ♀A ▶+ \$

THIAMINE (*vitamin B1*) 10 to 100 mg IV/IM/PO daily. [OTC Generic only: Tabs 50, 100, 250, 500 mg, enteric coated tab 20 mg.] ▶K ♀A ▶+ \$

TOCOPHEROL (*vitamin E, Aquasol E*) RDA is 22 units (natural, D₅-alpha-tocopherol) or 33 units (synthetic, D₅,L-alpha-tocopherol) or 15 mg (alpha-

(cont.)

tocopherol). Max recommended 1000 mg (alpha-tocopherol). Antioxidant: 400 to 800 units PO daily. [OTC Generic only: Tabs 200, 400 units, Caps 73.5, 100, 147, 165, 200, 330, 400, 500, 600, 1000 units, gttts 50 mg/mL.] ▶L ♀A ▶? \$
VITAMIN A RDA: 900 mcg RE (retinol equivalents) (males), 700 mcg RE (females). Treatment of deficiency states: 100,000 units IM daily for 3 days, then 50,000 units IM daily for 2 weeks. 1 RE is equivalent to 1 mcg retinol or 6 mcg beta-carotene. Max recommended daily dose 3000 mcg. [OTC Generic only: Caps 10,000, 15,000 units. Trade only: Tabs 5000 units. Rx: Generic: 25,000 units. Trade only: Soln 50,000 units/mL.] ▶L ♀A (C if exceed RDA, X in high doses) ▶+ \$

VITAMIN D (*vitamin D2, ergocalciferol, Calciferol, Drisdol, ♦Osteoforte*) Familial hypophosphatemia (Vitamin D Resistant Rickets): 12,000 to 500,000 units PO daily. Hypoparathyroidism: 50,000 to 200,000 units PO daily. Adequate daily intake adults: 19 to 50 yo: 5 mcg (200 units) ergocalciferol; 51 to 70 yo: 10 mcg (400 units); older than 70 yo: 15 mcg (600 units). [OTC Generic: 200 units, 400 units, 800 units, 1000 units, 2000 units (cap/tab). Trade only: Soln 8000 units/mL. Rx: Trade only: Caps 50,000 units, inj 500,000 units/mL.] ▶L ♀A (C if exceed RDA) ▶+ \$

Other

BROMOCRIPTINE (*Cycloset, Parlodel*) Type 2 DM: 0.8 mg PO qam (within 2 h of waking), may increase weekly by 0.8 mg to max tolerated dose of 1.6 to 4.8 mg. Hyperprolactinemia: Start 1.25 to 2.5 mg PO qhs, then increase every 3 to 7 days to usual effective dose of 2.5 to 15 mg/day, max 40 mg/day. Acromegaly: Usual effective dose is 20 to 30 mg/day, max 100 mg/day. Doses greater than 20 mg/day can be divided bid. Also approved for Parkinson's disease, but rarely used. Take with food to minimize dizziness and nausea. [Generic/Trade: Tabs 2.5 mg. Caps 5 mg.] ▶L ♀B ▶- \$\$\$\$

CABERGOLINE (*Dostinex*) Hyperprolactinemia: 0.25 to 1 mg PO twice a week. [Generic/Trade: Tabs 0.5 mg.] ▶L ♀B ▶- \$\$\$\$

CALCITONIN (*Miacalcin, Fortical, ♦Calcimar, Caltine*) Skin test before using injectable product: 1 unit intradermally and observe for local reaction. Osteoporosis: 100 units SC/IM every other day or 200 units (1 spray) intranasal daily (alternate nostrils). Paget's disease: 50 to 100 units SC/IM daily. Hypercalcemia: 4 units/kg SC/IM q 12 h. May increase after 2 days to max of 8 units/kg q 6 h. [Generic/Trade: Nasal spray 200 units/activation in 3.7 mL bottle (minimum of 30 doses/bottle).] ▶Plasma ♀C ▶? \$\$\$\$

DESMOPRESSIN (*DDAVP, Stimate, ♦Minirin, Octostim*) Diabetes insipidus: 10 to 40 mcg intranasally daily or divided bid to tid, 0.05 to 1.2 mg/day PO or divided bid to tid, or 0.5 to 1 mL/day SC/IV in 2 divided doses. Hemophilia A, von Willebrand's disease: 0.3 mcg/kg IV over 15 to 30 min, or 150 to 300 mcg intranasally. Enuresis: 0.2 to 0.6 mg PO qhs. Not for children younger than 6 yo. [Trade only: Stimate nasal spray 150 mcg/0.1 mL (1 spray), 2.5 mL bottle (25 sprays). Generic/Trade (DDAVP nasal spray): 10 mcg/0.1 mL (1 spray), 5 mL bottle (50 sprays). Note difference in concentration of nasal solns. Rhinal Tube: 2.5 mL bottle with 2 flexible plastic tube applicators with graduation marks for dosing. Generic only: Tabs 0.1, 0.2 mg.] ▶LK ♀B ▶? \$\$\$\$

SODIUM POLYSTYRENE SULFONATE (*Kayexalate*) Hyperkalemia: 1 g/kg up to 15 to 60 g PO or 30 to 50 g retention enema (in sorbitol) q 6 h prn. Irrigate with tap water after enema to prevent necrosis. [Generic only: Susp 15 g/60 mL. Powdered resin.] ▶Fecal excretion ♀C ▶? \$\$\$\$

SOMATROPIN (*human growth hormone, Genotropin, Humatrope, Norditropin, Norditropin NordiFlex, Nutropin, Nutropin AQ, Nutropin Depot, Omnitrope, Protropin, Serostim, Serostim LQ, Saizen, Tev-Tropin, Valtropin, Zorbtive*) Dosages vary by indication and product. [Single-dose vials (powder for injection with diluent). Tev-Tropin: 5 mg vial (powder for injection with diluent, stable for 14 days when refrigerated). Genotropin: 1.5, 5.8, 13.8 mg cartridges. Humatrope: 6, 12, 24 mg pen cartridges, 5 mg vial (powder for injection with diluent, stable for 14 days when refrigerated). Nutropin AQ: 10 mg multiple-dose vial, 5, 10, 20 mg/pen cartridges. Norditropin: 5, 10, 15 mg pen cartridges. Norditropin NordiFlex: 5, 10, 15 mg prefilled pens. Omnitrope: 1.5, 5.8 mg vial (powder for injection with diluent). Saizen: Preassembled reconstitution device with autoinjector pen. Serostim: 4, 5, 6 mg single-dose vials, 4, 8.8 mg multidose vials and 8.8 mg cartridges for autoinjector. Valtropin: 5 mg single-dose vials, 5 mg prefilled syringe. Zorbtive: 8.8 mg vial (powder for injection with diluent, stable for 14 days when refrigerated).] ▶LK ♀B/C ▶? \$\$\$\$\$

TERIPARATIDE (*Forteo*) Treatment of postmenopausal osteoporosis, treatment of men and women with glucocorticoid-induced osteoporosis or to increase bone mass in men with primary or hypogonadal osteoporosis and high risk for fracture: 20 mcg SC daily in thigh or abdomen for no longer than 2 years. [Trade only: 28 dose pen injector (20 mcg/dose).] ▶LK ♀C ▶- \$\$\$\$\$

VASOPRESSIN (*Pitressin, ADH, +Pressyn AR*) Diabetes insipidus: 5 to 10 units IM/SC bid to qid prn. Cardiac arrest: 40 units IV; may repeat if no response after 3 min. Septic shock: 0.01 to 0.1 units/min IV infusion, usual dose less than 0.04 units/min. Variceal bleeding: 0.2 to 0.4 units/min initially (max 0.8 units/min). ▶LK ♀C ▶? \$\$\$\$\$

ENT

Antihistamines—Non-Sedating

DESLORATADINE (*Clarinet, +Aerius*) 5 mg PO daily for age older than 12 yo. Peds: 2 mL (1 mg) PO daily for age 6 to 11 mo, ½ teaspoonful (1.25 mg) PO daily for age 12 mo to 5 yo, 1 teaspoonful (2.5 mg) PO daily for age 6 to 11 yo. [Trade only: Tabs 5 mg. Fast-dissolve RediTabs 2.5, 5 mg. Syrup 0.5 mg/mL.] ▶LK ♀C ▶+ \$\$\$

FEXOFENADINE (*Allegra*) 60 mg PO bid or 180 mg daily. Peds: 30 mg PO bid for age 2 to 11 yo. [Generic/Trade: Tabs 30, 60, 180 mg, Caps 60 mg. Trade only: Susp 30 mg/5 mL, orally disintegrating tab 30 mg.] ▶LK ♀C ▶+ \$\$\$

LORATADINE (*Claritin, Claritin Hives Relief, Claritin RediTabs, Alavert, Tavist ND*) 10 mg PO daily for age older than 6 yo, 5 mg PO daily for age 2 to 5 yo. [OTC Generic/Trade: Tabs 10 mg. Fast-dissolve tabs (Alavert, Claritin

(cont.)

RediTabs) 5, 10 mg. Syrup 1 mg/mL. Rx Trade only (Claritin): Chewable tabs 5 mg, Liqui-gel caps 10 mg.] ▶LK ♀B ▶+ \$

Antihistamines—Other

CETIRIZINE (*Zyrtec*, *Reactine*, *Aller-Relief*) 5 to 10 mg PO daily for age older than 6 yo. Peds: give 2.5 mg PO daily for age 6 to 23 mo, give 2.5 mg PO daily to bid for age 2 to 5 yo. [OTC Generic/Trade: Tabs 5, 10 mg, Syrup 5 mg/5 mL, Chewable tabs, grape-flavored 5, 10 mg.] ▶LK ♀B ▶—\$\$\$

CHLORPHENIRAMINE (*Chlor-Trimeton*, *Aller-Chlor*) 4 mg PO q 4 to 6 h. Max 24 mg/day. Peds: give 2 mg PO q 4 to 6 h for age 6 to 11 yo. Max 12 mg/day. [OTC Trade only: Tabs, extended-release 12 mg. Generic/Trade: Tabs 4 mg, Syrup 2 mg/5 mL, Tabs, extended-release 8 mg.] ▶LK ♀B ▶—\$

CLEMASTINE (*Tavist-1*) 1.34 mg PO bid. Max 8.04 mg/day. [OTC Generic/Trade: Tabs 1.34 mg. Rx: Generic/Trade: Tabs 2.68 mg, Syrup 0.67 mg/5 mL. Rx: Generic only: Syrup 0.5 mg/5 mL.] ▶LK ♀B ▶—\$

CYPROHEPTADINE (*Periactin*) Start 4 mg PO tid. Max 32 mg/day. [Generic only: Tabs 4 mg, Syrup 2 mg/5 mL.] ▶LK ♀B ▶—\$

DEXCLOPHENIRAMINE (*Polaramine*) 2 mg PO q 4 to 6 h. Timed-release tabs: 4 or 6 mg PO at q hs or q 8 to 10 h. [Generic only: Tabs, immediate-release 2 mg, timed-release 4, 6 mg, Syrup 2 mg/5 mL.] ▶LK ♀? ▶—\$\$

DIPHENHYDRAMINE (*Benadryl*, *Banophen*, *Allermax*, *Diphen*, *Diphenhist*, *Dytan*, *Siladryl*, *Sominex*, *Allerdryl*, *Nytol*) Allergic rhinitis, urticaria, hypersensitivity reactions: 25 to 50 mg IV/IM/PO q 4 to 6 h. Peds: 5 mg/kg/day divided q 4 to 6 h. EPS: 25 to 50 mg PO tid to qid or 10 to 50 mg IV/IM tid to qid. Insomnia: 25 to 50 mg PO qhs. [OTC Trade only: Tabs 25, 50 mg, Chewable tabs 12.5 mg. OTC and Rx: Generic only: Caps 25, 50 mg, softgel cap 25 mg. OTC Generic/Trade: Soln 6.25 or 12.5 mg per 5 mL. Rx: Trade only: (Dytan) Susp 25 mg/mL, Chewable tabs 25 mg.] ▶LK ♀B ▶—\$

HYDROXYZINE (*Atarax*, *Vistaril*) 25 to 100 mg IM/PO daily to qid or prn. [Generic only: Tabs 10, 25, 50, 100 mg, Caps 100 mg, Syrup 10 mg/5 mL. Generic/Trade: Caps 25, 50 mg, Susp 25 mg/5 mL (Vistaril). (Caps = Vistaril, Tabs = Atarax).] ▶L ♀C ▶—\$\$

LEVOCETIRIZINE (*Xyzal*) Give 2.5 mg PO daily for age 6 to 11 yo, give 5 mg PO daily for age 12 or older. [Trade only: Tabs 5 mg, scored, Oral soln 2.5 mg/5 mL (148 mL).] ▶K ♀B ▶—\$\$\$

MECLIZINE (*Antivert*, *Bonine*, *Medivert*, *Meclicot*, *Meni-D*, *Bonamine*) Motion sickness: 25 to 50 mg PO 1 h prior to travel, then 25 to 50 mg PO daily. Vertigo: 25 mg PO q 6 h prn. [Rx/OTC/Generic/Trade: Tabs 12.5, 25 mg, Chewable tabs 25 mg. Rx/Trade only: Tabs 50 mg.] ▶L ♀B ▶? \$

Antitussives / Expectorants

BENZONATATE (*Tessalon*, *Tessalon Perles*) 100 to 200 mg PO tid. Swallow whole. Do not chew. Numbs mouth; possible choking hazard. [Generic/Trade: Softgel caps: 100, 200 mg.] ▶L ♀C ▶? \$\$

DEXTROMETHORPHAN (*Benylin*, *Delsym*, *Dexalone*, *Robitussin Cough*, *Vick's 44 Cough*) 10 to 20 mg PO q 4 h or 30 mg PO q 6 to 8 h. Sustained action (cont.)

ENT COMBINATIONS (selected)	Decon- gestant	Antihis- tamine	Anti- tussive	Typical Adult Doses
OTC				
<i>Actifed Cold & Allergy</i>	PE	CH	-	1 tab q 4-6 h
<i>Actifed Cold & Sinus</i> ‡	PS	CH	-	2 tabs q 6 h
<i>Allerfrim, Aprodine</i>	PS	TR	-	1 tab or 10 mL q 4-6 h
<i>Benadryl Allergy/Cold</i> ‡	PE	DPH	-	2 tabs q 4 h
<i>Benadryl-D Allergy/Sinus Tablets</i>	PE	DPH	-	1 tab q 4 h
<i>Claritin-D 12 h, Alavert D-12</i>	PS	LO	-	1 tab q 12 h
<i>Claritin-D 24 h</i>	PS	LO	-	1 tab daily
<i>Dimetapp Cold & Allergy Elixir</i>	PE	BR	-	20mL q 4 h
<i>Dimetapp DM Cold & Cough</i>	PE	BR	DM	20mL q 4 h
<i>Drixoral Cold & Allergy</i>	PS	DBR	-	1 tab q 12 h
<i>Mucinex-DM Extended-Release</i>	-	-	GU, DM	1-2 tab q 12 h
<i>Robitussin CF</i>	PE	-	GU, DM	10 mL q 4 h*
<i>Robitussin DM, Mytussin DM</i>	-	-	GU, DM	10 mL q 4 h*
<i>Robitussin PE, Guiatuss PE</i>	PE	-	GU	10 mL q 4 h*
<i>Triaminic Cold & Allergy</i>	PE	CH	-	10 mL q 4 h
Rx Only				
<i>Allegra-D 12- h</i>	PS	FE	-	1 tab q 12 h
<i>Allegra-D 24- h</i>	PS	FE	-	1 tab daily
<i>Bromfenex</i>	PS	BR	-	1 cap q 12 h
<i>Clarinet-D24-h</i>	PS	DL	-	1 tab daily
<i>Deconamine</i>	PS	CH	-	1 tab or 10 mL tid-qid
<i>Deconamine SR, Chlo-drine SR</i>	PS	CH	-	1 tab q 12 h
<i>Deconsal II</i>	PE	-	GU	1-2 tabs q 12 h
<i>Dimetane-DX</i>	PS	BR	DM	10 mL PO q 4 h
<i>Duratuss</i>	PE	-	GU	1 tab q 12 h
<i>Duratuss HD</i> ©III	PE	-	GU, HY	5-10mL q 4-6 h
<i>Entex PSE, Guaifenes PSE 120</i>	PS	-	GU	1 tab q 12 h
<i>Histussin D</i> ©III	PS	-	HY	5 mL qid
<i>Histussin HC</i> ©III	PE	CH	HY	10 mL q 4 h
<i>Humibid DM</i>	-	-	GU, DM	1 tab q 12 h
<i>Hycotuss</i> ©III	-	-	GU, HY	5mL pc & qhs
<i>Phenergan/Dextromethorphan</i>	-	PR	DM	5 mL q 4-6 h
<i>Phenergan VC</i>	PE	PR	-	5 mL q 4-6 h
<i>Phenergan VC w/codeine</i> ©V	PE	PR	CO	5 mL q 4-6 h
<i>Robitussin AC</i> ©V (generic only)	-	-	GU, CO	10 mL q 4 h*
<i>Robitussin DAC</i> ©V (generic only)	PS	-	GU, CO	10 mL q 4 h*
<i>Rondec Syrup</i>	PE	CH	-	5 mL qid†
<i>Rondec DM Syrup</i>	PE	CH	DM	5 mL qid†
<i>Rondec Oral Drops</i>	PE	CH	-	0.75 to 1 mL qid
<i>Rondec DM Oral Drops</i>	PE	CH	DM	0.75 to 1 mL qid
<i>Rynatan</i>	PE	CH	-	1-2 tabs q 12 h
<i>Rynatan-P Pediatric</i>	PE	CH	-	2.5-5 mL q 12 h*
<i>Semprex-D</i>	PS	AC	-	1cap q 4-6h
<i>Tanafed (generic only)</i>	PS	CH	-	10-20 mL q 12 h*
<i>Tussionex</i> ©III	-	CH	HY	5 mL q 12 h
AC=acrivastine	DL= desloratadine	FE=fexofenadine	PE=phenylephrine	
BR=brompheniramine	DM=dextromethorphan	GU=guaifenesin	PR=promethazine	
CH=chlorpheniramine	DBR=dexbrompheniramine	HY=hydrocodone	PS=pseudoephedrine	
CO=codeine	DPH=diphenhydramine	LO=loratadine	TR=triprolidine	
*5 mL/dose if 6-11 yo. 2.5 mL if 2-5 yo. †2.5 mL/dose if 6-11 yo. 1.25 mL if 2-5 yo. ‡Also contains acetaminophen.				

liquid 60 mg PO q 12 h. [OTC Trade only: Caps 15 mg (Robitussin), 30 mg (DexAlone), Susp, extended-release 30 mg/5 mL (Delsym). Generic/Trade: Syrup 5, 7.5, 10, 15 mg/5 mL. Generic only: Lozenges 5, 10 mg.] ▶L ♀ +
 ▶+ \$

GAUAFENESIN (*Robitussin, Hytuss, Guiatuss, Mucinex*) 100 to 400 mg PO q 4 h. 600 to 1200 mg PO q 12 h (extended-release). Peds: 50 to 100 mg/dose for age 2 to 5 yo, give 100 to 200 mg/dose for age 6 to 11 yo. [Rx Generic/Trade: Extended-release tabs 600, 1200 mg. OTC Generic/Trade: Liquid, Syrup 100 mg/5 mL. OTC Trade only: Caps 200 mg (Hytuss), Extended-release tabs 600 mg (Mucinex). OTC Generic only: Tabs 100, 200, 400 mg.] ▶L ♀C ▶+ \$

Decongestants

NOTE See ENT—*Nasal Preparations for nasal spray decongestants. Deaths have occurred in children younger than 2 yo attributed to toxicity from cough and cold medications; the FDA does not recommend their use in this age group.*

PHENYLEPHRINE (*Sudafed PE*) 10 mg PO q 4 h. [OTC Trade only: Tabs 10 mg.] ▶L ♀C ▶+ \$

PSEUDOEPHEDRINE (*Sudafed, Sudafed 12 H, Efidac/24, Pseudofrin*) Adult: 60 mg PO q 4 to 6 h. Extended release tabs: 120 mg PO bid or 240 mg PO daily. Peds: give 15 mg PO q 4 to 6 h for age 2 to 5 yo, give 30 mg PO q 4 to 6 h for age 6 to 12 yo. [OTC Generic/Trade: Tabs 30, 60 mg, Tabs, extended-release 120 mg (12 h), Soln 15, 30 mg/5 mL. Trade only: Chewable tabs 15 mg, Tabs, extended-release 240 mg (24 h).] ▶L ♀C ▶+ \$

Ear Preparations

AURALGAN (benzocaine + antipyrine) 2 to 4 gtts in ear(s) tid to qid prn. [Generic/Trade: Otic soln 10, 15 mL.] ▶Not absorbed ♀C ▶? \$

CARBAMIDE PEROXIDE (*Debrox, Murine Ear*) 5 to 10 gtts in ear(s) bid for 4 days. [OTC Generic/Trade: Otic soln 6.5%, 15, 30 mL.] ▶Not absorbed ♀? ▶? \$

CIPRO HC OTIC (ciprofloxacin + hydrocortisone) 3 gtts in ear(s) bid for 7 days for age 1 yo to adult. [Trade only: Otic susp 10 mL.] ▶Not absorbed ♀C ▶— \$\$\$\$

CIPRODEX OTIC (ciprofloxacin + dexamethasone) 4 gtts in ear(s) bid for 7 days for age 6 mo to adult. [Trade only: Otic susp 5, 7.5 mL.] ▶Not absorbed ♀C ▶— \$\$\$\$

CIPROFLOXACIN (*Cetraxal*) 1 single-use container in ear(s) bid for 7 days for age 1 yo to adult. [Trade only: 0.25 mL single-use containers w/0.2% ciprofloxacin soln, #14.] ▶Not absorbed ♀C ▶— \$\$\$\$

CORTISPORIN OTIC (hydrocortisone + polymyxin + neomycin) (*Pediotic*) 4 gtts in ear(s) tid to qid up to 10 days of soln or susp. Peds: 3 gtts in ear(s) tid to qid up to 10 days. Caution with perforated TMs or tympanostomy tubes

(cont.)

as this increases the risk of neomycin ototoxicity, especially if use prolonged or repeated. Use susp rather than acidic soln. [Generic only: Otic soln or susp 7.5, 10 mL.] ▶Not absorbed ♀? ▶\$

CORTISPORIN TC OTIC (hydrocortisone + neomycin + thonzonium + colistin) 4 to 5 gtts in ear(s) tid to qid up to 10 days. [Trade only: Otic susp, 10 mL.] ▶Not absorbed ♀? ▶\$\$\$

DOMEBORO OTIC (acetic acid + aluminum acetate) 4 to 6 gtts in ear(s) q 2 to 3 h. Peds: 2 to 3 gtts in ear(s) q 3 to 4 h. [Generic only: Otic soln 60 mL.] ▶Not absorbed ♀? ▶\$

FLUOCINOLONE—OTIC (*DermOtic*) 5 gtts in affected ear(s) bid for 7 to 14 days for age 2 yo to adult. [Trade only: Otic oil 0.01% 20 mL.] ▶L ♀C ▶\$

OFLOXACIN—OTIC (*Floxin Otic*) Otitis externa: 5 gtts in ear(s) daily for age 1 to 12 yo, 10 gtts in ear(s) daily for age 12 or older. [Generic/Trade: Otic soln 0.3% 5, 10 mL. Trade only: "Singles": Single-dispensing containers 0.25 mL (5 gtts), 2 per foil pouch.] ▶Not absorbed ♀C ▶—\$\$\$

SWIM-EAR (isopropyl alcohol + anhydrous glycerin) 4 to 5 gtts in ears after swimming. [OTC Trade only: Otic soln 30 mL.] ▶Not absorbed ♀? ▶\$

VOSOL HC (acetic acid + propylene glycol + hydrocortisone) 5 gtts in ear(s) tid to qid. Peds age older than 3 yo: 3 to 4 gtts in ear(s) tid to qid. [Generic/Trade: Otic soln 2%/3%/1% 10 mL.] ▶Not absorbed ♀? ▶\$

Mouth & Lip Preparations

AMLEXANOX (*Aphthasol, OraDisc A*) Aphthous ulcers: Apply ¼ in paste or mucoadhesive patch to affected area qid after oral hygiene for up to 10 days. Up to 3 patches may be applied at one time. [Trade only: Oral paste 5%, 3, 5 g tube. Mucoadhesive patch 2 mg, #20.] ▶LK ♀B ▶\$

CEVIMELINE (*Evoxac*) Dry mouth due to Sjogren's syndrome: 30 mg PO tid. [Trade only: Caps 30 mg.] ▶L ♀C ▶—\$\$\$\$

CHLORHEXIDINE GLUCONATE (*Peridex, Periogard, ♦Denticare*) Rinse with 15 mL of undiluted soln for 30 sec bid. Do not swallow. Spit after rinsing. [Generic/Trade: Oral rinse 0.12% 473 to 480 mL bottles.] ▶Fecal excretion ♀B ▶\$

DEBACTEROL (sulfuric acid + sulfonated phenolics) Aphthous stomatitis, mucositis: Apply to dry ulcer. Rinse with water. [Trade only: 1 mL prefilled, single-use applicator.] ▶Not absorbed ♀C ▶+ \$\$

GELCLAIR (maltodextrin + propylene glycol) Aphthous ulcers, mucositis, stomatitis: Rinse mouth with 1 packet tid or prn. Do not eat or drink for 1 h after treatment. [Trade only: 21 packets/box.] ▶Not absorbed ♀ + ▶+ \$\$\$

LIDOCAINE—VISCOS (*Xylocaine*) Mouth or lip pain in adults only: 15 to 20 mL topically or swish & spit q 3 h. [Generic/Trade: Soln 2%, 20 mL unit dose, 100 mL bottle.] ▶LK ♀B ▶+ \$

MAGIC MOUTHWASH (diphenhydramine + Mylanta + sucralfate) 5 mL PO swish & spit or swish & swallow tid before meals and prn. [Compounded susp. A standard mixture is 30 mL diphenhydramine liquid (12.5 mg/5 mL)/60 mL Mylanta or Maalox/4 g Carafate.] ▶LK ♀B(— in first trimester) ▶—\$\$\$

PILOCARPINE (*Salagen*) Dry mouth due to radiation of head & neck or Sjogren's syndrome: 5 mg PO tid to qid. [Generic/Trade: Tabs 5, 7.5 mg.] ▶L ♀C ▶—\$\$\$\$

Nasal Preparations—Corticosteroids

BECLOMETHASONE (*Vancenase, Vancenase AQ Double Strength, Beconase AQ*) Vancenase: 1 spray per nostril bid to qid. Beconase AQ: 1 to 2 spray(s) per nostril bid. Vancenase AQ Double Strength: 1 to 2 spray(s) per nostril daily. [Trade only: Vancenase 42 mcg/spray, 80 or 200 sprays/bottle. Beconase AQ 42 mcg/spray, 200 sprays/bottle. Vancenase AQ Double Strength 84 mcg/spray, 120 sprays/bottle.] ▶L ♀C ▶? \$\$\$\$

BUDESONIDE—NASAL (*Rhinocort Aqua*) 1 to 4 sprays per nostril daily. [Trade only: Nasal inhaler 120 sprays/bottle.] ▶L ♀B ▶? \$\$\$\$

CICLESONIDE (*Omnaris*) 2 sprays per nostril daily. [Trade only: Nasal spray, 50 mcg/spray, 120 sprays/bottle.] ▶L ♀C ▶? \$\$\$

FLUNISOLIDE (*Nasalide, Nasarel, Rhinalar*) Start 2 sprays/nostril bid. Max 8 sprays/nostril/day. [Generic/Trade: Nasal soln 0.025%, 200 sprays/bottle. Nasalide with pump unit. Nasarel with meter pump and nasal adapter.] ▶L ♀C ▶? \$\$

FLUTICASONE—NASAL (*Flonase, Veramyst*) 2 sprays per nostril daily. [Generic/Trade: Flonase: Nasal spray 0.05%, 120 sprays/bottle. Trade only: (Veramyst): Nasal spray susp: 27.5 mcg/spray, 120 sprays/bottle.] ▶L ♀C ▶? \$\$\$

MOMETASONE—NASAL (*Nasonex*) Adult: 2 sprays/nostril daily. Peds 2 to 11 yo: 1 spray/nostril daily. [Trade only: Nasal spray, 120 sprays/bottle.] ▶L ♀C ▶? \$\$\$\$

TRIAMCINOLONE—NASAL (*Nasacort AQ, Nasacort HFA, Tri-Nasal, AllerNaze*) Nasacort HFA, Tri-Nasal, AllerNaze: 2 sprays per nostril daily to bid. Max 4 sprays/nostril/day. Nasacort AQ: 1 to 2 sprays per nostril daily. [Trade only: Nasal inhaler 55 mcg/spray, 100 sprays/bottle (Nasacort HFA). Nasal spray, 55 mcg/spray, 120 sprays/bottle (Nasacort AQ). Nasal spray 50 mcg/spray, 120 sprays/bottle (Tri-Nasal, AllerNaze).] ▶L ♀C ▶—\$\$\$\$

Nasal Preparations—Other

AZELASTINE—NASAL (*Astelin, Astepro*) 1 to 2 sprays/nostril bid. [Generic: Nasal spray, 200 sprays/bottle.] ▶L ♀C ▶? \$\$\$\$

CROMOLYN—NASAL (*NasalCrom*) 1 spray per nostril tid to qid. [OTC Generic/Trade: Nasal inhaler 200 sprays/bottle 13, 26 mL.] ▶LK ♀B ▶+ \$

IPRATROPIUM—NASAL (*Atrovent Nasal Spray*) 2 sprays per nostril bid to qid. [Generic/Trade: Nasal spray 0.03%, 345 sprays/bottle, 0.06%, 165 sprays/bottle.] ▶L ♀B ▶? \$\$

LEVOCABASTINE—NASAL (↕ *Livostin Nasal Spray*) Canada only. 2 sprays in each nostril bid, increase prn to tid to qid. [Trade only: Nasal spray 0.5 mg/mL, plastic bottles of 15 mL. Each spray delivers 50 mcg.] ▶L (but minimal absorption) ♀C ▶—\$\$

OLOPATADINE—NASAL (*Patanase*) 2 sprays/nostril bid. [Trade only: Nasal spray, 240 sprays/bottle.] ▶L ♀C ▶? \$\$\$

- OXYMETAZOLINE** (*Afrin, Dristan 12 Hr Nasal, Nostrilla, Vicks Sinex 12 Hr*) 2 to 3 gtts/sprays per nostril bid prn nasal congestion for no more than 3 days. [OTC Generic/Trade: Nasal spray 0.05% 15, 30 mL, Nose gtts 0.025%, 0.05% 20 mL with dropper.] ▶L ♀C D? \$
- PHENYLEPHRINE—NASAL** (*Neo-Synephrine, Vicks Sinex*) 2 to 3 sprays/gtts per nostril q 4 h prn × 3 days. [OTC Generic/Trade: Nasal gtts/spray 0.25, 0.5, 1% (15 mL).] ▶L ♀C D? \$
- SALINE NASAL SPRAY** (*SeaMist, Entsol, Pretz, NaSal, Ocean, +HydraSense*) Nasal dryness: 1 to 3 sprays or gtts per nostril prn. [Generic/Trade: Nasal spray 0.4, 0.5, 0.65, 0.75%, Nasal gtts 0.4, 0.65%. Trade only: Preservative Free-Nasal spray 3% (Entsol).] ▶Not metabolized ♀A D+ \$

Other

- CETACAINE** (benzocaine + tetracaine + butamben) Topical anesthesia of mucous membranes: Spray: Apply for no more than 1 sec. Liquid or gel: Apply with cotton applicator directly to site. [Trade only: (14%/2%/2%) Spray 56 mL. Topical liquid 56 mL. Topical gel 5, 29 g.] ▶LK ♀C D? \$ \$

GASTROENTEROLOGY

Antidiarrheals

- BISMUTH SUBSALICYLATE** (*Pepto-Bismol, Kaopectate*) 2 tabs/caplets or 30 mL (262 mg/15 mL) PO q 30 min to 1 h up to 8 doses per day. Peds: 5 mL (262 mg/15 mL) or 1/3 tab/caplet PO for age 3 to 6 yo, 10 mL (262 mg/15 mL) or 2/3 tab/caplet PO for age 6 to 9 yo. Risk of Reye's syndrome in children. [OTC Generic/Trade: Chewable tabs 262 mg. Susp 87 mg/5 mL (Kaopectate Children's Liquid). Susp 525 mg/15 mL. Liquid 130, 262, 524, 525 mg/15 mL. OTC Trade only: Caplets 262 mg (Pepto-Bismol).] ▶K ♀D D? \$
- IMODIUM ADVANCED** (loperamide + simethicone) 2 tabs/caplets PO initially, then 1 tab/caplet PO after each unformed stool to a max of 4 tabs/caplets per day. Peds: 1 tab/caplet PO initially, then 1/2 caplet PO after each unformed stool (up to 2 tabs/caplets PO per day for age 6 to 8 yo or wt 48 to 59 lbs or up to 3 tabs/caplets PO per day for age 9 to 11 yo or wt 60 to 95 lbs). [OTC Generic/Trade: Caplets, Chewable tabs 2 mg loperamide/125 mg simethicone.] ▶L ♀B D—\$
- LOMOTIL** (diphenoxylate + atropine) 2 tabs or 10 mL PO qid. [Generic/Trade: Oral soln or tab 2.5 mg/0.025 mg diphenoxylate/atropine per 5 mL or tab.] ▶L ♀C D—©V \$
- LOPERAMIDE** (*Imodium, Imodium AD, +Loperacap, Diarr-eze*) 4 mg PO initially, then 2 mg PO after each unformed stool to a maximum of 16 mg per day. Peds: 1 mg PO tid for wt 13 to 20 kg, 2 mg PO bid for wt 21 to 30 kg, 2 mg PO for wt greater than 30 kg. [OTC Generic/Trade: Tabs 2 mg. Oral soln 1 mg/5 mL. OTC Trade only: Oral soln 1 mg/7.5 mL.] ▶L ♀B D+ \$
- MOTOFEN** (difenoxin + atropine) 2 tabs PO initially, then 1 tab after each loose stool q 3 to 4 h prn (up to 8 tabs per day). [Trade only: Tabs difenoxin 1 mg + atropine 0.025 mg.] ▶L ♀C D—©IV \$ \$

OPIUM (opium tincture, paregoric) 5 to 10 mL paregoric PO daily (up to qid) or 0.3 to 0.6 mL PO opium tincture qid. [Trade only: Opium tincture 10% (deodorized opium tincture, 10 mg morphine equivalent per mL). Generic only: paregoric (camphorated opium tincture, 2 mg morphine equivalent/5 mL).] ▶L ♀B (D with long-term use) ▶? ©II (opium tincture), III (paregoric) \$\$

Antiemetics—5-HT₃ Receptor Antagonists

DOLASETRON (Anzemet) Nausea with chemo: 1.8 mg/kg (up to 100 mg) IV/PO single dose. Post-op nausea: 12.5 mg IV in adults and 0.35 mg/kg IV in children as single dose. Alternative for prevention: 100 mg (adults) PO or 1.2 mg/kg (children) PO 2 h before surgery. [Trade only: Tabs 50, 100 mg.] ▶LK ♀B ▶? \$\$\$

GRANISETRON (Kytril, Sancuso) Nausea with chemo: 10 mcg/kg IV over 5 min, 30 min prior to chemo. Oral: 1 mg PO bid for 1 day only. Radiation-induced nausea and vomiting: 2 mg PO 1 h before first irradiation fraction of each day. Transdermal (Sancuso): 1 patch to upper outer arm at least 24 h (but up to 48 h) before chemotherapy. Remove 24 h after completion of chemotherapy. Can be worn up to 7 days depending on the duration of chemo. [Generic/Trade: Tabs 1 mg. Oral soln 2 mg/10 mL (30 mL). Trade only (Sancuso): Transdermal patch 34.3 mg of granisetron delivering 3.1 mg/24 h.] ▶L ♀B ▶? \$\$\$\$

ONDANSETRON (Zofran) Nausea with chemo: IV: 32 mg IV over 15 min, or 0.15 mg/kg dose 30 min prior to chemo and repeated at 4 and 8 h after first dose for age 6 mo or older. PO: Give 4 mg PO 30 min prior to chemo and repeat at 4 and 8 hrs for age 4 to 11 yo, give 8 mg PO and repeated 8 h later for age 12 yo or older. Prevention of post-op nausea: 4 mg IV over 2 to 5 min or 4 mg IM or 16 mg PO 1 h before anesthesia. Give 0.1 mg/kg IV over 2 to 5 min as a single dose for age 1 mo to 12 yo if wt 40 kg or less; 4 mg IV over 2 to 5 min as a single dose if wt greater than 40 kg. Prevention of N/V associated with radiotherapy: 8 mg PO tid. [Generic/Trade: Tabs 4, 8, 24 mg. Orally disintegrating tab 4, 8 mg. Oral soln 4 mg/5 mL. Generic only: Tabs 16 mg. Orally disintegrating tab 16, 24 mg.] ▶L ♀B ▶? \$\$\$\$\$

PALONOSETRON (Aloxi) Nausea with chemo: 0.25 mg IV over 30 sec, 30 min prior to chemo or 0.5 mg PO 1 h before start of chemotherapy. Prevention of post-op N/V: 0.075 mg IV over 10 sec just prior to anesthesia. [Trade only: Caps 0.5 mg.] ▶L ♀B ▶? \$\$\$\$\$

Antiemetics—Other

APREPITANT (Emend, fosaprepitant) Prevention of nausea with moderately to highly emetogenic chemo, in combination with dexamethasone and ondansetron: 125 mg PO on day 1 (1 h prior to chemo), then 80 mg PO qam on day 2 & 3. Alternative for first dose only is 115 mg IV (fosaprepitant form) over 15 min given 30 min prior to chemo. Prevention of post-op N/V: 40 mg PO within 3 h prior to anesthesia. [Trade only: Caps 40, 80, 125 mg. IV prodrug form is fosaprepitant.] ▶L ♀B ▶? \$\$\$\$\$

- DICLECTIN (doxylamine + pyridoxine)** Canada only. 2 tabs PO qhs. May add 1 tab in am and 1 tab in afternoon, if needed. [Canada Trade only: Delayed-release tab doxylamine 10 mg + pyridoxine 10 mg.] ▶LK ♀A ▶? \$
- DIMENHYDRINATE (Dramamine, +Gravol)** 50 to 100 mg PO/IM/IV q 4 to 6 h prn (max 400 mg/24 h). [OTC Generic/Trade: Tabs 50 mg. Trade only: Chewable tabs 50 mg. Generic only: Oral soln 12.5 mg/5 mL. Canada only: Suppository 50, 100 mg.] ▶LK ♀B ▶- \$
- DOMPERIDONE (+Motilium)** Canada only. Postprandial dyspepsia: 10 to 20 mg PO tid to qid, 30 min before a meal. [Canada only. Trade/generic: Tabs 10, 20 mg.] ▶L ♀? ▶- \$\$
- DOXYLAMINE (Unisom Nighttime Sleep Aid, others)** 12.5 mg PO bid; often used in combination with pyridoxine. [Generic/Trade: Tabs 10 mg.] ▶L ♀A ▶? \$
- DRONABINOL (Marinol)** Nausea with chemo: 5 mg/m² PO 1 to 3 h before chemo then 5 mg/m²/dose q 2 to 4 h after chemo for 4 to 6 doses/day. Anorexia associated with AIDS: initially 2.5 mg PO bid before lunch and dinner. [Generic/Trade: Caps 2.5, 5, 10 mg.] ▶L ♀C ▶- ©III \$\$\$\$\$
- DROPERIDOL (Inapsine)** 0.625 to 2.5 mg IV or 2.5 mg IM. May cause fatal QT prolongation, even in patients with no risk factors. Monitor ECG before. ▶L ♀C ▶? \$
- METOCLOPRAMIDE (Reglan, +Maxeran)** 10 mg IV/IM q 2 to 3 h prn. 10 to 15 mg PO qid, 30 min before meals and qhs. Caution with long-term (more than 3 months) use. [Generic/Trade: Tabs 5, 10 mg. Generic only: Oral soln 5 mg/5 mL.] ▶K ♀B ▶? \$
- NABILONE (Cesamet)** 1 to 2 mg PO bid, 1 to 3 h before chemotherapy. [Trade only: Caps 1 mg.] ▶L ♀C ▶- ©III \$\$\$\$\$
- PHOSPHORATED CARBOHYDRATES (Emetrol)** 15 to 30 mL PO q 15 min prn, max 5 doses. Peds: 5 to 10 mL per dose. [OTC Generic/Trade: Soln containing dextrose, fructose, and phosphoric acid.] ▶L ♀A ▶+ \$
- PROMETHEZINE (Compazine, +Stemetil)** 5 to 10 mg IV over at least 2 min. 5 to 10 mg PO/IM tid to qid. 25 mg PR q 12 h. Sustained-release: 15 mg PO q am or 10 mg PO q 12 h. Peds: 0.1 mg/kg/dose PO/PR tid to qid or 0.1 to 0.15 mg/kg/dose IM tid to qid. [Generic only: Tabs 5, 10, 25 mg. Suppository 25 mg.] ▶LK ♀C ▶? \$
- PROMETHAZINE (Phenergan)** Adults: 12.5 to 25 mg PO/IM/PR q 4 to 6 h. Peds: 0.25 to 1 mg/kg PO/IM/PR q 4 to 6 h. Contraindicated if age younger than 2 yo; caution in older children. IV use common but not approved. [Generic only: Tabs/Suppository 12.5, 25, 50 mg. Syrup 6.25 mg/5 mL.] ▶LK ♀C ▶- \$
- SCOPOLAMINE (Transderm-Scop, Scopace, +Transderm-V) Motion sickness**: Apply 1 disc (1.5 mg) behind ear 4 h prior to event; replace every 3 days. Tab: 0.4 to 0.8 mg PO 1 h before travel and q 8 h prn. [Trade only: Topical disc 1.5 mg/72 h, box of 4. Oral tab 0.4 mg.] ▶L ♀C ▶+ \$\$
- THIETHYLPERAZINE (Torecan)** 10 mg PO/IM 1 to 3 times a day. [Trade only: Tabs 10 mg.] ▶L ♀? ▶? \$
- TRIMETHOBENZAMIDE (Tigan)** 250 mg PO q 6 to 8 h, 200 mg IM q 6 to 8 h. Peds: 100 to 200 mg/dose PO q 6 to 8 h if wt 13.6 to 40.9 kg. [Generic/Trade: Caps 300 mg.] ▶LK ♀C ▶? \$

Antiulcer—Antacids

ALKA-SELTZER (ASA + citrate + bicarbonate) 2 regular-strength tabs in 4 oz water q 4 h PO prn (up to 8 tabs/day for age younger than 60 yo, up to 4 tabs/day for age 60 yo or greater) or 2 extra-strength tabs in 4 oz water q 6 h PO prn (up to 7 tabs/day for age less than 60 yo, up to 4 tabs/day for age 60 yo or greater). [OTC Trade only: Regular strength, original: ASA 325 mg + citric acid 1000 mg + sodium bicarbonate 1916 mg. Regular-strength lemon lime and cherry: 325 mg + 1000 mg + 1700 mg. Extra-strength: 500 mg + 1000 mg + 1985 mg. Not all forms of Alka Seltzer contain ASA (eg, Alka Seltzer Heartburn Relief).] ▶LK ♀? (– 3rd trimester) ▶? \$

ALUMINUM HYDROXIDE (Alternagel, Amphojel, Alu-Tab, Alu-Cap, + Basalgel, Mucaine) 5 to 10 mL or 1 to 2 tabs PO up to 6 times per day. Constipating. [OTC Generic/Trade: Susp 320, 600 mg/5 mL.] ▶K ♀ + (? first trimester) ▶? \$

CITROCARBONATE (bicarbonate + citrate) 1 to 2 teaspoons in cold water PO 15 min to 2 h after meals prn. [OTC Trade only: Sodium bicarbonate 0.78 g + sodium citrate anhydrous 1.82 g in each 1 teaspoon dissolved in water 150, 300 g.] ▶K ♀? ▶? \$

GAVISCAN (aluminum hydroxide + magnesium carbonate) 2 to 4 tabs or 15 to 30 mL (regular strength) or 10 mL (extra strength) PO qid prn. [OTC Trade only: Tabs: Regular-strength (Al hydroxide 80 mg + Mg carbonate 20 mg), Extra-strength (Al hydroxide 160 mg + Mg carbonate 105 mg). Liquid: Regular-strength (Al hydroxide 95 mg + Mg carbonate 358 mg per 15 mL), Extra-strength (Al hydroxide 508 mg + Mg carbonate 475 mg per 30 mL).] ▶K ♀? ▶? \$

MAALOX (aluminum hydroxide + magnesium hydroxide) 10 to 20 mL or 1 to 4 tabs PO prn. [OTC Generic/Trade: Regular-strength chewable tabs (Al hydroxide + Mg hydroxide 200/200 mg). Susp (225/200 mg per 5 mL). Other strengths available.] ▶K ♀ + (? first trimester) ▶? \$

MAGALDRATE (Riopan) 5 to 10 mL PO prn. [OTC Trade only: Susp 540 mg/5 mL. Riopan Plus (with simethicone) available as susp 540/20 mg/5 mL, double-strength susp 1080/40 mg/5 mL. Chewable tabs 540/20 mg. Double-strength tabs 1080/40 mg.] ▶K ♀ + (? first trimester) ▶? \$

MYLANTA (aluminum hydroxide + magnesium hydroxide + simethicone) 2 to 4 tabs or 10 to 45 mL PO prn. [OTC Generic/Trade: Liquid, Double-strength liquid. Tabs, Double-strength tabs. Trade only: Tabs sodium + sugar + dye-free.] ▶K ♀ + (? first trimester) ▶? \$

ROLAIDS (calcium carbonate + magnesium hydroxide) 2 to 4 tabs PO q 1 h prn, max 12 tabs/day (regular strength) or 10 tabs/day (extra-strength). [OTC Trade only: Tabs regular-strength (calcium carbonate 550 mg, magnesium hydroxide 110 mg), extra-strength (calcium carbonate 675 mg, magnesium hydroxide 135 mg).] ▶K ♀? ▶? \$

Antiulcer—H2 Antagonists

CIMETIDINE (Tagamet, Tagamet HB) 300 mg IV/IM/PO q 6 to 8 h, 400 mg PO bid, or 400 to 800 mg PO qhs. Erosive esophagitis: 800 mg PO bid or 400 mg

(cont.)

PO qid. Continuous IV infusion 37.5 to 50 mg/h (900 to 1200 mg/day). [Tabs 200, 300, 400, 800 mg. Rx Generic only: Oral soln 300 mg/5 mL. OTC Generic/Trade: Tabs 200 mg.] ▶LK ♀B ▶+ \$

FAMOTIDINE (*Pepcid, Pepcid AC, Maximum Strength Pepcid AC*) 20 mg IV q 12 h. 20 to 40 mg PO qhs, or 20 mg PO bid. [Generic/Trade: Tabs 10 mg (OTC, Pepcid AC Acid Controller), 20 mg (Rx and OTC, Maximum Strength Pepcid AC) 40 mg. Rx Trade only: Susp 40 mg/5 mL.] ▶LK ♀B ▶? \$

NIZATIDINE (*Axid, Axid AR*) 150 to 300 mg PO qhs, or 150 mg PO bid. [OTC Trade only (Axid AR): Tabs 75 mg. Rx Trade only: Oral soln 15 mg/mL (120, 480 mL). Rx Generic/Trade: Caps 150, 300 mg.] ▶K ♀B ▶? \$\$\$\$

PEPCID COMPLETE (famotidine + calcium carbonate + magnesium hydroxide) Treatment of heartburn: 1 tab PO prn. Max 2 tabs/day. [OTC Trade only: Chewable tab, famotidine 10 mg with calcium carbonate 800 mg/magnesium hydroxide 165 mg.] ▶LK ♀B ▶? \$

RANITIDINE (*Zantac, Zantac 25, Zantac 75, Zantac 150, Peptic Relief*) 150 mg PO bid or 300 mg PO qhs. 50 mg IV/IM q 8 h, or continuous infusion 6.25 mg/h (150 mg/day). [Generic/Trade: Tabs 75 mg (OTC: Zantac 75), 150 mg (OTC and Rx: Zantac 150), 300 mg. Syrup 75 mg/5 mL. Rx Trade only: Effervescent Tabs 25, 150 mg. Rx Generic only: Caps 150, 300 mg.] ▶K ♀B ▶? \$\$\$\$

Ant ulcer—*Helicobacter pylori* Treatment

HELIDAC (bismuth subsalicylate + metronidazole + tetracycline) 1 dose PO qid for 2 weeks. To be given with an H₂ antagonist. [Trade only: Each dose consists of bismuth subsalicylate 524 mg (2 × 262 mg) chewable tab + metronidazole 250 mg tab + tetracycline 500 mg cap.] ▶LK ♀D— \$\$\$\$

PREVPAC (lansoprazole + amoxicillin + clarithromycin) (♣HP-Pac) 1 dose PO bid for 10 to 14 days. [Trade only: Each dose consists of lansoprazole 30 mg cap + amoxicillin 1 g (2 × 500 mg caps), + clarithromycin 500 mg tab.] ▶LK ♀C ▶? \$\$\$\$

PYLERA (bismuth citrate + metronidazole + tetracycline) 3 caps PO qid (after meals and at bed time) for 10 days. Use with omeprazole 20 mg PO bid. [Trade only: Each cap contains bismuth subcitrate potassium 140 mg + metronidazole 125 mg + tetracycline 125 mg.] ▶LK ♀D— \$\$\$\$

Ant ulcer—Proton Pump Inhibitors

DEXLANSOPRAZOLE (*Kapidex*) Erosive esophagitis: 60 mg PO daily for up to 8 weeks. Maintenance therapy after healing of erosive esophagitis: 30 mg PO daily for up to 6 months. GERD: 30 mg PO daily for up to 4 weeks. [Trade only: Delayed-release cap 30, 60 mg.] ▶L ♀B ▶? \$\$\$\$

ESOMEPRAZOLE (*Nexium*) Erosive esophagitis: 20 to 40 mg PO daily for 4 to 8 weeks. Maintenance of erosive esophagitis: 20 mg PO daily. Zollinger-Ellison: 40 mg PO bid for 4 to 8 weeks, may repeat for additional 4 to 8 weeks. GERD: 20 mg PO daily for 4 weeks. GERD with esophagitis: 20 to 40 mg IV daily for 10 days until taking PO. Prevention of NSAID-associated gastric ulcer: 20 to 40 mg PO daily for up to 6 months. H. pylori eradication: 40 mg PO

(cont.)

HELICOBACTER PYLORI THERAPY

- Triple therapy PO for 10 to 14 days: clarithromycin 500 mg bid + amoxicillin 1 g bid (or met-ronidazole 500 mg bid) + PPI*
- Quadruple therapy PO for 14 days: bismuth subsalicylate 525 mg (or 30 mL) tid to qid plus metronidazole 500 mg tid to qid plus tetracycline 500 mg tid to qid plus a PPI* or a H2 blocker†
- PPI or H2 blocker may need to be continued past 14 days to heal the ulcer.

*PPIs include esomeprazole 40 mg qd, lansoprazole 30 mg bid, omeprazole 20 mg bid, pantoprazole 40 mg bid, rabeprazole 20 mg bid. †H₂ blockers include cimetidine 400 mg bid, famotidine 20 mg bid, nizatidine 150 mg bid, ranitidine 150 mg bid. Adapted from *Medical Letter Treatment Guidelines* 2008:55.

daily with amoxicillin 1000 mg PO bid & clarithromycin 500 mg PO bid for 10 days. [Trade only: Delayed-release cap 20, 40 mg. Delayed-release granules for oral susp 10, 20, 40 mg per packet.] ▶L ♀B ▶? \$\$\$\$

LANSOPRAZOLE (Prevacid, Prevacid) Duodenal ulcer or maintenance therapy after healing of duodenal ulcer, erosive esophagitis, NSAID-induced gastric ulcer: 30 mg PO daily for 8 weeks (treatment), 15 mg PO daily for up to 12 weeks (prevention). GERD: 15 mg PO daily. Gastric ulcer: 30 mg PO daily. Erosive esophagitis: 30 mg PO daily or 30 mg IV daily for 7 days or until taking PO. [Trade only: Caps 15, 30 mg. Susp 15, 30 mg packets. Orally disintegrating tab 15, 30 mg. Prevacid NapraPac: 7 lansoprazole 15 mg caps packaged with 14 naproxen tabs 250 mg, 375 mg or 500 mg.] ▶LK ♀B ▶? \$\$\$\$

OMEPRAZOLE (Prilosec, Losec) GERD, duodenal ulcer, erosive esophagitis: 20 mg PO daily. Heartburn (OTC): 20 mg PO daily for 14 days. Gastric ulcer: 40 mg PO daily. Hypersecretory conditions: 60 mg PO daily. [Rx Generic/Trade: Caps 10, 20, 40 mg. Trade only: Granules for oral susp 2.5 mg, 10 mg. OTC Trade only: Tabs, delayed-release 20 mg.] ▶L ♀C ▶? OTC \$, Rx \$\$\$\$

PANTOPRAZOLE (Protonix, Pantoloc) GERD: 40 mg PO daily. Zollinger-Ellison syndrome: 80 mg IV q 8 to 12 h for 6 days until taking PO. GERD associated with a history of erosive esophagitis: 40 mg IV daily for 7 to 10 days until taking PO. [Generic/Trade: Tabs 20, 40 mg. Trade only: Granules for susp 40 mg/packet.] ▶L ♀B ▶? \$\$\$\$

RABEPRAZOLE (Aciphex, Pariet) 20 mg PO daily. [Trade: Tabs 20 mg.] ▶L ♀B ▶? \$\$\$\$

ZEGERID (omeprazole + bicarbonate) Duodenal ulcer, GERD, erosive esophagitis: 20 mg PO daily for 4 to 8 weeks. Gastric ulcer: 40 mg PO once daily for 4 to 8 weeks. Reduction of risk of upper GI bleed in critically ill (susp only): 40 mg PO, then 40 mg 6 to 8 h later, then 40 mg once daily thereafter for 14 days. [Trade only: Caps 20/1, 100, 40/1, 100 mg omeprazole/sodium bicarbonate, powder packets for susp 20/1, 680, 40/1, 680 mg.] ▶L ♀C ▶? \$\$\$\$

Antiulcer—Other

DICYCLOMINE (Bentyl, Bentyol, Antispas, Formulex, Protylol, Lomine) 10 to 20 mg PO/IM qid up to 40 mg PO qid. [Generic/Trade: Tabs 20 mg, Caps 10 mg, Syrup 10 mg/5 mL. Generic only: Caps 20 mg.] ▶LK ♀B — \$

DONNATAL (phenobarbital + atropine + hyoscyamine + scopolamine) 1 to 2 tabs/caps or 5 to 10 mL PO tid to qid. 1 extended-release tab PO q 8 to 12 h. [Trade only: Phenobarbital 16.2 mg + hyoscyamine 0.1 mg + atropine 0.02 mg + scopolamine 6.5 mcg in each tab or 5 mL. Extended-release tab 48.6 mg + 0.3111 + 0.0582 + 0.0195 mg.] ▶LK ♀C D—\$\$\$

GI COCKTAIL (green goddess) Acute GI upset: Mixture of Maalox/MyLanta 30 mL + viscous lidocaine (2%) 10 mL + Donnatal 10 mL administered PO in a single dose. ▶LK ♀ See individual ▶ See individual \$

HYOSCINE (♣ *Buscopan*) Canada: GI or bladder spasm: 10 to 20 mg PO/IV up to 60 mg daily (PO) or 100 mg daily (IV). [Canada Trade only: Tabs 10 mg.] ▶LK ♀C D? \$\$

HYOSCYAMINE (*Anaspaz, A-spaz, Cystospaz, ED Spaz, Hyosol, Hyospaz, Levbid, Levsin, Levsinex, Medispaz, NuLev, Spacol, Spasdel, Symax*) Bladder spasm, control gastric secretion, GI hypermotility, irritable bowel syndrome: 0.125 to 0.25 mg PO/SL q 4 h or prn. Extended-release: 0.375 to 0.75 mg PO q 12 h. Max 1.5 mg/day. [Generic/Trade: tabs 0.125, 0.15 mg. Sublingual Tabs 0.125 mg. Chewable tabs 0.125 mg. Extended-release Tabs, Caps 0.375 mg. Elixir 0.125 mg/5 mL. Drops 0.125 mg/1 mL.] ▶LK ♀C D—\$

MEPENZOLATE (*Cantil*) 25 to 50 mg PO tid to qid, with meals and qhs. [Trade only: Tabs 25 mg.] ▶LK ♀B D? \$\$\$\$

MISOPROSTOL (*PGE1, Cytotec*) Prevention of NSAID-induced gastric ulcers: Start 100 mcg PO bid, then titrate as tolerated up to 200 mcg PO qid. Cervical ripening: 25 mcg intravaginally q 3 to 6 h (or 50 mcg q 6 h). First trimester pregnancy failure: 800 mcg intravaginally, repeat on day 3 if expulsion incomplete. [Generic/Trade: Oral tabs 100, 200 mcg.] ▶LK ♀X D—\$\$\$

PROPANTHELINE (*Pro-Banthine, ♣ Propanthel*) 7.5 to 15 mg PO 30 min after meals and at bed time. [Generic only: Tabs 15 mg.] ▶LK ♀C D—\$\$\$

SIMETHICONE (*Mylicon, Gas-X, Phazyme, ♣ Oval*) 40 to 160 mg PO qid prn. Infants: 20 mg PO qid prn [OTC Generic/Trade: Chewable tabs 80, 125 mg, drops 40 mg/0.6 mL. Trade only: Softgels 125 mg (Gas-X) 180 mg (Phazyme, Gas-X). Strips, oral (Gas-X) 62.5 mg (adults), 40 mg (children).] ▶Not absorbed ♀C but + D? \$

SUCRALFATE (*Carafate, ♣ Sulcrate*) 1 g PO 1 h before meals (2 h before other medications) and at bed time. [Generic/Trade: Tabs 1 g, susp 1 g/10 mL.] ▶Not absorbed ♀B D? \$\$

Laxatives—Bulk-Forming

METHYLCELLULOSE (*Citrucel*) 1 heaping tablespoon in 8 oz. water PO daily (up to tid). [OTC Trade only: Regular and sugar-free packets and multiple-use canisters, Clear-mix soln, Caplets 500 mg.] ▶Not absorbed ♀+ D? \$

POLYCARBOPHIL (*FiberCon, Fiberall, Konsyl Fiber, Equalactin*) Laxative: 1 g PO qid prn. Diarrhea: 1 g PO q 30 min. Max daily dose 6 g. [OTC Generic/Trade: Tabs/Caplets 625 mg. OTC Trade only: Chewable tabs 625 mg (Equalactin).] ▶Not absorbed ♀+ D? \$

PSYLLIUM (*Metamucil, Fiberall, Konsyl, Hydrocil, ♣ Prodiem Plain*) 1 teaspoon in liquid, 1 packet in liquid or 1 to 2 wafers with liquid PO daily (up

(cont.)

to tid). [OTC Generic/Trade: Regular and sugar-free powder, Granules, Caps, Wafers, including various flavors and various amounts of psyllium.] ▶Not absorbed ♀ + ♂? \$

Laxatives—Osmotic

GLYCERIN (Fleet) 1 adult or infant suppository PR prn. [OTC Generic/Trade: Suppository infant and adult, Soln (Fleet BabyLax) 4 mL/applicator.] ▶Not absorbed ♀C ♂? \$

LACTULOSE (Enulose, Kristalose) Constipation: 15 to 30 mL (syrup) or 10 to 20 g (powder for oral soln) PO daily. Hepatic encephalopathy: 30 to 45 mL (syrup) PO tid to qid, or 300 mL retention enema. [Generic/Trade: Syrup 10 g/15 mL. Trade only (Kristalose): 10, 20 g packets for oral soln.] ▶Not absorbed ♀B ♂? \$\$

MAGNESIUM CITRATE (Citra-Mag) 150 to 300 mL PO divided bid. Give 2 to 4 mL/kg/day for age younger than 6 yo. [OTC Generic only: Soln 300 mL/bottle. Low-sodium and sugar-free available.] ▶K ♀ + ♂? \$

MAGNESIUM HYDROXIDE (Milk of Magnesia) Laxative: 30 to 60 mL regular-strength liquid PO. Antacid: 5 to 15 mL regular-strength liquid or 622 to 1244 mg PO qid prn. [OTC Generic/Trade: Susp 400 mg/5 mL. Trade only: Chewable tabs 311, 500 mg. Generic only: Susp 400 mg/5 mL, (concentrated) 1200 mg/5 mL.] ▶K ♀ + ♂? \$

POLYETHYLENE GLYCOL (MiraLax, GlycoLax) 17 g (1 heaping tablespoon) in 4 to 8 oz water, juice, soda, coffee, or tea PO daily. [OTC Trade only (MiraLax): Powder for oral soln 17 g/scoop. Rx Generic/Trade: Powder for oral soln 17 g/scoop.] ▶Not absorbed ♀C ♂? \$

POLYETHYLENE GLYCOL WITH ELECTROLYTES (GoLyteLy, CoLyte, TriLyte, NuLyteLy, Moviprep, HalfLyteLy and Bisacodyl Tablet Kit, Klean-Prep, Electropeg, Peg-Lyte OCL) Bowel prep: 240 mL q 10 min PO or 20 to 30 mL/min per NG until 4L is consumed. Moviprep: Follow specific instructions. [Trade: Powder for oral soln in disposable jug Moviprep (2L), CoLyte (1 gal or 4L), NuLyteLy (4L), TriLyte (4L), OCL (1500 mL), GoLyteLy (packet for oral soln to make 3.785 liters or jug). Also, as a kit of 2L bottle of polyethylene glycol with electrolytes and 4 bisacodyl tabs 5 mg (HalfLyteLy and Bisacodyl Tablet Kit), Generic.] ▶Not absorbed ♀C ♂? \$

SODIUM PHOSPHATE (Fleet enema, Fleet Phospho-Soda, Fleet EZ-Prep, Accu-Prep, Osmoprep, Visicol, Enemol, PhosLax) 1 adult or pediatric enema PR or 20 to 30 mL of oral soln PO prn (max 45 mL/24 h). Visicol: Evening before colonoscopy: 3 tabs with 8 oz clear liquid q 15 min until 20 tabs are consumed. Day of colonoscopy: Starting 3 to 5 h before procedure, 3 tabs with 8 oz clear liquid q 15 min until 20 tabs are consumed. Osmoprep: 32 tabs (48 g of sodium phosphate) PO with total of 2 quarts clear liquids as follows: pm before procedure: 4 tabs PO with 8 ounces of clear liquids q 15 mins for a total of 20 tabs; day of procedure: 3 to 5 h before procedure, 4 tabs with 8 ounces of clear liquids q 15 mins for a total of 12 tabs. [OTC Generic/Trade: Adult enema, oral soln. OTC Trade only: Pediatric enema, bowel prep. Rx Trade only: Visicol, Osmoprep tab (\$\$\$\$) 1.5 g.] ▶Not absorbed ♀C ♂? \$

SORBITOL 30 to 150 mL (of 70% soln) PO or 120 mL (of 25 to 30% soln) PR as a single dose. Cathartic: 1 to 2 mL/kg PO. [Generic only: Soln 70%.] ▶Not absorbed ♀ + ♂? \$

Laxatives—Stimulant

BISACODYL (*Correctol, Dulcolax, Feen-a-Mint, Fleet*) 10 to 15 mg PO prn, 10 mg PR prn, 5 to 10 mg PR prn if 2 to 11 yo. [OTC Generic/Trade: Tabs 5 mg, suppository 10 mg. OTC Trade only (Fleet): Enema, 10 mg/30 mL.] ▶L ♀ + ♂? \$

CASCARA 325 mg PO qhs prn or 5 mL of aromatic fluid extract PO qhs prn. [OTC Generic only: Tabs 325 mg, liquid aromatic fluid extract.] ▶L ♀ C ♂ + \$

CASTOR OIL 15 to 60 mL of castor oil or 30 to 60 mL emulsified castor oil PO qhs, 5 to 15 mL/dose of castor oil PO or 7.5 to 30 mL emulsified castor oil PO for child. [OTC Generic only: Oil 60, 120 mL.] ▶Not absorbed ♀ - ♂? \$

SENNA (*Senokot, SenokotXTRA, Ex-Lax, Fletcher's Castoria, ⚡Glyssennid*) 2 tabs or 1 teaspoon granules or 10 to 15 mL syrup PO. Max 8 tabs, 4 teaspoon granules, 30 mL syrup/day. Take granules with full glass of water. [OTC Generic/Trade (All dosing is based on sennosides content; 1 mg sennosides = 21.7 mg standardized senna concentrate): Syrup 8.8 mg/5 mL, Liquid 3 mg/mL (Fletcher's Castoria), Tabs 8.6, 15, 17, 25 mg, Chewable tabs 15 mg.] ▶L ♀ C ♂ + \$

Laxatives—Stool Softener

DOCUSATE (*Colace, Surfak, Kaopectate Stool Softener, Enemeez*) Docusate calcium: 240 mg PO daily. Docusate sodium: 50 to 500 mg/day PO divided in 1 to 4 doses. Peds: Give 10 to 40 mg/day for age younger than 3 yo, give 20 to 60 mg/day for age 3 to 6 yo, give 40 to 150 mg/day for age 6 to 12 yo. In all cases doses are divided up to qid. Cerumen impaction: Instill 1 mL in affected ear. [Docusate calcium OTC Generic/Trade: Caps 240 mg. Docusate sodium OTC Generic/Trade: Caps 50, 100, 250 mg, liquid 50 mg/5 mL, syrup 20 mg/5 mL. Docusate sodium OTC Trade only (Enemeez): Enema, rectal 283 mg/5 mL.] ▶L ♀ + ♂? \$

Laxatives—Other or Combinations

LUBIPROSTONE (*Amitiza*) Chronic idiopathic constipation: 24 mcg PO bid with meals. Irritable bowel syndrome with constipation in women age 18 yo or older: 8 mcg PO bid. [Trade only: 8, 24 mcg caps.] ▶Gut ♀ C ♂? \$\$\$\$

MINERAL OIL (*Kondremul, Fleet Mineral Oil Enema, Liqui-Doss, ⚡Lansoyl*) 15 to 45 mL PO. Peds: 5 to 15 mL/dose PO. Mineral oil enema: 60 to 150 mL PR. Peds 30 to 60 mL PR. [OTC Generic/Trade: Oil (30, 480 mL), Enema (Fleet). OTC Trade only: Oral liquid (Liqui-Doss) 13.5 mg/15 mL, Oral microemulsion (Kondremul) 2.5 mg/5 mL.] ▶Not absorbed ♀ C ♂? \$

PERI-COLACE (docusate + sennosides) 2 to 4 tabs PO once daily or in divided doses prn. [OTC Generic/Trade: Tabs 50 mg docusate + 8.6 mg sennosides.] ▶L ♀ C ♂? \$

SENOKOT-S (senna + docusate) 2 tabs PO daily. [OTC Generic/Trade: Tabs 8.6 mg senna concentrate/50 mg docusate.] ▶L ♀ C ♂ + \$

Ulcerative Colitis

BALSALAZIDE (Colazol) 2.25 g PO tid for 8 to 12 weeks. [Generic/Trade: Caps 750 mg.] ▶Minimal absorption ♀B ▶? \$\$\$\$\$

MESALAMINE (5-aminosalicylic acid, Apriso, 5-ASA, Asacol, Lialda, Pentasa, Canasa, Rowasa, *Mesasal, Salofalk) Apriso: 1.5 g (4 caps) PO qam. Asacol: 800 to 1600 mg PO tid. Pentasa: 1000 mg PO qid. Lialda: 2.4 to 4.8 g PO daily with a meal. Canasa: 500 mg PR bid to tid or 1000 mg PR qhs. [Trade only: Delayed-release tabs 400, 800 mg (Asacol), controlled-release cap 250, 500 mg (Pentasa), delayed-release tab 1200 mg (Lialda), rectal suppositories 1000 mg (Canasa), controlled-release caps 0.375 mg (Apriso). Generic/Trade: Rectal susp 4 g/60 mL (Rowasa).] ▶Gut ♀B ▶? \$\$\$\$\$

OLSALAZINE (Dipentum) Ulcerative colitis: 500 mg PO bid. [Trade only: Caps 250 mg.] ▶L ♀C ▶- \$\$\$\$\$

SULFASALAZINE (Azulfidine, Azulfidine EN-tabs, *Salazopyrin En-tabs, S.A.S.) Colitis: 500 to 1000 mg PO qid. Peds: 30 to 60 mg/kg/day divided q 4 to 6 h. RA: 500 mg PO bid after meals up to 1 g PO bid. May turn body fluids, contact lenses or skin orange-yellow. [Generic/Trade: Tabs 500 mg, scored. Enteric coated, Delayed-release tabs (EN-tabs) 500 mg.] ▶L ♀B ▶- \$\$

Other GI Agents

ALOSETRON (Lotronex) Diarrhea-predominant Irritable Bowel Syndrome in women who have failed conventional therapy: 0.5 mg PO bid for 4 weeks; in patients who become constipated, decrease to 0.5 mg PO once daily. If well tolerated after 4 weeks, may increase to 1 mg PO bid. Discontinue if symptoms not controlled in 4 weeks on 1 mg PO bid. [Trade only: Tabs 0.5, 1 mg.] ▶L ♀B ▶? \$\$\$\$\$

ALPHA-GALACTOSIDASE (Beano) 5 gtts per ½ cup gassy food, 3 tabs PO (chew, swallow, crumble) or 10 gtts per typical meal. [OTC Trade only: Oral gtts 150 GalU/5 gtts, Tabs 150 GalU.] ▶Minimal absorption ♀? ▶? \$

ALVIMOPAN (Entereg) Short-term (up to 15 doses) in hospitalized patients undergoing partial large or small bowel resection surgery with primary anastomosis: 12 mg PO 30 min to 5 h prior to surgery, then 12 mg bid for up to 7 days. [Trade only: Caps 12 mg.] ▶Intestinal flora ♀B ▶? ?

BUDESONIDE (Entocort EC) 9 mg PO daily for 8 weeks (remission induction) or 6 mg PO daily for 3 months (maintenance). [Trade only: Caps 3 mg.] ▶L ♀C ▶? \$\$\$\$\$

CÉRTOLIZUMAB (Cimzia) Crohn's: 400 mg SC at 0, 2, and 4 weeks. If response occurs, then 400 mg SQ q 4 weeks. [Trade only: 200 mg kit.] ▶Plasma, K ♀B ▶? \$\$\$\$\$

CHLORDIAZEPOXIDE-CLIDINIUM (Librax) 1 cap PO tid to qid. [Generic/Trade: Caps, chlordiazepoxide 5 mg + clidinium 2.5 mg.] ▶L ♀D ▶- \$\$\$

GLYCOPYRROLATE (Robinul, Robinul Forte) 0.1 mg/kg PO bid to tid, max 8 mg/day. [Generic/Trade: Tabs 1, 2 mg.] ▶K ♀B ▶? \$\$\$\$\$

LACTASE (Lactaid) Swallow or chew 3 caplets (Original strength), 2 caplets (Extra strength), 1 caplet (Ultra) with first bite of dairy foods. Adjust dose based on response. [OTC Generic/Trade: Caplets, Chewable tabs.] ▶Not absorbed ♀+ ▶+ \$

LIBRAX (chlordiazepoxide + methscopolamine) 1 cap PO tid to qid. [Trade only: caps methscopolamine 2.5 mg + chlordiazepoxide 5 mg.] ▶K LD ▶- \$\$\$\$\$

METHYLNALTREXONE (*Relistor*) Give 8 mg SC every other day for wt 38 to 61 kg, give 12 mg SC every other day for wt 62 to 114 kg, give 0.15 mg/kg SC every other day for wt 115 kg or greater. [Injectable soln 12 mg/0.6 mL.] ▶unchanged ♀B ▶? \$\$\$\$\$

NEOMYCIN—ORAL (*Neo-Fradin*) Hepatic encephalopathy: 4 to 12 g/day PO divided q 6 to 8 h. Peds: 50 to 100 mg/kg/day PO divided q 6 to 8 h. [Generic only: Tabs 500 mg. Trade only: Soln 125 mg/5 mL.] ▶Minimally absorbed ♀D ▶? \$\$\$

OCTREOTIDE (*Sandostatin, Sandostatin LAR*) Variceal bleeding: Bolus 50 to 100 mcg IV followed by infusion 25 to 50 mcg/h. AIDS diarrhea: 100 to 500 mcg SC tid. [Generic/Trade: Injection vials 0.05, 0.1, 0.2, 0.5, 1 mg. Trade only: Long-acting injectable susp (Sandostatin LAR) 10, 20, 30 mg.] ▶LK ♀B ▶? \$\$\$\$\$

ORLISTAT (*Alli, Xenical*) Weight loss: 120 mg PO tid with meals. [OTC Trade only (Alli): Caps 60 mg. Rx Trade only (Xenical): Caps 120 mg.] ▶Gut ♀B ▶? \$\$\$

PANCREATIN (*Creon, Ku-Zyme, Entozyme*) 8000 to 24,000 units lipase (1 to 2 tabs/caps) PO with meals and snacks. [Tabs, Caps with varying amounts of pancreatin, lipase, amylase, and protease.] ▶Gut ♀C ▶? \$\$\$

PANCRELIPASE (*Viokase, Pancrease, Pancrecarb, Cotazym, Ku-Zyme HP*) 4000 to 33,000 units lipase (1 to 3 tabs/caps) PO with meals and snacks. [Tabs, Caps, Powder with varying amounts of lipase, amylase, and protease.] ▶Gut ♀C ▶? \$\$\$

PINAVERIUM (↔*Dicetel*) Canada only. 50 to 100 mg PO tid. [Trade only: Tabs 50, 100 mg.] ▶? ♀C ▶- \$\$\$

SECRETIN (*SecreFlo, SecreMax*) Test dose 0.2 mcg IV. If tolerated, 0.2 to 0.4 mcg/kg IV over 1 min. ▶Serum ♀C ▶? \$\$\$\$\$

URSODIOL (*Actigall, URSO, URSO Forte*) Gallstone dissolution (Actigall): 8 to 10 mg/kg/day PO divided bid to tid. Prevention of gallstones associated with rapid weight loss (Actigall): 300 mg PO bid. Primary biliary cirrhosis (URSO): 13 to 15 mg/kg/day PO divided in 2 to 4 doses. [Trade: Caps 300 mg (Actigall). Tabs 250 (URSO), 500 mg scored (URSO Forte).] ▶Bile ♀B ▶? \$\$\$\$\$

HEMATOLOGY

Anticoagulants—Heparin, LMW Heparins, and Fondaparinux

NOTE See cardiovascular section for antiplatelet drugs & thrombolytics.

DALTEPARIN (*Fragmin*) DVT prophylaxis, acute medical illness with restricted mobility: 5000 units SC daily. DVT prophylaxis, abdominal surgery: 2500 units SC 1 to 2 h preop & daily post-op. DVT prophylaxis, abdominal surgery in patients with malignancy: 5000 units SC evening before surgery and daily post-op, or 2500 units 1 to 2 h preop and 12 h later, then 5000 units daily. DVT prophylaxis, hip replacement: Preop start: 2500 units SC given 2 h preop,

(cont.)

WEIGHT-BASED HEPARIN DOSING FOR DVT/PE*

Initial dose: 80 units/kg IV bolus, then 18 units/kg/h. Check PTT in 6 h.

PTT less than 35 sec (less than $1.2 \times$ control): 80 units/kg IV bolus, then increase infusion rate by 4 units/kg/h.

PTT 35–45 sec (1.2 – $1.5 \times$ control): 40 units/kg IV bolus, then increase infusion by 2 units/kg/h.

PTT 46–70 sec (1.5 – $2.3 \times$ control): No change.

PTT 71–90 sec (2.3 – $3 \times$ control): decrease infusion rate by 2 units/kg/h.

PTT greater than 90 sec (greater than $3 \times$ control): Hold infusion for 1 h, then decrease infusion rate by 3 units/kg/h.

*PTT = Activated partial thromboplastin time. Reagent-specific target PTT may differ; use institutional nomogram when available. Consider establishing a max bolus dose/max initial infusion rate or use an adjusted body wt in obesity. Monitor PTT 6 h after heparin initiation and 6 h after each dosage adjustment. When PTT is stable within therapeutic range, monitor every morning. Therapeutic PTT range corresponds to anti-factor Xa activity of 0.3–0.7 units/mL. Check platelets between days 3 and 5. Can begin warfarin on first day of heparin; continue heparin for ≥ 4 to 5 days of combined therapy. Adapted from *Ann Intern Med* 1993;119:874; *Chest* 2008;133:463S–464S, *Circulation* 2001; 103:2994.

4 to 8 h post-op, then 5000 units daily starting at least 6 h after 2nd dose, or 5000 units 10 to 14 h preop, 4 to 8 h post-op, then daily (approximately 24 h between doses). Post-op start: 2500 units 4 to 8 h post-op, then 5000 units daily starting at least 6 h after first dose. **Treatment of DVT/PE in cancer:** 200 units/kg SC daily for 1 month, then 150 units/kg SC daily for 5 months; max 18,000 units/day. **Unstable angina or non-Q-wave MI:** 120 units/kg up to 10,000 units SC q 12 h with ASA (75 to 165 mg/day PO) until clinically stable. [Trade only: Single-dose syringes 2500, 5000 anti-Xa units/0.2 mL, 7500 anti-Xa/0.3 mL, 10,000 anti-Xa units/1 mL, 12,500 anti-Xa units/0.5 mL, 15,000 anti-Xa units/0.6 mL, 18,000 anti-Xa units/0.72 mL; multidose vial 10,000 units/mL, 9.5 mL and 25,000 units/mL, 3.8 mL.] ▶KL ♀B ▶+ \$\$\$\$\$

ENOXAPARIN (Lovenox) DVT prophylaxis, acute medical illness with restricted mobility: 40 mg SC daily (if CrCl <30 mL/min): give 30 mg SC daily). Hip/knee replacement: 30 mg SC q 12 h starting 12 to 24 h post-op (if CrCl <30 mL/min: give 30 mg SC daily). Alternative for hip replacement: 40 mg SC daily starting 12 h preop. Abdominal surgery: 40 mg SC daily starting 2 h preop (if CrCl <30 mL/min: give 30 mg SC daily). Outpatient treatment of DVT without pulmonary embolus: 1 mg/kg SC q 12 h. Continue for at least 5 days and until therapeutic oral anticoagulation established. Inpatient treatment of DVT with/without pulmonary embolus: 1 mg/kg SC q 12 h or 1.5 mg/kg SC q 24 h (CrCl <30 mL/min: 1 mg/kg SC daily). Continue for at least 5 days and until therapeutic oral anticoagulation established. Unstable angina or non-Q-wave MI: 1 mg/kg SC q 12 h with ASA (100 to 325 mg PO daily) for at least 2 days and until clinically stable (if CrCl <30 mL/min: give 1 mg/kg SC daily). Acute ST-elevation MI: For age 75 yo or younger: give 30 mg IV bolus, followed 15 min later by 1 mg/kg SC, then 1 mg/kg SC (max 100 mg/dose for the first two doses) q 12 h (if CrCl <30 mL/min: give 30 mg IV bolus followed 15 min later by 1 mg/kg SC dose then 1 mg/kg SC daily); if older than 75 yo: 0.75 mg/kg (max 75 mg/dose for the first

(cont.)

two doses, no bolus) SC q 12 h (CrCl <30 mL/min: 1 mg/kg SC daily, no bolus). [Trade only: Multidose vial 300 mg; Syringes 30, 40 mg; graduated syringes 60, 80, 100, 120, 150 mg. Concentration is 100 mg/mL except for 120, 150 mg which are 150 mg/mL.] ▶KL ♀B ▶+ \$\$\$\$\$

FONDAPARINUX (Arixtra) DVT prophylaxis, hip/knee replacement or hip fracture surgery, abdominal surgery: 2.5 mg SC daily starting 6 to 8 h post-op. DVT/PE treatment based on wt: 5 mg (if wt less than 50 kg), 7.5 mg (if 50 to 100 kg), 10 mg (if wt greater than 100 kg) SC daily for at least 5 day & therapeutic oral anticoagulation. [Trade only: Prefilled syringes 2.5 mg/0.5 mL, 5 mg/0.4 mL, 7.5 mg/0.6 mL, 10 mg/0.8 mL.] ▶K ♀B ▶? \$\$\$\$\$

HEPARIN (Hepalean) Venous thrombosis/pulmonary embolus treatment: Load 80 units/kg IV, then initiate infusion at 18 units/kg/h. Adjust based on coagulation testing (PTT). Peds: Load 50 units/kg IV, then infuse 25 units/kg/h. DVT prophylaxis: 5000 units SC q 8 to 12 h. [Generic only: 1000, 5000, 10,000, 20,000 units/mL in various vial and syringe sizes.] ▶Reticuloendothelial system ♀C but + ▶+ \$\$

TINZAPARIN (Innohep) DVT with/without pulmonary embolus: 175 units/kg SC daily for at least 6 days and until adequate anticoagulation with warfarin. [Trade only: 20,000 anti-Xa units/mL, 2 mL multidose vial.] ▶K ♀B ▶+ \$\$\$\$\$

Anticoagulants—Other

ARGATROBAN HIT: Start 2 mcg/kg/min IV infusion. Get PTT at baseline and 2 h after starting infusion. Adjust dose (max dose: 10 mcg/kg/min) until PTT is 1.5 to 3× baseline (not >100 sec). ▶L ♀B ▶- \$\$\$\$\$

BIVALIRUDIN (Angiomax) Anticoagulation during PCI (patients with or at risk of HIT): 0.75 mg/kg IV bolus prior to intervention, then 1.75 mg/kg/h for duration of procedure (with provisional Gp IIb/IIIa inhibition). For CrCl <30 mL/min, reduce infusion dose to 1 mg/kg/h after bolus. Use with ASA 300 to 325 mg PO daily. Additional bolus of 0.3 mg/kg if activated clotting time <225 sec. ▶proteolysis/K ♀B ▶? \$\$\$\$\$

LEPIRUDIN (Refludan) Anticoagulation in HIT and associated thromboembolic disease: Bolus 0.4 mg/kg up to 44 mg IV over 15 to 20 sec, then

(cont.)

THERAPEUTIC GOALS FOR ANTICOAGULATION

INR Range*	Indication
2.0–3.0	Atrial fibrillation, deep venous thrombosis†, pulmonary embolism†, bioprosthetic heart valve, mechanical prosthetic heart valve (aortic position, bileaflet or tilting disk with normal sinus rhythm and normal left atrium)
2.5–3.5	Mechanical prosthetic heart valve: (1) mitral position, (2) aortic position with atrial fibrillation, (3) caged ball or caged disk

*Aim for an INR in the middle of the INR range (eg, 2.5 for range of 2 to 3 and 3.0 for range of 2.5 to 3.5). Adapted from: *Chest* 2008; 133: 456-7S, 459S, 547S, 594-5S; see this manuscript for additional information and other indications. †For first-event unprovoked DVT/PE, after 3 months of therapy at goal INR 2 to 3, may consider low-intensity therapy (INR range 1.5 to 2.0) in patients with strong preference for less frequent INR testing.

infuse 0.15 mg/kg/h up to 16.5 mg/h. Adjust dose to maintain APTT ratio of 1.5 to 2.5. ▶K ♀B ▶? \$\$\$\$\$

WARFARIN (Coumadin, Jantoven) Start 2 to 5 mg PO daily for 1 to 2 days, then adjust dose to maintain therapeutic PT/INR. [Generic/Trade: Tabs 1, 2, 2.5, 3, 4, 5, 6, 7.5, 10 mg.] ▶L ♀X ▶+ \$

Colony Stimulating Factors

DARBEPOETIN (Aranesp, NESP) Anemia of chronic renal failure: 0.45 mcg/kg IV/SC once a week, or 0.75 mcg/kg q 2 weeks in some nondialysis patients. Cancer chemo anemia: 2.25 mcg/kg SC weekly, or 500 mcg SC every 3 weeks. Adjust dose based on Hb. [Trade only: All forms are available with or without albumin. Single-dose vials 25, 40, 60, 100, 200, 300, 500 mcg/1 mL, and 150 mcg/0.75 mL. Single-dose prefilled syringes or autoinjectors 25 mcg/0.42 mL, 40 mcg/0.4 mL, 60 mcg/0.3 mL, 100 mcg/0.5 mL, 150 mcg/0.3 mL, 200 mcg/0.4 mL, 300 mcg/0.6 mL, 500 mcg/1 mL.] ▶cellular sialidases, L ♀C ▶? \$\$\$\$\$

EPOETIN ALFA (Epoen, Procrit, erythropoietin alpha, ✦Eprex) Anemia: 1 dose IV/SC 3 times a week. Initial dose if renal failure is 50 to 100 units/kg, Zidovudine-induced anemia is 100 units/kg, or chemo-associated anemia is 150 units/kg. Alternate for chemo-associated anemia: 40,000 units SC once a week. Adjust dose based on Hb. [Trade only: Single-dose 1 mL vials 2000, 3000, 4000, 10,000, 40,000 units/mL. Multidose vials 10,000 units/mL 2 mL, 20,000 units/mL 1 mL.] ▶L ♀C ▶? \$\$\$\$\$

FILGRASTIM (G-CSF, Neupogen) Neutropenia: 5 mcg/kg SC/IV daily. [Trade only: Single-dose vials 300 mcg/1 mL, 480 mcg/1.6 mL. Single-dose syringes 300 mcg/0.5 mL, 480 mcg/0.8 mL.] ▶L ♀C ▶? \$\$\$\$\$

OPRELVEKIN (Neumega) Chemotherapy-induced thrombocytopenia in adults: 50 mcg/kg SC daily. [Trade only: 5 mg single-dose vials with diluent.] ▶K ♀C ▶? \$\$\$\$\$

PEGFILGRASTIM (Neulasta) 6 mg SC once each chemo cycle. [Trade only: Single-dose syringes 6 mg/0.6 mL.] ▶Plasma ♀C ▶? \$\$\$\$\$

SARGRAMOSTIM (GM-CSF, Leukine) Specialized dosing for marrow transplant. ▶L ♀C ▶? \$\$\$\$\$

Other Hematological Agents

NOTE See endocrine section for vitamins and minerals.

AMINOCAPROIC ACID (Amicar) Hemostasis: 4 to 5 g PO/IV over 1 h, then 1 g/h prn. [Generic/Trade: Syrup 250 mg/mL, Tabs 500 mg. Trade only: Tabs 1000 mg.] ▶K ♀D ▶? \$ IV \$\$\$\$\$ Oral

ANAGRELIDE (Agrylin) Thrombocythemia due to myeloproliferative disorders: Start 0.5 mg PO qid or 1 mg PO bid, then after 1 week adjust to lowest effective dose. Max 10 mg/day. [Generic/Trade: Caps 500 mg. Generic only: Caps 1000 mg.] ▶LK ♀C ▶? \$\$\$\$\$

DEFERASIROX (Exjade) Chronic iron overload: 20 mg/kg PO daily; adjust dose q 3 to 6 months based on ferritin trends. Max 40 mg/kg/day. [Trade only: Tabs for dissolving into oral susp 125, 250, 500 mg.] ▶L ♀B ▶? \$\$\$\$\$

HYDROXYUREA (*Hydrea, Droxia*) Sickle cell anemia (Droxia): Start 15 mg/kg PO daily while monitoring CBC every 2 weeks. If no marrow depression, then increase dose every 12 weeks by 5 mg/kg/day (max 35 mg/kg/day). Give concomitant folic acid 1 mg/day. Chemotherapy: Doses vary by indication. [Generic/Trade: Caps 500 mg. Trade only: (Droxia) Caps 200, 300, 400 mg.] ▶LK ♀D ▶—\$ varies by therapy

PROTAMINE Reversal of heparin: 1 mg antagonizes about 100 units heparin. Reversal of low-molecular-weight heparin: 1 mg protamine per 100 anti-Xa units of dalteparin or tinzaparin. 1 mg protamine per 1 mg enoxaparin. Give IV (max 50 mg) over 10 min. May cause allergy/anaphylaxis. ▶Plasma ♀C ▶? \$

HERBAL & ALTERNATIVE THERAPIES

NOTE *In the United States, herbal & alternative therapy products are regulated as dietary supplements, not drugs. Premarketing evaluation and FDA approval are not required unless specific therapeutic claims are made. Since these products are not required to demonstrate efficacy, it is unclear whether many of them have health benefits. In addition, there may be considerable variability in content from lot to lot or between products. See www.tarascon.com/herbals for the evidence-based efficacy ratings used by Tarascon editorial staff.*

ALOE VERA (*acemannan, burn plant*) Topical: Efficacy unclear for seborrheic dermatitis, psoriasis, genital herpes, skin burns. Gel possibly effective for oral lichen planus. Do not apply to surgical incisions; impaired healing reported. Oral: Efficacy unclear for mild to moderate active ulcerative colitis, type 2 diabetes. OTC laxatives containing aloe were removed from US market due to possible increased risk of colon cancer. [Not by prescription.] ▶LK ♀oral—topical+? ▶oral—topical+? \$

ARNICA (*Arnica montana, leopard's bane, wolf's bane*) Do not take by mouth or use on open wounds. Topical promoted for treatment of skin wounds, bruises, aches, and sprains; but insufficient data to assess efficacy. [Not by prescription.] ▶? ♀—▶—\$

ARTICHOKE LEAF EXTRACT (*Cynara-SL, Cynara scolymus*) May reduce total cholesterol, but clinical significance is unclear. Cynara-SL is promoted as digestive aid (possibly effective for dyspepsia) at a dose of 1 to 2 caps PO daily (320 mg dried artichoke leaf extract/cap). [Not by prescription.] ▶? ♀? ▶? \$

ASTRAGALUS (*Astragalus membranaceus, huang qi, vetch, Jinfukang*) Used in combination with other herbs in traditional Chinese medicine for CHD, CHF, chronic liver disease, kidney disease, viral infections, and upper respiratory tract infection. Possibly effective for improving survival and performance status with platinum-based chemotherapy for non-small cell lung cancer. However, astragalus-based herbal formula (Jinfukang) did not affect survival or pharmacokinetics of docetaxel in phase II study of patients with non-small cell lung cancer. [Not by prescription.] ▶? ♀? ▶? \$

BILBERRY (*Vaccinium myrtillus, huckleberry, Tegens, VMA extract*) Insufficient data to evaluate efficacy for macular degeneration or prevention

(cont.)

of cataracts. Does not appear effective for improving night vision. [Not by prescription.] ▶Bile, K ♀—D—\$

BITTER MELON (*Momordica charantia*, *ampalaya*, *karela*) Efficacy unclear for type 2 diabetes. Dose unclear; juice may be more potent than dried fruit powder. Hypoglycemic coma reported in 2 children ingesting tea. Seeds can cause hemolytic anemia in G6PD deficiency. [Not by prescription.] ▶? ♀—D—\$\$

BUTTERBUR (*Petesites hybridus*, *Petadolex*, *Petaforce*, *Tesalin*, *ZE 339*) Migraine prophylaxis (possibly effective): Petadolex 50 to 75 mg PO bid. Allergic rhinitis prophylaxis (possibly effective): Petadolex 50 mg PO bid or Tesalin 1 tab PO qid or 2 tabs tid. Efficacy unclear for asthma or allergic skin disease. [Not by prescription. Standardized pyrrolizidine-free extracts: Petadolex (7.5 mg of petasin and isopetasin/50 mg tab). Tesalin (ZE 339; 8 mg petasin/tab).] ▶? ♀—D—\$

CHAMOMILE (*Matricaria recutita*—*German chamomile*, *Anthemis nobilis*—*Roman chamomile*) Promoted as a sedative or anxiolytic, to relieve GI distress, for skin infections or inflammation, many other indications. Efficacy unclear for any indication. [Not by prescription.] ▶? ♀—D? \$

CHASTEBERRY (*Vitex agnus castus fruit extract*, *Femaprin*) Premenstrual syndrome (possibly effective): 20 mg PO daily of extract ZE 440. [Not by prescription.] ▶? ♀—D—\$

CHONDROITIN Does not appear effective for relief of knee OA pain, but possibly reduces joint space narrowing. Glucosamine/Chondroitin Arthritis Intervention Trial (GAIT) did not find overall improvement in pain of knee OA with chondroitin 400 mg PO tid ± glucosamine. Chondroitin + glucosamine improved pain in subgroup of patients with moderate to severe knee OA. [Not by prescription.] ▶K ♀? D? \$

COENZYME Q10 (*CoQ-10*, *ubiquinone*) Heart failure: 100 mg/day PO divided bid to tid (conflicting clinical trials; AHA does not recommend). Statin-induced myalgia: 100 to 200 mg PO daily (efficacy unclear; conflicting clinical trials). Parkinson's disease: 1200 mg/day PO divided qid (\$\$\$\$; efficacy unclear; might slow progression slightly, but the American Academy of Neurology does not recommend). Efficacy unclear for improving athletic performance. Appears ineffective for diabetes. [Not by prescription.] ▶Bile ♀—D—\$

CRANBERRY (*Cranactin*, *Vaccinium macrocarpon*) Prevention of UTI (possibly effective): 300 mL/day PO cranberry juice cocktail. Usual dose of cranberry juice extract caps/tabs is 300 to 400 mg PO bid. Insufficient data to assess efficacy for treatment of UTI. Potential increase in INR with warfarin. [Not by prescription.] ▶? ♀? D? \$

CREATINE Promoted to enhance athletic performance. No benefit for endurance exercise; modest benefit for intense anaerobic tasks lasting <30 sec. Usual loading dose of 20 g/day PO for 5 days, then 2 to 5 g/day divided bid. [Not by prescription.] ▶LK ♀—D—\$

DEHYDROEPIANDROSTERONE (*DHEA*, *Aslera*, *Fidelin*, *Prasterone*) Does not improve cognition, quality of life, or sexual function in elderly. To improve well-being in women with adrenal insufficiency: 50 mg PO daily (possibly effective; conflicting clinical trials). [Not by prescription.] ▶Peripheral conversion to estrogens and androgens ♀—D—\$

- DEVIL'S CLAW** (*Harpagophytum procumbens*, *Phyto Joint*, *Doloteffin*, *Harpadol*) OA, acute exacerbation of chronic low-back pain (possibly effective): 2400 mg extract/day (50 to 100 mg harpagoside/day) PO divided bid to tid. [Not by prescription. Extracts standardized to harpagoside (iridoid glycoside) content.] ▶? ♀-♂-\$
- DONG QUAI** (*Angelica sinensis*) Appears ineffective for postmenopausal symptoms; North American Menopause Society recommends against use. May increase bleeding risk with warfarin; avoid concurrent use. [Not by prescription.] ▶? ♀-♂-\$
- ECHINACEA** (*E purpurea*, *E angustifolia*, *E pallida*, *cone flower*, *EchinaGuard*, *Echinacin Madaus*) Conflicting clinical trials for prevention or treatment of upper respiratory infections. [Not by prescription.] ▶? ♀-♂-\$
- ELDERBERRY** (*Sambucus nigra*, *Rubini*, *Samburol*, *Sinupret*) Efficacy unclear for influenza, sinusitis, and bronchitis. [Not by prescription.] ▶? ♀-♂-\$
- EVENING PRIMROSE OIL** (*Oenothera biennis*) Appears ineffective for premenstrual syndrome, postmenopausal symptoms, atopic dermatitis. [Not by prescription.] ▶? ♀? ♂? \$
- FENUGREEK** (*Trigonelle foenum-graecum*) Efficacy unclear for diabetes or hyperlipidemia. [Not by prescription.] ▶? ♀-♂? \$\$
- FEVERFEW** (*Chrysanthemum parthenium*, *MIG-99*, *Migra-Lief*, *MigraSpray*, *Tanacetum parthenium* L.) Prevention of migraine (possibly effective): 50 to 100 mg extract PO daily; 2 to 3 fresh leaves PO with or after meals daily; 50 to 125 mg freeze-dried leaf PO daily. May take 1 to 2 months to be effective. Inadequate data to evaluate efficacy for acute migraine. [Not by prescription.] ▶? ♀-♂-\$
- FLAVOCOXID** (*Limbreil*, *UP446*) OA (efficacy unclear): 250 to 500 mg PO bid. [Caps 250, 500 mg. Marketed as medical food by prescription only (not all medical foods require a prescription). Medical foods are intended to be given under physician supervision to meet distinctive nutritional needs of a disease, but they do not undergo an approval process to establish safety and efficacy.] ▶? ♀-♂-\$\$\$
- GARCINIA** (*Garcinia cambogia*, *Citri Lean*) Appears ineffective for wt loss. [Not by prescription.] ▶? ♀-♂-\$
- GARLIC SUPPLEMENTS** (*Allium sativum*, *Kwai*, *Kyolic*) Ineffective for hyperlipidemia. Small reductions in BP, but efficacy in HTN unclear. Does not appear effective for diabetes. Significantly decreases saquinavir levels. May increase bleeding risk with warfarin with/without increase in INR. [Not by prescription.] ▶LK ♀-♂-\$
- GINGER** (*Zingiber officinale*) Prevention of motion sickness (efficacy unclear): 500 to 1000 mg powdered rhizome PO single dose 1 h before exposure. American College of Obstetrics and Gynecology considers ginger 250 mg PO qid a non-pharmacologic option for N/V of pregnancy. Does not appear effective for post-op N/V. [Not by prescription.] ▶? ♀? ♂? \$
- GINKGO BILOBA** (*Egb 761*, *Ginkgold*, *Ginkoba*) Dementia (efficacy unclear): 40 mg PO tid of standardized extract containing 24% ginkgo flavone glycosides and 6% terpenes lactones. The American Psychiatric Association and others

(cont.)

find evidence too weak for Alzheimer's or other dementias. Does not prevent dementia in elderly or improve memory in people with normal cognitive function. Does not appear effective for intermittent claudication or prevention of acute altitude sickness. Possible risk of stroke. [Not by prescription.] ▶K ♀-D-\$

GINSENG—AMERICAN (*Panax quinquefolius L.*) Reduction of postprandial glucose in type 2 diabetes (possibly effective): 3 g PO taken with or up to 2 h before meal. [Not by prescription.] ▶K ♀-D-\$

GINSENG—ASIAN (*Panax ginseng, Ginsana, G115, Korean red ginseng*) Promoted to improve vitality and well-being: 200 mg PO daily. Ginsana: 2 caps PO daily or 1 cap PO bid. Ginsana Sport: 1 cap PO daily. Preliminary evidence of efficacy for erectile dysfunction. Efficacy unclear for improving physical or psychomotor performance, diabetes, herpes simplex infections, cognitive or immune function. American College of Obstetrics and Gynecologists and North American Menopause Society recommend against use for postmenopausal hot flashes. [Not by prescription.] ▶? ♀-D-\$

GINSENG—SIBERIAN (*Eleutherococcus senticosus, Ci-wu-jia*) Does not appear effective for improving athletic endurance, or chronic fatigue syndrome. May interfere with some digoxin assays. [Not by prescription.] ▶? ♀-D-\$

GLUCOSAMINE (*Aflexa, Cosamin DS, Dona, Flextend, ProMotion*) Efficacy for OA is unclear (conflicting data). Glucosamine/Chondroitin Arthritis Intervention Trial (GAIT) did not find overall improvement in pain of knee OA with glucosamine HCl 500 mg ± chondroitin 400 mg both PO tid. Glucosamine + chondroitin did improve pain in subgroup of patients with moderate to severe OA. Some earlier studies reported improved pain with glucosamine sulfate (Dona 1500 mg PO once daily). Glucosamine sulfate was ineffective for hip OA in GOAL study. [Not by prescription.] ▶L ♀-D-\$

GOLDENSEAL (*Hydrastis canadensis*) Often used in attempts to achieve false-negative urine test for illicit drug use (efficacy unclear). Often combined with echinacea in cold remedies; but insufficient data to assess efficacy for common cold or URIs. [Not by prescription.] ▶? ♀-D-\$

GRAPE SEED EXTRACT (*Vitis vinifera L., procyanidolic oligomers, PCO*) Small clinical trials suggest benefit in chronic venous insufficiency. No benefit in single study of seasonal allergic rhinitis. [Not by prescription.] ▶? ♀? D? \$

GREEN TEA (*Camellia sinensis*) Efficacy unclear for cancer prevention, wt loss, hypercholesterolemia. Large doses might decrease INR with warfarin due to vitamin K content. Contains caffeine. [Not by prescription. Green tea extract available in caps standardized to polyphenol content.] ▶? ♀+ in moderate amount in food, - in supplements ▶+ in moderate amount in food, - in supplements \$

GUARANA (*Paullinia cupana*) Marketed as an ingredient in wt-loss dietary supplements. Seeds contain caffeine. Guarana in wt loss dietary supplements may provide high doses of caffeine. [Not by prescription.] ▶? ♀+ in food, - in supplements ▶+ in food, - in supplements \$

GUGGULIPID (*Commiphora mukul extract, guggul*) Does not appear effective for hyperlipidemia. [Not by prescription.] ▶? ♀-D-\$

HAWTHORN (*Crataegus laevigata, monogyna, oxyacantha, standardized extract WS 1442—Crataegutt novo, HeartCare*) Mild heart failure (possibly effective): 80 mg PO bid to 160 mg PO tid of standardized extract (19% oligomeric procyanidins; WS 1442; HeartCare 80 mg tabs). [Not by prescription.] ▶? ♀—D—\$

HONEY (*Medihoney*) Topical for burn/wound (including diabetic foot, stasis leg ulcers, pressure ulcers, 1st and 2nd degree partial thickness burns): Apply Medihoney for 12 to 24 h/day. Oral for nocturnal cough due to upper respiratory tract infection in children (efficacy unclear): Give PO within 30 min before sleep. Dose is ½ tsp for 2 to 5 yo, 1 tsp for 6 to 11 yo, 2 tsp for 12 to 18 yo. Do not feed honey to children younger than 1 yo due to risk of infant botulism. [Mostly not by prescription. Medihoney is FDA approved product.] ▶? ♀+D+\$ for PO \$\$\$ for Medihoney

HORSE CHESTNUT SEED EXTRACT (*Aesculus hippocastanum, HCE50, Venastat*) Chronic venous insufficiency (effective): 1 cap Venastat (16% aescin standardized extract) PO bid with water before meals. Am College of Cardiology found evidence insufficient to recommend for peripheral arterial disease. [Not by prescription.] ▶? ♀—D—\$

LICORICE (*Cankermelt, Glycyrrhiza glabra, Glycyrrhiza uralensis*) Insufficient data to assess efficacy for postmenopausal vasomotor symptoms. Chronic high doses can cause pseudo-primary aldosteronism (with HTN, edema, hypokalemia). Cankermelt (dissolving oral patch; efficacy unclear for aphthous ulcers): Apply patch to ulcer for 16 h/day until healed. [Not by prescription.] ▶Bile ♀—D—\$

MELATONIN (*N-acetyl-5-methoxytryptamine*) To reduce jet lag after flights over more than 5 time zones (possibly effective): 0.5 to 5 mg PO qhs for 3 to 6 nights starting on day of arrival. [Not by prescription.] ▶L ♀—D—\$

METHYLSULFONYLMETHANE (*MSM, dimethyl sulfone, crystalline DMSO2*) Insufficient data to assess efficacy of oral and topical MSM for arthritis pain. [Not by prescription.] ▶? ♀—D—\$

MILK THISTLE (*Silybum marianum, Legalon, silymarin, Thisylin*) Hepatic cirrhosis (possibly effective): 100 to 200 mg PO tid of standardized extract with 70 to 80% silymarin. [Not by prescription.] ▶LK ♀—D—\$

NETTLE ROOT (*stinging nettle, Urtica dioica radix*) Efficacy unclear for treatment of BPH. [Not by prescription.] ▶? ♀—D—\$

NONI (*Morinda citrifolia*) Promoted for many medical disorders; but insufficient data to assess efficacy. Potassium content comparable to orange juice; hyperkalemia reported in chronic renal failure. Case reports of hepatotoxicity. [Not by prescription.] ▶? ♀—D—\$\$\$

PEPPERMINT OIL (*Mentha-x piperita oil*) Irritable bowel syndrome (possibly effective): 0.2 to 0.4 mL enteric-coated caps PO tid. Peds, 8 yo or older: 0.1 to 0.2 mL enteric-coated caps PO tid. Take before meals) ▶LK L+ in food, ? in supplements D+ in food, ? in supplements \$

POLICOSANOL (*CholeRx, Cholestin*) Ineffective for hyperlipidemia. A Cuban formulation (unavailable in the United States) 5 mg bid reduced LDL cholesterol in studies by a single group of researchers, but studies by other groups found no benefit. Clinical study of a US formulation also found no benefit. [Not by prescription.] ▶? ♀—D—\$

PROBIOTICS (*Acidophilus*, *Align*, *Bifantis*, *Bifidobacteria*, *Lactobacillus*, *Bacid*, *Culturelle*, *Florastor*, *IntestiFlora*, *Lactinex*, *LiveBac*, *Power-Dophilus*, *Primadophilus*, *Probiotica*, *Saccharomyces boulardii*, *VSL#3*) Prevention of antibiotic-associated diarrhea (effective): Forastor (*Saccharomyces boulardii*) 2 caps PO bid for adults; 1 cap PO bid for peds. Culturelle (*Lactobacillus GG*) 1 cap PO once daily or bid for peds. Give 2 h before/after antibiotic. Peds rotavirus gastroenteritis (effective): *Lactobacillus GG* at least 10 billion cells/day PO started early in illness. *VSL#3* (approved as medical food) for ulcerative colitis or pouchitis: 1 to 8 packets/day or 4 to 32 caps/day for adults; peds dose based on wt and number of bowel movements. Irritable bowel syndrome: *VSL#3* either ½ to 1 packet PO daily or 2 to 4 caps PO daily to relieve gas/bloating. *Align*: 1 cap PO once daily to relieve abdominal pain/bloating. Safety and efficacy of probiotics unclear for prevention of recurrent *C difficile* diarrhea. [Not by prescription. Culturelle contains *Lactobacillus GG* 10 billion cells/cap. Florastor contains *Saccharomyces boulardii* 5 billion cells/250 mg cap. Probiotica contains *Lactobacillus reuteri* 100 million cells/chewable tab. *VSL#3* contains 450 billion cells/packet, 225 billion cells/2 caps (*Bifidobacterium breve*, longum, infantis; *Lactobacillus acidophilus*, plantarum, casei, bulgaricus; *Streptococcus thermophilus*). *Align* contains *Bifidobacterium infantis* 35624 1 billion cells/cap. *VSL#3* is marketed as non-prescription medical food. Medical foods are intended to be given under physician supervision to meet distinctive nutritional needs of a disease, but they do not undergo an approval process to establish safety and efficacy.] ▶? ♀+ ♂+ \$

PYCNOGENOL (*French maritime pine tree bark*) Promoted for many medical disorders; but efficacy unclear for chronic venous insufficiency, HTN, sperm dysfunction, melasma, OA, diabetes, and ADHD. [Not by prescription.] ▶L ♀? ♂? \$

PYGEUM AFRICANUM (*African plum tree*, *Prostatonin*) BPH (may have modest efficacy): 50 to 100 mg PO bid or 100 mg PO daily of standardized extract containing 14% triterpenes. *Prostatonin* (also contains *Urtica dioica*): 1 cap PO bid with meals up to 6 weeks for full response. [Not by prescription.] ▶? ♀- ♂- \$

RED CLOVER (*red clover isoflavone extract*, *Trifolium pratense*, *trefoil*, *Promensil*, *Rimostil*, *Trinovin*) Postmenopausal vasomotor symptoms (conflicting evidence; does not appear effective overall, but may have modest benefit for severe symptoms): *Promensil* 1 tab PO daily to bid with meals. [Not by prescription. Isoflavone content (genistein, daidzein, biochanin, formononetin) is 40 mg/tab in *Promensil* and *Trinovin*, 57 mg/tab in *Rimostil*.] ▶Gut, L, K ♀- ♂- \$\$

RED YEAST RICE (*Monascus purpureus*, *Xuezhikang*, *Zhibituo*, *Hypocol*, *Lipolysar*) Efficacy of currently available US products for hyperlipidemia is unclear. Some products were removed from the market because they contained up to 10 mg/day of lovastatin. Others, such as *Cholestin*, were reformulated with policosanol (ineffective for hyperlipidemia). Myopathy has been reported with red yeast rice supplements. [Not by prescription. *Xuezhikang* marketed in Asia, Norway (*HypoCol*), Italy (*Lipolysar*).] ▶L ♀- ♂- \$\$

- S-ADENOSYLMETHIONINE (SAM-e, sammy)** Depression (possibly effective): 400 to 1600 mg/day PO. OA (possibly effective): 400 to 1200 mg/day PO. Onset of response in OA in 2 to 4 weeks. [Not by prescription.] ▶L ♀? ▶ \$\$\$
- SAINT JOHN'S WORT** (*Hypericum perforatum*, *Kira*, *Movana*, *LI-160*, *St John's wort*) Mild depression (effective): 300 mg PO tid of standardized extract (0.3% hypericin). Conflicting clinical trials for moderate major depression. Does not appear effective for ADHD. May decrease efficacy of other drugs (eg, ritonavir, or oral contraceptives) by inducing liver metabolism. May cause serotonin syndrome with SSRIs, MAOIs. [Not by prescription.] ▶L ♀-▶-\$
- SAW PALMETTO** (*Serenoa repens*, *Quanterra*) BPH (possibly effective for mild to moderate only): 160 mg PO bid or 320 mg PO daily of standardized liposterolic extract. Take with food. Brewed teas may not be effective. [Not by prescription.] ▶? ♀-▶-\$
- SHARK CARTILAGE** (*BeneFin*, *Cartilade*) Appears ineffective for palliative care of advanced cancer. [Not by prescription.] ▶? ♀-▶-\$\$\$\$
- SOY** (*Genisoy*, *Healthy Woman*, *Novasoy*, *Phytosoya*, *Supro*) Cardiovascular risk reduction: at least 25 g/day soy protein (50 mg/day isoflavones) PO. Hypercholesterolemia: about 50 g/day soy protein PO reduces LDL cholesterol by about 3%; no apparent benefit for isoflavone supplements. Postmenopausal vasomotor symptoms (modest benefit if any): 20 to 60 g/day soy protein PO (40 to 80 mg/day isoflavones). Conflicting clinical trials for postmenopausal bone loss. [Not by prescription.] ▶Gut, L, K ♀+ for food, ? for supplements ▶+ for food, ? for supplements \$
- STEVIA** (*Stevia rebaudiana*) Leaves traditionally used as sweetener. Efficacy unclear for treatment of type 2 diabetes or HTN. [Not by prescription.] ▶L ♀-▶? \$
- TEA TREE OIL** (*melaleuca oil*, *Melaleuca alternifolia*) Not for oral use; CNS toxicity reported. Efficacy unclear for onychomycosis, tinea pedis, acne vulgaris, dandruff, pediculosis. [Not by prescription.] ▶? ♀-▶-\$
- VALERIAN** (*Valeriana officinalis*, *Alluna*, *Sleep-Tite*) Insomnia (possibly modestly effective; conflicting clinical trials): 400 to 900 mg of standardized extract PO 30 min qhs. Alluna: 2 tabs PO 1 h qhs. [Not by prescription.] ▶? ♀-▶-\$
- WILD YAM** (*Dioscorea villosa*) Ineffective as topical "natural progestin". Was used historically to synthesize progestins, cortisone, and androgens; it is not converted to them or dehydroepiandrosterone (DHEA) in the body. [Not by prescription.] ▶L ♀? ▶ \$
- WILLOW BARK EXTRACT** (*Salix alba*, *Salicis cortex*, *Assalix*, *salicin*) OA, low-back pain (possibly effective): 60 to 240 mg/day salicin PO divided bid to tid. [Not by prescription. Some products standardized to 15% salicin content.] ▶K ♀-▶-\$
- YOHIMBE** (*Corynanthe yohimbe*, *Pausinystalia yohimbe*, *Potent V*) Non-prescription yohimbe promoted for impotence and as aphrodisiac, but these products rarely contain much yohimbine. FDA considers yohimbe bark in herbal

remedies an unsafe herb. [Yohimbine is the primary alkaloid in the bark of the yohimbe tree. Yohimbine HCl is a prescription drug in the United States; yohimbe bark is available without prescription. Yohimbe bark (not by prescription) and prescription yohimbine HCl are not interchangeable.] ▶L ♀-D-\$

IMMUNOLOGY

Immunizations

NOTE For vaccine info see CDC website (www.cdc.gov). See table for prevention and treatment of 2009 H1N1 influenza in appendix.

AVIAN INFLUENZA VACCINE H5N1—INACTIVATED INJECTION 1 mL IM for 2 doses, separated by 21 to 35 days. ▶Immune system ♀C D? ?

BCG VACCINE (*Tice BCG*, *†Oncotice*, *Immucyst*) 0.2 to 0.3 mL percutaneously. ▶Immune system ♀C D? \$\$\$\$

COMVAX (hemophilus B vaccine + hepatitis B vaccine) Infants born of HBsAg (negative) mothers: 0.5 mL IM for 3 doses, given at 2, 4, and 12 to 15 months. ▶Immune system ♀C D? \$\$\$

DIPHTHERIA TETANUS AND ACELLULAR PERTUSSIS VACCINE (*DTaP*, *Tdap*, *Tripedia*, *Infanrix*, *Daptacel*, *Boostrix*, *Adacel*, *†Tripacel*) 0.5 mL IM. Do not use Boostrix or Adacel for primary childhood vaccination series. ▶Immune system ♀C D-\$

DIPHTHERIA-TETANUS TOXOID (*Td*, *DT*, *†D2T5*) 0.5 mL IM. [Use DT injection for pediatric patients 6 weeks to 6 yo. Use Td for children 7 yo or older, and adults.] ▶Immune system ♀C D? \$

HAEMOPHILUS B VACCINE (*ActHIB*, *HibTITER*, *PedvaxHIB*) 0.5 mL IM. Dosing schedule varies depending on formulation used and age of child at first dose. ▶Immune system ♀C D? \$\$

HEPATITIS A VACCINE (*Havrix*, *Vaqta*, *†Avaxim*, *Epaxal*) Adult formulation 1 mL IM, repeat in 6 to 12 months. Peds: 0.5 mL IM for age 1 yo or older, repeat 6 to 18 months later. [Single-dose vial (specify pediatric or adult).] ▶Immune system ♀C D+ \$\$\$

HEPATITIS B VACCINE (*Engerix-B*, *Recombivax HB*) Adults: 1 mL IM, repeat in 1 and 6 months later. Separate pediatric formulations and dosing. ▶Immune system ♀C D+ \$\$\$

HUMAN PAPILLOMAVIRUS RECOMBINANT VACCINE (*Gardasil*) 0.5 mL IM, then repeat at 2 and 6 months later. ▶Immune system ♀B D? \$\$\$\$\$

INFLUENZA VACCINE—INACTIVATED INJECTION (*Afluria*, *Fluarix*, *FluLaval*, *Fluzone*, *Fluvirin*, *†Fluviral*, *Vaxigrip*) 0.5 mL IM. Fluarix and FluLaval not indicated for age younger than 18 yo, Fluvirin not indicated if age younger than 4 yo. ▶Immune system ♀C D+ \$

INFLUENZA VACCINE—LIVE INTRANASAL (*FluMist*) 1 dose (0.2 mL) intranasally. Use only if 2 to 49 yo. ▶Immune system ♀C D+ \$

JAPANESE ENCEPHALITIS VACCINE (*JE-Vax*) 1 mL SC for 3 doses on day 0, 7, and 30. ▶Immune system ♀C D? \$\$\$\$

MEASLES MUMPS & RUBELLA VACCINE (*M-M-R II*, *†Priorix*) 0.5 mL (1 vial) SC. ▶Immune system ♀C D+ \$\$\$

- MENINGOCOCCAL VACCINE** (*Menomune-A/C/Y/W-135, Menactra, +Menjugate*) 0.5 mL SC (Menomune) or IM (Menactra). ▶Immune system ♀C D? \$\$\$\$
- PEDIARIX** (diphtheria tetanus and acellular pertussis vaccine + hepatitis B vaccine + polio vaccine) 0.5 mL IM at 2, 4, 6 mo. ▶Immune system ♀C D? \$\$\$
- PLAGUE VACCINE** 1 mL IM first dose, then 0.2 mL IM 1 to 3 months after the first injection, then 0.2 mL IM 5 to 6 months later for age 18 to 61 yo. ▶Immune system ♀C D+ \$
- PNEUMOCOCCAL 23-VALENT VACCINE** (*Pneumovax, +Pneumo 23*) 0.5 mL IM/SC. ▶Immune system ♀C D+ \$\$
- PNEUMOCOCCAL 7-VALENT CONJUGATE VACCINE** (*Prevnar*) 0.5 mL IM for 3 doses 6 to 8 weeks apart starting at age 2 to 6 mo, followed by a 4th dose at 12 to 15 mo. ▶Immune system ♀C D? \$\$\$
- POLIO VACCINE** (*IPOL*) 0.5 mL IM or SC. ▶Immune system ♀C D? \$\$
- PROQUAD** (measles mumps & rubella vaccine + varicella vaccine) (MMRV) 0.5 mL (1 vial) SC for age 12 mo to 12 yo. ▶Immune system ♀C D? \$\$\$\$
- RABIES VACCINE** (*RabAvert, Imovax Rabies, BioRab, Rabies Vaccine Adsorbed*) 1 mL IM in deltoid region on day 0, 3, 7, 14, 28. ▶Immune system ♀C D? \$\$\$\$
- ROTAVIRUS VACCINE** (*RotaTeq, Rotarix*) RotaTeq: Give the first dose (2 mL PO) between 6 to 12 weeks of age, and then 2nd and 3rd doses at 4 to 10 weeks intervals thereafter (last dose no later than 32 weeks). Rotarix: Give first dose (1 mL) at 6 weeks of age, and 2nd dose (1 mL) at least 4 weeks later, and last dose prior to 24 weeks of age. [Trade only: Oral susp 2 mL (RotaTeq), 1 mL (Rotarix).] ▶Immune system ♀D? \$\$\$\$
- TETANUS TOXOID** 0.5 mL IM/SC. ▶Immune system ♀C D+ \$\$
- TRIHIBIT** (hemophilus B vaccine + diphtheria tetanus and acellular pertussis vaccine) Use for 4th dose only, age 15 to 18 mo: 0.5 mL IM. ▶Immune system ♀C D- \$\$\$
- TWINRIX** (hepatitis A vaccine + hepatitis B vaccine) Adults: 1 mL IM in deltoid, repeat 1 and 6 months later. Accelerated dosing schedule: 0, 7, 21 to 30 days and booster dose at 12 months. ▶Immune system ♀C D? \$\$\$\$
- TYPHOID VACCINE—INACTIVATED INJECTION** (*Typhim Vi, +Typherix*) 0.5 mL IM single dose. May revaccinate q 2 to 5 years if high risk. ▶Immune system ♀C D? \$\$
- TYPHOID VACCINE—LIVE ORAL** (*Vivotif Berna*) 1 cap every other day for 4 doses. May revaccinate q 2 to 5 years if high risk. [Trade only: Caps.] ▶Immune system ♀C D? \$\$
- VARICELLA VACCINE** (*Varivax, +Varilrix*) Children 1 to 12 yo: 0.5 mL SC. Repeat dose at ages 4 to 6 yo. Age 13 yo or older: 0.5 mL SC, repeat 4 to 8 weeks later. ▶Immune system ♀C D+ \$\$\$\$
- YELLOW FEVER VACCINE** (*YF-Vax*) 0.5 mL SC. ▶Immune system ♀C D+ \$\$\$
- ZOSTER VACCINE—LIVE** (*Zostavax*) 0.65 mL SC single dose for age 60 yo or older. ▶Immune system ♀C D? \$\$\$\$

Immunoglobulins**ANTIVENIN—CROTALIDAE IMMUNE FAB OVINE POLYVALENT (CroFab)**

Rattlesnake envenomation: Give 4 to 6 vials IV infusion over 60 min, within 6 h of bite if possible. Administer 4 to 6 additional vials if no initial control of envenomation syndrome, then 2 vials q 6 h for up to 18 h (3 doses) after initial control has been established. ▶? ♀? ▶? \$\$\$\$\$

BOTULISM IMMUNE GLOBULIN (BabyBIG) **Infant botulism:** give 1 mL/kg (50 mg/kg) IV for age younger than 1 yo. ▶L ♀? ▶? \$\$\$\$\$

HEPATITIS B IMMUNE GLOBULIN (H-BIG, HyperHep B, HepaGam B, NABI-HB) 0.06 mL/kg IM within 24 h of needlestick, ocular, or mucosal exposure, repeat in 1 month. ▶L ♀? ▶? \$\$\$

IMMUNE GLOBULIN—IM (Baygam, Gamastan) **Hepatitis A prophylaxis:** 0.02 to 0.06 mL/kg IM depending on length of travel to endemic area. **Measles (within 6 days post-exposure):** 0.2 to 0.25 mL/kg IM. ▶L ♀? ▶? \$\$\$\$

IMMUNE GLOBULIN—IV (Carimune, Polygam, Panglobulin, Octagam, Flebogamma, Gammagard, Gamunex, Iveegam, Privigen, Venoglobulin) IV dosage varies by indication and product. ▶L ♀? ▶? \$\$\$\$\$

IMMUNE GLOBULIN—SC (Vivaglobulin) 100 to 200 mg/kg SC weekly. ▶L ♀? ▶? \$\$\$\$\$

LYMPHOCYTE IMMUNE GLOBULIN (Atgam) Specialized dosing. ▶L ♀? ▶? \$\$\$\$\$

CHILDHOOD IMMUNIZATION SCHEDULE*

Age	Months					Years					
	Birth	1	2	4	6	12	15	18	2	4-6	11-12
Hepatitis B	HB	HB				HB					
Rotavirus			Rota	Rota	Rota [®]						
DTP			DTaP	DTaP	DTaP		DTaP			DTaP	DTaP***
H influenza b			Hib	Hib	Hib	Hib					
Pneumococci**			PCV	PCV	PCV	PCV					
Polio			IPV	IPV	IPV				IPV		
Influenza†					Influenza (yearly)†						
MMR						MMR				MMR	
Varicella						Varicella				Vari	
Hepatitis A [†]						Hep A × 2 [†]					
Papillomavirus [‡]										HPV × 3 [‡]	
Meningococcal [§]										MCV [§]	

*2009 schedule from the CDC, ACIP, AAP, & AAFP, see CDC website (www.cdc.gov/vaccines/recs/schedules/default.htm).

**Administer 1 dose to all healthy children 24-59 months having an incomplete schedule.

***When immunizing adolescents 10 yo or older consider DTaP if patient has never received a pertussis booster (*Boostrix* if 10-18 yo, *Adacel* if 11-64 yo).

†If using *Rotarix* at 2 and 4 months, dose at 6 months is not indicated.

‡For healthy patients age 2 yo or greater can use intranasal form. If age less than 9 yo and receiving for first time, administer 2 doses 4 or more weeks apart for injected form and 6 or more weeks apart for intranasal form.

§Two doses at least 6 months apart.

¶Second and third doses 2 and 6 months after first dose.

¶For children 2-10 yo at high risk for meningococcal disease, vaccinate with meningococcal polysaccharide vaccine (*Menactra*).

TETANUS WOUND CARE (www.cdc.gov)		
	Unknown or less than 3 prior tetanus immunizations	3 or more prior tetanus immunizations
Non-tetanus prone wound (e.g., clean and minor)	Td (DT age younger than 7 yo)	Td if more than 10 years since last dose
Tetanus prone wound (e.g., dirt, contamination, punctures, crush components)	Td (DT age younger than 7 yo), tetanus immune globulin 250 units IM at site other than Td.	Td if more than 5 years since last dose

If patient age 10 yo or older has never received a pertussis booster consider DTaP (*Boostrix* if 10-18 yo, *Adacel* if 11-64 yo).

RABIES IMMUNE GLOBULIN HUMAN (*Imogam Rabies-HT, HyperRAB S/D*) 20 units/kg, as much as possible infiltrated around bite, the rest IM. ▶L ♀C ▶? \$\$\$\$\$

RSV IMMUNE GLOBULIN (*RespiGam*) IV infusion for RSV. ▶Plasma ♀C ▶? \$\$\$\$\$

TETANUS IMMUNE GLOBULIN (*BayTet, Hypertet*) Prophylaxis: 250 units IM. ▶L ♀C ▶? \$\$\$\$\$

VARICELLA-ZOSTER IMMUNE GLOBULIN (*VariZIG, VZIG*) Specialized dosing. ▶L ♀C ▶? \$\$\$\$\$

Immunosuppression

BASILIXIMAB (*Simulect*) Specialized dosing for organ transplantation. ▶Plasma ♀B ▶? \$\$\$\$\$

CYCLOSPORINE (*Sandimmune, Neoral, Gengraf*) Specialized dosing for organ transplantation, RA, and psoriasis. [Generic/Trade: Microemulsion Caps 25, 100 mg. Generic/Trade: Caps (Sandimmune) 25, 100 mg. Soln (Sandimmune) 100 mg/mL, Microemulsion soln (Neoral, Gengraf) 100 mg/mL.] ▶L ♀C ▶- \$\$\$\$\$

DACLIZUMAB (*Zenapax*) Specialized dosing for organ transplantation. ▶L ♀C ▶? \$\$\$\$\$

MYCOPHENOLATE MOFETIL (*Cellcept, Myfortic*) Specialized dosing for organ transplantation. [Generic/Trade: Caps 250 mg. Tabs 500 mg. Trade only (Cellcept): Oral susp 200 mg/mL. Trade only (Myfortic): Tabs, Extended-release: 180, 360 mg.] ▶? ♀D ▶? \$\$\$\$\$

SIROLIMUS (*Rapamune*) Specialized dosing for organ transplantation. [Trade only: Oral soln 1 mg/mL (60 mL). Tabs 1, 2 mg.] ▶L ♀C ▶- \$\$\$\$\$

TACROLIMUS (*Prograf, FK 506*) Specialized dosing for organ transplantation. [Trade only: Caps 0.5, 1, 5 mg.] ▶L ♀C ▶- \$\$\$\$\$

Other

HYMENOPTERA VENOM Specialized desensitization dosing protocol. ▶Serum ♀C ▶? \$\$\$\$\$

TUBERCULIN PPD (*Aplisol, Tubersol, Mantoux, PPD*) 5 TU (0.1 mL) intradermally, read 48 to 72 h later. ▶L ♀C ▶+ \$

NEUROLOGY

Alzheimer's Disease—Cholinesterase Inhibitors

DONEPEZIL (*Aricept*) Start 5 mg PO qhs. May increase to 10 mg PO qhs in 4 to 6 weeks. For severe disease (MMSE 10 or less), the recommended dose is 10 mg/day. [Generic/Trade: Tabs 5, 10 mg. Trade only: Orally disintegrating tabs 5, 10 mg.] ▶LK ♀C ▶? \$\$\$\$

GALANTAMINE (*Razadyne, Razadyne ER, +Reminyl*) Extended-release: Start 8 mg PO qam with food; increase to 16 mg qam after 4 weeks. May increase to 24 mg qam after another 4 weeks. Immediate-release: Start 4 mg PO bid with food; increase to 8 mg bid after 4 weeks. May increase to 12 mg bid after another 4 weeks. [Generic/Trade: Tabs (Razadyne) 4, 8, 12 mg. Extended-release caps (Razadyne ER) 8, 16, 24 mg. Oral soln 4 mg/mL. Prior to April 2005 was called Reminyl.] ▶LK ♀B ▶? \$\$\$\$

RIVASTIGMINE (*Exelon, Exelon Patch*) Alzheimer's disease: Start 1.5 mg PO bid with food. Increase to 3 mg bid after 2 weeks. Max 12 mg/day. Patch: Start 4.6 mg/24 h once daily; may increase after 1 month or more to max 9.5 mg/24 h. Dementia associated with Parkinson's disease: Start 1.5 mg PO bid with food. Increase by 3 mg/day at intervals greater than 4 weeks to max 12 mg/day. Patch: Start 4.6 mg/24 h once daily; may increase after 1 month or more to max 9.5 mg/24 h. [Generic/Trade: Caps 1.5, 3, 4.5, 6 mg. Trade only: Oral soln 2 mg/mL (120 mL). Transdermal patch: 4.6 mg/24 h (9 mg/patch), 9.5 mg/24 h (18 mg/patch).] ▶K ♀B ▶? \$\$\$\$

Alzheimer's Disease—NMDA Receptor Antagonists

MEMANTINE (*Namenda, +Ebixa*) Start 5 mg PO daily. Increase by 5 mg/day at weekly intervals to max 20 mg/day. Doses greater than 5 mg/day should be divided bid. [Trade only: Tabs 5, 10 mg. Oral soln 2 mg/mL.] ▶KL ♀B ▶? \$\$\$\$

Anticonvulsants

CARBAMAZEPINE (*Tegretol, Tegretol XR, Carbatrol, Epitol, Equetro*) Epilepsy: 200 to 400 mg PO bid to qid. Extended-release: 200 mg PO bid. Age younger than 6 yo: 10 to 20 mg/kg/day PO divided bid to qid. Age 6 to 12 yo: 100 mg PO bid or 50 mg PO qid; increase by 100 mg/day at weekly intervals divided tid to qid (regular-release), bid (extended-release), or qid (susp). Bipolar disorder, acute manic/mixed episodes (Equetro): Start 200 mg PO bid; increase by 200 mg/day to max 1600 mg/day. Aplastic anemia, agranulocytosis, many drug interactions. [Generic/Trade: Tabs 200 mg, Chewable tabs 100 mg, Susp 100 mg/5 mL. Extended-release tabs (Tegretol XR) 100, 200, 400 mg. Generic only: Tabs 100, 300, 400 mg, Chewable tabs 200 mg. Trade only: Extended-release caps (Carbatrol and Equetro): 100, 200, 300 mg.] ▶LK ♀D ▶+ \$\$

CLOBAZAM (+*Frisium*) Canada only. Adults: Start 5 to 15 mg PO daily. Increase prn to max 80 mg/day. Children younger than 2 yo: 0.5 to 1 mg/kg PO

(cont.)

daily. Children age 2 to 16 yo: Start 5 mg PO daily. May increase prn to max 40 mg/day. [Generic/Trade: Tabs 10 mg.] ▶L ♀X (first trimester) D (2nd/3rd trimesters) ▶-\$

ETHOSUXIMIDE (Zarontin) Absence seizures, age 3 to 6 yo: Start 250 mg PO daily (or divided bid). Age older than 6 yo: Start 500 mg PO daily or bid. Max 1.5 g/day. [Generic/Trade: Caps 250 mg. Syrup 250 mg/5 mL.] ▶LK ♀C ▶+ \$\$\$\$

FELBAMATE (Felbatol) Start 400 mg PO tid. Max 3600 mg/day. Peds: Start 15 mg/kg/day PO divided tid to qid. Max 45 mg/kg/day. Aplastic anemia, hepatotoxicity. Not first line. Requires written informed consent. [Trade only: Tabs 400, 600 mg. Susp 600 mg/5 mL.] ▶KL ♀C ▶- \$\$\$\$\$

FOSPHENYTOIN (Cerebyx) Load: 15 to 20 mg "phenytoin equivalents" (PE) per kg IM/IV no faster than 150 PE mg/min. Maintenance: 4 to 6 PE/kg/day. ▶L ♀D ▶+ \$\$\$\$

GABAPENTIN (Neurontin) Partial seizures, adjunctive therapy: Start 300 mg PO qhs. Increase gradually to 300 to 600 mg PO tid. Max 3600 mg/day. Postherpetic neuralgia: Start 300 mg PO on day 1; increase to 300 mg bid on day 2, and to 300 mg tid on day 3. Max 1800 mg/day. Partial seizures, initial monotherapy: Titrate as above. Usual effective dose is 900 to 1800 mg/day. [Generic only: Tabs 100, 300, 400 mg. Generic/Trade: Caps 100, 300, 400 mg. Tabs (scored) 600, 800 mg. Soln 50 mg/mL.] ▶K ♀C ▶? \$\$\$\$

LACOSAMIDE (Vimpat) Partial onset seizures, adjunctive: Start 50 mg PO/IV bid. Increase by 50 mg bid to recommended dose of 100 to 200 mg bid. Max 600 mg/day or 300 mg/day in mild/mod hepatic or severe renal impairment. [Trade only: Tabs 50, 100, 150, 200 mg.] ▶KL ♀C ▶? ?

LAMOTRIGINE (Lamictal, Lamictal CD, Lamictal ODT) Partial seizures, Lennox-Gastaut syndrome, or generalized tonic-clonic seizures adjunctive therapy with a single enzyme-inducing anticonvulsant. Age 2 to 12 yo: dosing is based on wt and concomitant meds (see package insert). Age older than 12 yo: 50 mg PO daily for 2 weeks, then 50 mg bid for 2 weeks, then gradually increase to 150 to 250 mg PO bid. Also approved for conversion to monotherapy (age 16 yo or older): See package insert. Drug interaction with valproate (see package insert for adjusted dosing guidelines). Potentially life-threatening rashes reported in 0.3% of adults and 0.8% of children; discontinue at first sign of rash. [Generic/Trade: Chewable dispersible tabs (Lamictal CD) 2, 5, 25 mg. Tabs, 25, 100, 150, 200 mg. Trade only: Orally disintegrating tabs (Lamictal ODT) 25, 50, 100, 200 mg. Chewable dispersible tabs (Lamictal CD) 2 mg may not be available in all pharmacies; obtain through manufacturer representative, or by calling 1-888-825-5249.] ▶LK ♀C (see notes) ▶- \$\$\$\$

LEVETIRACETAM (Keppra, Keppra XR) Partial seizures, juvenile myoclonic epilepsy (JME), or primary generalized tonic-clonic seizures (GTC), adjunctive: Start 500 mg PO/IV bid or 1000 mg/day (Keppra XR, partial seizures only); increase by 1000 mg/day q 2 weeks prn to max 3000 mg/day (partial seizures) or to target dose of 3000 mg/day (JME or GTC). IV route not approved for GTC or if age less than 16 yo. [Generic/Trade: Tabs 250, 500, 750, 1000 mg, Oral soln 100 mg/mL. Trade only: Tabs, extended-release 500, 750 mg.] ▶K ♀C ▶? \$\$\$\$

OXCARBAZEPINE (Trileptal) Start 300 mg PO bid. Titrate to 1200 mg/day (adjunctive) or 1200 to 2400 mg/day (monotherapy). Peds 2 to 16 yo: Start 8 to 10 mg/kg/day divided bid. Life-threatening rashes & hypersensitivity reactions. [Generic/Trade: Tabs (scored) 150, 300, 600 mg. Trade only: Oral susp 300 mg/5 mL.] ▶LK ♀C ▶— \$\$\$\$\$

PHENOBARBITAL (Luminal) Load: 20 mg/kg IV at rate no faster than 60 mg/min. Maintenance: 100 to 300 mg/day PO given once daily or divided bid. Peds 3 to 5 mg/kg/day PO divided bid to tid. Many drug interactions. [Generic only: Tabs 15, 16.2, 30, 32.4, 60, 100 mg. Elixir 20 mg/5 mL.] ▶L ♀D ▶— ©IV \$

PHENYTOIN (Dilantin, Phenytek) Status epilepticus: Load 10 to 15 mg/kg IV no faster than 50 mg/min, then 100 mg IV/PO q 6 to 8 h. Epilepsy: Oral load: 400 mg PO initially, then 300 mg in 2 h and 4 h. Maintenance: 5 mg/kg (or 300 mg PO) given once daily (extended-release) or divided tid (standard-release) and titrated to a therapeutic level. [Generic/Trade: Extended-release caps 30, 100 mg (Dilantin). Susp 125 mg/5 mL. Trade only: Extended-release caps 200, 300 mg (Phenytek). Chewable tabs 50 mg (Dilantin Infatabs). Generic only: Extended-release caps 200, 300 mg.] ▶L ♀D ▶+ \$\$

PREGABALIN (Lyrica) Painful diabetic peripheral neuropathy: Start 50 mg PO tid; may increase within 1 week to max 100 mg PO tid. Postherpetic neuralgia: Start 150 mg/day PO divided bid to tid. May increase within 1 week to 300 mg/day divided bid to tid; max 600 mg/day. Partial seizures (adjunctive): Start 150 mg/day PO divided bid to tid; increase prn to max 600 mg/day divided bid to tid. Fibromyalgia: Start 75 mg PO bid; may increase to 150 mg bid within 1 week; max 225 mg bid. [Trade only: Caps 25, 50, 75, 100, 150, 200, 225, 300 mg.] ▶K ♀C ▶? ©V \$\$\$\$\$

PRIMIDONE (Mysoline) Start 100 to 125 mg PO qhs. Increase over 10 days to 250 mg tid to qid. Max 2 g/day. Metabolized to phenobarbital. [Generic/Trade: Tabs 50, 250 mg.] ▶LK ♀D ▶— \$\$\$\$

RUFINAMIDE (Banzel) Start 400 to 800 mg/day PO divided bid. Increase by 400 to 800 mg/day q 2 day to max 3200 mg/day. [Trade only: Tabs 200, 400 mg.] ▶K ♀C ▶? \$\$\$\$\$

TIAGABINE (Gabitril) Start 4 mg PO daily. Increase by 4 to 8 mg/day at weekly intervals prn to max 32 mg/day for age 12 to 18 yo or max 56 mg/day for age older than 18 yo divided bid to qid. Avoid off-label use. [Trade only: Tabs 2, 4, 12, 16 mg.] ▶L ♀C ▶? \$\$\$\$\$

TOPIRAMATE (Topamax) Partial seizures or primary generalized tonic-clonic seizures, monotherapy for age older than 10 yo: Start 25 mg PO bid (week 1), 50 mg bid (week 2), 75 mg bid (week 3), 100 mg bid (week 4), 150 mg bid (week 5), then 200 mg bid as tolerated. Partial seizures, primary generalized tonic-clonic seizures, or Lennox-Gastaut syndrome, adjunctive therapy: Start 25 to 50 mg PO qhs. Increase weekly by 25 to 50 mg/day to usual effective dose of 200 mg PO bid. Doses greater than 400 mg/day not shown to be more effective. Migraine prophylaxis: Titrate to 50 mg PO bid over 4 weeks. [Generic/Trade: Tabs 25, 50, 100, 200 mg. Sprinkle Caps 15, 25 mg.] ▶K ♀C ▶? \$\$\$\$\$

VALPROIC ACID (Depakene, Depakote, Depakote ER, Depacon, Stavzor, divalproex, sodiumvalproate, ⚡Epival, Deproic) Epilepsy: 10 to 15 mg/kg/day

PO/IV divided bid to qid (standard-release, delayed-release, or IV) or given once daily (Depakote ER). Titrate to max 60 mg/kg/day. Use rate no faster than 20 mg/min when given IV. **Migraine prophylaxis:** Start 250 mg PO bid (Depakote or Stavzor) or 500 mg PO daily (Depakote ER) for 1 week, then increase to max 1000 mg/day PO divided bid (Depakote or Stavzor) or given once daily (Depakote ER). Hepatotoxicity, drug interactions, reduce dose in elderly. [Generic/Trade: Immediate-release caps 250 mg (Depakene), syrup (Depakene, valproic acid) 250 mg/5 mL. Delayed-release tabs (Depakote) 125, 250, 500 mg, Extended-release tabs (Depakote ER) 250, 500 mg, Delayed-release sprinkle caps (Depakote) 125 mg. Trade only (Stavzor): Delayed-release caps 125, 250, 500 mg.] ▶L ♀D ▶+ \$\$\$\$

ZONISAMIDE (Zonegran) Start 100 mg PO daily. Titrate every 2 weeks to 200 to 400 mg/day given once daily or divided bid. Max 600 mg/day. Drug interactions. Contraindicated in sulfa allergy. [Generic/Trade: Caps 25, 50, 100 mg.] ▶LK ♀C ▶? \$\$\$\$

Migraine Therapy—Triptans (5-HT₁ Receptor Agonists)

NOTE *May cause vasospasm. Avoid in ischemic or vasospastic heart disease, cerebrovascular syndromes, peripheral arterial disease, uncontrolled HTN, and hemiplegic or basilar migraine. Do not use within 24 h of ergots or other triptans. Risk of serotonin syndrome if used with SSRIs or MAOIs.*

ALMOTRIPTAN (Axert) 6.25 to 12.5 mg PO. May repeat in 2 h prn. Max 25 mg/day. Avoid MAOIs. [Trade only: Tabs 6.25, 12.5 mg.] ▶LK ♀C ▶? \$\$

ELETRIPTAN (Relpax) 20 to 40 mg PO. May repeat in 2 h prn. Max 40 mg/dose or 80 mg/day. Drug interactions. Avoid MAOIs. [Trade only: Tabs 20, 40 mg.] ▶LK ♀C ▶? \$\$

FROVATRIPTAN (Frova) 2.5 mg PO. May repeat in 2 h prn. Max 7.5 mg/24 h. [Trade only: Tabs 2.5 mg.] ▶LK ♀C ▶? \$

NARATRIPTAN (Amerge) 1 to 2.5 mg PO. May repeat in 4 h prn. Max 5 mg/24 h. [Trade only: Tabs 1, 2.5 mg.] ▶KL ♀C ▶? \$\$\$

RIZATRIPTAN (Maxalt, Maxalt MLT) 5 to 10 mg PO. May repeat in 2 h prn. Max 30 mg/24 h. MLT form dissolves on tongue without liquids. Avoid MAOIs. [Trade only: Tabs 5, 10 mg. Orally disintegrating tabs (MLT) 5, 10 mg.] ▶LK ♀C ▶? \$\$

SUMATRIPTAN (Imitrex) 4 to 6 mg SC. May repeat in 1 h prn. Max 12 mg/24 h. Tabs: 25 to 100 mg PO (50 mg most common). May repeat q 2 h prn with 25 to 100 mg doses. Max 200 mg/24 h. Intranasal spray: 5 to 20 mg q 2 h. Max 40 mg/24 h. Avoid MAOIs. [Generic/Trade: Tabs 25, 50, 100 mg. Injection (single-dose vial) 6 mg/0.5 mL. Trade only: Nasal spray 5, 20 mg/spray. Injection (STATdose System) 4, 6 mg prefilled cartridges.] ▶LK ♀C ▶+ \$\$\$

TREXIMET (sumatriptan + naproxen) 1 tab PO at onset; may repeat in 2 h. Max 2 tabs/24 h. [Trade only: Tabs 85 mg sumatriptan + 500 mg naproxen sodium.] ▶LK ♀C ▶- \$\$

ZOLMITRIPTAN (Zomig, Zomig ZMT) 1.25 to 2.5 mg PO q 2 h. Max 10 mg/24 h. Orally disintegrating tabs (ZMT) 2.5 mg PO. May repeat in 2 h prn. Max 10 mg/24 h. Nasal spray: 5 mg (1 spray) in 1 nostril. May repeat in 2 h. Max

(cont.)

10 mg/24 h. [Trade only: Tabs 2.5, 5 mg. Orally disintegrating tabs (ZMT) 2.5, 5 mg. Nasal spray 5 mg/spray.] ▶L ♀C ▶? \$\$

Migraine Therapy—Other

CAFERGOT (ergotamine + caffeine) 2 tabs (1/100 mg each) PO at onset, then 1 tab q 30 min prn. Max 6 tabs/attack or 10/week. Drug interactions. Fibrotic complications. [Trade only: Tabs 1/100 mg ergotamine/caffeine.] ▶L ♀X ▶—\$

DIHYDROERGOTAMINE (D.H.E. 45, Migranal) Soln (DHE 45) 1 mg IV/IM/SC. May repeat in 1 h prn. Max 2 mg (IV) or 3 mg (IM/SC) per d. Nasal spray (Migranal): 1 spray in each nostril. May repeat in 15 min prn. Max 6 sprays/24 h or 8 sprays/week. Drug interactions. Fibrotic complications. [Trade only: Nasal spray 0.5 mg/spray (Migranal). Self-injecting soln (D.H.E 45): 1 mg/mL.] ▶L ♀X ▶—\$\$

FLUNARIZINE (+ Sibelium) Canada only. 10 mg PO qhs. [Generic/Trade: Caps 5 mg.] ▶L ♀C ▶—\$\$

MIDRIN (isometheptene + dichloralphenazone + acetaminophen) (Amidrine, Duradrin, Migquin, Migratine, Migrazone, Va-Zone) Tension and vascular headache treatment: 1 to 2 caps PO q 4 h. Max 8 caps/day. Migraine treatment: 2 caps PO single dose, then 1 cap q 1 h prn to max 5 caps within 12 h. [Trade only: Caps (isometheptene/dichloralphenazone/acetaminophen) 65/100/325 mg.] ▶L ♀? ▶? ©IV \$

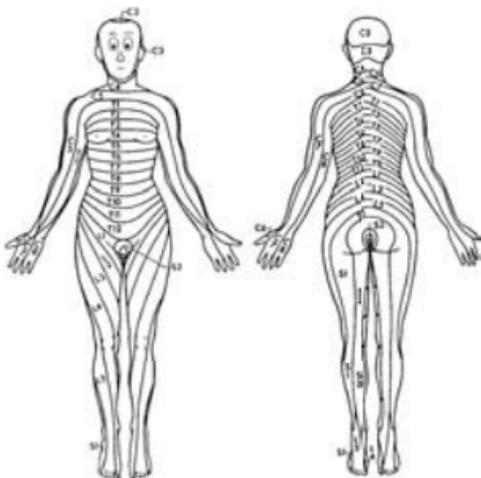
Multiple sclerosis

GLATIRAMER (Copaxone) Multiple sclerosis: 20 mg SC daily. [Trade only: Injection 20 mg single-dose vial.] ▶Serum ♀B ▶? \$\$\$\$

INTERFERON BETA-1A (Avonex, Rebif) Multiple sclerosis: Avonex 30 mcg (6 million units) IM q week. Rebif start 8.8 mcg SC 3 times a week; titrate

(cont.)

Dermatomes



MOTOR FUNCTION BY NERVE ROOTS

Level	Motor Function
C3/C4/C5	Diaphragm
C5/C6	Deltoid/biceps
C7/C8	Triceps
C8/T1	Finger flexion/intrinsics
T1–T12	Intercostal/abd muscles
L2/L3	Hip flexion
L2/L3/L4	Hip adduction/quads
L4/L5	Ankle dorsiflexion
S1/S2	Ankle plantarflexion
S2/S3/S4	Rectal tone

	<i>Root</i>	<i>Motor</i>	<i>Sensory</i>	<i>Reflex</i>
LUMBOSACRAL NERVE ROOT COMPRESSION	L4	quadriceps	medial foot	knee-jerk
	L5	dorsiflexors	dorsum of foot	medial hamstring
	S1	plantarflexors	lateral foot	ankle-jerk

GLASGOW COMA SCALE		<i>Motor Activity</i>
	<i>Verbal Activity</i>	6. Obeys commands
<i>Eye Opening</i>	5. Oriented	5. Localizes pain
4. Spontaneous	4. Confused	4. Withdraws to pain
3. To command	3. Inappropriate	3. Flexion to pain
2. To pain	2. Incomprehensible	2. Extension to pain
1. None	1. None	1. None

over 4 weeks to maintenance dose of 44 mcg 3 times a week. Suicidality, hepatotoxicity, blood dyscrasias. Follow LFTs and CBC. [Trade only (Avonex): Injection 30 mcg single-dose vial with or without albumin. Prefilled syringe 30 mcg. Trade only (Rebif): Starter kit 20 mcg prefilled syringe. Prefilled syringe 22, 44 mcg.] ▶L ♀C ▶? \$\$\$\$\$

INTERFERON BETA-1B (Betaseron) Multiple sclerosis: Start 0.0625 mg SC every other day; titrate over 6 weeks to 0.25 mg (8 million units) SC every other day. Suicidality, hepatotoxicity. Follow LFTs. [Trade only: Injection 0.3 mg (9.6 million units) single-dose vial.] ▶L ♀C ▶? \$\$\$\$\$

Myasthenia Gravis

EDROPHONIUM (Tensilon, Enlon) Evaluation for myasthenia gravis: 2 mg IV over 15 to 30 sec (test dose) while on cardiac monitor, then 8 mg IV after 45 sec. Atropine should be readily available in case of cholinergic reaction. Duration of effect is 5 to 10 min. [AWP= \$2.00 for 10 mg Enlon (use 15 mL MDV vial), RB (1/09).] ▶Plasma ♀C ▶? \$

NEOSTIGMINE (Prostigmin) 15 to 375 mg/day PO in divided doses, or 0.5 mg IM/SC. [Trade only: Tabs 15 mg.] ▶L ♀C ▶? \$\$\$

PYRIDOSTIGMINE (Mestinon, Mestinon Timespan, Regonal) Myasthenia gravis: 60 to 200 mg PO tid (standard-release) or 180 mg PO daily or divided bid (extended-release). [Generic/Trade: Tabs 60 mg. Trade only: Extended-release tabs 180 mg. Syrup 60 mg/5 mL.] ▶Plasma, K ♀C ▶+ \$\$

Parkinsonian Agents—Anticholinergics

BENZTROPINE MESYLATE (Cogentin) Parkinsonism: 0.5 to 2 mg IM/PO/IV given once daily or divided bid. Drug-induced extrapyramidal disorders: 1 to 4 mg PO/IM/IV given once daily or divided bid. [Generic only: Tabs 0.5, 1, 2 mg.] ▶LK ♀C ▶? \$

BIPERIDEN (Akineton) 2 mg PO tid to qid, max 16 mg/day. [Trade only: Tabs 2 mg.] ▶LK ♀C ▶? \$\$\$

TRIHÉXYPHENIDYL (Artane) Start 1 mg PO daily. Gradually increase to 6 to 10 mg/day divided tid. Max 15 mg/day. [Generic only: Tabs 2, 5 mg. Elixir 2 mg/5 mL.] ▶LK ♀C ▶? \$

Parkinsonian Agents—COMT Inhibitors

ENTACAPONE (Comtan) Start 200 mg PO with each dose of carbidopa/levodopa. Max 8 tabs (1600 mg)/d. [Trade only: Tabs 200 mg.] ▶L ♀C ▶? \$\$\$\$\$

Parkinsonian Agents—Dopaminergic Agents & Combinations

APOMORPHINE (Apokyn) Start 0.2 mL SC prn. May increase in 0.1 mL increments every few day. Monitor for orthostatic hypotension after initial dose and with dose escalation. Max 0.6 mL/dose or 2 mL/d. Potent emetic, pretreat with trimethobenzamide 300 mg PO tid starting 3 days prior to use, and continue for age 2 mo or older. Contains sulfites. [Trade only: Cartridges (for injector pen, 10 mg/mL) 3 mL. Ampules (10 mg/mL) 2 mL.] ▶L ♀C ▶? \$\$\$\$\$

CARBIDOPA-LEVODOPA (Sinemet, Sinemet CR, Parcopa) Start 1 tab (25/100 mg) PO tid. Increase q 1 to 4 days prn. Sustained-release: Start 1 tab (50/200 mg) PO bid; increase q 3 days prn. [Generic/Trade: Tabs (carbidopa/levodopa) 10/100, 25/100, 25/250 mg. Tabs, sustained-release (Sinemet CR, carbidopa-levodopa ER) 25/100, 50/200 mg. Trade only: Orally disintegrating tab (Parcopa) 10/100, 25/100, 25/250.] ▶L ♀C ▶—\$\$\$\$

PRAMIPEXOLE (Mirapex) Parkinson's disease: Start 0.125 mg PO tid. Gradually increase to 0.5 to 1.5 mg PO tid. Restless legs syndrome: Start 0.125 mg PO 2 to 3 h prior to hs. May increase q 4 to 7 days to max 0.5 mg/dose. [Generic/Trade: Tabs 0.125, 0.25, 0.5, 1, 1.5 mg. Trade only: Tabs 0.75 mg.] ▶K ♀C ▶? \$\$\$\$\$

ROPINIROLE (Requip, Requip XL) Parkinson's disease: Start 0.25 mg PO tid, then gradually increase to 1 mg PO tid. Extended-release: Start 2 mg PO daily, then gradually titrate dose at weekly intervals. Max 24 mg/day. Restless legs syndrome: Start 0.25 mg PO 1 to 3 h before sleep for 2 d, then increase to 0.5 mg/day on day 3 to 7. Increase by 0.5 mg/day at weekly intervals prn to max 4 mg/day given 1 to 3 h before sleep. [Generic/Trade: Tabs, immediate-release 0.25, 0.5, 1, 2, 3, 4, 5 mg. Trade only: Tabs extended-release 2, 3, 4, 6, 8 mg.] ▶L ♀C ▶? \$\$\$\$\$

STALEVO (carbidopa + levodopa + entacapone) Parkinson's disease (converting from prior treatment using carbidopa-levodopa with or without entacapone): Start Stalevo tab that contains the same amount of carbidopa-levodopa as the patient was previously taking, and titrate to desired response. May need to reduce levodopa dose if not already taking entacapone. [Trade only: Tabs (carbidopa/levodopa/entacapone): Stalevo 50 (12.5/50/200 mg), Stalevo 75 (18.75/75/200), Stalevo 100 (25/100/200 mg), Stalevo 125 (31.25/125/200), Stalevo 150 (37.5/150/200 mg), Stalevo 200 (50/200/200 mg).] ▶L ♀C ▶—\$\$\$\$

Parkinsonian Agents—Monoamine Oxidase Inhibitors (MAOIs)

RASAGILINE (Azilect) Parkinson's disease, monotherapy: 1 mg PO qam. Parkinson's disease, adjunctive: 0.5 mg PO qam. Max 1 mg/day. Requires an MAOI diet. [Trade only: Tabs 0.5, 1 mg.] ▶L ♀C ▶? \$\$\$\$\$

SELEGILINE (*Eldepryl, Zelapar*) 5 mg PO q am and q noon, max 10 mg/day. Zelapar ODT: 1.25 to 2.5 mg qam, max 2.5 mg/day. [Generic/Trade: Caps 5 mg. Tabs 5 mg. Trade only: Oral disintegrating tabs (Zelapar ODT) 1.25 mg.] ▶LK ♀C ▶? \$\$\$\$

Other Agents

BOTULINUM TOXIN TYPE A (*Botox, Botox Cosmetic*) Dose varies based on indication. [Trade only: 100 unit single-use vials.] ▶Not absorbed ♀C ▶? \$\$\$\$

MANNITOL (*Osmitol, Resectisol*) Intracranial HTN: 0.25 to 2 g/kg IV over 30 to 60 min. ▶K ♀C ▶? \$\$

MILNACIPRAN (*Savella*) Day 1: 12.5 mg PO once. Days 2 to 3: 12.5 mg BID. Days 4 to 7: 25 mg bid, then 50 mg bid thereafter. Max 200 mg/day. [Trade only: Tabs 12.5, 25, 50, 100 mg.] ▶KL ♀C ▶? ?

NIMODIPINE (*Nimotop*) Subarachnoid hemorrhage: 60 mg PO q 4 h for 21 days. [Generic only: Caps 30 mg.] ▶L ♀C ▶- \$\$\$\$

OXYBATE (*Xyrem, GHB, gamma hydroxybutyrate*) Narcolepsy-associated cataplexy or excessive daytime sleepiness: 2.25 g PO qhs. Repeat in 2.5 to 4 h. May increase by 1.5 g/day at 2 week intervals to max 9 g/day. From a centralized pharmacy. [Trade only: Soln 180 mL (500 mg/mL) supplied with measuring device and child-proof dosing cups.] ▶L ♀B ▶? ©III \$\$\$\$

RILUZOLE (*Rilutek*) ALS: 50 mg PO q 12 h. Monitor LFTs. [Trade only: Tabs 50 mg.] ▶LK ♀C ▶- \$\$\$\$

TETRABENAZINE (*Xenazine, Nitoman*) Start 12.5 mg PO qam. Increase after 1 week to 12.5 mg PO bid. May increase by 12.5 mg/day weekly. For doses greater than 37.5 to 50 mg/day divide doses tid. For doses greater than 50 mg/day genotype for CYP2D6 and titrate by 12.5 mg/day weekly and divide tid to max 100 mg/day and 37.5 mg/dose (extensive/intermediate metabolizers) or 50 mg/day and 25 mg/dose (poor metabolizers). [Trade only: Tabs 12.5, 25 mg.] ▶L ♀C ▶? ? \$\$\$\$

OB/GYN

Contraceptives

ETONOGESTREL (*Implanon*) 1 subdermal implant q 3 years. [Trade only: Single rod implant, 68 mg etonogestrel.] ▶L ♀X ▶+ \$\$\$\$

LEVONORGESTREL (*Plan B*) Emergency contraception: 1 tab PO ASAP but within 72 h of intercourse. 2nd tab 12 h later. [OTC if age 18 yo or older Generic/Trade: Kit contains 2 tabs 0.75 mg.] ▶L ♀X ▶- \$\$

LEVONORGESTREL (*Plan B One-Step*) Emergency contraception: 1 tab PO ASAP but within 72 h of intercourse. [OTC if age 17 yo or older Trade only: Tabs 1.5 mg.] ▶L ♀X ▶- \$\$

NUVARING (ethinyl estradiol vaginal ring + etonogestrel) 1 ring intra-vaginally for 3 weeks each month. [Trade only: Flexible intravaginal ring, 15 mcg ethinyl estradiol/0.120 mg etonogestrel/d in 1, 3 rings/box.] ▶L ♀X ▶- \$\$\$

ORTHO EVRA (norelgestromin + ethinyl estradiol transdermal) (♣Evra)
 Contraception: 1 patch q week for 3 weeks, then 1 week patch-free. [Trade only:
 Transdermal patch: 150 mcg norelgestromin + 20 mcg ethinyl estradiol/d in
 1, 3 patches/box.] ▶L ♀X D—\$\$\$

Estrogens

NOTE See also hormone combinations.

ESTERIFIED ESTROGENS (*Menest*) 0.3 to 1.25 mg PO daily. [Trade only: Tabs
 0.3, 0.625, 1.25, 2.5 mg.] ▶L ♀X D—\$\$

ESTRADIOL (*Estrace, Gynodiol*) 1 to 2 mg PO daily. [Generic/Trade: Tabs,
 micronized 0.5, 1, 2 mg, scored. Trade only: 1.5 mg (Gynodiol).] ▶L ♀X D—\$

ESTRADIOL ACETATE (*Femtrace*) 0.45 to 1.8 mg PO daily. [Trade only: Tabs,
 0.45, 0.9, 1.8 mg.] ▶L ♀X D—\$\$

ESTRADIOL ACETATE VAGINAL RING (*Femring*) Insert & replace after 90 days.
 [Trade only: 0.05 mg/day and 0.1 mg/day.] ▶L ♀X D—\$\$\$

ESTRADIOL CYPIONATE (*Depo-Estradiol*) 1 to 5 mg IM q 3 to 4 weeks. ▶L
 ♀X D—\$

ESTRADIOL GEL (*Divigel, Estrogel, Elestrin*) Thinly apply contents of 1
 complete pump depression to one entire arm (Estrogel) or upper arm (Elestrin)
 or contents of 1 foil packet (Divigel) to one upper thigh. [Trade only: Gel 0.06%
 in non-aerosol, metered-dose pump with #64 or #32 1.25 g doses (Estrogel),
 #100 0.87 g doses (Elestrin). Gel 0.1% in single-dose foil packets of 0.25, 0.5,
 1.0 g, carton of 30 (Divigel).] ▶L ♀X D—\$\$\$

ESTRADIOL TOPICAL EMULSION (*Estrasorb*) Rub in contents of 1 pouch
 each to left and right legs (spread over thighs & calves) qam. Daily dose is
 equivalent to two 1.74 g pouches. [Trade only: Topical emulsion, 56 pouches/
 carton.] ▶L ♀X D—\$\$

ESTRADIOL TRANSDERMAL PATCH (*Alora, Climara, Esclim, Estraderm,
 FemPatch, Menostar, Vivelle, Vivelle Dot, ♣Estradot, Oesclim*) Apply
 1 patch weekly (Climara, FemPatch, Estradiol, Menostar) or twice a week
 (Esclim, Estraderm, Vivelle, Vivelle Dot, Alora). [Generic/Trade: Transdermal
 patches doses in mg/d: Climara (q week) 0.025, 0.0375, 0.05, 0.06, 0.075,
 0.1. Trade only: FemPatch (q week) 0.025. Esclim (twice a week) 0.025,
 0.0375, 0.05, 0.075, 0.1. Vivelle, Vivelle Dot (twice a week) 0.025, 0.0375,
 0.05, 0.075, 0.1. Estraderm (twice a week) 0.05, 0.1. Alora (twice a week)
 0.025, 0.05, 0.075, 0.1.] ▶L ♀X D—\$\$

ESTRADIOL TRANSDERMAL SPRAY (*Evamist*) 1 to 3 sprays daily to forearm.
 [Trade only: Spray: 1.53 mg estradiol per 90 mL spray, 56 sprays per metered-
 dose pump.] ▶L ♀X D—\$\$\$

ESTRADIOL VAGINAL RING (*Estring*) Insert and replace after 90 days. [Trade
 only: 2 mg ring single pack.] ▶L ♀X D—\$\$\$

ESTRADIOL VAGINAL TAB (*Vagifem*) 1 tab vaginally daily for 2 weeks, then
 1 tab vaginally twice a week. [Trade only: Vaginal tab: 25 mcg in disposable
 single-use applicators, 8, 18/pack.] ▶L ♀X D—\$\$\$

(cont.)

ESTRADIOL VALERATE (*Delestrogen*) 10 to 20 mg IM q 4 weeks. ▶L ♀X
 D—\$\$

ESTROGEN VAGINAL CREAM (*Premarin, Estrace*) Menopausal atrophic vaginitis: Premarin: 0.5 to 2 g daily. Estrace: 2 to 4 g daily for 2 weeks, then reduce. Moderate to severe menopausal dyspareunia: Premarin: 0.5 g daily, then reduce to twice a week. [Trade only: Vaginal cream (Premarin) 0.625 mg conjugated estrogens/g in 42.5 g with or without calibrated applicator. Estrace: 0.1 mg estradiol/g in 42.5 g with calibrated applicator. Generic only: Cream 0.625 mg synthetic conjugated estrogens/g in 30 g with calibrated applicator.] ▶L ♀X D? \$\$\$\$

ESTROGENS CONJUGATED (*Premarin, C.E.S., Congest*) 0.3 to 1.25 mg PO daily. Abnormal uterine bleeding: 25 mg IV/IM. Repeat in 6 to 12 h if needed. [Trade only: Tabs 0.3, 0.45, 0.625, 0.9, 1.25 mg.] ▶L ♀X D—\$\$\$

ESTROGENS SYNTHETIC CONJUGATED A (*Cenestin*) 0.3 to 1.25 mg PO daily. [Trade only: Tabs 0.3, 0.45, 0.625, 0.9, 1.25 mg.] ▶L ♀X D—\$\$\$

ESTROGENS SYNTHETIC CONJUGATED B (*Enjuvia*) 0.3 to 1.25 mg PO daily. [Trade only: Tabs 0.3, 0.45, 0.625, 0.9, 1.25 mg.] ▶L ♀X D—\$\$

ESTROPIPATE (*Ogen, Ortho-Est*) 0.75 to 6 mg PO daily. [Generic/Trade: Tabs 0.75, 1.5, 3, 6 mg of estropipate.] ▶L ♀X D—\$

Hormone Combinations

NOTE See also estrogens.

ACTIVELLA (estradiol + norethindrone) 1 tab PO daily. [Trade only: Tabs 1/0.5 mg and 0.5/0.1 mg estradiol/norethindrone acetate in calendar dial pack dispenser.] ▶L ♀X D—\$\$\$

ANGELIQ (estradiol + drospirenone) 1 tab PO daily. [Trade only: Tabs 1 mg estradiol/0.5 mg drospirenone.] ▶L ♀X D—\$\$\$

CLIMARA PRO (estradiol + levonorgestrel) 1 patch weekly. [Trade only: Transdermal 0.045/0.015 estradiol/levonorgestrel in mg/day, 4 patches/box.] ▶L ♀X D—\$\$\$

COMBIPATCH (estradiol + norethindrone) (↕Estalis) 1 patch twice a week. [Trade only: Transdermal patch 0.05 estradiol/0.14 norethindrone and 0.05 estradiol/0.25 norethindrone in mg/day, 8 patches/box.] ▶L ♀X D—\$\$\$

EMERGENCY CONTRACEPTION Emergency contraception within 72 h of unprotected sex. Progestin-only methods (causes less nausea & may be more effective): *Plan B One-Step* (levonorgestrel 1.5 mg tab, OTC for age at least 17 yo): take one pill. *Plan B* (levonorgestrel 0.75 mg, OTC for age at least 18 yo): take one tab ASAP and 2nd dose 12 h later. Progestin and estrogen method: Dose is defined as 2 pills of *Ovral* or *Ogestrel*, 4 pills of *Cryselle*, *Levlen*, *Levora*, *Lo/Ovral*, *Nordette*, *Tri-Levlen**, *Triphasil**, *Trivora**, or *Low Ogestrel*, or 5 pills of *Alesse*, *Aviane*, *Lessina*, or *Levli*: Take first dose ASAP and 2nd dose 12 h later. If vomiting occurs within 1 h of taking dose, consider repeating that dose with an antiemetic 1 h prior. More info at: www.not-2-late.com.

*Use 0.125 mg levonorgestrel/30 mcg ethinyl estradiol tabs.

ORAL CONTRACEPTIVES* †L ♀X	<i>Estrogen (mcg)</i>	<i>Progestin (mg)</i>
Monophasic		
<i>Norinyl 1+50, Ortho-Novum 1/50, Necon 1/50</i>	50 mestranol	1 norethindrone
<i>Ovcon-50</i>	50 ethinyl estradiol	1 ethynodiol
<i>Demulen 1/50, Zovia 1/50E</i>		0.5 norgestrel
<i>Ovral, Ogestrel</i>		1 norethindrone
<i>Norinyl 1+35, Ortho-Novum 1/35, Necon 1/35, Nortrel 1/35</i>	35 ethinyl estradiol	0.5 norethindrone
<i>Brevicon, Modicon, Necon 0.5/35, Nortrel 0.5/35</i>		0.4 norethindrone
<i>Ovcon-35, Femcon Fe, Balziva</i>		0.18 norgestimate
<i>Previfem</i>		0.25 norgestimate
<i>Ortho-Cyclen, MonoNessa, Sprintec-28</i>		1 ethynodiol
<i>Demulen 1/35, Zovia 1/35E, Kelnor 1/35</i>		30 ethinyl estradiol
<i>Loestrin 21 1.5/30, Loestrin Fe 1.5/30, Junel 1.5/30, Junel 1.5/30 Fe, Microgestin Fe 1.5/30</i>	0.3 norgestrel	
<i>Cryselle, Lo/Ovral, Low-Ogestrel</i>	0.15 desogestrel	
<i>Apri, Desogen, Ortho-Cept, Reclipsen</i>	0.15 levonorgestrel	
<i>Levlen, Levora, Nordette, Portia, Solia</i>	3 drospirenone	
<i>Yasmin, Ocella</i>	20 ethinyl estradiol	
<i>Loestrin 21 1/20, Loestrin Fe 1/20, Loestrin 24 Fe, Junel 1/20, Junel Fe 1/20, Microgestin Fe 1/20</i>		0.1 levonorgestrel
<i>Allesse, Aviane, Lessina, Levlite, Lutera, Sronyx</i>		0.09 levonorgestrel
<i>Lybrel†</i>		3 drospirenone
<i>Yaz</i>		0.15 desogestrel
<i>Kariva, Mircette</i>	20/10 eth estrad	
Progestin-only		
<i>Micronor, Nor-Q.D., Camila, Errin, Jolivette, Nora-BE</i>	none	0.35 norethindrone
Biphasic (estrogen & progestin contents vary)		
<i>Ortho Novum 10/11, Necon 10/11</i>	35 eth estradiol	0.5/1 norethindrone
Triphasic (estrogen & progestin contents vary)		
<i>Cyclessa, Velivet, Cesia</i>	25 ethinyl estradiol	0.100/0.125/0.150 desogestrel
<i>Ortho-Novum 7/7/7, Necon 7/7/7, Nortrel 7/7/7</i>	35 ethinyl estradiol	0.5/0.75/1 norethindr
<i>Tri-Norinyl, Leena, Aranelle</i>		0.5/1/0.5 norethindr
<i>Enpresse, Tri-Levlen, Triphasil, Trivora-28</i>	30/40/30 ethinyl estradiol	0.5/0.75/0.125 levonorgestrel
<i>Ortho Tri-Cyclen, Trinessa, Tri-Sprintec, Tri-Previfem</i>	35 eth estradiol	0.18/0.215/0.25 norgestimate
<i>Ortho Tri-Cyclen Lo</i>	25 eth estradiol	
<i>Estrostep Fe, Tri-Legest, Tri-Legest Fe, Tilia Fe</i>	20/30/35 eth estr	1 norethindrone
Extended Cycle††		
<i>Seasonale, Quasense, Jolessa</i>	30 ethinyl estradiol	0.15 levonorgestrel
<i>Seasonique</i>	30/10 eth estrad	0.15 levonorgestrel
<i>LoSeasonique</i>	20 ethinyl estradiol	0.1 levonorgestrel

***All:** Not recommended in smokers. Increase risk of thromboembolism, CVA, MI, hepatic neoplasia & gallbladder disease. Nausea, breast tenderness, & breakthrough bleeding are common transient side effects. Effectiveness reduced by hepatic enzyme-inducing drugs such as certain anticonvulsants and barbiturates, rifampin, rifabutin, griseofulvin, & protease inhibitors. Coadministration with St. John's wort may decrease efficacy. Vomiting or diarrhea may also increase the risk of contraceptive failure. Consider an additional form of birth control in above circumstances. See product insert for instructions on missing doses. Most available in 21 and 28 day packs. **Progestin only:** Must be taken at the same time every day. Because much of the literature regarding OC adverse effects pertains mainly to estrogen/progestin combinations, the extent to which progestin-only contraceptives cause these effects is unclear. No significant interaction has been found with broad-spectrum antibiotics. The effect of St. John's wort is unclear. No placebo days, start new pack immediately after finishing current one. Available in 28 day packs. Readers may find the following website useful: www.managingcontraception.com. † Approved for continuous use without a "pill-free" period. †† 84 active pills and 7 placebo pills.

ESTRATEST (esterified estrogens + methyltestosterone) 1 tab PO daily. [Trade only: Tabs 1.25 mg esterified estrogens/2.5 mg methyltestosterone.] ▶L ♀X D— \$\$\$\$

ESTRATEST H.S. (esterified estrogens + methyltestosterone) 1 tab PO daily. [Trade only: Tabs 0.625 mg esterified estrogens/1.25 mg methyltestosterone.] ▶L ♀X D— \$\$\$

FEMHRT (ethinyl estradiol + norethindrone) 1 tab PO daily. [Trade only: Tabs 5/1, 2.5/0.5 mcg ethinyl estradiol/mg norethindrone, 28/blister card.] ▶L ♀X D— \$\$\$

PREFEST (estradiol + norgestimate) 1 pink tab PO daily for 3 days followed by 1 white tab PO daily for 3 days, sequentially throughout the month. [Generic/Trade: Tabs in 30 days blister packs 1 mg estradiol (15 pink), 1 mg estradiol/0.09 mg norgestimate (15 white).] ▶L ♀X D— \$\$\$

PREMPHASE (estrogens conjugated + medroxyprogesterone) 1 tab PO daily. [Trade only: Tabs in 28 days EZ-Dial dispensers: 0.625 mg conjugated estrogens (14), 0.625 mg/5 mg conjugated estrogens/medroxyprogesterone (14).] ▶L ♀X D— \$\$\$

PREMPRO (estrogens conjugated + medroxyprogesterone) (↔ Premplus) 1 tab PO daily. [Trade only: Tabs in 28 days EZ-Dial dispensers: 0.625 mg/5 mg, 0.625 mg/2.5 mg, 0.45 mg/1.5 mg (Prempro low dose), or 0.3 mg/1.5 mg conjugated estrogens/medroxyprogesterone.] ▶L ♀X D— \$\$\$

SYNTEST D.S. (esterified estrogens + methyltestosterone) 1 tab PO daily. [Generic only: Tabs 1.25 mg esterified estrogens/2.5 mg methyltestosterone.] ▶L ♀X D— \$\$

SYNTEST H.S. (esterified estrogens + methyltestosterone) 1 tab PO daily. [Generic only: Tabs 0.625 mg esterified estrogens/1.25 mg methyltestosterone.] ▶L ♀X D— \$\$

Labor Induction / Cervical Ripening

DINOPROSTONE (PGE₂, Prepidil, Cervidil, Prostin E₂) Cervical ripening: 1 syringe of gel placed directly into the cervical os for cervical ripening or 1 insert in the posterior fornix of the vagina. [Trade only: Gel (Prepidil) 0.5 mg/3 g syringe. Vaginal insert (Cervidil) 10 mg. Vaginal suppositories (Prostin E₂) 20 mg.] ▶Lung ♀C D? \$\$\$\$\$

MISOPROSTOL (PGE₁, Cytotec) Cervical ripening: 25 mcg intravaginally q 3 to 6 h (or 50 mcg q 6 h). First trimester pregnancy failure: 800 mcg intravaginally, repeat on day 3 if expulsion incomplete. [Generic/Trade: Oral tabs 100, 200 mcg.] ▶LK ♀X D— \$\$\$\$

OXYTOCIN (Pitocin) Labor induction: 10 units in 1000 mL NS (10 milliunits/mL), start at 6 to 12 mL/h (1 to 2 milliunits/min). Postpartum bleeding: 10 units IM or 10 to 40 units in 1000 mL NS IV, infuse 20 to 40 milliunits/min. ▶LK ♀? D— \$

Ovulation Stimulants

CLOMIPHENE (Clomid, Serophene) Specialized dosing for ovulation induction. [Generic/Trade: Tabs 50 mg, scored.] ▶L ♀D D? \$\$\$\$\$

Progestins

HYDROXYPROGESTERONE CAPROATE Amenorrhea, dysfunctional uterine bleeding, metrorrhagia: 375 mg IM. Production of secretory endometrium and desquamation: 125 to 250 mg IM on 10th day of the cycle, repeat q 7 days until suppression no longer desired. ▶L ♀X ▶? \$

MEDROXYPROGESTERONE (Provera) 10 mg PO daily for last 10 to 12 days of month, or 2.5 to 5 mg PO daily. Secondary amenorrhea, abnormal uterine bleeding: 5 to 10 mg PO daily for 5 to 10 days. Endometrial hyperplasia: 10 to 30 mg PO daily. [Generic/Trade: Tabs 2.5, 5, 10 mg, scored.] ▶L ♀X ▶+ \$

MEDROXYPROGESTERONE—INJECTABLE (Depo-Provera, depo-subQ provera 104) Contraception/Endometriosis: 150 mg IM in deltoid or gluteus maximus or 104 mg SC in anterior thigh or abdomen q 13 weeks. ▶L ♀X ▶+ \$

MEGESTROL (Megace, Megace ES) Endometrial hyperplasia: 40 to 160 mg PO daily for 3 to 4 months. AIDS anorexia: 800 mg (20 mL) susp PO daily or 625 mg (5 mL) ES daily. [Generic/Trade: Tabs 20, 40 mg. Susp 40 mg/mL in 240 mL. Trade only: Megace ES susp 125 mg/mL (150 mL).] ▶L ♀D ▶? \$\$\$\$

NORETHINDRONE (Aygestin, Micronor, Nor-Q.D., Camila, Errin, Jolivette, Nora-BE) Amenorrhea, abnormal uterine bleeding: 2.5 to 10 mg PO daily for 5 to 10 days during the 2nd half of the menstrual cycle. Endometriosis: 5 mg PO daily for 2 weeks. Increase by 2.5 mg every 2 weeks to 15 mg. [Generic/Trade: Tabs 5 mg, scored. Trade only: 0.35 mg tabs.] ▶L ♀D/X ▶-\$

PROGESTERONE GEL (Crinone, Prochieve) Secondary amenorrhea: 45 mg (4%) intravaginally every other day up to 6 doses. If no response, use 90 mg (8%) every other day up to 6 doses. Infertility: Special dosing. [Trade only: 4%, 8% single-use, prefilled applicators.] ▶Plasma ♀- ▶? \$\$\$

PROGESTERONE MICRONIZED (Prometrium) 200 mg PO qhs 10 to 12 days per month or 100 mg qhs daily. Secondary amenorrhea: 400 mg PO qhs for 10 days. Contraindicated in peanut allergy. [Trade only: Caps 100, 200 mg.] ▶L ♀B ▶+ \$\$

PROGESTERONE VAGINAL INSERT (Endometrin) Infertility: Special dosing. [Trade only: 100 mg vaginal insert.] ▶Plasma ♀- ▶? \$\$\$\$

Selective Estrogen Receptor Modulators

RALOXIFENE (Evista) Osteoporosis prevention/treatment, breast cancer prevention: 60 mg PO daily. [Trade only: Tabs 60 mg.] ▶L ♀X ▶- \$\$\$\$

TAMOXIFEN (Nolvadex, Soltamox, Tamone, + Tamofen) Breast cancer prevention: 20 mg PO daily for 5 years. Breast cancer: 10 to 20 mg PO bid. [Generic/Trade: Tabs 10, 20 mg. Trade only (Soltamox): Sugar-free soln 10 mg/5 mL (150 mL).] ▶L ♀D ▶- \$\$

Uterotonics

CARBOPROST (Hemabate, 15-methyl-prostaglandin F2 alpha) Refractory postpartum uterine bleeding: 250 mcg deep IM. ▶LK ♀C ▶? \$\$\$

METHYLERGONOVINE (Methergine) Refractory postpartum uterine bleeding: 0.2 mg IM/PO tid-qid prn. [Trade only: Tabs 0.2 mg.] ▶LK ♀C ▶? \$\$

DRUGS GENERALLY ACCEPTED AS SAFE IN PREGNANCY (selected)

Analgesics: acetaminophen, codeine*, meperidine*, methadone*. **Antimicrobials:** penicillins, cephalosporins, erythromycins (not estolate), azithromycin, nystatin, clotrimazole, metronidazole, nitrofurantoin***, *Nix*. **Antivirals:** acyclovir, valacyclovir, famciclovir. **CV:** labetalol, methyl dopa, hydralazine, nifedipine. **Derm:** erythromycin, clindamycin, benzoyl peroxide. **Endo:** insulin, liothyronine, levothyroxine. **ENT:** chlorpheniramine, diphenhydramine, dimenhydrinate, dextromethorphan, guaifenesin, nasal steroids, nasal cromolyn. **GI:** trimethobenzamide, antacids*, simethicone, cimetidine, famotidine, ranitidine, nizatidine, psyllium, metoclopramide, bisacodyl, docusate, doxylamine, meclizine. **Heme:** Heparin, low molecular wt heparins. **Psych:** desipramine, doxepin. **Pulmonary:** short-acting inhaled beta-2 agonists, cromolyn, nedocromil, beclomethasone, budesonide, theophylline, prednisone**. *Except if used long-term or in high doses at term. **Except 1st trimester. ***Contraindicated at term and during labor and delivery.

Vaginitis Preparations

NOTE See also STD/vaginitis table in antimicrobial section.

BORIC ACID Resistant vulvovaginal candidiasis: 1 vag suppository qhs for 2 weeks. [No commercial preparation; must be compounded by pharmacist. Vaginal supps 600 mg in gelatin caps.] ▶Not absorbed ♀? ▶—\$

BUTOCONAZOLE (Gynazole, Mycelex-3) Vulvovaginal candidiasis: Mycelex 3: 1 applicatorful qhs for 3 to 6 days. Gynazole-1: 1 applicatorful intravaginally once at bed time. [OTC Trade only (Mycelex 3): 2% vaginal cream in 5 g prefilled applicators (3s), 20 g tube with applicators. Rx: Trade only (Gynazole-1): 2% vaginal cream in 5 g prefilled applicator.] ▶LK ♀C ▶? \$(OTC), \$\$\$ (Rx)

CLINDAMYCIN—VAGINAL (Cleocin, Clindesse, ♦Dalacin) Bacterial vaginosis: Cleocin: 1 applicatorful cream qhs for 7 days or 1 vaginal suppository qhs for 3 days. Clindesse: 1 applicatorful once. [Generic/Trade: 2% vaginal cream in 40 g tube with 7 disposable applicators (Cleocin). Vag suppository (Cleocin Ovules) 100 mg (3) with applicator. 2% vaginal cream in a single-dose prefilled applicator (Clindesse).] ▶L ♀—▶+ \$\$

CLOTRIMAZOLE—VAGINAL (Mycelex 7, Gyne-Lotrimin, ♦Canesten, Clotrimaderm) Vulvovaginal candidiasis: 1 applicatorful 1% cream qhs for 7 days. 1 applicatorful 2% cream qhs for 3 days. 1 vag suppository 100 mg qhs for 7 days. 200 mg suppository qhs for 3 days. [OTC Generic/Trade: 1% vaginal cream with applicator (some prefilled). 2% vaginal cream with applicator and 1% topical cream in some combination packs. OTC Trade only (Gyne-Lotrimin): Vaginal suppositories 100 mg (7), 200 mg (3) with applicators.] ▶LK ♀B ▶? \$

METRONIDAZOLE—VAGINAL (MetroGel-Vaginal, Vandazole) Bacterial vaginosis: 1 applicatorful qhs or bid for 5 days. [Generic/Trade: 0.75% gel in 70 g tube with applicator.] ▶LK ♀B ▶? \$\$

MICONAZOLE (Monistat, Femizol-M, M-Zole, Micozole, Monazole) Vulvovaginal candidiasis: 1 applicatorful qhs for 3 (4%) or 7 (2%) days. 100 mg vag suppository qhs for 7 days. 400 mg vag suppository qhs for 3 days. 1200 mg vag suppository once. [OTC Generic/Trade: 2% vaginal cream in 45 g with 1 applicator or 7 disposable applicators. Vaginal suppositories 100 mg (7) OTC Trade only: 400 mg (3), 1200 mg (1) with applicator. Generic/Trade: 4%

(cont.)

vaginal cream in 25 g tubes or 3 prefilled applicators. Some in combination packs with 2% miconazole cream for external use.] ▶LK ♀ + ▶? \$

NYSTATIN—VAGINAL (*Mycostatin*, ✦*Nilstat*, *Nyaderm*) Vulvovaginal candidiasis: 1 vag tab qhs for 14 days. [Generic only: Vaginal tabs 100,000 units in 15s with applicator.] ▶Not metabolized ♀A ▶? \$\$

TERCONAZOLE (*Terazol*) Vulvovaginal candidiasis: 1 applicatorful of 0.4% cream qhs for 7 days, or 1 applicatorful of 0.8% cream qhs for 3 days, or 80 mg vag suppository qhs for 3 days. [All forms supplied with applicators: Generic/Trade: Vag cream 0.4% (Terazol 7) in 45 g tube, 0.8% (Terazol 3) in 20 g tube. Vag suppository (Terazol 3) 80 mg (#3).] ▶LK ♀C ▶— \$\$

TIOCONAZOLE (*Monistat 1-Day*, *Vagistat-1*) Vulvovaginal candidiasis: 1 applicatorful of 6.5% ointment intravaginally qhs single-dose. [OTC Trade only: Vaginal ointment: 6.5% (300 mg) in 4.6 g prefilled single-dose applicator.] ▶Not absorbed ♀C ▶— \$

Other OB / GYN Agents

DANAZOL (*Danocrine*, ✦*Cyclomen*) Endometriosis: Start 400 mg PO bid, then titrate downward to maintain amenorrhea for 3 to 6 months. Fibrocystic breast disease: 100 to 200 mg PO bid for 4 to 6 months. [Generic only: Caps 50, 100, 200 mg.] ▶L ♀X ▶— \$\$\$\$\$

MIFEPRISTONE (*Mifeprex*, *RU-486*) 600 mg PO 1 followed by 400 mcg misoprostol on day 3, if abortion not confirmed. [Trade only: Tabs 200 mg.] ▶L ♀X ▶? \$\$\$\$\$

PREMESIS-RX (pyridoxine + folic acid + cyanocobalamin + calcium carbonate) Pregnancy-induced nausea: 1 tab PO daily. [Trade only: Tabs 75 mg vitamin B6 (pyridoxine), sustained-release, 12 mcg vitamin B12 (cyanocobalamin), 1 mg folic acid, and 200 mg calcium carbonate.] ▶L ♀A ▶+ \$\$

RHO IMMUNE GLOBULIN (*HyperRHO S/D*, *MICRhoGAM*, *RhoGAM*, *Rhophylac*, *WinRho SDF*) 300 mcg vial IM to mother at 28 weeks gestation followed by a second dose within 72 h of delivery (if mother Rh- and baby is or might be Rh+). Microdose (50 mcg, *MICRhoGAM*) is appropriate if spontaneous abortion less than 12 weeks gestation. ▶L ♀C ▶? \$\$\$\$\$

ONCOLOGY

ALKYLATING AGENTS altretamine (*Hexalen*), bendamustine (*Treanda*), busulfan (*Myleran*, *Busulfex*), carmustine (*BCNU*, *BiCNU*, *Gliadel*), chlorambucil (*Leukeran*), cyclophosphamide (*Cytoxan*, *Neosar*), dacarbazine (*DTIC-Dome*), ifosfamide (*Ifex*), lomustine (*CeeNu*, *CCNU*), mechlorethamine (*Mustargen*), melphalan (*Alkeran*), procarbazine (*Matulane*), streptozocin (*Zanosar*), temozolomide (*Temodar*, ✦*Temodal*), thiotepe (*Thioplex*). **ANTIBIOTICS**: bleomycin (*Blenoxane*), dactinomycin (*Cosmegen*), daunorubicin (*DaunoXome*, *Cerubidine*), doxorubicin liposomal (*Doxil*, ✦*Caelyx*, *Myocet*), doxorubicin

(cont.)

non-liposomal (*Adriamycin, Rubex*), epirubicin (*Ellence, ♣Pharmorubicin*), idarubicin (*Idamycin*), mitomycin (*Mutamycin, Mitomycin-C*), mitoxantrone (*Novantrone*), valrubicin (*Valstar, ♣Valtaxin*). **ANTIMETABOLITES:** azacitidine (*Vidaza*), capecitabine (*Xeloda*), cladribine (*Leustatin, chlorodeoxyadenosine*), clofarabine (*Clolar*), cytarabine (*Cytosar-U, Tarabine, Depo-Cyt, AraC*), decitabine (*Dacogen*), floxuridine (*FUDR*), fludarabine (*Fludara*), fluorouracil (*Adrucil, 5-FU*), gemcitabine (*Gemzar*), hydroxyurea (*Hydrea, Droxia*), mercaptopurine (*6-MP, Purinethol*), nelarabine (*Arranon*), pemetrexed (*Alimta*), pentostatin (*Nipent*), thioguanine (*Tabloid, ♣Lanvis*). **CYTOPROTECTIVE AGENTS:** amifostine (*Ethyol*), dexrazoxane (*Zinecard*), mesna (*Mesnex, ♣Uromitexan*), palifermin (*Kepivance*). **HORMONES:** abarelix (*Plenaxis*), anastrozole (*Arimidex*), bicalutamide (*Casodex*), cyproterone, ♣*Androcur, Androcur Depot*, estramustine (*Emcyf*), exemestane (*Aromasin*), flutamide (*Eulexin, ♣Euflex*), fulvestrant (*Faslodex*), goserelin (*Zoladex*), histrelin (*Vantas, Supprelin LA*), letrozole (*Femara*), leuprolide (*Eligard, Lupron, Lupron Depot, Oaklide, Viadur*), nilutamide (*Nilandron*), toremifene (*Fareston*), triptorelin (*Trelstar Depot*). **IMMUNOMODULATORS:** aldesleukin (*Proleukin, interleukin-2*), alemtuzumab (*Campath, ♣MabCampath*), BCG (*Bacillus of Calmette & Guerin, Pacis, TheraCys, Tice BCG, ♣Oncotice, Immucyf*), bevacizumab (*Avastin*), cetuximab (*Erbix, Erbitux*), dasatinib (*Sprycel*), denileukin (*Ontak*), erlotinib (*Tarceva*), gemtuzumab (*Mylotarg*), ibritumomab (*Zevalin*), imatinib (*Gleevec*), interferon alfa-2a (*Roferon-A*), lapatinib (*Tykerb*), nilotinib (*Tasigna*), panitumumab (*Vectibix*), rituximab (*Rituxan*), sunitinib (*Sutent*), temsirolimus (*Torisel*), tositumomab (*Bexxar*), trastuzumab (*Herceptin*). **MITOTIC INHIBITORS:** docetaxel (*Taxotere*), etoposide (*VP-16, Etopophos, Toposar, VePesid*), ixabepilone (*Ixempra*), paclitaxel (*Taxol, Abraxane, Onxol*), teniposide (*Vumon, VM-26*), vinblastine (*Velban, VLB*), vincristine (*Oncovin, Vincasar, VCR*), vinorelbine (*Navelbine*). **PLATINUM-CONTAINING AGENTS:** carboplatin (*Paraplatin*), cisplatin (*Platinol-AQ*), oxaliplatin (*Eloxatin*). **RADIOPHARMACEUTICALS:** samarium 153 (*Quadramet*), strontium-89 (*Metastron*). **MISCELLANEOUS:** arsenic trioxide (*Trisenox*), asparaginase (*Elspar, ♣Kidrolase*), bexarotene (*Targretin*), bortezomib (*Velcade*), dexrazoxane (*Totect*), gefitinib (*Iressa*), irinotecan (*Camptosar*), lenalidomide (*Revlimid*), leucovorin (*Wellcovorin, folinic acid*), levoleucovorin (*Fusilev*), mitotane (*Lysodren*), pegaspargase (*Oncaspar*), porfimer (*Photofrin*), sorafenib (*Nexavar*), thalidomide (*Thalomid*), topotecan (*Hycamtin*), tretinoin (*Vesanoid*), vorinostat (*Zolinza*).

OPHTHALMOLOGY

NOTE Most eye medications can be administered 1 gtt at a time despite common manufacturer recommendations of 1 to 2 gtt concurrently. Even a single drop is typically more than the eye can hold, and thus a 2nd drop is wasteful and increases the possibility of systemic toxicity. If more medication is desired separate single drops by at least 5 min.

(cont.)

Antiallergy—Decongestants & Combinations

NAPHAZOLINE (*Albalon, All Clear, AK-Con, Naphcon, Clear Eyes*) 1 to 2 gtts qid for up to 3 days. [OTC Generic/Trade: Soln 0.012, 0.025% (15, 30 mL). Rx Generic/Trade: 0.1% (15 mL).] ▶? ♀C ▶? \$

NAPHCON-A (naphazoline + pheniramine) (*Visine-A*) 1 gtt qid prn for up to 3 days. [OTC Trade only: Soln 0.025% + 0.3% (15 mL).] ▶L ♀C ▶? \$

VASOCON-A (naphazoline + antazoline) 1 gtt qid prn for up to 3 days. [OTC Trade only: Soln 0.05% + 0.5% (15 mL).] ▶L ♀C ▶? \$

Antiallergy—Dual Antihistamine & Mast Cell Stabilizer

AZELASTINE—OPHTHALMIC (*Optivar*) 1 gtt in each affected eye bid. [Trade only: Soln 0.05% (6 mL).] ▶L ♀C ▶? \$\$\$

EPINASTINE (*Elestat*) 1 gtt in each affected eye bid. [Trade only: Soln 0.05% (5 mL).] ▶K ♀C ▶? \$\$\$

KETOTIFEN—OPHTHALMIC (*Alaway, Zaditor*) 1 gtt in each eye q 8 to 12 h. [OTC Generic/Trade: Soln 0.025% (5 mL).] ▶Minimal absorption ♀C ▶? \$

OLOPATADINE (*Pataday, Patanol*) 1 gtt of 0.1% soln in each eye bid (*Patanol*) or 1 gtt of 0.2% soln in each eye daily (*Pataday*). [Trade only: Soln 0.1% (5 mL, *Patanol*), 0.2% (2.5 mL, *Pataday*).] ▶K ♀C ▶? \$\$\$

Antiallergy—Pure Antihistamines

EMEDASTINE (*Emadine*) 1 gtt daily to qid. [Trade only: Soln 0.05% (5 mL).] ▶L ♀B ▶? \$\$\$

LEVOCABASTINE—OPHTHALMIC (*Livostin*) 1 gtt daily to qid for 2 weeks. [Trade only: Susp 0.05% (5, 10 mL).] ▶Minimal absorption ♀C ▶? \$\$\$

Antiallergy—Pure Mast Cell Stabilizers

CROMOLYN—OPHTHALMIC (*Crolom, Opticrom*) 1 to 2 gtts in each eye 4 to 6 times a day. [Generic/Trade: Soln 4% (10 mL).] ▶LK ♀B ▶? \$\$

LODOXAMIDE (*Alomide*) 1 to 2 gtts in each eye qid. [Trade only: Soln 0.1% (10 mL).] ▶K ♀B ▶? \$\$\$

NEDOCROMIL—OPHTHALMIC (*Alocril*) 1 to 2 gtts in each eye bid. [Trade only: Soln 2% (5 mL).] ▶L ♀B ▶? \$\$\$

PEMIROLAST (*Alamast*) 1 to 2 gtts in each eye qid. [Trade only: Soln 0.1% (10 mL).] ▶? ♀C ▶? \$\$\$

Antibacterials—Aminoglycosides

GENTAMICIN—OPHTHALMIC (*Garamycin, Genoptic, Gentak, *Diogent*) 1 to 2 gtts q 2 to 4 h; ½ inch ribbon of ointment bid to tid. [Generic/Trade: Soln 0.3% (5, 15 mL). Ointment 0.3% (3.5 g tube).] ▶K ♀C ▶? \$

TOBRAMYCIN—OPHTHALMIC (*Tobrex*) 1 to 2 gtts q 1 to 4 h or ½ inch ribbon of ointment q 3 to 4 h or bid to tid. [Generic/Trade: Soln 0.3% (5 mL). Trade only: Ointment 0.3% (3.5 g tube).] ▶K ♀B ▶— \$

Antibacterials—Fluoroquinolones

BESIFLOXACIN (*Besivance*) 1 gtt tid for 7 days. [Trade: Soln 0.6% (5 mL).]

▶LK ♀C ▶? ?

CIPROFLOXACIN—OPHTHALMIC (*Ciloxan*) 1 to 2 gtts q 1 to 6 h or ½ inch ribbon ointment bid to tid. [Generic/Trade: Soln 0.3% (2.5, 5, 10 mL). Trade only: Ointment 0.3% (3.5 g tube).] ▶LK ♀C ▶? \$\$\$

GATIFLOXACIN—OPHTHALMIC (*Zymar*) 1 to 2 gtts q 2 h while awake (up to 8 times per day) on day 1 & 2, then 1 to 2 gtts q 4 h (up to qid) on days 3 to 7. [Trade only: Soln 0.3%.] ▶K ♀C ▶? \$\$\$

LEVOFLOXACIN—OPHTHALMIC (*Iquix, Quixin*) Quixin: 1 to 2 gtts q 2 h while awake (up to 8 times per day) on days 1 & 2, then 1 to 2 gtts q 4 h (up to qid) on days 3 to 7. Iquix: 1 to 2 gtts q 30 min to 2 h while awake and q 4 to 6 h overnight on days 1 to 3, then 1 to 2 gtts q 1 to 4 h while awake on day 4 to completion of therapy. [Trade only: Soln 0.5% (Quixin, 5 mL), 1.5% (Iquix, 5 mL).] ▶KL ♀C ▶? \$\$\$

MOXIFLOXACIN—OPHTHALMIC (*Vigamox*) 1 gtt tid for 7 days. [Trade only: Soln 0.5% (3 mL).] ▶LK ♀C ▶? \$\$\$

OFLOXACIN—OPHTHALMIC (*Ocuflax*) 1 to 2 gtts q 1 to 6 h for 7 to 10 days. [Generic/Trade: Soln 0.3% (5, 10 mL).] ▶LK ♀C ▶? \$\$\$

Antibacterials—Other

AZITHROMYCIN—OPHTHALMIC (*Azasite*) 1 gtt bid for 2 days, then 1 gtt once daily for 5 more days. [Trade only: Soln 1% (2.5 mL).] ▶L ♀B ▶? \$\$\$

BACITRACIN—OPHTHALMIC (*AK Tracin*) Apply ¼ to ½ inch ribbon of ointment q 3 to 4 h or bid to qid for 7 to 10 days. [Generic/Trade: Ointment 500 units/g (3.5 g tube).] ▶Minimal absorption ♀C ▶? \$

ERYTHROMYCIN—OPHTHALMIC (*Ilotycin, AK-Mycin*) ½ inch ribbon of ointment q 3 to 4 h or 2 to 6 times per day. [Generic only: Ointment 0.5% (1, 3.5 g tube).] ▶L ♀B ▶+ \$

NEOSPORIN OINTMENT—OPHTHALMIC (neomycin + bacitracin + polymyxin) ½ inch ribbon of ointment q 3 to 4 h for 7 to 10 days or ½ inch ribbon 2 to 3 times per day for mild to moderate infection. [Generic only: Ointment. (3.5 g tube).] ▶K ♀C ▶? \$

NEOSPORIN SOLUTION—OPHTHALMIC (neomycin + polymyxin + gramicidin) 1 to 2 gtts q 4 to 6 h for 7 to 10 days. [Generic/Trade: Soln (10 mL).] ▶KL ♀C ▶? \$\$\$

POLYSPORIN—OPHTHALMIC (polymyxin + bacitracin) ½ inch ribbon of ointment q 3 to 4 h for 7 to 10 days or ½ inch ribbon bid to tid for mild to moderate infection. [Generic only: Ointment (3.5 g tube).] ▶K ♀C ▶? \$\$\$

POLYTRIM—OPHTHALMIC (polymyxin + trimethoprim) 1 to 2 gtts q 4 to 6 h (up to 6 gtts/day) for 7 to 10 days. [Generic/Trade: Soln (10 mL).] ▶KL ♀C ▶? \$

SULFACETAMIDE—OPHTHALMIC (*Bleph-10, Sulf-10*) 1 to 2 gtts q 2 to 6 h for 7 to 10 days or ½ inch ribbon of ointment q 3 to 8 h for 7 to 10 days.

(cont.)

[Generic/Trade: Soln 10% (15 mL). Ointment 10% (3.5 g tube). Generic only: Soln 30% (15 mL).] ▶K ♀C D—\$

Antiviral Agents

TRIFLURIDINE (Viroptic) Herpes: 1 gtt q 2 to 4 h for 7 to 14 days, max 9 gtt per day and max of 21 days of therapy. [Generic/Trade Soln 1% (7.5 mL).] ▶Minimal absorption ♀C D—\$\$\$

Corticosteroid & Antibacterial Combinations

NOTE Recommend that only ophthalmologists or optometrists prescribe due to infection, cataract, corneal/scleral perforation, and glaucoma risk from prolonged use. Monitor intraocular pressure.

BLEPHAMIDE (prednisolone—ophthalmic + sulfacetamide) 1 to 2 gtt q 1 to 8 h or ½ inch ribbon to lower conjunctival sac 3 to 4 times per day and 1 to 2 times at bed time. [Generic/Trade: Soln/Susp (5, 10 mL). Trade only: Ointment (3.5 g tube).] ▶KL ♀C D? \$

CORTISPORIN—OPHTHALMIC (neomycin + polymyxin + hydrocortisone—ophthalmic) 1 to 2 gtt or ½ inch ribbon of ointment q 3 to 4 h or more frequently prn. [Generic only: Susp (7.5 mL). Ointment (3.5 g tube).] ▶LK ♀C D? \$

FML-S LIQUIFILM (prednisolone—ophthalmic + sulfacetamide) 1 to 2 gtt q 1 to 8 h or ½ inch ribbon of ointment daily to qid. [Trade only: Susp (10 mL).] ▶KL ♀C D? \$\$\$

MAXITROL (dexamethasone—ophthalmic + neomycin + polymyxin) Ointment: small amount (about ½ inch) in affected eye 3 to 4 times per day or qhs as an adjunct with drops. Susp: 1 to 2 gtt into affected eye(s) q 3 to 4 h; in severe disease, drops may be used hourly and tapered to discontinuation. [Generic/Trade: Susp (5 mL). Ointment (3.5 g tube).] ▶KL ♀C D? \$

PRED G (prednisolone—ophthalmic + gentamicin) 1 to 2 gtt q 1 to 8 h daily to qid or ½ inch ribbon of ointment bid to qid. [Trade only: Susp (2, 5, 10 mL). Ointment (3.5 g tube).] ▶KL ♀C D? \$\$\$

TOBRADEX (tobramycin + dexamethasone—ophthalmic) 1 to 2 gtt q 2 to 6 h or ½ inch ribbon of ointment bid to qid. [Trade only (tobramycin 0.3%/dexamethasone 0.1%): Susp (2.5, 5, 10 mL). Ointment (3.5 g tube).] ▶L ♀C D? \$\$\$

TOBRADEX ST (tobramycin + dexamethasone—ophthalmic) 1 gtt q 2 to 6 h. [Trade only: Tobramycin 0.3%/dexamethasone 0.05%: Susp (2.5, 5, 10 mL).] ▶L ♀C D? \$\$\$

VASOCIDIN (prednisolone—ophthalmic + sulfacetamide) 1 to 2 gtt q 1 to 8 h or ½ inch ribbon of ointment daily to qid. [Generic only: Soln (5, 10 mL).] ▶KL ♀C D? \$

ZYLET (loteprednol + tobramycin) 1 to 2 gtt q 1 to 2 h for 1 to 2 days then 1 to 2 gtt q 4 to 6 h. [Trade only: Susp 0.5% loteprednol + 0.3% tobramycin (2.5, 5, 10 mL).] ▶LK ♀C D? \$\$\$

Corticosteroids

NOTE Recommend that only ophthalmologists or optometrists prescribe due to infection, cataract, corneal/scleral perforation, and glaucoma risk. Monitor intraocular pressure.

DIFLUPREDNATE (Durezol) 1 gtt into affected eye qid, beginning 24 h after surgery for 2 weeks, then 1 gtt into affected eye bid for 1 week, then taper based on response. [Trade only: Ophthalmic emulsion 0.05% (2.5, 5 mL).] ▶Not absorbed ♀C ▶? \$\$\$\$

FLUOROMETHOLONE (FML, FML Forte, Flarex) 1 to 2 gtts q 1 to 12 h or ½ inch ribbon of ointment q 4 to 24 h. [Trade only: Susp 0.1% (5, 10, 15 mL), 0.25% (2, 5, 10, 15 mL). Ointment 0.1% (3.5 g tube).] ▶L ♀C ▶? \$\$

LOTEPREDNOL (Alrex, Lotemax) 1 to 2 gtts qid. [Trade only: Susp 0.2% (Alrex 5, 10 mL), 0.5% (Lotemax 2.5, 5, 10, 15 mL).] ▶L ♀C ▶? \$\$\$

PREDNISOLONE—OPHTHALMIC (Pred Forte, Pred Mild, Inflamase Forte, Econopred Plus, AK Tate, Diopred) Soln: 1 to 2 gtts (up to q 1 h during day and q 2 h at night), when response observed, then 1 gtt q 4 h, then 1 gtt tid to qid. Susp: 1 to 2 gtts bid to qid. [Generic/Trade: Soln, Susp 1% (5, 10, 15 mL). Trade only (Pred Mild): Susp 0.12% (5, 10 mL). Susp (Pred Forte) 1% (1 mL).] ▶L ♀C ▶? \$\$

RIMEXOLONE (Vexol) 1 to 2 gtts q 1 to 6 h. [Trade only: Susp 1% (5, 10 mL).] ▶L ♀C ▶? \$\$

Glaucoma Agents—Beta-Blockers (Use caution in cardiac conditions and asthma.)

BETAXOLOL—OPHTHALMIC (Betoptic, Betoptic S) 1 to 2 gtts bid. [Trade only: Susp 0.25% (5, 10, 15 mL). Generic only: Soln 0.5% (5, 10, 15 mL).] ▶LK ♀C ▶? \$\$

CARTEOLOL—OPHTHALMIC (Ocupress) 1 gtt bid. [Generic only: Soln 1% (5, 10, 15 mL).] ▶KL ♀C ▶? \$

LEVOBUNOLOL (Betagan) 1 to 2 gtts daily to bid. [Generic/Trade: Soln 0.25% (5, 10 mL) 0.5% (5, 10, 15 mL). Trade only: 2 mL.] ▶? ♀C ▶— \$\$

METIPRANOLOL (Optipranolol) 1 gtt bid. [Generic/Trade: Soln 0.3% (5, 10 mL).] ▶? ♀C ▶? \$

TIMOLOL—OPHTHALMIC (Betimol, Timoptic, Timoptic XE, Istalol, Timoptic Ocudose) 1 gtt bid. Timoptic XE, Istalol: 1 gtt daily. [Generic/Trade: Soln 0.25, 0.5% (5, 10, 15 mL). Preservative-free soln* 0.25% (0.2 mL). Gel-forming soln^ 0.25, 0.5% (2.5, 5 mL). Note: *Timoptic Ocudose ^Timoptic XE.] ▶LK ♀C ▶+ \$\$

Glaucoma Agents—Carbonic Anhydrase Inhibitors

NOTE Sulfonamide derivatives; verify absence of sulfa allergy before prescribing.

BRINZOLAMIDE (Azopt) 1 gtt tid. [Trade only: Susp 1% (5, 10, 15 mL).] ▶LK ♀C ▶? \$\$\$

DORZOLAMIDE (*Trusopt*) 1 gtt tid. [Generic/Trade: Soln 2% (5, 10 mL).] ▶KL
♀C D—\$\$\$

METHAZOLAMIDE (*Neptazane*) 25 to 50 mg PO daily (up to tid). [Generic
only: Tabs 25, 50 mg.] ▶LK ♀C D? \$\$

Glaucoma Agents—Miotics

PILOCARPINE—OPHTHALMIC (*Pilopine HS, Isopto Carpine, ♦Diocarpine, Akarpine*) 1 to 2 gtt tid to qid (up to 6 times per day) or ½ inch ribbon of gel qhs. [Generic only: Soln 0.5% (15 mL), 1% (2 mL), 2% (2 mL), 3% (15 mL), 4% (2 mL), 6% (15 mL). Generic/Trade: Soln 1% (15 mL), 2% (15 mL), 4% (15 mL). Trade only (Pilopine HS): Gel 4% (4 g tube).] ▶Plasma ♀C D? \$

Glaucoma Agents—Prostaglandin Analogs

BIMATOPROST (*Lumigan, Latisse*) 1 gtt qhs. [Trade only: Soln 0.03% (Lumigan, 2.5, 5, 7.5 mL), (Latisse, 3 mL with 60 sterile, disposable applicators).] ▶LK ♀C D? \$\$\$

LATANOPROST (*Xalatan*) 1 gtt qhs. [Trade only: Soln 0.005% (2.5 mL).] ▶LK ♀C D? \$\$\$

TRAVOPROST (*Travatan, Travatan Z*) 1 gtt qhs. [Trade only: Soln (Travatan), benzalkonium chloride-free (Travatan Z) 0.004% (2.5, 5 mL).] ▶L ♀C D? \$\$\$

Glaucoma Agents—Sympathomimetics

BRIMONIDINE (*Alphagan P, ♦Alphagan*) 1 gtt tid. [Trade only: Soln 0.1% (5, 10, 15 mL). Generic/Trade: Soln 0.15% (5, 10, 15 mL). Generic only: 0.2% Soln (5, 10, 15 mL).] ▶L ♀B D? \$\$

Glaucoma Agents—Combinations and Other

COMBIGAN (brimonidine + timolol) 1 gtt q 12 h. [Trade only: Soln brimonidine 0.2% + timolol 0.5% (5, 10 mL).] ▶LK ♀C D—\$\$\$

COSOPT (*dorzolamide + timolol*) 1 gtt bid. [Generic/Trade: Soln dorzolamide 2% + timolol 0.5% (5, 10 mL).] ▶LK ♀D D—\$\$\$

Mydriatics & Cycloplegics

ATROPINE—OPHTHALMIC (*Isopto Atropine, Atropine Care*) 1 to 2 gtt before procedure or daily to qid or ¼ to ½ inch ointment before procedure or daily to tid. Cycloplegia may last up to 5 to 10 days and mydriasis may last up to 7 to 14 days. [Generic/Trade: Soln 1% (2, 5, 15 mL). Generic only: Ointment 1% (3.5 g tube).] ▶L ♀C D+ \$

CYCLOPENTOLATE (*AK-Pentolate, Cyclogyl, Pentolair*) 1 to 2 gtt for 1 to 2 doses before procedure. Cycloplegia may last 6 to 24 h; mydriasis may last 1 day. [Generic/Trade: Soln 1% (2, 15 mL). Trade only (Cyclogyl): 0.5% (15 mL), 1% (5 mL) and 2% (2, 5, 15 mL).] ▶? ♀C D? \$

HOMATROPINE (*Isopto Homatropine*) 1 to 2 gtt before procedure or bid to tid. Cycloplegia & mydriasis lasts 1 to 3 days. [Trade only: Soln 2% (5 mL), 5% (15 mL). Generic/Trade: Soln 5% (5 mL).] ▶? ♀C D? \$

PHENYLEPHRINE—OPHTHALMIC (*AK-Dilate, Altafrin, Mydrfrin, Refresh*)

1 to 2 gtts before procedure or tid to qid. No cycloplegia; mydriasis may last up to 5 h. [Rx Generic/Trade: Soln 2.5% (2, 3, 5, 15 mL), 10% (5 mL). OTC Trade only (Altafrin and Refresh): Soln 0.12% (15 mL).] ▶Plasma, L ♀C ▶? \$

TROPICAMIDE (*Mydracyl, Tropicacyl*) 1 to 2 gtts before procedure.

Mydriasis may last 6 h. [Generic/Trade: Soln 0.5% (15 mL), 1% (3, 15 mL). Generic only: Soln 1% (2 mL).] ▶? ♀? ▶? \$

Non-Steroidal Anti-Inflammatories**BROMFENAC—OPHTHALMIC** (*Xibrom*) 1 gtt bid for 2 weeks. [Trade only:

Soln 0.09% (2.5, 5 mL).] ▶Minimal absorption ♀C, D (3rd trimester) ▶? \$\$\$\$\$

DICLOFENAC—OPHTHALMIC (*Voltaren, ♦Voltaren Ophtha*) 1 gtt daily to

qid. [Generic/Trade: Soln 0.1% (2.5, 5 mL).] ▶L ♀B, D (3rd trimester) ▶? \$\$\$

KETOROLAC—OPHTHALMIC (*Acular, Acular LS*) 1 gtt qid. [Trade only: Soln

Acular LS 0.4% (5 mL), Acular 0.5% (3, 5, 10 mL), preservative-free Acular 0.5% unit dose (0.4 mL).] ▶L ♀C ▶? \$\$\$

NEPAFENAC (*Nevanac*) 1 gtt tid for 2 weeks. [Trade only: Susp 0.1%

(3 mL).] ▶Minimal absorption ♀C ▶? \$\$\$

Other Ophthalmologic Agents**ARTIFICIAL TEARS** (*Tears Naturale, Hypotears, Refresh Tears, GenTeal,*

Systane) 1 to 2 gtts tid to qid prn. [OTC Generic/Trade: Soln (15, 30 mL among others).] ▶Minimal absorption ♀A ▶+ \$

CYCLOSPORINE—OPHTHALMIC (*Restasis*) 1 gtt in each eye q 12 h. [Trade

only: Emulsion 0.05% (0.4 mL single-use vials).] ▶Minimal absorption ♀C ▶? \$\$\$\$

HYDROXYPROPYL CELLULOSE (*Lacrisert*) Moderate–severe dry eyes: 1

insert in each eye daily. Some patients may require bid use. [Trade only: Ocular insert 5 mg.] ▶Minimal absorption ♀+ ▶+ \$\$\$

LIDOCAINE—OPHTHALMIC (*Akten*) Do not prescribe for unsupervised or

prolonged use. Corneal toxicity and ocular infections may occur with repeated use. 2 gtts before procedure, repeat prn. [Generic only: Gel 3.5% (5 mL).] ▶L ♀B ▶? ?

PETROLATUM (*Lacrilube, Dry Eyes, Refresh PM, ♦Duolube*) Apply ¼ to

½ inch ointment to inside of lower lid prn. [OTC Trade only: Ointment (3.5, 7 g) tube.] ▶Minimal absorption ♀A ▶+ \$

PROPARACAINE (*Ophthaine, Ophthetic, ♦Alcaine*) Do not prescribe for

unsupervised or prolonged use. Corneal toxicity and ocular infections may occur with repeated use. 1 to 2 gtts before procedure. [Generic/Trade: Soln 0.5% (15 mL).] ▶L ♀C ▶? \$

TETRACAINE—OPHTHALMIC (*Pontocaine*) Do not prescribe for unsupervised

or prolonged use. Corneal toxicity and ocular infections may occur with repeated use. 1 to 2 gtts or ½ to 1 inch ribbon of ointment before procedure. [Generic only: Soln 0.5% (15 mL), unit-dose vials (0.7, 2 mL).] ▶Plasma ♀C ▶? \$

PSYCHIATRY

Antidepressants—Heterocyclic Compounds

AMITRIPTYLINE (Elavil) Start 25 to 100 mg PO qhs; gradually increase to usual effective dose of 50 to 300 mg/day. Primarily inhibits serotonin reuptake. Demethylated to nortriptyline, which primarily inhibits norepinephrine reuptake. [Generic: Tabs 10, 25, 50, 75, 100, 150 mg. Elavil brand name no longer available; has been retained in this entry for name recognition purposes only.] ▶L ♀D ▶—\$\$

CLOMIPRAMINE (Anafranil) Start 25 mg PO qhs; gradually increase to usual effective dose of 150 to 250 mg/day. Max 250 mg/day. Primarily inhibits serotonin reuptake. [Generic/Trade: Caps 25, 50, 75 mg.] ▶L ♀C ▶+ \$\$\$

DESIPRAMINE (Norpramin) Start 25 to 100 mg PO given once daily or in divided doses. Gradually increase to usual effective dose of 100 to 200 mg/day, max 300 mg/day. Primarily inhibits norepinephrine reuptake. [Generic/Trade: Tabs 10, 25, 50, 75, 100, 150 mg.] ▶L ♀C ▶+ \$\$

DOXEPIN (Sinequan) Start 75 mg PO qhs. Gradually increase to usual effective dose of 75 to 150 mg/day, max 300 mg/day. Primarily inhibits norepinephrine reuptake. [Generic/Trade: Caps 10, 25, 50, 75, 100, 150 mg. Oral concentrate 10 mg/mL.] ▶L ♀C ▶—\$\$

IMIPRAMINE (Tofranil, Tofranil PM) Depression: Start 75 to 100 mg PO qhs or in divided doses; gradually increase to max 300 mg/day. Enuresis: 25 to 75 mg PO qhs. [Generic/Trade: Tabs 10, 25, 50 mg. Trade only: Caps 75, 100, 125, 150 mg (as pamoate salt).] ▶L ♀D ▶—\$\$\$

NORTRIPTYLINE (Aventyl, Pamelor) Start 25 mg PO given once daily or divided bid to qid. Usual effective dose is 75 to 100 mg/day, max 150 mg/day. Primarily inhibits norepinephrine reuptake. [Generic/Trade: Caps 10, 25, 50, 75 mg. Oral Soln 10 mg/5 mL.] ▶L ♀D ▶+ \$\$\$

PROTRIPTYLINE (Vivactil) Depression: 15 to 40 mg/day PO divided tid to qid. Max 60 mg/day. [Trade only: Tabs 5, 10 mg.] ▶L ♀C ▶+ \$\$\$

Antidepressants—Monoamine Oxidase Inhibitors (MAOIs)

NOTE Must be on tyramine-free diet throughout treatment, and for 2 weeks after discontinuation. Numerous drug interactions; risk of hypertensive crisis and serotonin syndrome with many medications, including OTC. Allow ≥ 2 weeks wash-out when converting from an MAOI to an SSRI (6 weeks after fluoxetine), TCA, or other antidepressant

ISOCARBOXAZID (Marplan) Start 10 mg PO bid; increase by 10 mg q 2 to 4 days. Usual effective dose is 20 to 40 mg/day. MAOI diet. [Trade only: Tabs 10 mg.] ▶L ♀C ▶? \$\$\$

PHENELZINE (Nardil) Start 15 mg PO tid. Usual effective dose is 60 to 90 mg/day in divided doses. MAOI diet. [Trade only: Tabs 15 mg.] ▶L ♀C ▶? \$\$\$

SELEGILINE—TRANSDERMAL (Emsam) Depression: Start 6 mg/24 h patch q 24 h. Max 12 mg/24 h. MAOI diet for doses 9 mg/day or higher. [Trade only: Transdermal patch 6 mg/24 h, 9 mg/24 h, 12 mg/24 h.] ▶L ♀C ▶? \$\$\$

TRANLYCPROMINE (Parnate) Start 10 mg PO qam; increase by 10 mg/day at 1 to 3 week intervals to usual effective dose of 10 to 40 mg/day divided bid. MAOI diet. [Generic/Trade: Tabs 10 mg.] ▶L ♀C ▶—\$\$\$

Antidepressants—Selective Serotonin Reuptake Inhibitors (SSRIs)

CITALOPRAM (Celexa) Depression: Start 20 mg PO daily; usual effective dose is 20 to 40 mg/day, max 60 mg/day. Suicidality. [Generic/Trade: Tabs 10, 20, 40 mg. Oral soln 10 mg/5 mL. Generic only: Oral disintegrating tab 10, 20, 40 mg.] ▶LK ♀C but — in 3rd trimester ▶—\$\$\$

ESCITALOPRAM (Lexapro, Cipralex) Depression-generalized anxiety disorder, adults and age 12 yo or older: Start 10 mg PO daily; max 20 mg/day. Suicidality. [Generic/Trade: Tabs 5, 10, 20 mg. Trade only: Oral soln 1 mg/mL.] ▶LK ♀C but — in 3rd trimester ▶—\$\$\$

FLUOXETINE (Prozac, Prozac Weekly, Sarafem) Depression, OCD: Start 20 mg PO qam; usual effective dose is 20 to 40 mg/day, max 80 mg/day. Depression, maintenance: 20 to 40 mg/day (standard-release) or 90 mg PO once a week (Prozac Weekly) starting 7 days after last standard-release dose. Bulimia: 60 mg PO daily; may need to titrate slowly, over several days. Panic disorder: Start 10 mg PO qam; titrate to 20 mg/day after 1 week, max 60 mg/day. Premenstrual Dysphoric Disorder (Sarafem): 20 mg PO daily, given either throughout the menstrual cycle or for 14 days prior to menses; max 80 mg/day. Doses greater than 20 mg/day can be divided bid (in morning and at noon). Bipolar depression, olanzapine + fluoxetine: Start 5 mg olanzapine + 20 mg fluoxetine daily in the evening. Increase to usual range of 5 to 12.5 mg olanzapine plus 20 to 50 mg fluoxetine as tolerated. Treatment-resistant depression, olanzapine + fluoxetine: Start 5 mg olanzapine + 20 mg fluoxetine daily in the evening. Increase to usual range of 5 to 20 mg olanzapine plus 20 to 50 mg fluoxetine as tolerated. Suicidality, many drug interactions. [Generic/Trade: Tabs 10 mg. Caps 10, 20, 40 mg. Oral soln 20 mg/5 mL. Caps (Sarafem) 10, 20 mg. Trade only: Tabs (Sarafem) 10, 15, 20 mg. Caps, delayed-release (Prozac Weekly) 90 mg. Generic only: Tabs 20, 40 mg.] ▶L ♀C but — in 3rd trimester ▶—\$\$\$

FLUOXAMINE (Luvox, Luvox CR) OCD: Start 50 mg PO qhs; usual effective dose is 100 to 300 mg/day divided bid, max 300 mg/day. OCD and Social Anxiety Disorder (CR): Start 100 mg PO qhs; increase by 50 mg/day q week prn to max 300 mg/day. OCD (children age 8 yo or older): Start 25 mg PO qhs; usual effective dose is 50 to 200 mg/day divided bid, max 200 mg/day. Don't use with thioridazine, pimozide, alosetron, cisapride, tizanidine, tryptophan, or MAOIs; use caution with benzodiazepines, TCAs, theophylline, and warfarin. Suicidality. [Generic/Trade: Tabs 25, 50, 100 mg. Trade only: Caps, extended-release 100, 150 mg.] ▶L ♀C but — in 3rd trimester ▶—\$\$\$

PAROXETINE (Paxil, Paxil CR, Pexeva) Depression: Start 20 mg PO qam, max 50 mg/day. Depression, controlled-release: Start 25 mg PO qam, max 62.5 mg/day. OCD: Start 10 to 20 mg PO qam, max 60 mg/day. Social anxiety disorder: Start 10 to 20 mg PO qam, max 60 mg/day. Social anxiety disorder, controlled-

(cont.)

release: Start 12.5 mg PO qam, max 37.5 mg/day. Generalized anxiety disorder: Start 20 mg PO qam, max 50 mg/day. Panic disorder: Start 10 mg PO qam, increase by 10 mg/day at intervals of 1 week or more to usual effective dose of 10 to 60 mg/day; max 60 mg/day. Panic disorder, controlled-release: Start 12.5 mg PO qam, max 75 mg/day. Post-traumatic stress disorder: Start 20 mg PO qam, max 50 mg/day. Premenstrual dysphoric disorder (PMDD), continuous dosing: Start 12.5 mg PO qam (controlled-release); may increase dose after 1 week to max 25 mg qam. PMDD, intermittent dosing (given for 2 weeks prior to menses): 12.5 mg PO qam (controlled-release), max 25 mg/day. Suicidality, many drug interactions. [Generic/Trade: Tabs 10, 20, 30, 40 mg. Oral Susp 10 mg/5 mL. Controlled-release tabs 12.5, 25 mg. Trade only: (Paxil CR) 37.5 mg.] ▶LK ♀D ▶? \$\$\$

SERTRALINE (Zoloft) Depression, OCD: Start 50 mg PO daily; usual effective dose is 50 to 200 mg/day, max 200 mg/day. Panic disorder, post-traumatic stress disorder, social anxiety disorder: Start 25 mg PO daily, max 200 mg/day. Premenstrual dysphoric disorder (PMDD), continuous dosing: Start 50 mg PO daily, max 150 mg/day. PMDD, intermittent dosing (given for 14 days prior to menses): Start 50 mg PO daily for 3 days, then increase to 100 mg/day. Suicidality. [Generic/Trade: Tabs 25, 50, 100 mg. Oral concentrate 20 mg/mL (60 mL).] ▶LK ♀C but – in 3rd trimester ▶+ \$\$\$

Antidepressants—Serotonin-Norepinephrine Reuptake Inhibitors (SNRIs)

DESVENLAFAXINE (Pristiq) 50 mg PO daily. Max 400 mg/day. [Trade only: Tabs, extended-release 50, 100 mg.] ▶LK ♀C ▶? \$\$\$

DULOXETINE (Cymbalta) Depression: 20 mg PO bid; max 60 mg/day given once daily or divided bid. Generalized anxiety disorder: Start 30 to 60 mg PO daily, max 120 mg/day. Diabetic peripheral neuropathic pain: 60 mg PO daily. Fibromyalgia: Start 30 to 60 mg PO daily, max 60 mg/day. Suicidality, hepatotoxicity, many drug interactions. [Trade only: Caps 20, 30, 60 mg.] ▶L ♀C ▶? \$\$\$

VENLAFAXINE (Effexor, Effexor XR) Depression/anxiety: Start 37.5 to 75 mg PO daily (Effexor XR) or 75 mg/day divided bid to tid (Effexor). Usual effective dose is 150 to 225 mg/day, max 225 mg/day (Effexor XR) or 375 mg/day (Effexor). Generalized anxiety disorder: Start 37.5 to 75 mg PO daily (Effexor XR), max 225 mg/day. Social anxiety disorder: 75 mg PO daily (Effexor XR). Panic disorder: Start 37.5 mg PO daily (Effexor XR), may titrate by 75 mg/day at weekly intervals to max 225 mg/day. Suicidality, seizures, HTN. [Trade only: Caps, extended-release 37.5, 75, 150 mg. Generic/Trade: Tabs 25, 37.5, 50, 75, 100 mg. Generic only: Tabs, extended-release 37.5, 75, 150, 225 mg.] ▶LK ♀C but – in 3rd trimester ▶? \$\$\$

Antidepressants—Other

BUPROPION (Wellbutrin, Wellbutrin SR, Wellbutrin XL, Aplenzin, Zyban, Buproban) Depression: Start 100 mg PO bid (immediate-release tabs); can increase to 100 mg tid after 4 to 7 days. Usual effective dose is 300 to 450 mg/

(cont.)

day, max 150 mg/dose and 450 mg/day. Sustained-release: Start 150 mg PO qam; may increase to 150 mg bid after 4 to 7 days, max 400 mg/day. Give last dose no later than 5 pm. Extended-release: Start 150 mg PO qam; may increase to 300 mg qam after 4 days, max 450 mg qam. Extended-release (Aplenzin): Start 174 mg PO qam; increase to target dose of 348 mg/day after 4 days or more. May increase to max dose of 522 mg/day after 4 weeks or more. Seasonal affective disorder: Start 150 mg of extended-release PO qam in autumn; can increase to 300 mg qam after 1 week, max 300 mg/day. In the spring, decrease to 150 mg/day for 2 weeks and then discontinue. Smoking cessation (Zyban, Buproban): Start 150 mg PO qam for 3 days, then increase to 150 mg PO bid for 7 to 12 weeks. Max 150 mg PO bid. Give last dose no later than 5 pm. Seizures, suicidality. [Generic/Trade (for depression, bupropion HCl): Tabs 75, 100 mg. Sustained-release tabs 100, 150, 200 mg. Extended-release tabs 150, 300 mg (Wellbutrin XL). Generic/Trade (smoking cessation): Sustained-release tabs 150 mg (Zyban, Buproban). Trade only: Extended-release (Aplenzin, bupropion hydrobromide) tabs 174, 348, 522 mg.] ▶LK ♀C ▶— \$\$\$\$

MIRTAZAPINE (*Remeron, Remeron SolTab*) Start 15 mg PO qhs. Usual effective dose is 15 to 45 mg/day. Agranulocytosis in 0.1% of patients. Suicidality. [Generic/Trade: Tabs 15, 30, 45 mg. Tabs, orally disintegrating (SolTab) 15, 30, 45 mg. Generic only: Tabs 7.5 mg.] ▶LK ♀C ▶? \$ \$

TRAZODONE Depression: Start 50 to 150 mg/day PO in divided doses; usual effective dose is 400 to 600 mg/day. Insomnia: 50 to 150 mg PO qhs. [Generic only: Tabs 50, 100, 150, 300 mg.] ▶L ♀C ▶— \$

Antimanic (Bipolar) Agents

LAMOTRIGINE (*Lamictal, Lamictal CD, Lamictal ODT, Lamictal XR*) Adults with bipolar disorder (maintenance): Start 25 mg PO daily, 50 mg PO daily if on enzyme-inducing drugs, or 25 mg PO every other day if on valproate; titrate to 200 mg/day, 400 mg/day divided bid if on enzyme-inducing drugs, or 100 mg/day if on valproate. Potentially life-threatening rashes in 0.3% of adults and 0.8% of children; discontinue at first sign of rash. Drug interaction with valproic acid; see product information for adjusted dosing guidelines. [Generic/Trade: Chewable dispersible tabs (Lamictal CD) 5, 25 mg. Tabs 25, 100, 150, 200 mg. Trade only: Orally disintegrating tabs (ODT) 25, 50, 100, 200 mg. Extended-release tabs (XR) 25, 50, 100, 200 mg.] ▶LK ♀C (see notes) ▶— \$\$\$\$

LITHIUM (*Eskalith, Eskalith CR, Lithobid, ♦Lithane*) Acute mania: Start 300 to 600 mg PO bid to tid; usual effective dose is 900 to 1800 mg/day. Steady state is achieved in 5 days. Bipolar maintenance usually 900 to 1200 mg/day titrated to therapeutic trough level of 0.6 to 1.2 mEq/L. [Generic/Trade: Caps 300, Extended-release tabs 300, 450 mg. Generic only: Caps 150, 600 mg, Tabs 300 mg, Syrup 300/5 mL.] ▶K ♀D ▶— \$

TOPIRAMATE (*Topamax*) Bipolar disorder (unapproved): Start 25 to 50 mg/day PO. Titrate prn to max 400 mg/day divided bid. [Generic/Trade: Tabs 25, 50, 100, 200 mg. Sprinkle caps 15, 25 mg.] ▶K ♀C ▶? \$\$\$\$

VALPROIC ACID (*Depakote, Depakote ER, Stavzor, divalproex, ♦Epiject, Epival, Deproic*) Mania: 250 mg PO tid (Depakote) or 25 mg/kg once daily (cont.)

(Depakote ER); max 60 mg/kg/day. Hepatotoxicity, drug interactions, reduce dose in the elderly. [Generic only: Syrup (Valproic acid) 250 mg/5 mL. Generic/Trade: Delayed-release tabs (Depakote) 125, 250, 500 mg. Extended-release tabs (Depakote ER) 250, 500 mg. Delayed-release sprinkle caps (Depakote) 125 mg. Trade only (Stavzor): Delayed-release caps 125, 250, 500 mg.] ▶L ♀D ▶+ \$\$\$\$

Antipsychotics—1st Generation (Typical)

CHLORPROMAZINE (Thorazine) Start 10 to 50 mg PO/IM bid to tid, usual dose 300 to 800 mg/day. [Generic only: Tabs 10, 25, 50, 100, 200 mg. Generic/Trade: Oral concentrate 30 mg/mL, 100 mg/mL. Trade only: Syrup 10 mg/5 mL. Suppositories 25, 100 mg.] ▶LK ♀C ▶—\$\$\$

FLUPHENAZINE (Prolixin, ⚡Modecate, Modeten) 1.25 to 10 mg/day IM divided q 6 to 8 h. Start 0.5 to 10 mg/day PO divided q 6 to 8 h. Usual effective dose 1 to 20 mg/d. Depot (fluphenazine decanoate/enanthate): 12.5 to 25 mg IM/SC q 3 weeks is equivalent to 10 to 20 mg/day PO fluphenazine. [Generic/Trade: Tabs 1, 2.5, 5, 10 mg. Elixir 2.5 mg/5 mL. Oral concentrate 5 mg/mL.] ▶LK ♀C ▶? \$\$\$

HALOPERIDOL (Haldol) 2 to 5 mg IM. Start 0.5 to 5 mg PO bid to tid, usual effective dose 6 to 20 mg/day. Therapeutic range 2 to 15 ng/mL. Depot haloperidol (haloperidol decanoate): 100 to 200 mg IM q 4 weeks is equivalent to 10 mg/day oral haloperidol. [Generic only: Tabs 0.5, 1, 2, 5, 10, 20 mg. Oral concentrate 2 mg/mL.] ▶LK ♀C ▶—\$\$

PERPHENAZINE Start 4 to 8 mg PO tid or 8 to 16 mg PO bid to qid (hospitalized patients), maximum 64 mg/day PO. Can give 5 to 10 mg IM q 6 h, maximum 30 mg/day IM. [Generic only: Tabs 2, 4, 8, 16 mg. Oral concentrate 16 mg/5 mL.] ▶LK ♀C ▶? \$\$\$

PIMOZIDE (Orap) Tourette's: Start 1 to 2 mg/day PO in divided doses, increase q 2 days to usual effective dose of 1 to 10 mg/day. [Trade only: Tabs 1, 2 mg.] ▶L ♀C ▶—\$\$\$

THIORIDAZINE (Mellaril, ⚡Rideril) Start 50 to 100 mg PO tid, usual dose 200 to 800 mg/day. Not first line therapy. Causes QTc prolongation, torsade de pointes, and sudden death. Contraindicated with SSRIs, propranolol, pindolol. Monitor baseline ECG and potassium. Pigmentary retinopathy with doses >800 mg/day. [Generic only: Tabs 10, 15, 25, 50, 100, 150, 200 mg. Oral concentrate 30, 100 mg/mL.] ▶LK ♀C ▶? \$\$

THIOTHIXENE (Navane) Start 2 mg PO tid. Usual effective dose is 20 to 30 mg/day, maximum 60 mg/day PO. [Generic/Trade: Caps 1, 2, 5, 10. Oral concentrate 5 mg/mL. Trade only: Caps 20 mg.] ▶LK ♀C ▶? \$\$\$

TRIFLUOPERAZINE (Stelazine) Start 2 to 5 mg PO bid. Usual effective dose is 15 to 20 mg/day. [Generic/Trade: Tabs 1, 2, 5, 10 mg. Trade only: Oral concentrate 10 mg/mL.] ▶LK ♀C ▶—\$\$\$

Antipsychotics—2nd Generation (Atypical)

ARIPIRAZOLE (Abilify, Abilify Discmelt) Schizophrenia: Start 10 to 15 mg PO daily. Max 30 mg daily. **Bipolar disorder:** Start 15 mg PO daily. Max 30 mg/day.

(cont.)

Agitation associated with schizophrenia or bipolar disorder: 9.75 mg IM recommended. May consider 5.25 to 15 mg if indicated. May repeat in 2 h up to max 30 mg/day. **Depression, adjunctive therapy:** Start 2 to 5 mg PO daily. Max 15 mg/day. [Trade only: Tabs 2, 5, 10, 15, 20, 30 mg. Oral soln 1 mg/mL (150 mL). Orally disintegrating tabs (Discmelt) 10, 15, 20, 30 mg.] ▶L ♀C ▶L ♀C ▶L ♀C ▶L ♀C ▶L ♀C

CLOZAPINE (Clozaril, FazaClo ODT) Start 12.5 mg PO daily or bid. Usual effective dose is 300 to 450 mg/day divided bid, max 900 mg/day. Agranulocytosis 1 to 2%; check WBC and ANC weekly for 6 months, then q 2 weeks. Seizures, myocarditis, cardiopulmonary arrest. [Generic/Trade: Tabs 25, 100 mg. Generic only: Tabs 12.5, 50, 200 mg. Trade only: Orally disintegrating tab (Fazaclo ODT) 12.5, 25, 100 mg (scored).] ▶L ♀B ▶L ♀B ▶L ♀B ▶L ♀B ▶L ♀B

ILOPERIDONE (Fanapt) Start 1 mg PO bid. Increase to 2 mg PO bid on day 2, then by 2 mg per dose each day to usual effective range of 6 to 12 mg PO bid. Max 24 mg/day. [Trade: Tabs 1, 2, 4, 6, 8, 10, 12 mg.] ▶L ♀C ▶L ♀C ▶L ♀C ▶L ♀C ▶L ♀C

ANTIPSYCHOTIC RELATIVE ADVERSE EFFECTS^a

Gener- ation	Antipsychotic	Anticho- linergic	Seda- tion	Hy- poten- sion	EPS	Weight Gain	Diabetes/ Hyper- glycemia	Dyslipi- demia
1st	chlorprom- azine	+++	+++	++	++	++	?	?
1st	fluphenazine	++	+	+	++++	++	?	?
1st	haloperidol	+	+	+	++++	++	0	?
1st	loxapine	++	+	+	++	+	?	?
1st	molindone	++	++	+	++	+	?	?
1st	perphenazine	++	++	+	++	+	+/?	?
1st	pimozide	+	+	+	+++	?	?	?
1st	thioridazine	++++	+++	+++	+	+++	+/?	?
1st	thiothixene	+	++	++	+++	++	?	?
1st	trifluopera- zine	++	+	+	+++	++	?	?
2nd	aripiprazole	++	+	0	0	0/+	0	0
2nd	clozapine	++++	+++	+++	0	+++	+	+
2nd	olanzapine	+++	++	+	0 ^b	+++	+	+
2nd	risperidone	+	++	+	+b	++	?	?
2nd	quetiapine	+	+++	++	0	++	?	?
2nd	ziprasidone	+	+	0	0	0/+	0	0

^aRisk of specific adverse effects is graded from 0 (absent) to ++++ (high). ? = Limited or inconsistent comparative data. ^bEPS (EPS) are dose-related and are more likely for risperidone >6-8 mg/day / olanzapine >20 mg/day. Akathisia risk remains unclear and may not be reflected in these ratings. There are limited comparative data for aripiprazole relative to other second generation antipsychotics.

References: Goodman & Gilman 11e p461-500, Applied Therapeutics 8e p78, APA schizophrenia practice guideline, Psychiatry Q 2002; 73:297, Diabetes Care 2004; 27:596.

OLANZAPINE (*Zyprexa, Zyprexa Zydis*) Agitation in acute bipolar mania or schizophrenia: Start 10 mg IM (2.5 to 5 mg in elderly or debilitated patients); may repeat in 2 h to max 30 mg/day. Schizophrenia, oral therapy: Start 5 to 10 mg PO daily; usual effective dose is 10 to 15 mg/day. Bipolar disorder, maintenance treatment or monotherapy for acute manic or mixed episodes: Start 10 to 15 mg PO daily. Increase by 5 mg/day at intervals after 24 h to usual effective dose of 5 to 20 mg/day, max 20 mg/day. Bipolar disorder, adjunctive for acute manic or mixed episodes: Start 10 mg PO daily; usual effective dose is 5 to 20 mg/day, max 20 mg/day. Bipolar depression, olanzapine + fluoxetine: Start 5 mg olanzapine + 20 mg fluoxetine daily in the evening. Increase to usual range of 5 to 12.5 mg olanzapine plus 20 to 50 mg fluoxetine as tolerated. Treatment-resistant depression, olanzapine + fluoxetine: Start 5 mg olanzapine + 20 mg fluoxetine daily in the evening. Increase to usual range of 5 to 20 mg olanzapine plus 20 to 50 mg fluoxetine as tolerated. [Trade only: Tabs 2.5, 5, 7.5, 10, 15, 20 mg. Tabs, orally-disintegrating (Zyprexa Zydis) 5, 10, 15, 20 mg.] ▶L ♀C ▶— \$\$\$\$

PALIPERIDONE (*Invega, 9-hydroxyrisperidone*) Schizophrenia: Start 6 mg PO qam. 3 mg/day may be sufficient in some. Max 12 mg/day. [Trade only: Extended-release tabs 1.5, 3, 6, 9 mg.] ▶KL ♀C ▶— \$\$\$\$

QUETIAPINE (*Seroquel, Seroquel XR*) Schizophrenia: Start 25 mg PO bid (regular tabs); increase by 25 to 50 mg bid to tid on day 2 and 3, and then to target dose of 300 to 400 mg/day divided bid to tid on day 4. Usual effective dose is 150 to 750 mg/day, max 800 mg/day. Schizophrenia, extended-release tabs: Start 300 mg PO daily in evening, increase by up to 300 mg/day at intervals of more than 1 day to usual effective range of 400 to 800 mg/day. Acute bipolar mania: Start 50 mg PO bid on day 1, then increase to no higher than 100 mg bid on day 2, 150 mg bid on day 3, and 200 mg bid on day 4. May increase prn to 300 mg bid on day 5 and 400 mg bid thereafter. Usual effective dose is 400 to 800 mg/day. Bipolar depression: 50 mg PO hs on day 1, 100 mg hs day 2, 200 mg hs day 3, and 300 mg hs day 4. May increase prn to 400 mg hs on day 5 and 600 mg hs on day 8. Bipolar maintenance: Continue dose required to maintain remission. Eye exam for cataracts recommended q 6 months. [Trade only: Tabs 25, 50, 100, 200, 300, 400 mg. Extended-release tabs 50, 150, 200, 300, 400 mg.] ▶LK ♀C ▶— \$\$\$\$

RISPERIDONE (*Risperdal, Risperdal Consta*) Schizophrenia (adults): Start 2 mg/day PO given once daily or divided bid (0.5 mg bid in the elderly, debilitated, or with hypotension, severe renal or hepatic disease); increase by 1 to 2 mg/day (no more than 0.5 mg bid in elderly and debilitated) at intervals of 24 h or more to usual effective dose of 4 to 8 mg/day given once daily or divided bid, max 16 mg/day. Long-acting injection (Consta): Schizophrenia, Bipolar type 1 maintenance: Start 25 mg IM q 2 weeks while continuing oral dose for 3 weeks. May increase at 4 week intervals to max 50 mg q 2 weeks. Schizophrenia (13 to 17 yo): Start 0.5 mg PO daily; increase by 0.5 to 1 mg/day at intervals of 24 h or more to target dose of 3 mg/day. Max 6 mg/day. Bipolar mania (adults): Start 2 to 3 mg PO daily; may increase by 1 mg/day at 24 h intervals to max 6 mg/day. Bipolar mania (10 to 17 yo):

(cont.)

Start 0.5 mg PO daily; increase by 0.5 to 1 mg/day at intervals of 24 h to recommended dose of 2.5 mg/day. Max 6 mg/day. Autistic disorder irritability (age 5 to 16 yo): Start 0.25 mg (for wt less than 20 kg) or 0.5 mg (wt 20 kg or greater) PO daily. May increase after 4 days to 0.5 mg/day (for wt less than 20 kg) or 1.0 mg/day (wt 20 kg or greater). Maintain at least 14 days. May then increase at 14 days intervals or more by increments of 0.25 mg/day (for wt less than 20 kg) or 0.5 mg/day (wt 20 kg or greater) to max 1.0 mg/day (for wt less than 20 kg), 2.5 mg/day (20 to 44 kg) or 3.0 mg/day (wt more than 45 kg). [Generic/Trade: Tabs 0.25, 0.5, 1, 2, 3, 4 mg. Oral soln 1 mg/mL (30 mL). Orally disintegrating tabs 0.5, 2, 3, 4 mg. Trade only: Orally disintegrating tabs (M-TAB) 1 mg.] ▶LK ♀C ▶—\$\$\$\$\$

ZIPRASIDONE (*Geodon*) Schizophrenia: Start 20 mg PO bid with food; may adjust at more than 2 day intervals to max 80 mg PO bid. Acute agitation: 10 to 20 mg IM, max 40 mg/day. Bipolar mania: Start 40 mg PO bid with food; may increase to 60 to 80 mg bid on day 2. Usual effective dose is 40 to 80 mg bid. [Trade only: Caps 20, 40, 60, 80 mg, Susp 10 mg/mL.] ▶L ♀C ▶—\$\$\$\$\$

Anxiolytics / Hypnotics—Benzodiazepines—Long Half-Life (25–100 h)

BROMAZEPAM (♣*Lectopam*) Canada only. 6 to 18 mg/day PO in divided doses. [Generic/Trade: Tabs 1.5, 3, 6 mg.] ▶L ♀D ▶—\$

CHLORDIAZEPOXIDE (*Librium*) Anxiety: 5 to 25 mg PO or 25 to 50 mg IM/IV tid to qid. Acute alcohol withdrawal: 50 to 100 mg PO/IM/IV, repeat q 3 to 4 h prn up to 300 mg/day. Half-life 5 to 30 h. [Generic/Trade: Caps 5, 10, 25 mg.] ▶LK ♀D ▶—©IV \$\$

CLONAZEPAM (*Klonopin, Klonopin Wafer, ♣Rivotril, Clonapam*) Panic disorder: Start 0.25 to 0.5 mg PO bid to tid, max 4 mg/day. Half-life 18 to 50 h. Epilepsy: Start 0.5 mg PO tid. Max 20 mg/day. [Generic/Trade: Tabs 0.5, 1, 2 mg. Orally disintegrating tabs (approved for panic disorder only) 0.125, 0.25, 0.5, 1, 2 mg.] ▶LK ♀D ▶—©IV \$

CLORAZEPATE (*Tranxene, Tranxene SD*) Start 7.5 to 15 mg PO qhs or bid to tid, usual effective dose is 15 to 60 mg/day. Acute alcohol withdrawal: 60 to 90 mg/day on first day divided bid to tid, reduce dose to 7.5 to 15 mg/day over 5 days. [Generic/Trade: Tabs 3.75, 7.5, 15 mg. Trade only (Tranxene SD): Extended-release Tabs 11.25, 22.5 mg.] ▶LK ♀D ▶—©IV \$

DIAZEPAM (*Valium, Diastat, Diastat AcuDial, ♣Vivol, E Pam, Diazemuls*) Active seizures: 5 to 10 mg IV q 10 to 15 min to max 30 mg, or 0.2 to 0.5 mg/kg rectal gel PR. Skeletal muscle spasm, spasticity related to cerebral palsy, paraplegia, athetosis, stiff man syndrome: 2 to 10 mg PO/PR tid to qid. Anxiety: 2 to 10 mg PO bid to qid. Half-life 20 to 80 h. Alcohol withdrawal: 10 mg PO tid to qid for 24 h then 5 mg PO tid to qid prn. [Generic/Trade: Tabs 2, 5, 10 mg. Generic only: Oral soln 5 mg/5 mL. Oral concentrate (Intensol) 5 mg/mL. Trade only: Rectal gel (Diastat) 2.5, 5, 10, 15, 20 mg. Rectal gel (Diastat AcuDial) 10, 20 mg.] ▶LK ♀D ▶—©IV \$

FLURAZEPAM (*Dalmane*) 15 to 30 mg PO qhs. Half-life 70 to 90 h. [Generic/Trade: Caps 15, 30 mg.] ▶LK ♀X ▶—©IV \$

Anxiolytics / Hypnotics—Benzodiazepines—Medium Half-Life (10 to 15 h)

ESTAZOLAM (ProSom) 1 to 2 mg PO qhs. [Generic/Trade: Tabs 1, 2 mg.] ▶LK ♀X ◯IV \$\$

LORAZEPAM (Ativan) Anxiety: 0.5 to 2 mg IV/IM/PO q 6 to 8 h, max 10 mg/day. Half-life 10 to 20 h. Status epilepticus: 4 mg IV over 2 min; may repeat in 10 to 15 min. Peds status epilepticus: 0.05 to 0.1 mg/kg (max 4 mg) IV over 2 to 5 min; may repeat 0.05 mg/kg once in 10 to 15 min. [Generic/Trade: Tabs 0.5, 1, 2 mg. Generic only: Oral concentrate 2 mg/mL.] ▶LK ♀D ◯IV \$

TEMAZEPAM (Restoril) 7.5 to 30 mg PO qhs. Half-life 8 to 25 h. [Generic/Trade: Caps 15, 30 mg. Trade only: Caps 7.5, 22.5 mg.] ▶LK ♀X ◯IV \$

Anxiolytics / Hypnotics—Benzodiazepines—Short Half-Life (<12 h)

NOTE To avoid withdrawal, gradually taper when discontinuing after prolonged use. Sedative-hypnotics have been associated with severe allergic reactions and complex sleep behaviors, including sleep driving. Use caution and discuss with patients.

ALPRAZOLAM (Xanax, Xanax XR, Niravam) 0.25 to 0.5 mg PO bid to tid. Half-life 12 h. Multiple drug interactions. [Generic/Trade: Tabs 0.25, 0.5, 1, 2 mg. Tabs, extended-release 0.5, 1, 2, 3 mg. Orally disintegrating tab (Niravam) 0.25, 0.5, 1, 2 mg. Generic only: Oral concentrate (Intensol) 1 mg/mL.] ▶LK ♀D ◯IV \$

OXAZEPAM (Serax) 10 to 30 mg PO tid to qid. Half-life 8 h. [Generic/Trade: Caps 10, 15, 30 mg. Trade only: Tabs 15 mg.] ▶LK ♀D ◯IV \$\$\$

TRIAZOLAM (Halcion) 0.125 to 0.5 mg PO qhs. 0.125 mg/day in elderly. Half-life 2 to 3 h. [Generic/Trade: Tabs 0.125, 0.25 mg.] ▶LK ♀X ◯IV \$

Anxiolytics / Hypnotics—Other

BUSPIRONE (BuSpar, Vanspar) Anxiety: Start 15 mg “dividose” daily (7.5 mg PO bid), usual effective dose 30 mg/day. Max 60 mg/day. [Generic/Trade: Tabs 5, 10, Dividose Tabs 15, 30 mg (scored to be easily bisected or trisected). Generic only: Tabs 7.5 mg.] ▶K ♀B ◯—\$\$\$

CHLORAL HYDRATE (Aquachloral Suppettes, Somnote) 25 to 50 mg/kg/day up to 1000 mg PO/PR. Many physicians use higher than recommended doses in children (eg, 75 mg/kg). [Generic only: Syrup 500 mg/5 mL, rectal suppositories 500 mg. Trade only: Caps 500 mg. Rectal suppositories: 325, 650 mg.] ▶LK ♀C ◯+ ◯IV \$

ESZOPICLONE (Lunesta) 2 mg PO qhs prn. Max 3 mg. Elderly: 1 mg PO qhs prn, max 2 mg. [Trade only: Tabs 1, 2, 3 mg.] ▶L ♀C ◯? ◯IV \$\$\$\$

RAMELTEON (Rozerem) Insomnia: 8 mg PO qhs. [Trade only: Tabs 8 mg.] ▶L ♀C ◯? \$\$\$\$

ZALEPLON (Sonata, ⚡Starnoc) 5 to 10 mg PO qhs prn, max 20 mg. Do not use for benzodiazepine or alcohol withdrawal. [Generic/Trade: Caps 5, 10 mg.] ▶L ♀C ◯— ◯IV \$\$\$\$

ZOLPIDEM (Ambien, Ambien CR, Zolpimist, Edluar) Adult: Insomnia: Standard tabs: 10 mg PO qhs. For age older than 65 yo or debilitated: 5 mg

(cont.)

PO qhs. Oral spray: 10 mg PO qhs. For age older than 65 yo or debilitated: 5 mg PO qhs. Control-release tabs: 12.5 mg PO qhs. For age older than 65 yo or debilitated: give 6.25 mg PO qhs. Do not use for benzodiazepine or alcohol withdrawal. [Generic/Trade: Tabs 5, 10 mg. Trade only: Controlled-release tabs 6.25, 12.5 mg, oral spray 5 mg/actuation (Zolpimist), sublingual tab 5, 10 mg (Edluar).] ▶L ♀B ▶+ ©IV \$\$\$\$

ZOPICLONE (♣ *Imovane*) Canada only. Adults: 5 to 7.5 mg PO qhs. Reduce dose in elderly. [Generic/Trade: Tabs 5, 7.5 mg. Generic only: Tabs 3.75 mg.] ▶L ♀D ▶-\$

Combination Drugs

SYMBYAX (olanzapine + fluoxetine) Bipolar type 1 with depression and treatment-resistant depression: Start 6/25 mg PO qhs. Max 18/75 mg/day. [Trade only: Caps (olanzapine/fluoxetine) 3/25, 6/25, 6/50, 12/25, 12/50 mg.] ▶LK ♀C ▶-\$\$\$\$\$

Drug Dependence Therapy

ACAMPROSATE (*Campral*) Maintenance of abstinence from alcohol: 666 mg (2 tabs) PO tid. Start after alcohol withdrawal and when patient is abstinent. [Trade only: Tabs, delayed-release 333 mg.] ▶LK ♀C ▶? \$\$\$\$

DISULFIRAM (*Antabuse*) Sobriety: 125 to 500 mg PO daily. Patient must abstain from any alcohol for ≥12 h before using. Metronidazole and alcohol in any form (cough syrups, tonics, etc.) contraindicated. [Trade only: Tabs 250, 500 mg.] ▶L ♀C ▶? \$\$\$

NALTREXONE (*ReVia, Depade, Vivitrol*) Alcohol/opioid dependence: 25 to 50 mg PO daily. Avoid if recent ingestion of opioids (past 7 to 10 days). Hepatotoxicity with higher than approved doses. [Generic/Trade: Tabs 50 mg. Trade only (Vivitrol): Extended-release injectable susp kits 380 mg.] ▶LK ♀C ▶? \$\$\$\$

NICOTINE GUM (*Nicorette, Nicorette DS*) Smoking cessation: Gradually taper: 1 piece q 1 to 2 h for 6 weeks, 1 piece q 2 to 4 h for 3 weeks, then 1 piece q 4 to 8 h for 3 weeks, max 30 pieces/day of 2 mg or 24 pieces/day of 4 mg. Use Nicorette DS 4 mg/piece in high cigarette use (more than 24 cigarettes/day). [OTC/Generic/Trade: Gum 2, 4 mg.] ▶LK ♀C ▶-\$\$\$\$\$

NICOTINE INHALATION SYSTEM (*Nicotrol Inhaler, ♣Nicorette inhaler*) 6 to 16 cartridges/day for 12 weeks [Trade only: Oral inhaler 10 mg/cartridge (4 mg nicotine delivered), 42 cartridges/box.] ▶LK ♀D ▶-\$\$\$\$\$

NICOTINE LOZENGE (*Commit, Nicorette*) Smoking cessation: In those who smoke within 30 min of waking use 4 mg lozenge; others use 2 mg. Take 1 to 2 lozenges q 1 to 2 h for 6 weeks, then q 2 to 4 h in week 7 to 9, then q 4 to 8 h in weeks 10 to 12. Length of therapy 12 weeks. [OTC Generic/Trade: Lozenge 2, 4 mg in 48, 72, 168 count packages.] ▶LK ♀D ▶-\$\$\$\$\$

NICOTINE NASAL SPRAY (*Nicotrol NS*) Smoking cessation: 1 to 2 doses each h, each dose is 2 sprays, 1 in each nostril (1 spray contains 0.5 mg nicotine). Minimum recommended: 8 doses/day, max 40 doses/day. [Trade only: Nasal soln 10 mg/mL (0.5 mg/inhalation); 10 mL bottles.] ▶LK ♀D ▶-\$\$\$\$\$

NICOTINE PATCHES (*Habitrol, NicoDerm CQ, Nicotrol, + Prostep*) Smoking cessation: Start 1 patch (14 to 22 mg) daily, taper after 6 weeks. Ensure patient has stopped smoking. [OTC/Rx/Generic/Trade: Patches 11, 22 mg/24 h, 7, 14, 21 mg/24 h (Habitrol and NicoDerm). OTC/Trade: 15 mg/16 h (Nicotrol).] ▶LK ♀D ▶— \$\$\$\$

SUBOXONE (buprenorphine + naloxone) Treatment of opioid dependence: Maintenance: 16 mg SL daily. Can individualize to range of 4 to 24 mg SL daily. [Trade only: SL tabs 2/0.5 mg and 8/2 mg buprenorphine/naloxone.] ▶L ♀C ▶— ©III \$\$\$\$

VARENICLINE (*Chantix*) Smoking cessation: Start 0.5 mg PO daily for day 1 to 3, then 0.5 mg bid days 4 to 7, then 1 mg bid thereafter. Take after meals with full glass of water. Start 1 week prior to cessation and continue for 12 weeks. [Trade only: Tabs 0.5, 1 mg.] ▶K ♀C ▶? \$\$\$\$

Stimulants / ADHD / Anorexiant

ADDERALL (dextroamphetamine + amphetamine) (*Adderall XR*) ADHD, standard-release tabs: Start 2.5 mg (3 to 5 yo) or 5 mg (age 6 yo or older) PO daily to bid, increase by 2.5 to 5 mg q week, max 40 mg/day. ADHD, extended-release caps (Adderall XR): If age 6 to 12 yo, then start 5 to 10 mg PO daily to a max of 30 mg/day. If 13 to 17 yo, then start 10 mg PO daily to a max of 20 mg/day. If adult, then 20 mg PO daily. Narcolepsy, standard-release: Start 5 to 10 mg PO qam, increase by 5 to 10 mg q week, max 60 mg/day. Avoid evening doses. Monitor growth and use drug holidays when appropriate. [Generic/Trade: Tabs 5, 7.5, 10, 12.5, 15, 20, 30 mg. Trade only: Caps, extended-release (Adderall XR) 5, 10, 15, 20, 25, 30 mg.] ▶L ♀C ▶— ©II \$\$\$\$

ARMODAFINIL (*Nuvigil*) Obstructive sleep apnea/hypopnea syndrome and narcolepsy: 150 to 250 mg PO qam. Inconsistent evidence for improved efficacy of 250 mg/day dose. Shift work sleep disorder: 150 mg PO 1 h prior to start of shift. [Trade only: Tabs 50, 100, 150, 200, 250 mg.] ▶L ♀C ▶? ©IV \$\$\$\$

ATOMOXETINE (*Strattera*) ADHD: All ages wt greater than 70 kg: Start 40 mg PO daily, then increase after more than 3 days to target of 80 mg/day divided daily to bid. Max 100 mg/day. [Trade only: Caps 10, 18, 25, 40, 60, 80, 100 mg.] ▶K ♀C ▶? \$\$\$\$

BODY MASS INDEX*		Heights are in feet and inches; weights are in pounds					
BMI	Class.	4' 10"	5' 0"	5' 4"	5' 8"	6' 0"	6' 4"
<19	Underweight	<91	<97	<110	<125	<140	<156
19–24	Healthy Weight	91–119	97–127	110–144	125–163	140–183	156–204
25–29	Overweight	120–143	128–152	145–173	164–196	184–220	205–245
30–40	Obese	144–191	153–204	174–233	197–262	221–293	246–328
>40	Very Obese	>191	>204	>233	>262	>293	>328

*BMI = kg/m² = (wt in pounds)/(703)/(height in inches)². Anorectants appropriate if BMI ≥30 (with comorbidities ≥27); surgery an option if BMI >40 (with comorbidities 35–40). www.nhlbi.nih.gov

CAFFEINE (*NoDoz, Vivarin, Caffedrine, Stay Awake, Quick-Pep, Cafcit*) 100 to 200 mg PO q 3 to 4 h prn. [OTC Generic/Trade: Tabs/Caps 200 mg. Oral soln caffeine citrate (Cafcit) 20 mg/mL. OTC Trade only: Extended-release tabs 200 mg. Lozenges 75 mg.] ▶L ♀B/C ▶? \$

DXMETHYLPHENIDATE (*Focalin, Focalin XR*) ADHD, extended-release, not already on stimulants: 5 mg (children) or 10 mg (adults) PO qam. Immediate-release, not already on stimulants: 2.5 mg PO bid. Max 20 mg/day for both. If taking racemic methylphenidate use conversion of 2.5 mg for each 5 mg of methylphenidate, max 20 mg/day. [Generic/Trade: Tabs, immediate-release 2.5, 5, 10 mg. Trade only: Extended-release caps (Focalin XR) 5, 10, 15, 20 mg.] ▶LK ♀C ▶? ©II \$\$\$

DEXTROAMPHETAMINE (*Dexedrine, Dextrostat*) Narcolepsy: Age 6 to 12 yo: Start 5 mg PO qam, increase by 5 mg/day q week. Age older than 12 yo: Start 10 mg PO qam, increase by 10 mg/day q week. Usual dose range 5 to 60 mg/day in divided doses (tabs) or daily (extended-release). ADHD: 2.5 to 5 mg PO qam, usual max 40 mg/day. Avoid evening doses. Monitor growth and use drug holidays when appropriate. [Generic/Trade: Caps, extended-release 5, 10, 15 mg. Generic only: Tabs 5, 10 mg. Oral soln 5 mg/5 mL.] ▶L ♀C ▶— ©II \$\$\$\$

LISDEXAMFETAMINE (*Vyvanse*) ADHD adults and children ages 6 to 12 yo: Start 30 mg PO qam. May increase weekly by 10 to 20 mg/day to max 70 mg/day. Avoid evening doses. Monitor growth and use drug holidays when appropriate. [Trade: Caps 20, 30, 40, 50, 60, 70 mg.] ▶L ♀C ▶— ©II \$\$\$\$

METHYLPHENIDATE (*Ritalin, Ritalin LA, Ritalin SR, Methylin, Methylin ER, Metadate ER, Metadate CD, Concerta, Daytrana, *Biphentin*) ADHD/Narcolepsy: 5 to 10 mg PO bid to tid or 20 mg PO qam (sustained and extended-release), max 60 mg/day. Or 18 to 36 mg PO qam (Concerta), max 72 mg/day. Avoid evening doses. Monitor growth and use drug holidays when appropriate. [Trade only: Tabs 5, 10, 20 mg (Ritalin, Methylin, Metadate). Extended-release tabs 10, 20 mg (Methylin ER, Metadate ER). Extended-release tabs 18, 27, 36, 54 mg (Concerta). Extended-release caps 10, 20, 30, 40, 50, 60 mg (Metadate CD) May be sprinkled on food. Sustained-release tabs 20 mg (Ritalin SR). Extended-release caps 10, 20, 30, 40 mg (Ritalin LA). Chewable tabs 2.5, 5, 10 mg (Methylin). Oral soln 5 mg/5 mL, 10 mg/5 mL (Methylin). Transdermal patch (Daytrana) 10 mg/9 h, 15 mg/9 h, 20 mg/9 h, 30 mg/9 h. Generic only: Tabs 5, 10, 20 mg, extended-release tabs 10, 20 mg, sustained-release tabs 20 mg.] ▶LK ♀C ▶? ©II \$

MODAFINIL (*Provigil, *Alertec*) Narcolepsy and sleep apnea/hypopnea: 200 mg PO qam. Shift work sleep disorder: 200 mg PO 1 h before shift. [Trade only: Tabs 100, 200 mg.] ▶L ♀C ▶? ©IV \$\$\$\$

PHENTERMINE (*Adipex-P, Ionamin, Pro-Fast*) 8 mg PO tid or 15 to 37.5 mg/day qam or 10 to 14 h before retiring. For short-term use. [Generic/Trade: Caps 15, 30, 37.5 mg. Tabs 37.5 mg. Trade only: Caps, extended-release 15, 30 mg (Ionamin). Generic only (Pro-Fast): Caps 18.75 mg, Tabs 8 mg.] ▶KL ♀C ▶— ©IV \$

SIBUTRAMINE (*Meridia*) Start 10 mg PO qam, max 15 mg/day. Monitor pulse and BP. [Trade only: Caps 5, 10, 15 mg.] ▶KL ♀C ▶— ©IV \$\$\$\$

PULMONARY

Beta Agonists—Short-Acting

ALBUTEROL (*AccuNeb, Ventolin HFA, Proventil HFA, ProAir HFA, VoSpire ER, ✦Aiomir, Asmavent, salbutamol*) MDI 2 puffs q 4 to 6 h prn. 0.5 mL of 0.5% soln (2.5 mg) nebulized tid to qid. One 3 mL unit dose (0.083%) nebulized tid to qid. Caps for inhalation 200 to 400 mcg q 4 to 6 h. 2 to 4 mg PO tid to qid or extended-release 4 to 8 mg PO q 12 h up to 16 mg PO q 12 h. Peds: 0.1 to 0.2 mg/kg/dose PO tid up to 4 mg tid for age 2 to 5 yo, 2 to 4 mg or extended-release 4 mg PO q 12 h for age 6 to 12 yo. Prevention of exercise-induced bronchospasm: MDI: 2 puffs 15 to 30 min before exercise. [Trade only: MDI 90 mcg/actuation, 200 metered doses/canister. "HFA" inhalers use hydrofluoroalkane propellant instead of CFCs but are otherwise equivalent. Generic/Trade: Soln for inhalation 0.021% (AccuNeb), 0.042% (AccuNeb), and 0.083% in 3 mL vials, 0.5% (5 mg/mL) in 20 mL with dropper. Tabs extended-release 4, 8 mg (VoSpire ER). Generic only: Syrup 2 mg/5 mL. Tabs immediate-release 2, 4 mg.] ▶L ♀C ▶? \$\$\$

FENOTEROL (*✦Berotec*) Canada only. 1 to 2 puffs prn tid to qid. Nebulizer: Up to 2.5 mg q 6 h. [Trade only: MDI 100 mcg/actuation. Soln for inhalation: 20 mL bottles of 1 mg/mL (with preservatives that may cause bronchoconstriction in those with hyperreactive airways).] ▶L ♀C ▶? \$

LEVALBUTEROL (*Xopenex, Xopenex HFA*) MDI 2 puffs q 4 to 6 h prn. Nebulizer 0.63 to 1.25 mg q 6 to 8 h. Peds: 0.31 mg nebulized tid for age 6 to 11 yo. [Generic/Trade: Soln for inhalation 0.31, 0.63, 1.25 mg in 3 mL and 1.25 mg in 0.5 mL unit-dose vials. Trade only: HFA MDI 45 mcg/actuation, 15 g 200/canister. "HFA" inhalers use hydrofluoroalkane propellant.] ▶L ♀C ▶? \$\$\$

METAPROTERENOL (*Alupent, ✦orciprenaline*) MDI 2 to 3 puffs q 3 to 4 h. 0.2 to 0.3 mL 5% soln nebulized q 4 h. Peds: 20 mg PO tid to qid age older than 9 yo, 10 mg PO tid to qid if age 6 to 9 yo, 1.3 to 2.6 mg/kg/day divided tid to qid if age 2 to 5 yo. [Trade only: MDI 0.65 mg/actuation, 14 g 200/canister. Generic/Trade: Soln for inhalation 0.4%, 0.6% in 2.5 mL unit-dose vials. Generic only: Syrup 10 mg/5 mL, Tabs 10, 20 mg.] ▶L ♀C ▶? \$\$\$

PIRBUTEROL (*Maxair Autohaler*) MDI: 1 to 2 puffs q 4 to 6 h. [Trade only: MDI 200 mcg/actuation, 14 g 400/canister.] ▶L ♀C ▶? \$\$\$\$

Beta Agonists—Long-Acting

ARFORMOTEROL (*Brovana*) COPD: 15 mcg nebulized bid. [Trade only: Soln for inhalation 15 mcg in 2 mL vial.] ▶L ♀C ▶? \$\$\$\$\$

FORMOTEROL (*Foradil, Perforomist, ✦Oxeze Turbuhaler*) 1 puff bid. Nebulized: 20 mcg q 12 h. Not for acute bronchospasm. Use only in combination with corticosteroids. [Trade only: DPI 12 mcg, 12, 60 blisters/pack (Foradil). Soln for inhalation: 20 mcg in 2 mL vial (Perforomist). Canada only (Oxeze): DPI 6, 12 mcg 60 blisters/pack.] ▶L ♀C ▶? \$\$\$

SALMETEROL (Serevent Diskus) 1 puff bid. Not for acute bronchospasm. Use only in combination with corticosteroids. [Trade only: DPI (Diskus): 50 mcg, 60 blisters.] ▶L ♀C ▶? \$\$\$\$

Combinations

ADVAIR (Advair HFA) (fluticasone—inhaled + salmeterol) Asthma: DPI: 1 puff bid (all strengths). MDI: 2 puffs bid (all strengths). COPD: DPI: 1 puff bid (250/50 only). [Trade only: DPI: 100/50, 250/50, 500/50 mcg fluticasone/salmeterol per actuation; 60 doses/DPI. Trade only (Advair HFA): MDI 45/21, 115/21, 230/21 mcg fluticasone/salmeterol per actuation; 120 doses/canister.] ▶L ♀C ▶? \$\$\$\$

COMBIVENT (albuterol + ipratropium) 2 puffs qid, max 12 puffs/day. Contraindicated with soy or peanut allergy. [Trade only: MDI: 90 mcg albuterol/18 mcg ipratropium per actuation, 200/canister.] ▶L ♀C ▶? \$\$\$\$

DUONEB (albuterol + ipratropium) (Combivent inhalation soln) 1 unit dose qid. [Generic/Trade: Unit dose: 2.5 mg albuterol base/0.5 mg ipratropium per 3 mL vial, premixed; 30, 60 vials/carton.] ▶L ♀C ▶? \$\$\$\$

SYMBICORT (budesonide + formoterol) Asthma: 2 puffs bid (both strengths). COPD: 2 puffs bid (160/4.5). [Trade only: MDI: 80/4.5, 160/4.5 mcg budesonide/formoterol per actuation; 120 doses/canister.] ▶L ♀C ▶? \$\$\$\$

Inhaled Steroids

NOTE See *Endocrine-Corticosteroids when oral steroids necessary.*

BECLOMETHASONE—INHALED (QVAR) 1 to 4 puffs bid (40 mcg). 1 to 2 puffs bid (80 mcg). [Trade only: HFA MDI: 40, 80 mcg/actuation, 100 actuations/canister.] ▶L ♀C ▶? \$\$\$

BUDESONIDE—INHALED (Pulmicort Respules, Pulmicort Flexhaler) 1 to 2 puffs daily up to 4 puffs bid. Respules: 0.5 to 1 mg daily or divided bid. [Trade only: DPI (Flexhaler) 90, 180 mcg powder/actuation 60, 120 doses respectively/canister, Respules 1 mg/2 mL unit dose. Generic/Trade: Respules 0.25, 0.5 mg/2 mL unit dose.] ▶L ♀B ▶? \$\$\$\$

CICLESONIDE—INHALED (Alvesco) 80 mcg/puff: 1 to 4 puffs bid. 160 mcg/puff: 1 to 2 puffs bid. [Trade only: 80 mcg/actuation, 60 per canister. 160 mcg/actuation, 60, 120 per canister.] ▶L ♀C ▶? \$\$\$\$

FLUNISOLIDIDE—INHALED (AeroBid, AeroBid-M, Aerospan) 2 to 4 puffs bid. [Trade only: MDI: 250 mcg/actuation, 100 metered doses/canister. AeroBid-M (AeroBid + menthol flavor). Aerospan HFA MDI: 80 mcg/actuation, 60, 120 metered doses/canister.] ▶L ♀C ▶? \$\$\$

FLUTICASONE—INHALED (Flovent HFA, Flovent Diskus) 2 to 4 puffs bid. [Trade only: HFA MDI: 44, 110, 220 mcg/actuation 120/canister. DPI (Diskus): 50, 100, 250 mcg/actuation delivering 44, 88, 220 mcg respectively.] ▶L ♀C ▶? \$\$\$\$

MOMETASONE—INHALED (Asmanex Twisthaler) 1 to 2 puffs in the evening or 1 puff bid. If prior oral corticosteroid therapy: 2 puffs bid. [Trade only: DPI: 110 mcg/actuation with #30 dosage units, 220 mcg/actuation with #30, 60, 120 dosage units.] ▶L ♀C ▶? \$\$\$\$

TRIAMCINOLONE—INHALED (*Azmacort*) 2 puffs tid to qid or 4 puffs bid; max dose 16 puffs/day. [Trade only: MDI: 75 mcg/actuation, 240/canister. Built-in spacer.] ▶L ♀C ▶? \$\$\$\$

Leukotriene Inhibitors

MONTELUKAST (*Singulair*) Adults: 10 mg PO daily. Chronic asthma, allergic rhinitis: give 5 mg PO daily for age 6 to 14 yo, give 4 mg (chew tab or oral granules) PO daily for age 2 to 5 yo. Asthma age 12 to 23 mo: 4 mg (oral granules) PO daily. Allergic rhinitis age 6 to 23 mo: 4 mg (oral granules) PO daily. Prevention of exercise-induced bronchoconstriction: 10 mg PO 2 h before exercise. [Trade only: Tabs 10 mg. Oral granules 4 mg packet, 30/box. Chewable tabs (cherry flavored) 4, 5 mg.] ▶L ♀B ▶? \$\$\$\$

ZAFIRLUKAST (*Accolate*) 20 mg PO bid. Peds age 5 to 11 yo, 10 mg PO bid. Take 1 h before or 2 h after meals. Potentiates warfarin & theophylline. [Trade only: Tabs 10, 20 mg.] ▶L ♀B ▶— \$\$\$\$

ZILEUTON (*Zyflo CR*) 1200 mg PO bid. Hepatotoxicity, potentiates warfarin, theophylline, and propranolol. [Trade only: Tabs, extended-release 600 mg.] ▶L ♀C ▶? \$\$\$\$

Other Pulmonary Medications

ACETYLCYSTEINE—INHALED (*Mucomyst*) Mucolytic: 3 to 5 mL of 20% or 6 to 10 mL of 10% soln nebulized tid to qid. [Generic/Trade: Soln for inhalation 10, 20% in 4, 10, 30 mL vials.] ▶L ♀B ▶? \$

AMINOPHYLLINE (♣*Phyllocontin*) Acute asthma: Loading dose: 6 mg/kg IV over 20 to 30 min. Maintenance 0.5 to 0.7 mg/kg/h IV. [Generic only: Tabs 100, 200 mg. Oral liquid 105 mg/5 mL. Canada Trade only: Tabs controlled-release (12 h) 225, 350 mg, scored.] ▶L ♀C ▶? \$

CROMOLYN—INHALED (*Intal, Gastrocrom, ♣Nalcrom*) Asthma: 2 to 4 puffs qid or 20 mg nebs qid. Prevention of exercise-induced bronchospasm: 2 puffs 10 to 15 min prior to exercise. Mastocytosis: Oral concentrate 200 mg PO qid for adults, 100 mg qid in children 2 to 12 yo. [Trade only: MDI 800 mcg/actuation, 112, 200/canister. Oral concentrate 100 mg/5 mL in 8 amps/foil pouch (*Gastrocrom*). Generic/Trade: Soln for nebs: 20 mg/2 mL.] ▶LK ♀B ▶? \$\$\$

PREDICTED PEAK EXPIRATORY FLOW (liters/min) *Am Rev Resp Dis* 1963; 88:644

Age (yr)	Women (height in inches)					Men (height in inches)					Child (height in inches)	
	55"	60"	65"	70"	75"	60"	65"	70"	75"	80"		
20 yr	390	423	460	496	529	554	602	649	693	740	44"	160
30 yr	380	413	448	483	516	532	577	622	664	710	46"	187
40 yr	370	402	436	470	502	509	552	596	636	680	48"	214
50 yr	360	391	424	457	488	486	527	569	607	649	50"	240
60 yr	350	380	412	445	475	463	502	542	578	618	52"	267
70 yr	340	369	400	432	461	440	477	515	550	587	54"	293

INHALED STEROIDS: ESTIMATED COMPARATIVE DAILY DOSES*

Drug	Form	≥ 12 yo & ADULTS			CHILDREN (5-11 yo)		
		Low Dose	Medium Dose	High Dose	Low Dose	Medium Dose	High Dose
beclomethasone HFA MDI	40 mcg/puff	2-6	6-12	>12	2-4	4-8	>8
	80 mcg/puff	1-3	3-6	>6	1-2	2-4	>4
budesonide DPI	90 mcg/dose	2-6	6-13	>13	2-4	4-9	>9
	180 mcg/dose	1-3	3-7	>7	1-2	2-4	>4
budesonide	soln for nebs	-	-	-	0.5 mg 0.25-0.5 mg (0-4 yo)	1 mg >0.5-1 mg (0-4 yo)	2 mg >1 mg (0-4 yo)
flunisolide MDI	250 mcg/puff	2-4	4-8	>8	2-3	4-5	>5
flunisolide HFA MDI	80 mcg/puff	4	5-8	>8	2	4	≥8
fluticasone HFA MDI	44 mcg/puff	2-6	6-10	>10	2-4 (0-11 yo)	4-8 (0-11 yo)	>8 (0-11 yo)
	110 mcg/puff	1-2	2-4	>4	1-2 (0-11 yo)	2-3 (0-11 yo)	>4 (0-11 yo)
	220 mcg/puff	1	1-2	>2	n/a	1-2 (0-11 yo)	>2 (0-11 yo)
fluticasone DPI	50 mcg/dose	2-6	6-10	>10	2-4	4-8	>8
	100 mcg/dose	1-3	3-5	>5	1-2	2-4	>4
	250 mcg/dose	1	2	>2	n/a	1	>1
mometasone DPI	220 mcg/dose	1	2	>2	n/a	n/a	n/a
triamcinolone MDI	75 mcg/puff	4-10	10-20	>20	4-8	8-12	>12

*HFA = Hydrofluoroalkane (propellant). MDI = metered dose inhaler. DPI = dry powder inhaler. All doses in puffs (MDI) or inhalations (DPI). Reference: <http://www.nhlbi.nih.gov/guidelines/asthma/asths.umm.pdf>

INHALER COLORS (Body then cap—Generics may differ)

<i>Advair</i> :	purple	<i>Atrovent HFA</i> :	clear/ green	<i>Proventil HFA</i> :	yellow/ orange
<i>Advair HFA</i> :	purple/light purple	<i>Azmacort</i> :	white/white	<i>Pulmicort</i> :	white/brown
<i>Aerobid</i> :	grey/purple	<i>Combivent</i> :	clear/ orange	<i>QVAR 40 mcg</i> :	beige/grey
<i>Aerobid-M</i> :	grey/green	<i>Flovent HFA</i> :	orange/ peach	<i>QVAR 80 mcg</i> :	mauve/ grey
<i>Aerospan</i> :	purple/grey	<i>Foradil</i> :	grey/beige	<i>Serevent</i> :	
<i>Alupent</i> :	clear/blue	<i>Intal</i> :	white/blue	<i>Diskus</i> :	green
<i>Alvesco</i> :	brown/red	<i>Maxair</i> :	white/white	<i>Spiriva</i> :	grey
<i>80 mcg</i> :		<i>Maxair Autohaler</i> :	white/white	<i>Ventolin HFA</i> :	light blue/ navy
<i>Alvesco</i> :	red/red	<i>ProAir HFA</i> :	red/white	<i>Xopenex HFA</i> :	blue/red
<i>160 mcg</i> :					
<i>Asmanex</i> :	white/pink				

DORNASE ALFA (*Pulmozyme*) Cystic fibrosis: 2.5 mg nebulized daily to bid. [Trade only: Soln for inhalation: 1 mg/mL in 2.5 mL vials.] ▶L ♀B ▶? \$\$\$\$\$

EPINEPHRINE RACEMIC (*S-2, +Vaponefrin*) Severe croup: 0.05 mL/kg/dose diluted to 3 mL w/NS. Max dose 0.5 mL. [Trade only: Soln for inhalation: 2.25% epinephrine in 15, 30 mL.] ▶Plasma ♀C ▶- \$

IPRATROPIUM—INHALED (*Atrovent, Atrovent HFA*) 2 puffs qid, or one 500 mcg vial neb tid to qid. Contraindicated with soy or peanut allergy (Atrovent MDI only). [Trade only: Atrovent HFA MDI: 17 mcg/actuation, 200/canister. Generic/Trade: Soln for nebulization: 0.02% (500 mcg/vial) in unit dose vials.] ▶Lung ♀B ▶? \$\$\$\$

KETOTIFEN (+*Zaditen*) Canada only. For age 6 mo to 3 yo: give 0.05 mg/kg PO bid. Age older than 3 yo: give 1 mg PO bid. [Generic/Trade: Tabs 1 mg. Syrup 1 mg/5 mL.] ▶L ♀C ▶- \$\$

THEOPHYLLINE (*Elixophyllin, Uniphyl, Theo-24, T-Phyl, +Theo-Dur, Theolair*) 5 to 13 mg/kg/day PO in divided doses. Max dose 900 mg/day. Peds dosing variable. [Generic/Trade: Elixir 80 mg/15 mL. Trade only: Caps: Theo-24: 100, 200, 300, 400 mg. T-Phyl: 12 Hr SR Tabs 200 mg. Theolair: Tabs 125, 250 mg. Generic only: 12 Hr Tabs 100, 200, 300, 450 mg, 12 Hr Caps 125, 200, 300 mg.] ▶L ♀C ▶+ \$

TIOTROPIUM (*Spiriva*) COPD: Handihaler: 18 mcg inhaled daily. [Trade only: Caps for oral inhalation 18 mcg. To be used with "Handihaler" device only. Packages of 5, 30, 90 caps with Handihaler device.] ▶K ♀C ▶- \$\$\$\$

TOXICOLOGY

ACETYL CYSTEINE (*N-acetylcysteine, Mucomyst, Acetadote, +Parvolex*) Contrast nephropathy prophylaxis: 600 mg PO bid on the day before and on the day of contrast. Acetaminophen toxicity: Mucomyst: Loading dose 140 mg/kg PO or NG, then 70 mg/kg q 4 h for 17 doses. May be mixed in water or soft drink diluted to a 5% soln. Acetadote (IV): Loading dose 150 mg/kg in 200 mL of D5W infused over 60 min; maintenance dose 50 mg/kg in 500 mL of D5W infused over 4 h followed by 100 mg/kg in 1000 mL of D5W infused over 16 h. [Generic/Trade: Soln 10%, 20%. Trade only: IV (Acetadote).] ▶L ♀B ▶? \$\$\$\$

ANTIDOTES

TOXIN	Antidote/Treatment	Toxin	Antidote/Treatment
acetaminophen	N-acetylcysteine	digoxin	dig immune Fab
TCA's	sodium bicarbonate	ethylene glycol	fomepizole
arsenic, mercury	dimercaprol (BAL)	heparin	protamine
benzodiazepine	flumazenil	iron	deferoxamine
beta blockers	glucagon	lead	BAL, EDTA, succimer
calcium channel blockers	calcium chloride, glucagon	methanol	fomepizole
cyanide	cyanide antidote kit, Cyanokit (hydroxocobalamin)	methemoglobin	methylene blue
		opioids/opiates	naloxone
		organophosphates	atropine+pralidoxime
		warfarin	vitamin K, FFP

CHARCOAL (activated charcoal, *Actidose-Aqua*, *CharcoAid*, *EZ-Char*, *Charcodate*) 25 to 100 g (1 to 2 g/kg) PO or NG as soon as possible. May repeat q 1 to 4 h prn at doses equivalent to 12.5 g/h. When sorbitol is coadministered, use only with the first dose if repeated doses are to be given. [OTC/Generic/Trade: Powder 15, 30, 40, 120, 240 g. Soln 12.5 g/60 mL, 15 g/75 mL, 15 g/120 mL, 25 g/120 mL, 30 g/120 mL, 50 g/240 mL. Susp 15 g/120 mL, 25 g/120 mL, 30 g/150 mL, 50 g/240 mL. Granules 15 g/120 mL.] ▶Not absorbed ♀ + ♂ + \$

CYANIDE ANTIDOTE KIT (amyl nitrite + sodium nitrite + sodium thiosulfate) Induce methemoglobinemia with inhaled amyl nitrite 0.3 mL followed by sodium nitrite 300 mg IV over 2 to 4 min. Then administer sodium thiosulfate 12.5 g IV. [Package contains amyl nitrite inhalant (0.3 mL), sodium nitrite (300 mg/10 mL), sodium thiosulfate (12.5 g/50 mL).] ▶? ♀ - ♂? \$\$\$\$

DEFEROXAMINE (*Desferal*) Chronic iron overload: 500 to 1000 mg IM daily and 2 g IV infusion (no faster than 15 mg/kg/h) with each unit of blood or 1 to 2 g SC daily (20 to 40 mg/kg/day) over 8 to 24 h via continuous infusion pump. Acute iron toxicity: IV infusion up to 15 mg/kg/h (consult poison center). ▶K ♀C ♂? \$\$\$\$

FLUMAZENIL (*Romazicon*) Benzodiazepine sedation reversal: 0.2 mg IV over 15 sec, then 0.2 mg q 1 min prn up to 1 mg total dose. Overdose reversal: 0.2 mg IV over 30 sec, then 0.3 to 0.5 mg q 30 sec prn up to 3 mg total dose. Contraindicated in mixed drug OD or chronic benzodiazepine use. ▶LK ♀C ♂? \$\$\$\$

HYDROXOCOBALAMIN (*Cyanokit*) Cyanide poisoning: 5 g IV over 15 min; may repeat prn. ▶K ♀C ♂? \$\$\$\$

IPECAC SYRUP Emesis: 30 mL PO for adults, 15 mL age 1 to 12 yo. [OTC Generic only: Syrup 30 mL.] ▶Gut ♀C ♂? \$

METHYLENE BLUE (*Urolene blue*) Methemoglobinemia: 1 to 2 mg/kg IV over 5 min. Dysuria: 65 to 130 mg PO tid after meals with liberal water. May turn urine/contact lenses blue. [Trade only: Tabs 65 mg.] ▶K ♀C ♂? \$

PRALIDOXIME (*Protopam*, *2-PAM*) Organophosphate poisoning: consult poison center: 1 to 2 g IV infusion over 15 to 30 min or slow IV injection over

(cont.)

5 min or longer (max rate 200 mg/min). May repeat dose after 1 h if muscle weakness persists. High dose regimen (unapproved): 2 g over 30 min, followed by 1 g/h for 48 h, then 1 g/h every 4 h until improved. Peds: 20 to 50 mg/kg/dose IV over 15 to 30 min. ▶K ♀C ▶? \$\$\$\$

SUCCIMER (Chemet) Lead toxicity in children 1 yo or older: Start 10 mg/kg PO or 350 mg/m² q 8 h for 5 days, then reduce the frequency to q 12 h for 2 weeks. [Trade only: Caps 100 mg.] ▶K ♀C ▶? \$\$\$\$

UROLOGY

Benign Prostatic Hyperplasia

ALFUZOSIN (UroXatral, ✦Xatral) 10 mg PO daily after a meal. [Trade only: Extended-release tab 10 mg.] ▶KL ♀B ▶—\$\$\$

DUTASTERIDE (Avodart) 0.5 mg PO daily. [Trade only: Caps 0.5 mg.] ▶L ♀X ▶—\$\$\$\$

FINASTERIDE (Proscar, Propecia) Proscar: 5 mg PO daily alone or in combination with doxazosin to reduce the risk of symptomatic progression of BPH. Androgenetic alopecia in men: Propecia: 1 mg PO daily. [Generic/Trade: Tabs 1 mg (Propecia), 5 mg (Proscar).] ▶L ♀X ▶—\$\$\$

TAMSULOSIN (Flomax) 0.4 mg PO daily, 30 min after a meal. Maximum 0.8 mg/day. [Trade only: Caps 0.4 mg.] ▶LK ♀B ▶—\$\$\$\$

Bladder Agents—Anticholinergics & Combinations

DARIFENACIN (Enblex) Overactive bladder with symptoms of urinary urgency, frequency, and urge incontinence: 7.5 mg PO daily. May increase to max dose 15 mg PO daily in 2 weeks. Max dose 7.5 mg PO daily with moderate liver impairment or when coadministered with potent CYP3A4 inhibitors (ketoconazole, itraconazole, ritonavir, nelfinavir, clarithromycin & nefazodone). [Trade only: Extended-release tabs 7.5, 15 mg.] ▶LK ♀C ▶—\$\$\$\$

FESOTERODINE (Toviaz) Overactive bladder: 4 to 8 mg PO daily. [Trade only: Tabs, extended-release 4, 8 mg.] ▶plasma ♀C ▶—\$\$\$\$

OXYBUTYNIN (Ditropan, Ditropan XL, Gelnique, Oxytrol, ✦Oxybutyn, Uromax) Bladder instability: 2.5 to 5 mg PO bid to tid, max 5 mg PO qid. Extended-release tabs: 5 to 10 mg PO daily, increase 5 mg/day q week to 30 mg/day. Oxytrol: 1 patch twice a week on abdomen, hips, or buttocks. Gelnique: Apply gel once daily to abdomen, upper arms/shoulders, or thighs. [Generic/Trade: Tabs 5 mg. Syrup 5 mg/5 mL. Extended-release tabs 5, 10, 15 mg. Trade only: Transdermal patch (Oxytrol) 3.9 mg/day. Gelnique 10% gel, 1 g unit dose.] ▶LK ♀B ▶? \$

PROSED/DS (methenamine + phenyl salicylate + methylene blue + benzoic acid + hyoscyamine) Bladder spasm: 1 tab PO qid with liberal fluids. May turn urine/contact lenses blue. [Trade only: Tabs (methenamine 81.6 mg/phenyl salicylate 36.2 mg/methylene blue 10.8 mg/benzoic acid 9.0 mg/hyoscyamine sulfate 0.12 mg).] ▶KL ♀C ▶? \$\$

SOLIFENACIN (*VESIcare*) Overactive bladder with symptoms of urinary urgency, frequency, or urge incontinence: 5 mg PO daily. Max dose: 10 mg daily (5 mg daily if CrCl <30 mL/min, moderate hepatic impairment, or concurrent ketoconazole or other potent CYP3A4 inhibitors). [Trade only: Tabs 5, 10 mg.] ▶LK ♀C D—\$\$\$\$

TOLTERODINE (*Detrol, Detrol LA, ✦Unidet*) Overactive bladder: 1 to 2 mg PO bid (Detrol) or 2 to 4 mg PO daily (Detrol LA). [Trade only: Tabs 1, 2 mg. Caps, extended-release 2, 4 mg.] ▶L ♀C D—\$\$\$\$

TROSPIUM (*Sanctura, Sanctura XR, ✦Trosec*) Overactive bladder with urge incontinence: 20 mg PO bid; give 20 mg qhs if CrCl <30 mL/min. If age 75 yr or older may taper down to 20 mg daily. Extended-release: 60 mg PO qam, 1 h before food. [Trade only: Tabs 20 mg, Caps, extended-release, 60 mg.] ▶LK ♀C D? \$\$\$\$

URISED (methenamine + phenyl salicylate + atropine + hyoscyamine + benzoic acid + methylene blue) Dysuria: 2 tabs PO qid. May turn urine/contact lenses blue, don't use with sulfa. [Trade only: Tabs (methenamine 40.8 mg/phenyl salicylate 18.1 mg/atropine 0.03 mg/hyoscyamine 0.03 mg/4.5 mg benzoic acid/5.4 mg methylene blue).] ▶K ♀C D? \$

UTA (methenamine + sodium phosphate + phenyl salicylate + methylene blue + hyoscyamine) Bladder spasm: 1 cap PO qid with liberal fluids. [Trade only: Caps (methenamine 120 mg/sodium phosphate 40.8 mg/phenyl salicylate 36 mg/methylene blue 10 mg/hyoscyamine 0.12 mg).] ▶KL ♀C D? \$

UTIRA-C (methenamine + sodium phosphate + phenyl salicylate + methylene blue + hyoscyamine) Bladder spasm: 1 cap PO qid with liberal fluids. [Trade only: Tabs (methenamine 81.6 mg/sodium phosphate 40.8 mg/phenyl salicylate 36.2 mg/methylene blue 10.8 mg/hyoscyamine 0.12 mg).] ▶KL ♀C D? \$\$

Bladder Agents—Other

BETHANECHOL (*Urecholine, Duvoid, ✦Myotonachol*) Urinary retention: 10 to 50 mg PO tid–qid. [Generic/Trade: Tabs 5, 10, 25, 50 mg.] ▶L ♀C D? \$\$\$\$

PHENAZOPYRIDINE (*Pyridium, Azo-Standard, Urogesic, Prodiem, Pyridiate, Urodol, Baridium, UTI Relief, ✦Phenazo*) Dysuria: 200 mg PO tid for 2 days. May turn urine/contact lenses orange. [OTC Generic/Trade: Tabs 95, 97.2 mg. Rx Generic/Trade: Tabs 100, 200 mg.] ▶K ♀B D? \$

Erectile Dysfunction

ALPROSTADIL (*Muse, Caverject, Caverject Impulse, Edex, Prostin VR Pediatric, prostaglandin E1, ✦Prostin VR*) 1 intraurethral pellet (Muse) or intracavernosal injection (Caverject, Edex) at lowest dose that will produce erection. Onset of effect is 5 to 20 min. [Trade only: Syringe system (Edex) 10, 20, 40 mcg. (Caverject) 5, 10, 20, 40 mcg. (Caverject Impulse) 10, 20 mcg. Pellet (Muse) 125, 250, 500, 1000 mcg. Intracorporeal injection of

(cont.)

locally-compounded combination agents (many variations): "Bi-mix" can be 30 mg/mL papaverine + 0.5 to 1 mg/mL phentolamine, or 30 mg/mL papaverine + 20 mcg/mL alprostadil in 10 mL vials. "Tri-mix" can be 30 mg/mL papaverine + 1 mg/mL phentolamine + 10 mcg/mL alprostadil in 5, 10 or 20 mL vials.] ▶L ♀-D-\$\$\$\$

SILDENAFIL (Viagra) Start 50 mg PO 0.5 to 4 h prior to intercourse. Max 1 dose/day. Usual effective range 25 to 100 mg. Start at 25 mg if for age 65 yo or older or liver/renal impairment. Pulmonary hypertension: 20 mg PO tid. Contraindicated with nitrates. [Trade only (Viagra): Tabs 25, 50, 100 mg. Unscored tab but can be cut in half. Trade only (Revatio): Tabs 20 mg.] ▶LK ♀B D-\$\$\$\$

TADALAFIL (Cialis) 2.5 to 5 mg PO daily without regard to timing of sexual activity. As needed dosing: Start 10 mg PO at least 30 to 45 min prn prior to sexual activity. May increase to 20 mg or decrease to 5 mg prn. Max 1 dose/day. Start 5 mg (max 1 dose/day) if CrCl 31 to 50 mL/min. Max 5 mg/d if CrCl <30 mL/min on dialysis. Max 10 mg/day if mild to moderate hepatic impairment; avoid in severe hepatic impairment. Max 10 mg once in 72 h if concurrent potent CYP3A4 inhibitors. Pulmonary hypertension: 40 mg PO daily. Contraindicated with nitrates & alpha-blockers (except tamsulosin 0.4 mg daily). Not FDA approved for women. [Trade only (Cialis): Tabs 2.5, 5, 10, 20 mg. Trade only (Adcirca): Tabs 20 mg.] ▶L ♀B D-\$\$\$\$

VARDENAFIL (Levitra) Start 10 mg PO 1 h before sexual activity. Usual effective dose range 5 to 20 mg. Max 1 dose/day. Use lower dose (5 mg) if age 65 yo or older or moderate hepatic impairment (max 10 mg). Contraindicated with nitrates and alpha-blockers. Not FDA-approved in women. [Trade only: Tabs 2.5, 5, 10, 20 mg.] ▶LK ♀B D-\$\$\$\$

YOHIMBINE (Yocon, Yohimex) 5.4 mg PO tid. Not FDA approved. [Generic/Trade: Tabs 5.4 mg.] ▶L ♀-D-\$

Nephrolithiasis

CITRATE (Polycitra-K, Urocit-K, Bicitra, Oracit, Polycitra, Polycitra-LC) Urinary alkalization: 1 packet in water/juice PO tid-qid. [Generic/Trade: Polycitra-K packet 3300 mg potassium citrate/ea, Polycitra-K oral soln (1100 mg potassium citrate/5 mL, 480 mL). Oracit oral soln (490 mg sodium citrate/5 mL, 15, 30, 480 mL). Bicitra oral soln (500 mg sodium citrate/5 mL, 480 mL). Urocit-K wax (potassium citrate) Tabs 5, 10 mEq. Polycitra-LC oral soln (550 mg potassium citrate/500 mg sodium citrate per 5 mL, 480 mL). Polycitra oral syrup (550 mg potassium citrate/500 mg sodium citrate per 5 mL, 480 mL.) ▶K ♀C D? \$\$\$

INDEX

To facilitate speed of use, index entries are shown with page number and approximate position on the page ("t" is top; "m" is middle; "b" is bottom). Although the PDA edition of the *Tarascon Pocket Pharmacopoeia* contains more than 6000 drug names, it is physically impossible to include all in pocket-sized manuals. Therefore, rarely used or specialized drugs appear in the PDA only (noted as "PDA" in the index) or in both the PDA and Deluxe edition (noted as "D" in the index).

- 2-PAM 153b
 3TC 21t
 5-aminosalicylic acid 98t
 5-ASA 98t
 5-FU
 Dermatology ... 59b
 Oncology 129t
 6-MP 129t
 8-MOP D
 9-hydroxyrisperidone 142m
 15-methyl-prosta-
 glandin F2 alpha ..
 126b
 292 tabs 9t
- A**
- A/T/S 59t
 A1C home testing
 73b
 A-200 61b
 abacavir ... 19b, 20m
 abarelix 129t
 abatacept D
 ABC 20m
 abciximab 47b
 Abilcet 14b
 Abenol 11m
 Abilify 140b
 Abilify Discmelt
 140b
 Abraxane 129m
 Abreva 62b
 ACAM 2000 D
 acamprostate .. 145m
 acanya 58t
 acarbose 70t
 Accolate 150m
 Accu-Check
 Advantage 74m
 Accu-Check Aviva
 74t
 Accu-Check
 Compact 74t
 Accu-Check
 Compact Plus .. 74t
 Accu-Check
 Complete 74t
- Accu-Check
 Voicemate 74t
 Accu-Chek Active
 74t
 AccuNeb 148t
 Accu-Prep 96b
 Accupril 35b, 36b
 Accurate 45tm
 Accutane 59t
 acebutolol 48b
 acemannan 103m
 Aceon 35b, 36m
 Acetadote 152b
 acetaminophen
 Analgesics ... 3tmb,
 8b, 9tmb,
 10tmb, 11tmb
 Neurology 118m
 acetazolamide 52t
 acetic acid 87tm
 acetohydroxamic
 acid D
 acetylcholine D
 acetylcysteine.. 152b
 acetylcysteine—
 inhaled 150m
 Acidophilus 108t
 AcipHex 94b
 acitretin 62m
 Aclasta 68m
 Aclovate 65t
 acrivastine D
 ActHIB 110m
 Acticin 62t
 Actidose-Aqua .. 153t
 Actifed Cold &
 Allergy 85t
 Actifed Cold & Sinus
 85t
 Actigall 99b
 Actiq 6b
 Activase 55m
 Activase rt-PA .. 55m
 activated charcoal ..
 153t
 activella 123m
 Actonel 68t
 Actonel Plus
 Calcium 68t
 ACTOPLUS Met... 70t
- Actos 71b
 Actron 5t
 Acular 135m
 Acular LS 135m
 acyclovir 18b
 acyclovir—topical...
 62b
 Aczone 16m
 Adacel 110t
 Adalat 50b
 Adalat CC 50b
 Adalat PA 50b
 Adalat XL 50b
 adalimumab 1t
 adapalene 58tb
 Adcirca 55t
 Adderall 146m
 Adderall XR ... 146m
 adefovir 24t
 Adenocard 39m
 adenosine 39m
 ADH 83m
 Adipex-P 147b
 Adoxa 33m
 adrenalin 54m
 Adriamycin 129t
 Adrucil 129t
 Advair 149t, 152t
 Advair HFA 149t,
 152t
 Advate D
 Advicor 43t
 Advil 4b
 Aeries 83b
 AeroBid .. 149b, 152t
 AeroBid-M 149b,
 152t
 Aerospan 149b,
 152t
 Aesculus hip-
 pocastanum .. 107t
 Afeditab CR 50b
 Aflexa 106m
 Afluria 110b
 African plum tree ...
 108m
 Afrin 89t
 agalsidase beta
 PDA
 Aggrastat 48m
- aggrenox 48t
 Agrylin 102b
 Airomir 148t
 Akarpine 134t
 AK-Con 130t
 AK-Dilate 135t
 Akineton 119b
 AK-Mycin 131b
 AK-Pentolate ... 134b
 AK Tate 133m
 Akten 135m
 AK Tracin 131m
 Akurza 59m
 Alamast 130b
 Alavert 83b
 Alavert D-12 85t
 Alaway 130m
 Albalon 130t
 albendazole 17t
 Albenza 17t
 Albumarc 56t
 albumin 56t
 Albuminar 56t
 albuterol.. 148t, 149t
 Alcaine 135b
 alclometasone
 dipropionate ... 65t
 alcohol D
 Aldactazide 45t
 Aldactone 37t
 Aldara 62b
 aldesleukin 129m
 Aldomet 39t
 Aldoril 45t
 Aldurazyme PDA
 alefacept 62m
 alemtuzumab.. 129m
 alendronate 67b
 Alertec 147b
 Alesse... 123b, 124m
 Aleve 5b
 Aleve Cold & Sinus.. D
 Alfenta D
 alfentanil D
 Alferon N D
 alfuozin
 Cardiovascular
 41t
 Urology 154m
 alglucerase PDA

t = top of page

m = middle of page

b = bottom of page

D,PDA = see page 157

- aglucosidase alfa PDA
Align..... 108t
Alimta 129t
Alinia..... 17m
 aliskiren 46m
 alitretinoin 64t
Alka-Seltzer..... 92t
Alkeran..... 128b
All Clear 130t
Allegra..... 83b
Allegra-D 12-h..... 85m
Allegra-D 24-h..... 85m
Aller-Chlor 84t
Allerdryl..... 84m
Allerfrim..... 85t
Allermax..... 84m
AllerNaze..... 88b
Aller-Relief 84t
 AlleRx D
Alii..... 99m
Allium sativum 105b
 allopurinol..... 75t
Alluna..... 109b
Almora..... 77t
 almotriptan 117m
Alocril..... 130b
 aloe vera 103m
Alomide..... 130b
Aloprim..... 75t
Alora..... 122b
 alosetron 98m
Aloxi..... 90b
 alpha-1 antitrypsin..D
 alpha-1 proteinase inhibitor..... D
 alpha-galactosidase 98m
Alphagan..... 134m
Alphagan P..... 134m
Alphanate..... D
 alprazolam 144m
 alprostadiol..... 155b
Alex..... 133t
Alsoy..... 78m
Altanax..... 60b
Altace..... 35b, 36b
Altafrin..... 135t
 alteplase 55m
Alternagel..... 92t
Altoprev..... 43b
 altretamine 128b
 Alu-Cap..... 92t
 aluminum acetate... .. 87t
 aluminum chloride.. .. 64t
 aluminum hydroxide
 Analgesics..... 2b
 Gastroenterology... .. 92tm
Alupent.. 148b, 152t
Alu-Tab..... 92t
Alvesco..... 149b
Alvesco 160 mcg..... 152t
Alvesco 80 mcg..... 152t
 alvimopan 98m
 amantadine..... 22b
Amaryl..... 73b
Amatine..... 54b
 ambenonium PDA
Ambien..... 144b
Ambien CR 144b
Ambisome..... 14b
 ambrisentan..... PDA
 amcinonide 65m
Amerge..... 117b
 amethocain PDA
Amevive..... 62m
Amicar..... 102b
Amidate..... 12t
Amidrine..... 118m
 amifostine..... 129t
Amigesic..... 4m
 amikacin 13t
Amikin..... 13t
 amiloride..... 47t
 aminocaproic acid... .. 102b
 aminoglutethimide..D
 aminohippurate..... D
 aminolevulinic acid..D
 aminophylline...150b
 aminosalicilylic acid... .. PDA
 amiodarone 39b, 41t
Amitiza..... 97b
 amitriptyline..... 136t
Amlactin..... 64b
 amlexanox..... 87m
 amlodipine 43m, 45b, 50m
Ammonul..... D
Amnesteem 59t
 amobarbital PDA
 amoxapine..... D
 amoxicillin
 Antimicrobials 30b, 31b
 Gastroenterology... .. 93m
 amoxicillin-clavulanate 31t
Amoxil..... 30b
 ampalaya 104t
Amphadase..... PDA
 amphetamine..... 146m
Amphojel..... 92t
Amphotec..... 14b
 amphotericin B
 deoxycholate... 14b
 amphotericin B lipid formulations... 14b
 ampicillin..... 31tb
 ampicillin-sulbactam 31m
Amrix..... 2t
 amyl nitrite..... 153m
Anacin..... 4t
Anadrol-50..... PDA
 anaerobes 23b
Anafranil..... 136t
 anagrelide..... 102b
 anakinra..... 1t
Analpram-HC..... D
Anaprox..... 5b
Anaspaz..... 95t
 anastrozole..... 129t
Ancef..... 25b
Ancobon 14b
Andriol..... 67m
Androcur..... 129t
Androcur Depot 129t
Androderm..... 67m
AndroGel..... 67m
Android..... 67t
Androxy..... D
Anectine..... 12b
 anexsia 8b
Angelica sinensis... .. 105t
Angeliq..... 123b
Angiomax 101m
 Angiotensin receptor blockers (ARBs)... 37t
 anhydrous glycerin 87m
 anidulafungin..... 14m
Ansaid..... 4b
Antabuse..... 145m
Antara..... 44b
 antazoline 130t
Anthemis nobilis—
 Roman chamomile 104t
Anthraforte..... 62b
 anthralin 62b
Anthranel..... 62b
Anthrascalp..... 62b
 anti-inhibitor coagulant complex.. D
Antilirium D
Antiminth..... 17b
 antipyrine 86b
Antispas..... 94b
 antivenin—crotalidae immune fab ovine polyvalnet..... 112t
 antivenin—latrodectus mactans.. D
Antivert 84b
Antizol..... D
Anusol-HC..... D
Anzemet..... 90t
Aphthasol..... 87m
Apidra 72b
Aplenzin 138b
Aplisol..... 113b
Apo-Gain..... 66t
Apokyn..... 120t
 apomorphine
 Cardiovascular..41t
 Neurology..... 120t
 apraclonidine D
 aprepitant 90b
Apresazide..... 45t
Apresoline 47b
Apri 124m
Apriso..... 98t
Aprodine..... 85t
Aptivus..... 22b
Aquachloral
 Supporettes... 144b
AquaMephyton... 81b
Aquasol E..... 81b
AraC..... 129t
Aralast..... D
Aralen..... 15m
Aranelle..... 124b
Aranesp..... 102t
Arava..... 1b
Arcalyst..... PDA
Aredia..... 68t
 arformoterol 148b
 argatroban 101m
Arcept..... 114t
Arimidex..... 129t

aripiprazole 140b, 141b
Aristospan 69b
Arixtra 101t
 armodafinil 146b
Armour Thyroid D
 arnica 103b
Arnica montana 103b
 Aromasin 129m
 Arranon D
 arsenic trioxide
 Cardiovascular 41t
 Ophthalmology 129m
Artane 119b
 artemether 15m
 arthrotec 4m
 articaïne 12m
 artichoke leaf
 extract 103b
 artificial tears 135m
 ASA
 Analgesics 2b, 3tmb, 4t, 9t, 10tm
 Cardiovascular 48t
 Gastroenterology 92t
Asacol 98t
Asaphen 4t
 ascorbic acid 80tm, 81t
Ascriptin 2b
Aslera 104b
Asmanex 152t
Asmanex Twisthaler 149b
Asmavent 148t
 asparaginase 129b
A-spaz 95t
Aspir-Mox 2b
Assalix 109b
Astelin 88b
Astepro 88b
 astragalus 103b
Astragalus mem-branaceus 103b
Atacand 37t
Atacand HCT 45t
Atacand Plus 45m
Atarax 84b
Atasol 11m
 atazanavir 21m
 atenolol 47t, 48b
Atgam 112m
Atinitor D
Ativan 144t

atomoxetine 146b
 atorvastatin 43tm
 atovaquone 15m, 17m
 atracurium D
 atripla 19b
AtroPen 40t
 atropine
 Cardiovascular 40t
 Gastroenterology 89b, 95t
 Ophthalmology 134b
 Toxicology 153t
 Urology 155m
 atropine—ophthal-mic 134b
Atropine Care 134b
Atrovent 152m
Atrovent HFA 152tm
Atrovent Nasal Spray 88b
Attenuvax PDA
ATV 21m
 augmented
 betamethasone
 dipropionate D
Augmentin 31t
 ES-600 31t
 Augmentin XR 31t
 auralgan 86b
 auranofin D
 Avenge 59m
 Avalide 45t
 Avandamet 70m
 Avandaryl 70m
 Avandia 71b
 Avapro 38t
 Avastin 129m
 Avaxim 110m
 Aveeno 66t
 Avelox 32b
 Aventyl 136m
 Aviane 123b, 124m
 avian influenza vac-cine H5N1—inacti-vated injection 110t
Avinza 7b
Avodart 154m
Avonex 118b
Axert 117m
Axid 93t
Axid AR 93t
Aygestin 126m
 azacitidine 129t
Azactam 33b

Azasan 1b
Azasite 131m
 azathioprine 1b
 azelaic acid 58m
 azelastine—nasal .. 88b
 azelastine—
 ophthalmic 130t
Azelex 58m
Azilect 120b
 azithromycin
 Antimicrobials 27b, 31b
 Cardiovascular 41t
 azithromycin—
 ophthalmic .. 131m
Azmacort 150t, 152t
Azopt 133b
Azor D
Azo-Standard .. 155b
AZT 21t
 aztreonam 33b
Azulfidine 98m
Azulfidine EN-tabs .. 98m

B

B&O Suppettes D
BabyBIG 112t
Bacid 108t
Baciguent 60t
Bacillus of Calmette & Guerin 129m
 bacitracin
 Dermatology 60tm
 Ophthalmology 131b
 bacitracin—
 ophthalmic .. 131m
baclofen 2t
Bactocill 30b
Bactrim 33t
Bactroban 60m
 BAL in oil D
 balsalazide 98t
Balziva 124t
 banana bag 78t
Banophen 84m
Banzel 116m
Baraclude 24t
Baridium 155b
 barium sulfate .. 57b
Basalgel 92t
 basiliximab 113m
Bayer 4t

t = top of page
 m = middle of page
 b = bottom of page
 D, PDA = see page 157

Baygam 112m
BayTet 113t
 BCG 129m
 BCG vaccine 110t
BCNU 128b
B-D Glucose 74t
Beano 98m
 becaplermin 64t
 beclomethasone 88t
 beclomethasone HFA
 MDI 151t
 beclomethasone—
 inhaled 149m
Beconase AQ 88t
 belladonna D
Bellergal-S D
Bellergal Spacetabs D
Benadryl 84m
Benadryl Allergy/Cold 85t
Benadryl-D Allergy & Sinus D
Benadryl-D Allergy/Sinus Tablets .. 85t
 benazepril 35mb, 45b
 bendamustine 128b
 bendroflumethiazide 45b
BeneFin 109t
Benefix D
Benicar 38t
Benicar HCT 45t
Benzoquin 66t
Benoxyl 58m
Bentyl 94b
Bentytol 94b
Beneryl 75t
Benylin 84b
Benylin DME D
Benzac 58m
 benzaclin 58m
Benzagel 10% 58m
 benzamycin 58m
 benzathine
 penicillin 30t
 benzocaine 86b, 89m

t = top of page

m = middle of page

b = bottom of page

D,PDA = see page 157

- benzoic acid ... 154b,
..... 155m
benzonatate 84b
benzoyl peroxide... 58tm
benzphetamine... D
benztropine
 mesylate 119b
beractant D
Berotec 148m
besifloxacin 131t
Besivance 131t
Betaderm D
Betagan 133b
betahistine D
betaine PDA
Betaject 68b
Betaloc 49b
betamethasone
 Dermatology... 62b,
 63b
 Endocrine &
 metabolic... 68b,
 69b
betamethasone
 dipropionate... 65b
betamethasone
 valerate 65t
Betapace 42m
Betapace AF 42m
Betaseron 119m
Beta-Val 65t
betaxolol 49t
betaxolol—ophthal-
mic 133b
bethanechol 155b
Betimol 133b
Betoptic 133b
Betoptic S 133b
bevacizumab... 129m
bexarotene 129b
Bexxar 129m
bezafibrate 44m
Bezalip 44m
Biaxin 27b
Biaxin XL 27b
bicalutamide... 129t
bicarbonate
 Cardiovascular... 40t
 Gastroenterology...
 92t, 94b
Bicillin C-R 30t
Bicillin L-A 30t
Bicitra 156b
BiCNU 128b
BiDiL 56m
Biest PDA
Bifantis 108t
bifidobacteria... 108t
bilberry 103b
bile acid seques-
trants 43b
Biltricide 17b
bimatoprost... 134m
Bionect 64b
BioRab 111m
biotin 81t
biperiden 119b
Biphentin 147m
Biquin durules... 42t
Bisacodyl 97t
biskalcitrate... 93b
bismuth subsalicy-
late 89m, 93m
biso-prolol... 47m, 49t
bitter melon... 104t
bivalirudin... 101m
bladder agents 155b
Blenoxane 128b
bleomycin 128b
Bleph-10 131b
Blephamide 132t
Blocadren D
blood transfusion...
 PDA
Bonamine 84b
Bonefos 67b
Bonine 84b
Boniva 68t
Bontril D
Bontril Slow Release... D
Boostrix 110t
boric acid 127m
bortezomib 129b
bosentan D
Botax 121t
Botax Cosmetic 121t
botulinum toxin
 type A 121t
botulinum toxin
 type B D
botulism immune
 globulin 112t
Bravelle D
Brethine D
Brevibloc 49m
Breviceon 124t
Brevicon 1/35 D
Brevital 12t
Bricanyl Turbuhaler... D
brimonidine... 134mb
brinzolamide... 133b
bromazepam... 143m
bromfenac—
 ophthalmic... 135t
Bromfenex 85m
Bromfenex PD D
bromocriptine... 82m
brompheniramine... D
Brovana 148b
budesonide
 Gastroenterology...
 98b
 Pulmonary... 149m,
 151m
budesonide DPI
 151t
budesonide—
 inhaled 149m
budesonide—nasal
 88t
bufferin 2b
bumetanide 52m
Bumex 52m
Buminate 56t
bupivacaine 12m
Buprenex 6t
buprenorphine
 Analgesics... 6t, 7t
 Psychiatry... 146t
Buproban 138b
bupropion 138b
Burinex 52m
burn plant 103m
Buscopan 95t
BuSpar 144m
buspirone 144m
busulfan 128b
Busulfex 128b
butabarbital... PDA
butalbital... 3tmb,
 9m
butamben 89m
butenafine 60b
Butisol PDA
butoconazole... 127m
butorphanol... 6m, 7t
butterbur 104t
Byetta 74t
Bystolic 50t
- C**
- cabergoline 82m
Caduet 43m
Caelyx 128b
Calcit 147t
Cafegot 118t
Caffedrine 147t
caffeine
 Analgesics... 3tm,
 9m, 10m
 Neurology... 118t
 Psychiatry... 147t
calcamine 64t
Calcibind D
Calciferol 82t
Calcijex 80t
Calcimar 82b
calcipotriene... 62b
calcitonin 82b
calcitriol 80t
calcium acetate... 75t
calcium carbonate
 Analgesics... 2b
 Endocrine &
 metabolic... 75m
 Gastroenterology...
 92b, 93t
 OB/GYN... 128m
calcium chloride
 Endocrine &
 metabolic... 75b
 Toxicology... 153t
calcium citrate... 75b
calcium gluconate...
 75b
Caldolor 4b
calfactant D
CaloMist 80t
Calsan 75m
Caltine 82b
Caltrate 75m
Cambia 4m
Camellia sinensis...
 106b
Camila... 124m, 126m
Campath 129m
Campral 145m
Camptosar 129b
Canasa 98t
Candidas 14m
candesartan... 37t,
 45m
Candistatin
 Antimicrobials
 15t
 Dermatology... 61b
Canesten
 Antimicrobials
 13m
 Dermatology... 61t

OB/GYN..... 127m
 Cankermelt..... 107m
Cannibis sativa L.
 extract..... D
Cantil..... 95m
Capastat..... PDA
 capecitabine ... 129t
Capex..... D
 Capital with Codeine
 Suspension 9t
Capoten..... 35m
Capozide 45t
 capreomycin PDA
Caprex..... D
 capsaicin 64t
 captopril... 35mb, 45m
Carac..... 59b
Carafate..... 95b
 carbachol D
 carbamazepine... 114b
 carbamide peroxide ...
 86b
Carbapenems... 25m
Carbatrol..... 114b
 carbidopa..... 120b
 carbidopa-levodopa
 120m
 carbinoxamine..... D
Carbocaine..... 12b
Carbodec DM..... D
 carboplatin..... 129m
 carboprost..... 126b
Cardene..... 50b
Cardene SR..... 50b
Cardio-Omega 3.....
 78m
Cardizem..... 51m
Cardizem CD..... 51m
Cardizem LA..... 51m
Cardura..... 38b
Cardura XL..... 38b
Carimune..... 112m
 carisoprodol... 2t, 3b
 10m
Carmol 40..... D
Carmol HC..... D
 carmustine..... 128b
Carnitor..... 78m
 carteolol—ophthal-
 mic 133b
Cartia XT..... 51m
Cartilade..... 109t
 carvedilol..... 49t
 cascara..... 97t
Casodex..... 129t
 caspofungin... 14m
 castor oil 97t

Cataflam..... 4m
Catapres..... 38b
Catapres-TTS... 38b
 Cathflo 55m
Caverject..... 155b
Caverject Impulse.....
 155b
CCNU..... 128b
Ceclor..... 26t
Cedax..... 27t
Cedocard SR..... 53t
CeeNu..... 128b
 cefaclor 26t
 cefazolin... 25b, 31b
 cefdinir..... 26b
 cefditoren..... 26b
 cefepime 27m
 cefixime 26b
Cefizox..... 27t
 cefotaxime..... 26b
 cefotetan D
 cefoxitin 26t
 cefpodoxime..... 27t
 cefprozil 26m
 ceftazidime 27t
 ceftibuten..... 27t
Ceftin..... 26m
 ceftizoxime..... 27t
 ceftriaxone 27t
 cefuroxime..... 26m
Cefzil..... 26m
Celebrex..... 3b
 celecoxib 3b
Celestone..... 68b
Celestone Soluspan.....
 68b
Celexa..... 137t
Cellcept..... 113b
 cellulose sodium
 phosphate D
Celontin..... PDA
Cena-K..... 77b
Cenestin..... 123m
Centany..... 60m
 cephalixin.....
 25b, 31b
Ceptrotin..... PDA
Ceptaz..... 27t
CeraLyte 50..... 79t
CeraLyte 70..... 79t
CeraLyte 90..... 79t
Cerebyx..... 115t
Ceredase..... PDA
Cerefolin..... D
Cerefolin with NAC... D
Cerezyme..... PDA

Certain Dri..... 64t
 certolizumab 98b
Cerubidine..... 128b
Cervidil..... 125b
C.E.S...... 123t
Cesamet..... 91m
Cesia..... 124b
Cetacaine..... 89m
 cetirizine 84t
Cetraxal..... 86b
 cetorelix acetate... D
Cetrotide..... D
 cetuximab 129m
 cevimeline 87m
 chamomile 104t
Chantix..... 146t
CharcoAid..... 153t
 charcoal 153t
Charcodate..... 153t
 chasteberry ... 104m
Chemet..... 154t
Cheracol D Cough... D
Cheratussin AC... D
Cheratussin DAC... D
Children's Advil Cold
 D
 chloral hydrate... 144b
 chlorambucil... 128b
 chloramphenicol... 33b
 chlordiazepoxide
 Gastroenterology...
 99t
 Psychiatry..... 143m
 chlordiazepoxide-
 clidinium 98b
Chlordrine SR... 85m
 chlorhexidine gluco-
 nate..... 87b
 chlorodeoxyadenos-
 ine 129t
Chloromycetin... 33b
 chlorophyllin copper
 complex 66m
 chloroprocaine... PDA
 chloroquine
 Antimicrobials
 15m
 Cardiovascular
 41t
 chlorothiazide D
 chlorpheniramine... 84t
 chlorpromazine
 Cardiovascular
 41t
 Psychiatry 140t,
 141m
 chlorpropamide..... D

161
Index
 t = top of page
 m = middle of page
 b = bottom of page
 D, PDA = see page 157

chlorthalidone... 45b,
 47t, 52b
Chlor-Trimeton... 84t
 chlorzoxazone..... 2t
CholeRx..... 107b
 cholesterol absorp-
 tion inhibitor... 43b
Cholestin..... 107b
 cholestyramine... 42m
 choline magnesium
 trisalicylate 4t
 chondroitin 104m
 choriogonadotropin
 alfa D
 chorionic gonadotro-
 pin D
Chrysanthemum
parthenium... 105m
Cialis..... 156m
 ciclesonide 88t
 ciclesonide—
 inhaled 149b
 ciclopirox..... 60b
Cidecin..... 34t
 cidofovir 18m
 cigarette..... PDA
 cilazapril 36t, 45b
 cilostazol 56m
Ciloxan..... 131t
 cimetidine 92b
Cimzia..... 98b
 cinacalcet D
Cipralox..... 137t
Cipro..... 32t
 ciprodex otic..... 86b
 ciprofloxacin
 Antimicrobials... 32t
 ENT 86b
 ciprofloxacin—
 ophthalmic 131t
Cipro HC Otic... 86b
Cipro XR..... 32t
 cisapride 41t
 cisatracurium... 12b
 cisplatin 129m
 citalopram 137t
Citanest..... PDA
Citracal..... 75b

t = top of page

m = middle of page

b = bottom of page

D,PDA = see page 157

citrate

Gastroenterology...
..... 92t

Urology 156b

Citri Lean 105b

citrocarbonate... 92t

Citro-Mag 96t*Citrucel* 95b*Ci-wu-jia* 106t

cladribine 129t

Claforan 26b*Clarithin* 59t*Clarinex* 83b*Clarinex-D 12 hour*...D*Clarinex-D24-h*...85m*Claripel* 64b

clarithromycin

Antimicrobials
..... 27b, 31bCardiovascular
..... 41tGastroenterology...
..... 93m*Claritin* 83b*Claritin-D 12 h*...85t*Claritin-D 24 h*...85t*Claritin Hives Relief*..
..... 83b*Claritin RediTabs*.....
..... 83b*Clarus* 59t*Clavulin* 31t*Clearasil* 58m*Clearasil Cleanser*...
..... 59m*Clear Eyes* 130t

clemastine 84t

clenia 58b

Cleocin

Antimicrobials
..... 34t

OB/GYN 127m

Cleocin T 58b

clevidipine 50b

Cleviprex 50b*Climara* 122b*Climara Pro* 123b*Clindagel* 58b*ClindaMax* 58b

clindamycin

Antimicrobials
..... 31b, 34tDermatology
..... 58tmb, 59b

clindamycin—

topical 58b

clindamycin—

vaginal 127m

Clindesse 127m*Clinistix* 74m*Clinitest* 74m*Clinoril* 6t

clobazam 114b

clobetasol 65b

Clobex Dclocortolone pivalate
..... 65t*Cloderm* 65t

clodronate 67b

clofarabine 129t

clofazimine D

Clolar 129t*Clomid* 125b

clomiphene 125b

clomipramine 136t

Clonapam 143m

clonazepam 143m

clonidine ... 38b, 45b

clonidine—epidural
..... PDA

clopidogrel 48t

Clopixol D*Clopixol Accuphase*..D*Clopixol Depot* D

cloquinol D

clorazepate 143m

Clorpres 45t*Clotrimaderm*

Antimicrobials...13m

Dermatology ... 61t

OB/GYN 127m

clotrimazole

Antimicrobials...13m

Dermatology ... 63b

clotrimazole—

topical 61t

clotrimazole—

vaginal 127m

cloxacillin D

clozapine

Cardiovascular
..... 41t

Psychiatry... 141tb

Clozaril 141t

coal tar 64m

Coartem 15m

coartemether... 15m

cobalamin 80m

cocaine 41t

codeine 6m, 7t

..... 9tmb, 10m

coenzyme Q10...104m

Cogentin 119b*Cognex* PDA*Colace* 97m*Colazal* 98t*Colbenemid* 75t

colchicine 75t

colesevelam 42b

Colestid 42b*Colestid Flavored*..42b

colestipol 42b

colistimethate...PDA

colistin 87t

Coly-Mycin M

Parenteral.....PDA

Colyte 96m*Combantrin* 17b

combigan 134b

CombiPatch 123b*Combivent* 149t,

..... 152t

Combivir 19b*Combunox* 9t*Commiphora mukul*

extract 106b

Commit 145b*Compazine* 91b*Comtan* 120t*Comvax* 110t*Concerta* 147m*Condylax* 63t*Condylox* 63t

cone flower 105t

Congest 123t

conivaptan D

Conray 58t*Copaxone* 118b*Copegus* 25t*CoQ-10* 104m*Cordarone* 39b*Cordran* 65m*Cordran SP* D*Coreg* 49t*Coreg CR* 49t*Corgard* 49b*Coricidin HBP Con-**gestion & Cough*...D*Coricidin HBP Cough**& Cold* D*Corlopam* 47m*Cormax* 65b*Coronex* 53t*Correctol* 97t*Cortaid* 65t*Cortamed* D*Cortate* D*Cortef* 69t*Cortenema* 69t*Corticaine* 65t

corticosteroid 65t

corticotropin D

Cortifoam D

cortisone ... 68b, 69b

cortisporin 63m

cortisporin—

ophthalmic .. 132m

Cortisporin Otic...86b*Cortisporin TC Otic*..
..... 87t*Cortizone* D*Cortoderm* D*Cortone* 68b*Cortrosyn* 74b*Corvert* 41m*Corynanthe yohimbe*

..... 109b

Corzide 45t*Cosamin DS*... 106m*Cosmegen* 128b*Cosopt* 134b

cosyntropin 74b

Cotazym 99m

cotrimoxazole 33t

Coumadin 102t*Coumar-HS* 51b*Coversyl* 36m*Cozaar* 38t*Cranactin* 104b

cranberry 104b

Crataegus laevigata

..... 107t

creatine 104b

Creon 99m*Crestor* 44t*Crinone* 126m*Crixivan* 22t*CroFab* 112t*Crolom* 130bcromolyn—inhaled .
..... 150bcromolyn—nasal
..... 88b

cromolyn—ophthal-

mic 130b

Crotamiton 62t*Cryselle*

..... 123b, 124m

crystalline DMSO2 ...
..... 107b

Cubicin.....34t
Culturelle.....108t
Cuprimine.....D
Curosurf.....D
Cutar.....64m
Cutivate.....65m
Cutter.....D
 cyanide antidote kit
 153tm
 cyanocobalamin
 Endocrine &
 metabolic...80tb,
 81t
 OB/GNY.....128m
Cyanokit.....153b
Cyclen.....D
Cyclessa.....124b
 cyclobenzaprine...2t
Cyclocort.....65m
Cyclogyl.....134b
Cyclomen.....128m
 cyclopentolate
 134b
 cyclophosphamide...
 128b
 cycloserine.....PDA
Cycloset.....82m
 cyclosporine...113m
 cyclosporine—
 ophthalmic..135m
Cyklokapron.....D
Cymbalta.....138b
Cynara scolymus.....
 103b
Cynara-SL.....103b
 cyproheptadine
 84t
 cyproterone
 Dermatology...58b
 Oncology.....129t
Cystadane.....PDA
Cystografin.....57b
Cystospaz.....95t
Cytadren.....D
 cytarabine.....129t
Cytogam.....D
 cytomegalovirus
 immune globulin
 human.....D
Cytomel.....79b
Cytosar-U.....129t
Cytotec
 Gastroenterology...
 95m
 OB/GYN.....125b
Cytovene.....18m
Cytoxan.....128b

D

D2T5.....110m
d4T.....21t
 dacarbazine....128b
 daclizumab.....113b
Dacogen.....129t
 dactinomycin...128b
Dalacin.....127m
Dalacin C.....34t
Dalacin T.....58b
 dalfopristin.....34b
Dalmane.....143m
 dalteparin.....99b
 danazol.....128m
Danocrine.....128m
 danshen.....D
Dantrium.....2m
 dantrolene.....2m
 dapsone.....16m
Daptacel.....110t
 daptomycin.....34t
Daraprim.....17b
 darbepoetin.....102t
 darifenacin....154m
 darunavir.....21b
 darvocet.....9t
Darvon-N.....8b
Darvon Pulvules..8b
 dasatinib
 Cardiovascular....
 41t
 Oncology.....129m
 daunorubicin...128b
DaunoXome.....128b
Daypro.....5b
Daytrana.....147m
 d-biotin.....80m
DDAVP.....82b
ddl.....20b
Debacterol.....87b
Debrox.....86b
Decadron.....68b
Deca-Durabolin..67t
 decitabine.....129t
Declomycin.....33m
Deconamine.....85m
Deconamine SR
 85m
Deconsal II.....85m
 DEET.....D
 defective cell wall
 bacteria.....23b
 deferasirox....102b
 deferoxamine..153tm
 degarelix.....D

dehydroepiandrosterone.....104b
Delatestryl.....67m
 delavirdine.....PDA
Delestrogen.....123t
Delsym.....84b
Deltasone.....69b
Demadex.....52m
 demeclocycline...33m
Demerol.....7m
Demser.....D
Demulen.....D
Demulen 1/35..124t
Demulen 1/50..124t
Denavir.....63t
 denileukin.....129m
Denticare.....87b
Depacon.....116b
Depade.....145m
Depakene.....116b
Depakote
 Neurology.....116b
 Psychiatry.....139b
Depakote ER
 Neurology.....116b
 Psychiatry.....139b
Depen.....D
Depo-Cyt.....129t
DepoDur.....7b
Depo-Estradiol.....
 122m
Depo-Medrol.....69t
Depo-Provera..126t
depo-subQ
 provera 104...126t
Depot.....129m
Depo-Testosterone...
 67m
Deproic
 Neurology.....116b
 Psychiatry.....139b
Dermalac.....64b
Derma-Smoother/FS..D
Dermasone.....D
Dermatop.....D
Dermazin.....60b
Dermolate.....D
DermOtic.....87t
Desferal.....153m
 desflurane.....PDA
 desipramine...136m
 desloratadine...83b
 desmopressin....82b
Desogen.....124m
 desogestrel.....D
Desonate.....D
 desonide.....65t

163

Index

t = top of page
 m = middle of page
 b = bottom of page
 D,PDA = see page 157

DesOwen.....65t
Desoxi.....D
 desoximetasone..65t
Desoxy.....PDA
Desquam.....58m
 desvenlafaxine..138m
Detrol.....155t
Detrol LA.....155t
 devil's claw.....105t
Dex-4.....74t
Dexalone.....84b
 dexamethasone
 Endocrine &
 metabolic...68b,
 69b
 ENT.....86b
 dexamethasone—
 ophthalmic.....
 132mb
Dexasone.....68b
 dexchlorophe-
 niramine.....84t
Dexedrine.....147t
DexFerrum.....76b
Dexiron.....76b
 dexlansoprazole 93b
 dexmedetomidine.11b
 dexmethylphenidate .
 147t
Dexpak.....68b
 dexrazoxane....129m
 dextran.....56t
 dextroamphetamine
 146m, 147t
 dextromethorphan.84b
 dextrose.....74t
Dextrostat.....147t
D.H.E. 45.....118t
DHEA.....104b
DiaBeta.....73b
Diabinese.....D
Diamicron.....73b
Diamicron MR...73b
Diamorphine....PDA
Diamox.....52t
Diamox Sequels..52t
Diane-35.....58b
Diarr-eze.....89b
Diastat.....143b

t = top of page

m = middle of page

b = bottom of page

D,PDA = see page 157

- Diastat AcuDial*.....143b
Diastix.....74m
 diatrizoate.....57b
Diatx.....80m
Diazemuls.....143b
 diazepam.....143b
 diazoxide.....D
Dibenzyline.....D
 dibucaine.....63b
Dicel.....D
Dicetel.....99b
 dichloralphenazone.....118m
 diclectin.....91t
 diclofenac.....4m
 diclofenac—
 ophthalmic.....135t
 diclofenac—topical.....59b
 dicloxacillin.....30b
 dicyclomine.....94b
 didanosine.....20b
Didrex.....D
Didronel.....68t
 diethylpropion.....D
 difenoxin.....89b
Differin.....58t
 diflorasone.....D
 diflorasone
 diacetate.....65b
Diffucan.....13m
 diflunisal.....4t
 difluprednate.....133t
Digibind.....40t
Digifab.....40t
 dig immune Fab.....153t
Digitek.....40t
 digoxin.....40t
 digoxin immune fab.....40t
 dihydrocodeine.....10m
 dihydroergotamine.....118t
 diiodohydroxyquin.....PDA
Dilacor XR.....51m
Dilantin.....116t
Dilatrate-SR.....53t
Dilaudid.....6b
Dilaudid-5.....6b
Diltia XT.....51m
 diltiazem.....51m
Diltiazem CD.....51m
Diltzac.....51m
 dimenhydrinate.....91t
 dimercaprol (BAL).....153t
Dimetane-DX.....85m
Dimetane-DX Cough Syrup.....D
Dimetapp Cold & Allergy.....D
Dimetapp Cold & Allergy Elixir.....85t
Dimetapp Cold & Cough.....D
Dimetapp Decongestant Infant Drops.....86m
Dimetapp DM Cold & Cough.....85t
Dimetapp Nighttime Cold & Congestion.....D
 dimethyl sulfone.....107b
 dimethyl sulfoxide.....D
 dinoprostone.....125b
Diocarpine.....134t
Diodoquin.....PDA
Diogen.....130b
Diopred.....133m
Dioscorea villosa.....109b
Diovan.....38m
Diovan HCT.....45t
Dipentum.....98t
Diphen.....84m
Diphenhist.....84m
 diphenhydramine.....84m, 87b
 diphenoxylate.....89b
 diphenhydramine.....D
 diphtheria tetanus and acellular pertussis vaccine.....110t, 111tm
 diphtheria-tetanus toxoid.....110m
 dipivefrin.....D
Diprivan.....12m
Diprolene.....65b
Diprolene AF.....65b
Diprosone.....D
 dipyridamole.....48t
Disalcid.....4m
Diskets.....7b
 disopyramide.....40m, 41t
DisperMox.....30b
 disulfiram.....145m
Dithranol.....62b
Ditropan.....154b
Ditropan XL.....154b
Diuril.....D
 divalproex
 Neurology.....116b
 Psychiatry.....139b
Divigel.....122m
Dixarit.....38b
DLV.....PDA
DMSO.....D
 dobutamine.....53b
Dobutrex.....53b
 docetaxel.....129m
 docosanol.....62b
 docusate.....97m
 dofetilide.....41t
 dolasetron
 Cardiovascular.....41t
 Gastroenterology.....90t
Dolobid.....4t
Dolophine.....7b
Doloral.....7b
Doloteffin.....105t
Domeboro Otic.....87t
 domperidone.....91t
Dona.....106m
 donepezil.....114t
 dong quai.....105t
Donnatal.....95t
 dopamine.....54t
Dopram.....D
Doribax.....25m
 doripenem.....25m
 dornase alfa.....152m
Doryx.....33m
 dorzolamide.....134tb
Dostinex.....82m
Dovonex.....62b
 doxapram.....D
 doxazosin.....38b
 doxepin.....136m
 doxepin—topical.....64m
 doxercalciferol.....80b
Doxil.....128b
 doxorubicin
 liposomal.....128b
 doxorubicin non-liposomal.....128b
Doxycyn.....33m
 doxycycline.....33m
 doxylamine
 Analgesics.....9b
 Gastroenterology.....91t
Dramamine.....91t
Drisdol.....82t
Dristan 12 Hr Nasal.....89t
Drithocrema.....62b
Drixoral Cold & Allergy.....85t
 dronabinol.....91m
 dronedarone.....40m
 droperidol
 Cardiovascular.....41t
 Gastroenterology.....91m
 drospirenone.....123b
 drotrecogin.....34t
Droxia
 Herbal & alternative therapy.....103t
 Oncology.....129t
DRV.....21b
Dry Eyes.....135b
Drysol.....64t
DT.....110m
DTaP.....110t
DTIC-Dome.....128b
Duac.....58b
Duetact.....70b
Duocolax.....97t
 duloxetine.....138b
Duocaine.....12m
Duodote.....D
Duolube.....135b
DuoNeb.....149m
Duovent UDV.....D
Duraclon.....PDA
Duradrin.....118m
Duragesic.....6b
Duratuss.....85m
Duratuss GP.....D
Duratuss HD.....D
Duratuss HD (c)III.....85m
Durezol.....133t
Duricef.....25b
 dutasteride.....154m
Dutoprol.....45t
Duvoid.....155b

Dyazide.....45t
 Dynacin.....33b
 DynaCirc.....50b
 DynaCirc CR.....50b
 Dynapen.....30b
 Dyrenium.....D
 Dytan.....84m

E

E angustifolia...105t
Ebixa.....114m
 Echinacea.....105t
Echinacin madaus ..
105t
EchinaGuard ...105t
 echothiophate
 iodide.....D
EC-Naprosyn.....5b
 econazole.....61t
Econopred Plus.....
133m
Ecotrin.....4t
Ecstasy.....PDA
 eculizumab.....PDA
Edocrin.....52m
 edetate.....D
Edex.....155b
Eduar.....144b
 edrophonium ..119m
ED Spaz.....95t
EDTA.....153t
EES.....29b
 efavirenz ..19b, 20t
Effer-K.....77b
Effexor.....138b
Effexor XR.....138b
Effient.....48m
Efidac/24.....86m
 eflornithine.....64m
Efudex.....59b
EFV.....20t
Egb 761.....105b
Elaprase.....PDA
Elavil.....136t
Eldepryl.....121t
 elderberry.....105t
Eldopaque.....64b
Eldoquin.....64b
Eldoquin Forte...64b
Electropeg.....96m
Elestat.....130t
Elestrin.....122m
 eletriptan.....117m
Eleutherococcus
senticosus.....106t
Elidel.....63m

Eligard.....129m
Elimite.....62t
Elitek.....D
Elixophyllin.....152b
Ellence.....129t
Elmiron.....D
Elocom.....D
 Elocon.....65m
Eloxatin.....129m
Elspar.....129b
 eltrombopag.....PDA
Eltroxin.....79b
Emadine.....130m
Emcyt.....129t
 emedastine ...130m
Emend.....90b
Emetrol.....91m
EMLA.....64b
Emo-Cort.....D
Empirin.....4t
 Empirin with
 Codeine.....9t
Emsam.....136b
Emtec.....10m
 emtricitabine...19b,
20b
Emtriva.....20b
E-mycin.....29b
Enablex.....154m
 enalapril...35b, 36t,
45b, 47m
 enalaprilat.....36t
Enbrel.....1t
Enca.....33b
Endantadine.....22b
Endocet.....10t
Endocodone.....8m
Endodan.....10t
Endometrin.....
126m
Endrate.....D
Enduron.....D
Enemeez.....97m
Enemol.....96b
Enfamil.....78m
 enflurane.....PDA
 enfuvirtide.....19b
Engerix-B.....110b
Enjuvia.....123m
Enlon.....119m
 enoxaparin.....100m
Enpresse.....124b
 entacapone.....
120mb
 entacapone ...120m
 entecavir.....24t
Entereg.....98m

Entex LA.....D
Entex Liquid.....D
Entex PSE.....85m
Entocort EC.....98b
Entonox.....PDA
Entozyme.....99m
Entrophen.....4t
Entsol.....89t
Enulose.....96t
E pallida.....105t
E Pam.....143b
Epaxal.....110m
 ephedrine.....54t
Epiduo.....58b
Epifoam.....D
Epiject.....139b
 epinastine.....130t
 epinephrine.....54m
 epinephrine racemic
152m
EpiPen.....54m
EpiPen Jr.....54m
EpiQuin Micro...64b
 epirubicin
 Cardiovascular.....
41t
 Oncology.....129t
Epitol.....114b
Epival
 Neurology.....116b
 Psychiatry.....139b
Epivir.....21t
Epivir-HBV.....21t
 eplerenone.....36b
 epoetin alfa...102m
 epoetin beta.....D
Epogen.....102m
 epoprostenol.....D
Eprex.....102m
 eprosartan.....37m,
41t
 eptifibatide.....48t
E purpurea.....105t
Epzicom.....19b
Equalactin.....95b
Equetro.....114b
Eraxis.....14m
Erbix.....129m
 ergocalciferol ...82t
Ergomar.....PDA
 ergotamine.....118t
 erlotinib.....129m
Errin.....124m, 126m
Ertaczo.....61b
 ertapenem.....25m
Erybid.....29b
Eryc.....29b

165

Index

t = top of page
 m = middle of page
 b = bottom of page
 D,PDA = see page 157

Erycette.....59t
Eryderm.....59t
Erygel.....59t
Eryped.....29b
Erysol.....59t
Ery-Tab.....29b
Erythrocin IV.....29b
Erythromid.....29b
 erythromycin...41m
 erythromycin base
 Antimicrobials.....
29b
 Dermatology ..58m
 erythromycin
 estolate.....D
 erythromycin ethyl
 succinate.....29b
 erythromycin
 lactobionate ...29b
 erythromycin—
 ophthalmic ...131b
 erythromycin—
 topical.....59t
 erythropoietin alfa
102m
 erythropoietin beta...D
 escitalopram ...137t
Esclim.....122b
Esgic.....3t
Esidrix.....52b
Eskalith.....139b
Eskalith CR.....139b
 esmolol.....49m
 esomeprazole ...93b
Esoterica.....64b
 estazolam.....144t
 esterified estrogens.
122t, 125tm
Estrace..122t, 123m
Estraderm.....122b
 estradiol.....122t,
123m, 125t
 estradiol acetate.....
122t
 estradiol acetate
 vaginal ring...122t
 estradiol cypionate ...
122m
 estradiol gel...122m

t = top of page
 m = middle of page
 b = bottom of page
 D, PDA = see page 157

- estradiol topical emulsion..... 122m
 estradiol transdermal patch..... 122b
 estradiol transdermal spray..... 122b
 estradiol vaginal ring..... 122b
 estradiol vaginal tab..... 122b
 estradiol valerate..... 123t
Estradot..... 122b
 estamustine..... 129t
Estrasorb..... 122m
Estratest..... 125t
Estratest H.S...... 125t
Estring..... 122b
 estriol..... PDA
Estrogel..... 122m
 estrogens conjugated..... 123t, 125t
 estrogens synthetic conjugated A..... 123m
 estrogens synthetic conjugated B..... 123m
 estrogen vaginal cream..... 123t
 estrone..... PDA
 estropipate..... 123m
Eurostep Fe..... 124b
 eszopiclone..... 144b
 etanercept..... 1t
 ethacrynic acid 52m
 ethambutol..... 16m
 ethanol..... D
 ethinyl estradiol Dermatology... 58b
 OB/GYN..... 125t
 ethinyl estradiol transdermal... 122t
 ethinyl estradiol vaginal ring... 121b
 ethionamide..... PDA
 ethosuximide..... 115t
 ethotoin..... PDA
Ethrane..... PDA
 ethynodiol..... D
 Ethyl..... 129t
- Etibi*..... 16m
 etidronate..... 68t
 etodolac..... 4b
 etomidate..... 12t
 etonogestrel... 121b
Etopophos..... 129m
 etoposide..... 129m
ETR..... 20t
 etravirine..... 20t
Euflex..... 129t
Euglucon..... 73b
Eulexin..... 129t
Eurax..... 62t
Euthyrox..... 79b
Evamist..... 122b
 evening primrose oil..... 105m
 everolimus..... D
Evista..... 126b
Evithrom..... D
Evoclin..... 58b
Evoxac..... 87m
Evra..... 122t
Excedrin Migraine 3t
Exelon..... 114m
Exelon Patch... 114m
 exemestane..... 129t
 exenatide..... 74t
Exforge..... 45t
Exforge HCT..... D
Exjade..... 102b
Ex-Lax..... 97t
Exsel..... 66b
Extina..... 61t
EZ-Char..... 153t
 ezetimibe..... 44mb
Ezetrol..... 44b
- ## F
- Fabrazyme*..... PDA
Factive..... 32b
 factor IX..... D
 factor VIIa..... D
 factor VIII..... D
 famciclovir..... 18b
 famotidine..... 93t
Famvir..... 18b
Fanapt..... 141m
Fansidar..... D
Fareston..... 129m
Faslodex..... 129t
Fasturtec..... D
 fat emulsion..... 78m
FazaClo ODT..... 141t
Febuxostat..... 75t
Feen-a-Mint..... 97t
- Feiba VH*..... D
Feiba VH Immuno.. D
 felbamate Cardiovascular.... 41t
 Neurology..... 115t
Felbatol..... 115t
Feldene..... 50t
 felodipine.. 45b, 6b
Femaprin..... 104m
Femara..... 129m
Femcon Fe..... 124t
FemHRT..... 125t
Femizol-M..... 127b
FemPatch..... 122b
Femring..... 122t
Femtrace..... 122t
 fenofibrate..... 44b
 fenofibric acid... 44b
 fenoldopam..... 47m
 fenopropfen..... PDA
 fenoterol..... 148m
 fentanyl..... 6b, 7t
Fentora..... 6b
 fenugreek..... 105m
Feosol..... 76t
Feraheme..... 76m
Fergon..... 76t
Feridex..... 57m
Fer-in-Sol..... 76t
Ferodan..... 76t
 ferric gluconate complex..... 76t
Ferrlecit..... 76t
 ferrous fumarate... D
 ferrous gluconate... 76t
 ferrous sulfate... 76t
Fertinex..... D
 ferumoxides..... 57m
 ferumoxsil..... 57m
 ferumoxytol..... 76m
 fesoterodine..... 154b
 feverfew..... 105m
Fexicam..... 6t
Fexmid..... 2t
 fexofenadine..... 83b
FFP..... 153t
Fiberall..... 95b
FiberCon..... 95b
 fiber—dietary... PDA
Fibrates..... 43b
 fibrinogen concentrate..... PDA
Fidelin..... 104b
Filgrastim..... 102m
Finacea..... 58m
 finasteride..... 154m
- Finevin*..... 58m
Fioricet..... 3t
Fioricet with Codeine..... 9m
Fiorinal..... 3t
Fiorinal C-1/2..... 9m
Fiorinal C-1/4..... 9m
Fiorinal with Codeine..... 9m
 fish oil..... 78m
FK 506..... 113b
Flagyl..... 34m
Flagyl ER..... 34m
Flamazine..... 60b
Flarex..... 133t
 flavocoxid..... 105m
 flavoxate..... D
Flebogamma.. 112m
 flecainide... 40b, 41t
Flector..... 4m
Fleet..... 96t, 97t
Fleet Enema..... 96b
Fleet EZ-Prep..... 96b
Fleet Mineral Oil Enema..... 97b
Fleet Pain Relief 63b
Fleet Phospho-Soda..... 96b
Fletcher's Castoria 97t
Flexeril..... 2t
Flextend..... 106m
Flixonase..... D
Flixotide..... D
Flolan..... D
Flomax..... 154m
Flonase..... 88m
Flo-Pred..... 69m
Florastor..... 108t
Florazole ER..... 34m
Florinef..... 69t
Flovent Diskus.. 149b
Flovent HFA... 149b, 152t
Floxin..... 32t
Floxin Otic..... 87t
 floxuridine..... 129t
Fluanxol..... D
Fluanxol Depot..... D
Fluarix..... 110b
 fluconazole..... 13m
 flucytosine..... 14b
Fludara..... 129t
 fludarabine..... 129t
 fludrocortisone 69tb
FluLaval..... 110b
Flumadine..... 23m
 flumazenil..... 153tb

flumethasone D
FluMist 110b
 flunarizine 118m
 flunisolide 88t
 flunisolide HFA MDI
 151m
 flunisolide—inhaled
 149b
 flunisolide MDI 151m
 fluocinolone 65m,
 66b
 fluocinolone—otic 87t
 fluocinonide 65b
Fluor-A-Day 76m
 fluorescein PDA
 fluoride 76m
Fluor-I-Strip PDA
Fluor-I-Strip AT PDA
 fluorometholone
 133t
Fluoroplex 59b
 fluorouracil 129t
 fluorouracil—
 topical 59b
Fluothane PDA
Fluotic 76m
 fluoxetine 137m, 145t
 fluoxymesterone D
 flupenthixol D
 flupentixol D
 fluphenazine 140t,
 141m
 flurandrenolide
 65m
 flurazepam 143b
 flurbiprofen 42b
 flutamide 129t
 fluticasone DPI 151b
 fluticasone HFA MDI
 151b
 fluticasone—
 inhaled 149tb
 fluticasone—nasal .
 88t
 fluticasone propio-
 nate 65m
 fluticasone-topical
 D
 fluvastatin 43m
Fluviral 110b
 Fluvirin 110b
 fluvoxamine 137b
Fluzone 110b
 FML 133t
FML Forte 133t
FML-S LIQUIFILM
 132m

Focalin 147t
Focalin XR 147t
 folate 80b
Folgard 80b
 folic acid
 Endocrine &
 metabolics
 80mb, 81t
 OB/GYN 128m
 folic acid 129b
Follistim-Antagon
Kit D
Follistim AQ D
 follitropin alfa D
 follitropin beta D
Foltz 80b
Folvite 80b
 fomepizole 153t
 fondaparinux 101t
 food PDA
Foradil 148b, 152t
Forane PDA
 formoterol 148b,
 149m
Formulex 94b
Fortamet 74m
Fortaz 27t
Forte DSC 2t
Forteo 83m
Fortical 82b
Fosamax 67b
Fosamax Plus D 67b
 fosamprenavir 21b
 fosaprepitant 90b
Fosavance 67b
 foscarnet
 Analgesics 18m
 Cardiovascular
 41t
Foscavir 18m
 fosfomycin 34t
 fosinopril 35b,
 36t, 47t
 fosphenytoin
 Cardiovascular
 41t
 Neurology 115t
 fospropofol 12t
Fosrenol 78b
 FPV 21b
Fragmin 99b
FreeStyle Flash
 74t
FreeStyle Freedom
 74t
FreeStyle Freedom
Lite 74t
FreeStyle Lite 74t

Freezer Pops 79m
 French maritime pine
 tree bark 108m
Frisium 114b
Froben 4b
Froben SR 4b
Frova 117b
 frovatriptan 117b
 FSH D
 FTC 20b
Fucidin 60t
Fucidin H 63b
Fucithalmic D
FUDR 129t
Ful-Glo PDA
 fulvestrant 129t
Fulvicin 14b
Fungizone 14b
Furadantin 34m
 furosemide 52m
 fusidic acid 63b
 fusidic acid—
 topical 60t
Fusilev 129b
Fuzeon 19b

G

G115 106t
 gabapentin 115t
Gabitril 116b
 gadobenate 57t
 gadodiamide 57t
 gadopentetate 57t
 gadoteridol 57t
 gadoversetamide
 57t
 galantamine 114t
 gallium D
 galsulfase PDA
Galzin 78t
Gamastan 112m
Gammagard 112m
 gamma hydroxybu-
 tyrate 121m
Gamunex 112m
 ganciclovir 18m
 ganirelix D
Ganite D
Gani-Iuss NR D
Gantrisin Pediatric D
Garamycin
 Antimicrobials 13t
 Dermatology 60t
 Ophthalmology
 130b
 garcinia 105b

167
Index
 t = top of page
 m = middle of page
 b = bottom of page
 D,PDA = see page 157

Garcinia cambogia ..
 105b
Gardasil 110b
 garlic supplements .
 105b
Gastrocrom 150b
Gastrografin 57b
GastroMARK 57m
Gas-X 95b
 gatifloxacin—
 ophthalmic 131t
Gaviscon 92m
G-CSF 102m
 gefitinib 129b
Gelclair 87b
Gelnique 154b
 gemcitabine 129t
 gemfibrozil 45t
 gemifloxacin
 Antimicrobials
 32b
 Cardiovascular
 41t
 gemtuzumab 129m
Gemzar 129t
Gengraf 113m
Genisoy 109m
Gen-K 77b
Genoptic 130b
Genotropin 83t
Gentak 130b
 gentamicin
 Antimicrobials .. 13t
 Ophthalmology
 132b
 gentamicin—
 ophthalmic 130b
 gentamicin—
 topical 60t
GenTeal 135m
Gentran 56t
Geodon 143t
GHB 121m
 GI cocktail 95t
 ginger 105b
 ginkgo biloba .. 105b
Ginkgold 105b
Ginkoba 105b

t = top of page
 m = middle of page
 b = bottom of page
 D,PDA = see page 157

- Ginsana*..... 106t
 ginseng—American 106t
 ginseng—Asian..... 106t
 ginseng—Siberian 106t
 Glasgow Coma Scale 119t
 glatiramer..... 118b
 Gleevec..... 129m
 Gliadel..... 128b
 gliclazide..... 73b
 glimepiride..... 70m
 GLIMEPIRIDE 73b
 glipizide 70b, 73b
Glucagen..... 74t
 glucagon
 Endocrine & metabolic..... 74t
 Toxicology 153t
Glucobay..... 70t
Glucosnorm..... 73m
Glucophage..... 74m
Glucophage XR. 74m
 glucosamine... 106m
 glucose home testing 74t
Glucotrol..... 73b
Glucotrol XL..... 73b
Glucovance..... 70b
Glumetza..... 74m
 Glutose..... 74t
 glyburide ... 70b, 73b
 glycerin 96t
GlycoLax..... 96m
 glycopyrrolate..... 98b
Glycyrrhiza glabra ... 107m
Glycyrrhiza uralensis 107m
Glynase PresTab... 73b
Glyquin..... 64b
Glysenid 97t
Glyset..... 70t
GM-CSF..... 102b
Goldenseal 106m
 gold sodium thiomalate..... D
GoLytely..... 96m
 gonadotropins D
Gonal-F D
Gonal-F RFF Pen... D
Goody's Extra Strength Headache Powder 3m
 goserelin 129t
 gramicidin..... 131b
 Gram negative aerobic bacilli... 23b
 Gram negative aerobic coccobacilli..... 23b
 Gram negative aerobic diplococci..... 23b
 Gram neg facultatively anaerobic bacilli 23b
 Gram positive aerobic/facultatively anaerobic bacilli... 23b
 Gram positive aerobic cocci .. 23b
 granisetron Cardiovascular 41t
 Gastroenterology... 90m
 grapefruit juice ... PDA
 grape seed extract 106b
Gravol..... 91t
 green goddess..... 95t
 green tea..... 106b
Grifulvin V..... 14b
 griseofulvin 14b
 griseofulvin ultramicrosized D
Gris-PEG..... D
 guaiacolsulfonate.. D
 guaifenesin 86t
Guaifenex DM..... D
Guaifenex PSE..... D
Guaifenex PSE 120 .. 85m
Guaitec II SR/PSE .. D
 guanabenz D
 guanfacine..... 39t
 guarana 106b
 guggul..... 106b
 guggulipid..... 106b
Guiatuss..... 86t
Guiatuss AC D
Guiatuss DAC..... D
Guiatuss PE..... 85m
Gynazole..... 127m
Gyne-Lotrimin ... 127m
Gynodiol 122t

H

- Habitrol* 146t
 Haemophilus B vaccine 110m
 halcinonide 65b
Halcion..... 144m
Haldol..... 140m
HalLytely and Bisacodyl Tablet Kit..... 96m
Halfprin..... 4t
 halobetasol propionate 65b
 halofantrine PDA
Halog..... 65b
 haloperidol Cardiovascular 41t
 Psychiatry... 140m, 141m
Halotestin..... D
 halothane..... PDA
Halotussin AC..... D
Halotussin DAC..... D
Harpadol..... 105t
Harpagophytum procumbens... 105t
Havrix..... 110m
 hawthorn..... 107t
H-BIG..... 112t
HCE50..... 107t
 hCG..... D
HCTZ..... 45mb, 47tm, 52b
Healthy Woman 109m
HeartCare..... 107t
Hectorol..... 80b
 helicobacter pylori therapy 94t
 helidac 93m
Helixate..... D
Hemabate..... 126b
Hemofil M..... D
 hemophilus B vaccine 110t, 111m
HepaGam B..... 112t
Hepalean..... 101t
 heparin 101t
 hepatitis A vaccine.. 110m, 111b
 hepatitis B immune globulin 112t
 hepatitis B vaccine 110tb, 111tb
Hespera..... 24t
Heptovir..... 21t
Herceptin..... 129m
 heroin PDA
Hespan..... 56t
Hetastarch 56t
Hexabrix 58t
Hexalen 128b
Hexit..... 62t
Hextend..... 56t
HibTITER..... 110m
Hicon..... 80t
Hiprex..... PDA
Histinex HC..... D
 histrelin..... 129t
Histussin D..... D
Histussin D (c)III 85m
Histussin HC..... D
Histussin HC (c)III ... 85m
 homatropine... 134b
 honey..... 107t
 horse chestnut seed extract 107t
H.P. Acthar Gel..... D
 huang qi..... 103b
 huckleberry..... 103b
Humalog..... 72b
Humalog Mix 50/50 .. 71b, 72b
Humalog Mix 75/25 71b
HumaLog Mix 75/25 72b
 human growth hormone 83t
 human papilloma-virus recombinant vaccine 110b
Humate P D
Humatrope 83t
Humibid DM 85m
 Humibid LA..... D
 Humira 1t
Humulin 50/50 71b, 72b
Humulin 70/30..... 71b, 72b
Humulin N..... 72m
Humulin R..... 72b
Hyalgan..... D
 hyaluronate..... D

hyaluronic acid.. 64b
 hyaluronidase... PDA
Hycantin..... 129b
Hycoclear Tuss..... D
Hycodan..... D
Hycort..... D
Hycotuss..... D
Hycotuss (c)III .. 85m
Hyderm..... D
 hyalalazine..... 45m,
 47b, 56m
HydraSense..... 89t
Hydrastis canadensis
 106m
Hydrea
 Hernal & alterna-
 tive therapies.....
 103t
 Oncology..... 129t
 hydrochlorothiazide ..
 52b
Hydrocil..... 95b
 hydrocodone .. 7t, 8b
 9bm, 10tb, 11t
 hydrocortisone
 Dermatology ..
 ... 63m, 65t, 66m
 Endocrine &
 metabolic..... 69tb
 ENT..... 86b, 87t
 hydrocortisone
 acetate..... 65t
 hydrocortisone
 butyrate..... 65m
 hydrocortisone—
 ophthalmic .. 132m
 hydrocortisone—
 topical..... D
 hydrocortisone—
 valerate..... D
 hydrocortisone
 probutate..... D
 hydrocortisone
 valerate..... 65m
HydroDiuril..... 52b
Hydromorph Contin.
 6b
 hydromorphone.....
 6b, 7t
 hydroquinone... 64b,
 66b
Hydroval..... D
 hydroxocobalamin ...
 153tb
 hydroxychloroquine..
 1b

hydroxyprogesterone
 caproate..... 126t
 hydroxypropyl
 cellulose..... 135m
 hydroxyurea
 Herbal & alterna-
 tive therapies.....
 103t
 Oncology..... 129t
 hydroxyzine..... 84b
hylan GF-20..... D
 hymenoptera venom
 113b
 hyoscine..... 95t
 hyoscyamine
 Gastroenterology...
 95t
 Urology..... 154b,
 155m
Hyosol..... 95t
Hyospaz..... 95t
Hypaque..... 57b
HyperHep B..... 112t
Hypericum
 perforatum ... 109t
HyperRAB S/D... 113t
HyperRHO S/D 128m
Hyperstat..... D
Hypertef..... 113t
Hypocol..... 108b
Hypotears..... 135m
Hytone..... 65t
Hytin..... 39m
Hytuss..... 86t
Hyzaar..... 45t

I

I-160..... 109t
 ibandronate..... 68t
 ibritumomab .. 129m
 ibudone..... 9m
 ibuprofen..... 4b,
 9tm, 10b
 ibutilide..... 41tm
Idamycin..... 129t
 idarubicin..... 129t
 idursulfase..... PDA
IDV..... 22t
Ifex..... 128b
 ifosfamide..... 128b
 iloperidone 141m
 iloprost..... D
Ilotycin..... 131b
 imatinib..... 129m
Imdur..... 53t
 imiglucerase..... PDA

imipenem-cilastatin
 25b
 imipramine..... 136m
 imiquimod..... 62b
Imitrex..... 117b
Immucyst
 Immunology... 110t
 Oncology..... 129m
 immune globulin—
 IM..... 112m
 immune globulin—
 IV..... 112m
 immune globulin—
 SC..... 112m
Immunine VH..... D
Immunoprin..... 1b
Imodium..... 89b
Imodium AD..... 89b
Imodium Advanced..
 89b
Imogam Rabies-HT..
 113t
Imovane..... 145t
Imovax Rabies 111m
Implanon..... 121b
Imuran..... 1b
 inamrinone..... 54m
Inapsine..... 91m
Increlex..... D
 indapamide 41t, 52b
Inderal..... 50m
Inderal LA..... 50m
Inderide..... 45t
Indigo Carmine.. PDA
 indigotindisulfonate
 PDA
 indinavir..... 22t
Indium DTPA..... PDA
Indocid-P.D.A..... 5t
Indocin..... 5t
Indocin IV..... 5t
Indocin SR..... 5t
 indomethacin..... 5t
Infalyte..... 79t
Infanrix..... 110t
Infasurf..... D
InFed..... 76b
Infergen..... 24m
Inflamase Forte.....
 133m
 infliximab..... 1m
 influenza vaccine—
 inactivated
 injection..... 110b
 influenza vaccine—
 live intranasal. 110b
Infufer..... 76b

169
Index
 t = top of page
 m = middle of page
 b = bottom of page
 D,PDA = see page 157

INH..... 16m
Inhibace..... 36t
Inhibace Plus..... 45t
Innohep..... 101m
InnoPran XL..... 50m
INOMax..... D
Inspira..... 36b
Insta-Glucose..... 74t
 insulin—injectable
 combinations.. 71b
 insulin—injectable
 intermediate/long-
 acting..... 72m
 insulin—injectable
 short/rapid-acting
 72b
 insulins..... 72m
 insulin aspart... 72b
 insulin aspart prot-
 amine susp/aspart .
 72b
 insulin detemir.. 72b
 insulin glargine .. 72b
 insulin glulisine .. 72b
 insulin lispro .. 72mb
 insulin lispro
 protamine susp ...
 72b
Intal..... 150b, 152t
Integrilin..... 48t
Intence..... 20t
 interferon alfa-2a
 Antimicrobials.....
 24m
 Oncology..... 129m
 interferon
 alfacon-1..... 24m
 interferon alfa-n3 .. D
 interferon beta-1A...
 118b
 interferon beta-1B...
 119m
 interleukin-2 .. 129m
IntestiFlora..... 108t
Intralipid..... 78m
Intron A..... 24m
Intropin..... 54t
Invanz..... 25m

t = top of page
 m = middle of page
 b = bottom of page
 D,PDA = see page 157

Invega..... 142m
Inversine..... D
Invirase..... 22b
 iodixanol..... 57b
 iodoquinol..... PDA
lodotape..... 80t
 iohexol..... 57b
lonamin..... 147b
IONSYS..... 6b
 iopamidol..... 57b
lopidine..... D
 iopromide..... 57b
losaf..... D
 iothalamate..... 58t
 ioversol..... 58t
 ioxaglate..... 58t
 ioxilan..... 58t
 ipecac syrup..... 153b
IPOL..... 111t
 ipratropium..... 149t
 ipratropium—
 inhaled..... 152m
 ipratropium—nasal
 88b
Iquix..... 131t
 irbesartan..... 38t, 45m
Iressa..... 129b
 irinotecan..... 129b
 iron dextran..... 76b
 iron polysaccharide.
 76b
 iron sucrose..... 77t
ISENTRESS..... 20t
ISMO..... 53t
 isocarboxazid .. 136b
 isoflurane..... PDA
 isometheptene..... 118m
Isomil..... 78m
 isoniazid.. 16mb, 17t
 isoniazid..... 16m
 isopropyl alcohol.. 87m
 isoproterenol ... 41m
Isoptin SR..... 51b
Isopto Atropine.. 134b
Isopto Carbachol... D
Isopto Carpine.. 134t
Isopto Homatropine.
 134b

Isordil..... 53t
 isosorbide dinitrate.
 53t, 56m
 isosorbide mononi-
 trate..... 53t
 isosulfan blue ... PDA
Isotamine..... 16m
 isotretinoin..... 59t
Isovue..... 57b
 isoxsuprine..... D
 isradipine... 41t, 50b
Istalol..... 133b
Isuprel..... 41m
 itraconazole..... 13b
Iveegam..... 112m
 ivermectin..... 17m
 ixabepilone..... 129m
Ixempra..... 129m

J

Jantoven..... 102t
 janumet..... 70b
Januvia..... 74b
 Japanese encephali-
 tis vaccine..... 110b
JE-Vax..... 110b
Jinfukang..... 103b
Jolessa..... 124b
Jolivette.. 124m, 126m
Junel 1.5/30... 124m
Junel 1.5/30 Fe.....
 124m
Junel 1/20..... 124m
Junel Fe 1/20.. 124m

K

K+8..... 77b
 K+10..... 77b
 K+Care..... 77m
 K+Care ET..... 77b
Kabikinase..... 55b
Kadian..... 7b
Kaletra..... 22t
 kanamycin..... PDA
Kantrex..... PDA
Kaochlor..... 77b
Kaochlor 10%.... 77b
Kaochlor S-F.... 77m
Kao Electrolyte... 79m
 Kaon..... 77b
 Kaon Cl..... 77b
 Kaon-Cl 10..... 77b
 Kaon-Cl 20..... 77b
Kaopectate..... 89m

*Kaopectate Stool
 Softener*..... 97m
Kapidex..... 93b
 karela..... 104t
Kariva..... 124m
Kay Ciel..... 77b
Kayexalate..... 83t
Kaylixir..... 77b
K-Dur..... 77b
K-Dur 10..... 77b
K-Dur 20..... 77b
Keflex..... 25b
Kelnor 1/35..... 124t
Kemstro..... 2t
Kenalog
 Dermatology .. 65m
 Endocrine &
 meabolic..... 69b
Kenalog in Orabase.. D
Kepivance..... 129t
Keppra..... 115b
Keppra XR..... 115b
Kerlone..... 49t
Ketalar..... 12t
 ketamine..... 12t
Ketek..... 34b
 ketoconazole..... 13b
 ketoconazole—
 topical..... 61t
Ketoderm..... 61t
 ketoprofen..... 5t
 ketorolac..... 5t
 ketorolac—ophthal-
 mic..... 135m
 ketotifen..... 152m
 ketotifen—ophthal-
 mic..... 130m
K-G Elixir..... 77b
Kidrolase..... 129b
Kineret..... 1t
Kinlytic..... 56t
Kira..... 109t
Klaron..... 59m
Klean-Prep..... 96m
K-Lease..... 77b
Klonopin..... 143m
*Klonopin Wafer*143m
K-Lor..... 77b
Klorcon..... 77b
Klor-Con..... 77b
Klor-Con/EF..... 77b
Klor-Con 8..... 77b
Klor-Con 10..... 77b
Klor-Con 25..... 77b
Klor-Con M20... 77b
Klorvess..... 77b

Klorvess
 Effervescent ... 77b
Klotrix..... 77b
K-Lyte..... 77b
K-Lyte/Cl..... 77b
K-Lyte/Cl 50..... 77b
K-Lyte DS..... 77b
K-Norm..... 77b
Koate..... D
Kogenate..... D
Kolyum..... 77b
 kombucha tea .. 107m
Kondremul..... 97b
Konsyl..... 95b
Konsyl Fiber..... 95b
 Korean red ginseng .
 106t
K-Phos..... 77m
Kristalose..... 96t
K-Tab..... 77b
Kuvan..... PDA
Ku-Zyme..... 99m
Ku-Zyme HP..... 99m
K-vescent..... 77b
Kwai..... 105b
Kwellada-P..... 62t
Kyolic..... 105b
Kytril..... 90m

L

labetalol..... 49m
Lac-Hydrin..... 64b
 lacosamide..... 115m
Lacrilube..... 135b
Lacrisert..... 135m
Lactaid..... 98b
 lactase..... 98b
 lactic acid..... 64b
Lactinex..... 108t
Lactobacillus.. 108t
 lactulose..... 96t
Lamictal
 Neurology..... 115m
 Psychiatry.... 139m
Lamictal CD
 Neurology..... 115m
 Psychiatry.... 139m
Lamictal ODT
 Neurology..... 115m
 Psychiatry.... 139m
Lamictal XR.... 139m
Lamisil
 Antimicrobials.. 15t
 Dermatology ... 61b
Lamisil AT..... 61b
 lamivudine.. 19b, 21t

lamotrigine
 Neurology..... 115m
 Psychiatry.... 139m
Lamprene.....D
Lanoxicaps..... 40t
Lanoxin..... 40t
 lanreotide..... PDA
 lansoprazole.... 93m,
 94m
Lansoyl..... 97b
 lanthanum carbon-
 ate..... 78b
Lantus..... 72m
Lanvis..... 129t
 lapatinib 129m
Lariam..... 15b
 laronidase PDA
Lasix..... 52m
 latanoprost.... 134m
Latisse..... 134m
Lectopam..... 143m
Leena..... 124b
 leflunomide 1b
Legalon..... 107b
 lenalidomide ... 129b
Lenoltec..... 10m
 leopard's bane. 103b
 lepirudin..... 101b
Lescol..... 43m
Lescol XL..... 43m
Lessina 123b, 124m
Letairis..... PDA
 letrozole..... 129m
 leucovorin..... 129b
Leukeran..... 128b
Leukine..... 102b
 leuprolide..... 129m
Leustatin..... 129t
 levalbuterol 148m
Levaquin..... 32m
Levator..... D
Levbid..... 95t
Levemir..... 72m
 levetiracetam .. 115b
Levitra..... 156b
Levlen... 123b, 124m
Levlit..... 123b
LevLite..... 124m
 levobunolol.... 133b
 levocabastine—
 nasal..... 88b
 levocabastine—
 ophthalmic .. 130m
 levocarnitine ... 78m
 levocetirizine 84b
 levodopa..... 120b
Levo-Dromoran... 7m
 levofloxacin
 Antimicrobials
 32m
 Cardiovascular
 41t
 levofloxacin—
 ophthalmic 131t
Levolet..... 79b
 levoleucovorin...129b
 levonorgestrel ..121b,
 123b
Levophed..... 54b
Levora... 123b, 124m
 levorphanol 7tm
Levo-T..... 79b
Levothroid..... 79b
 levothyroxine ... 79b
Levoxyl..... 79b
Levsin..... 95t
Levsinex..... 95t
Levulan Kerastick..D
Lexapro..... 137t
Lexiva..... 21b
Lixel..... 45t
Lialda..... 98t
Librax..... 98b, 99t
Librium..... 143m
Licorice..... 107m
Lidemol..... D
Lidex..... 65b
Lidex-E..... D
 lidocaine..... 41b
 lidocaine—local
 anesthetic ... 12mb
 lidocaine—ophthal-
 mic 135m
 lidocaine—topical ..
 64mb, 66mb
 lidocaine—viscous .
 87b
Lidoderm..... 64b
Lidomil..... D
Lidmitrol..... D
Lidmitrol DS..... D
Limbrel..... 105m
Linccoin..... D
 lincomycin..... D
 lindane..... 62t
 linezolid..... 34m
Lioresal..... 2t
 liothyronine D
Lipidil EZ..... 44b
Lipidil Micro..... 44b
Lipidil Supra..... 44b
 lipid reduction by
 class/agent 43b
Lipitor..... 43t
Lipofen..... 44b

Lipolysar..... 108b
Liposyn..... 78m
Liqui-Doss..... 97b
 lisdexamfetamine....
 147m
 lisinopril... 35b, 36m,
 47t
Lithane..... 139b
 lithium
 Cardiovascular
 41t
 Psychiatry.... 139b
Lithobid..... 139b
LiveBac..... 108t
Livostin..... 130m
Livostin Nasal Spray
 88b
 L-methylfolate..... D
LMX..... 64b
Lo/Ovral. 123b, 124m
Locacorten Vioform..
 D
LoCHOLEST..... 42m
LoCHOLEST Light.....
 42m
Locoid..... 65m
Locoid Lipocream ..D
Lodosyn..... D
 lodoxamide 130b
Loestin 24 Fe.. 124m
Loestrin 21 1.5/30...
 124m
Loestrin 21 1/20.....
 124m
Loestrin 24 Fe..... D
Loestrin Fe..... D
Loestrin Fe 1.5/30 ...
 124m
Loestrin Fe 1/20.....
 124m
Lomine..... 94b
 lomotil..... 89b
 lomustine D
Loniten..... D
Loperacap..... 89b
 loperamide 89b
Lopid..... 45t
 lopinavir-ritonavir ...
 22t
Lopressor..... 49b
Lopressor HCT.... 45t
Loprox..... 60b
 loratadine..... 83b
 lorazepam 144t
 lorcet..... 9b
Lortab..... 9b

171
Index
 t = top of page
 m = middle of page
 b = bottom of page
 D,PDA = see page 157

losartan..... 38t
LoSeasonique.. 124b
Losec..... 94m
Lotemax..... 133t
Lotensin..... 35m
Lotensin HCT..... 45t
 loteprednol 132b,
 133t
Lotrel..... 45t
Lotriderm..... 63b
Lotrimin AF..... 61t
Lotrimin Ultra.... 60b
 lotrisone..... 63b
Lotronex..... 98m
 lovastatin..... 43tb
 lovastatin+ext'd
 release niacin.. 43b
Lovaza..... 78m
Lowenox..... 100m
Low Ogestrel.. 123b,
 124m
Loxapac..... D
 loxapine..... 141m
Loxitane..... D
Lozide..... 52b
Lozol..... 52b
LPV/r..... 22t
L-Thyroxine..... 79b
 lubiprostone..... 97b
Lucentis..... D
Ludiomil..... PDA
 lumbosacral nerve
 root compression ..
 119t
 lumefantrine 15m
Lumigan..... 134m
Luminal..... 116t
Lunesta..... 144b
Lupron..... 129m
Lupron Depot..... D
Luride..... 76m
Lusedra..... 12t
Lustra..... 64b
Lutera..... 124m
 lutropin alfa D
Luveris..... D
Luvax..... 137b
Luvax CR..... 137b

t = top of page
 m = middle of page
 b = bottom of page
 D,PDA = see page 157

Luxiq 65t
Lybrel 124m
Lymphazurin..... PDA
 lymphocyte immune
 globulin 112m
Lyrca 116m
Lysodren 129b
Lytren 79m

M

Maalox..... 92m
MabCampath . 129m
Macrobid 34m
Macrodantin..... 34m
Macrodex..... 56t
Macugen D
 mafenide 60t
Mag-200 77t
 magaldrate 92b
Maganate..... 77t
 magic mouthwash 87b
Maglucate 77t
Magnacet..... D
 magnesium car-
 bonate
 Analgesics 2b
 Gastroenterology...
 92m
 magnesium chloride
 77t
 magnesium citrate...
 96t
 magnesium gluco-
 nate 77t
 magnesium hydr-
 oxide
 Analgesics 2b
 Gastroenterology...
 ...92mb, 93t, 96t
 magnesium oxide
 Analgesics 2b
 Endocrine &
 metabolics 77t
 magnesium sulfate ...
 77m
Magnevist 57t
Mag-Ox 400..... 77m

Magtrate 77m
 malarone 15m
 malathion..... 62t
 maltodextrin..... 87b
Manchurian or
Kargasok tea 107m
Mandelamine ... PDA
Manerix D
 mangafodipir ... 57m
 mannitol..... 121t
Mantoux 113b
 maprotiline..... PDA
 maraviroc 19m
Marcaire 12m
 marijuana PDA
 marine lipid concen-
 trate 78m
Marinol 91m
Marplan 136b
Marvelon D
Matricaria
recutita—German
 chamomile..... 104t
Matulane 128b
Mavik 35b, 36b
Maxair 152t
Maxair Autohaler....
 148b, 152t
Maxalt 117b
Maxalt MLT 117b
 MAX EPA..... 78m
Maxeran 91m
 maxidone 9b
Maxiflor D
Maxilene 64b
Maximum Strength
Pepcid AC 93t
Maxipime 27m
Maxitrol 132m
Maxivate 65b
Maxzide 45t, 47t
Maxzide-25 47t
 MD—Gastroview.. 57b
 MDMA..... PDA
 measles mumps &
 rubella vaccine....
 110b, 111m
 measles vaccine..PDA
Mebaral PDA
 mebendazole 17m
 mecamlamine..... D
 mecasermin D
 mechlorethamine. 128b
Meclicot 84b
 meclizine 84m
 meclofenamate D
Medihoney..... 107t

Medispaz..... 95t
Medivert 84b
Medrol 69t
 medroxyprogester-
 one 125t, 126t
 medroxyprogesterone
 —injectable .. 126t
 mefenamic acid... 5m
 mefloquine
 Antimicrobials
 15b
 Cardiovascular
 41t
Mefoxin 26t
Megace 126t
Megace ES 126t
Megacillin 30t
 megestrol 126t
Melaleuca alternifo-
lia 109m
 melaleuca oil.. 109m
Melanex 64b
 melatonin 107m
Mellaril 140b
 meloxicam 5m
 melphalan 128b
 memantine 114m
Membrane Blue.... D
Menactra 111t
Menest 122t
Meni-D 84b
 meningococcal
 vaccine 111t
Menjugate 111t
Menomune-A/C/Y/
W-135 111t
Menopur D
Menostar 122b
 menotropins D
Mentax 60b
 mepenzolate 95m
 meperidine 7m
 mephobarbital... PDA
Mephyton 81b
 mepivacaine..... 12b
Mepron 17m
 mequinol 66b
 mercaptopurine .. 129t
Meridia 147b
 meropenem 25b
Merrem IV 25b
Mersyndol with
Codeine 9b
Meruvax II..... PDA
 mesalamine 98t
Mesasal 98t
 mesna 129t

Mesnex 129t
Mestinon 119b
Mestinon Timespan ..
 119b
Metadate CD .. 147m
Metadate ER... 147m
Metadol 7b
 metaglip 70b
Metamucil 95b
Metanx D
 metaproterenol 148b
Metastron 129b
 metaxalone 2m
 metformin 70tmb,
 71m, 74m
 metformin 74m
 methacholine D
 methadone
 Analgesics 7tb
 Cardiovascular
 41t
Methadose..... 7b
 methamphetamine..
 PDA
 methazolamide .. 134t
 methenamine... 154b,
 155m
 methenamine
 hippurate PDA
 methenamine
 mandelate PDA
Methergine 126b
 methimazole..... 79b
Methitest 67t
 methocarbamol .. 2m
 methohexital 12t
 methotrexate 1b
 methotrimeprazine D
 methoxsalen D
 methscopolamine....
 99t
 methsuximide... PDA
 methylclothiazide... D
 methylaminolevuli-
 nate 59b
 methylcellulose... 95b
 methylcobalamin... D
 methyl dopa .. 39t, 45m
 methylene blue
 Toxicology 153tb
 Urology 153tb
 154b, 155m
 methylenedioxyme-
 thamphetamine....
 PDA
 methylergonovine ..
 126b

Methylin 147m
Methylin ER 147m
 methylalantrexone.....
 99t
 methylphenidate
 147m
 methylprednisolone .
 69tb
 methylsulfonyl-
 methane 107b
 methyltestosterone
 Endocrine &
 metabolic 67t
 OB/GYN 125m
 metipranolol 133b
 metoclopramide
 91m
 metolazone 53t
Metopirone D
 metoprolol
 45b, 49b
Metrika A1CNow
 73b
MetroCream 60m
MetroGel 60m
MetroGel-Vaginal
 127b
MetroLotion 60m
 metronidazole
 Antimicrobials
 34m
 Gastroenterology...
 93mb
 metronidazole—
 topical 60m
 metronidazole—
 vaginal 127b
Metvix 59b
Metvixia 59b
 metyrapone D
 metyrosine D
Mevacor 43b
 mexiletine 41b
Mexitil 41b
Miacalcin 82b
Micafungin 14m
Micardis 38m
Micardis HCT 45t,
 47t
Micardis Plus 47t
Micatin 61m
 miconazole 127b
 miconazole—
 topical ... 61m, 66b
Micort-HC
Lipocream D
Micozole 127b

microgam 128m
Microgestin Fe D
Microgestin Fe
 1.5/30 124m
Microgestin Fe 1/20
 124m
Micro-K 77b
Micro-K LS 77b
Micronor
 124m, 126m
Microzide 52b
Midamor D
 midazolam 12t
 midodrine 54b
Midrin 118m
Mifeprex 128m
 mifepristone... 128m
MIG-99 105m
 miglitol 70t
 miglustat PDA
Migquin 118m
Migra-Lief 105m
Migranal 118t
MigraSpray 105m
Migratine 118m
Migraxone 118m
Milk of Magnesia
 96t
 milk thistle 107b
 milnacipran 121t
 milrinone 54b
 mineral oil 97b
Minestrin 1/20 D
Minipress 39t
Minirin 82b
Minitrin 53b
Minizide 45t, 47t
Minocin 33b
 minocycline 33b
Min-Ovral D
Minox 66t
 minoxidil D
 minoxidil—topical ..
 66t
Minoxidil for Men
 66t
Mintezol 18t
Miochol-E D
Miostat D
MiraLax 96m
Mirapex 120m
Mircera D
Mircette 124m
 mirtazapine... 139m
 misoprostol
 Analgesics 4m

Gastroenterology...
 95m
 OB/GYN 125b
 mitomycin 129t
Mitomycin-C 129t
 mitotane 129b
 mitoxantrone 129t
M-M-R II 110b
Moban D
Mobic 5m
Mobicox 5m
 moclobemide D
 modafinil 147b
Modecate 140t
Modeten 140t
Modicon 124t
Moduret 47t
Moduretic ... 45t, 47t
 moexipril . 35b, 36m,
 47m
 moexipril/HCTZ... 41t
Mogadon D
 molindone 141m
 mometasone DPI
 151b
 mometasone furoate
 65m
 mometasone—
 inhaled 149b
 mometasone—
 nasal 88m
 mometasone—
 topical D
Momordica
 charantia 104t
Monarc-M D
Monascus
 purpureus 108b
Monazole 127b
Monistat 127b
Monistat 1-Day 128t
 monobenzene 66t
Monoclate P D
Monocor 49t
Monodox 33m
 monogyna 107t
Monoket 53t
MonoNessa 124t
Mononine D
Monopril 35b, 36t
Monopril HCT 45t,
 47t
 montelukast 150t
Monurol 34t
Morinda citrifolia
 107b
 morphine 7tb

173
Index
 t = top of page
 m = middle of page
 b = bottom of page
 D,PDA = see page 157

M.O.S. 7b
Motilium 91t
Motofen 89b
 motor function by
 nerve roots... 118b
Motrin 4b
Movana 109t
Moviprep 96m
Moxatag 30b
 moxifloxacin
 Antimicrobials
 32b
 Cardiovascular
 41t
 moxifloxacin—
 ophthalmic .. 131m
Mozobil D
MS Contin 7b
MSIR 7b
MSM 107b
Mucaine 92t
Mucinex 86t
Mucinex D D
Mucinex DM D
Mucinex-DM
 Extended-Release .
 85t
Mucomyst 150m,
 152b
Multaq 40m
MultiHance 57t
 multivitamins... 80b
 mumps vaccine ...PDA
MumpsVax PDA
 mupirocin 60m
Murine Ear 86b
Muse 155b
Mustargen 128b
Mutamycin 129t
MVC 19m
MVI 80b
Myambutol 16m
Mycamine 14m
Mycelex
 Antimicrobials
 13m
 Dermatology 61t
Mycelex-3 127m

t = top of page
m = middle of page
b = bottom of page
D,PDA = see page 157

Mycelex 7..... 127m
mycobacteria..... 23b
Mycobutin..... 16b
Mycolog II..... 63b
mycophenolate
 mofetil..... 113b
Mycostatin
 Antimicrobials.. 15t
 Dermatology... 61b
 OB/GYN..... 128t
Mydrin..... 135t
Mydracyl..... 135t
Myfortic..... 113b
Mylanta
 ENT..... 87b
 Gastroenterology...
 92b
Mylanta Children's ..
 75m
Myleran..... 128b
Mylicon..... 95b
Mylotarg..... 129m
Myobloc..... D
Myocet..... 128b
Myochrysin..... D
Myotonachol..... 155b
Myozyme..... PDA
Myosoline..... 116m
Mytelase..... PDA
Mytussin DM..... 85t
M-Zole..... 127b

N

NABI-HB..... 112t
nabilone..... 91m
nabumetone..... 5m
N-acetyl-5-
 methoxytryptamine
 107m
N-acetylcysteine.....
 152b, 153t
nadolol..... 45b, 49b
Nadopen-V..... 30m
nafarelin..... D
nafacillin..... 30b
naftifine..... 61m
Naftin..... 61m

Naglazyme..... PDA
nalbuphine..... 6m, 7t
Nalcrom..... 150b
Nalfon..... PDA
naloxone
 Analgesics..... 11t
 Psychiatry..... 146
 Toxicology..... 153t
naltrexone..... 145m
Namenda..... 114m
nandrolone..... 67t
naphazoline..... 130t
Naphcon..... 130t
Naphcon-A..... 130t
NapraPac..... 5b
Naprelan..... 5b
Naprosyn..... 5b
naproxen
 Analgesics..... 5b
 Neurology..... 117b
Naratriptan..... 117b
Narcan..... 11t
Nardil..... 136b
Naropin..... PDA
Nasacort AQ..... 88b
Nasacort HFA..... 88b
NaSal..... 89t
NasalCrom..... 88b
Nasalide..... 88t
Nasarel..... 88t
Nascobal..... 80t
Nasonex..... 88m
natalizumab..... D
nateglinide..... 73m
Natrecor..... 56b
Naturalyte..... 79m
Navane..... 140b
Navelbine..... 129m
Nebcin..... 13t
nebirolol..... 50t
NebuPent..... 17b
Necon..... D
Necon 0.5/35..... 124t
Necon 1/35..... 124t
Necon 1/50..... 124t
Necon 10/11... 124m
Necon 7/7/7... 124b
nedocromil—
 inhaled..... D
nedocromil—
 ophthalmic... 130b
nefazodone..... D
nelarabine..... 129t
nelfinavir..... 22m
Nemasol Sodium....
 PDA
Nembutal..... 12m

Neo-Fradin..... 99t
neomycin
 Dermatology.....
 60mb, 63m
 ENT..... 86b, 87t
 Ophthalmology....
 131b, 132m
neomycin—oral... 99t
Neoprofen..... 4b
Neoral..... 113m
Neosar..... 128b
neosporin cream.....
 60m
neosporin ointment .
 60b
neosporin oint-
 ment—ophthalmic
 131b
neosporin solu-
 tion—ophthalmic.
 131b
neostigmine.... 119b
Neo-Synephrine
 Cardiovascular....
 54b
 ENT..... 89t
Neovisc..... D
nepafenac..... 135m
nephrocip..... 81t
nephrovite..... 81t
Neptazane..... 134t
Nesacaine..... PDA
nesiritide..... 56b
NESP..... 102t
nettle root..... 107b
Neulasta..... 102b
Neumega..... 102m
Neupogen..... 102m
Neupro..... D
Neurontin..... 115t
Neutra-Phos..... 77m
Nevanac..... 135m
nevirapine..... 20m
Nexavar..... 129b
Nexium..... 93b
NFV..... 22m
niacin
 Cardiovascular....
 43tb, 44t
 Endocrine &
 metabolic..... 81t
 nicotinamide..... 80m
Niacor..... 81t
Niaspan..... 81t
Niastase..... D
nicardipine .. 41t, 50b
NicoDerm CQ.... 146t

Nicolar..... 81t
Nicorette..... 145b
Nicorette DS.... 145b
Nicorette inhaler....
 145b
 nicotine gum... 145b
 nicotine inhalation
 system..... 145b
 nicotine lozenge....
 145b
 nicotine nasal spray
 145b
 nicotine patches....
 146t
 nicotinic acid.... 81t
Nicotrol..... 146t
Nicotrol Inhaler.. 145b
Nicotrol NS..... 145b
Nidazol..... 34m
nifedipine..... 50b
Niferex..... 76b
Niferex-150..... 76b
Nilandron..... 129m
nilotinib..... 129m
Nilstat
 Antimicrobials.. 15t
 Dermatology... 61b
 OB/GYN..... 128t
 nilutamide..... 129m
Nimbex..... 12b
nimodipine..... 121m
Nimotop..... 121m
Nipent..... 129t
Nipride..... 47b
Niravam..... 144m
nisoldipine..... 51t
nitazoxanide..... 17m
nitisinone..... D
Nitoman..... 121m
nitrazepam..... D
nitric oxide..... D
Nitro-BID..... 53m
Nitro-Dur..... 53b
nitrofurantoin... 34m
nitroglycerin intra-
 venous infusion...
 53m
nitroglycerin
 ointment..... 53m
nitroglycerin
 spray..... 53b
nitroglycerin
 sublingual..... 53b
nitroglycerin
 sustained releaseD
nitroglycerin
 transdermal... 53b

Nitrolingual..... 53b
NitroMist..... 53b
Nitropress..... 47b
 nitroprusside..... 47b
NitroQuick..... 53b
Nitrostat..... 53b
 nitrous oxide..... PDA
Nix..... 62t
 nizatidine..... 93t
Nizoral
 Antimicrobials.....
 13b
 Dermatology..... 61t
N-N-diethyl-m-
toluamide..... D
NoDoz..... 147t
Nolvadex..... 126b
NONI..... 107b
Nora-BE..... 124m,
 126m
 norco..... 10t
Norcuron..... 12b
Nordette..... 123b, 124m
Norditropin..... 83t
Norditropin
 NordiFlex..... 83t
 norelgestromin..... 122t
 norepinephrine..... 54b
 norethindrone.....
 123mb, 125tm,
 126m
Norflex..... 2m
Norfloxacin..... 32t
 norgesic..... 3m
 norgestimate..... 125t
 norgestrel..... D
Norinyl 1+35..... 124t
Norinyl 1+50..... 124t
Noritate..... 60m
Noroxin..... 32t
Norpace..... 40m
Norpace CR..... 40m
Norpramin..... 136m
Nor-Q.D...... 124m,
 126m
Nortrel..... D
Nortrel 0.5/35..... 124t
Nortrel 1/35..... 124t
Nortrel 7/7/7..... 124b
 nortriptyline..... 136m
Norvasc..... 50m
Norvir..... 22m
Nostrilla..... 89t
Novafed A..... D
Novamoxin..... 30b
Novantrone..... 129t
Novarel..... D

Novasen..... 4t
Novasoy..... 109m
Novocain..... PDA
Novolin 70/30..... 71b,
 72b
Novolin N..... 72m
Novolin R..... 72b
NovoLog..... 72b
NovoLog Mix 50/50.....
 71b, 72b
NovoLog Mix 70/30.....
 72b
NovoRapid..... 72b
NovoSeven..... D
NovoSeven RT..... D
Novothyrox..... 79b
Noxafil..... 13b
Nozinan..... D
NPH..... 72b
NPH/Reg..... 72m
Nplate..... D
 NSAIDS..... 5b
Nubain..... 6m
Nucynta..... 11m
Nu-Iron 150..... 76b
NuLev..... 95t
NuLyteLy..... 96m
Numby Stuff..... 64b
Nupercainal..... 63b
Nuprin..... 4b
Nursoy..... 78m
Nutramigen Lipil.....
 78m
Nutropin..... 83t
Nutropin AQ..... 83t
Nutropin Depot..... 83t
NuvaRing..... 121b
Nuvigil..... 146b
NVP..... 20m
Nyaderm
 Antimicrobials..... 15t
 Dermatology..... 61b
 OB/GYN..... 128t
 NYSTATIN..... 15t
 nystatin..... 63b
 nystatin—topical.....
 61b
 nystatin—vaginal.....
 128t
Nytol..... 84m

O

Oaklide..... 129m
 oatmeal..... 66t
Ocean..... 89t
Ocella..... 124m

Octagam..... 112m
Octostim..... 82b
 octreotide..... 41t
 octreotide..... 99t
 D
Ocufen..... 131m
Ocupress..... 133b
Oenothera biennis.....
 105m
Oesclim..... 122b
Off..... D
 ofloxacin
 Antimicrobials.....
 32tm
 Cardiovascular.....
 41t
 ofloxacin—ophthal-
 mic..... 131m
 ofloxacin—otic..... 87t
Ogen..... 123m
Ogestrel..... 123b, 124t
 olanzapine..... 141b,
 142t, 145t
 olmesartan..... 38t, 45m
 olopatadine..... 130m
 olopatadine—nasal
 88b
 olsalazine..... 98t
Olux..... 65b
 omalizumab..... D
 omega-3b fatty acid
 78m
 omega 3 fatty acids
 43b
 omeprazole..... 94mb
Omnaris..... 88t
Omnicef..... 26b
Omnipaque..... 57b
Omniscan..... 57t
Omnitrope..... 83t
Oncaspar..... 129b
 Oncotic
 Immunology..... 110t
 Oncology..... 129m
Oncovin..... 129m
 ondansetron
 Cardiovascular.....
 41t
 Gastroenterology.....
 90m
One-a-Day Bedtime
& Rest..... 109b
OneTouch Ultra..... 74t
OneTouch UltraMini.....
 74t
OneTouch
 UltraSmart..... 74m

175
Index

t = top of page
m = middle of page
b = bottom of page
D,PDA = see page 157

Onsolis..... 6b
Ontak..... 129m
Onxol..... 129m
Opana..... 8m
Ophthaine..... 135b
Ophthalmic..... 135b
 opioid antagonists..... 11t
 opium..... 90t
 opium tincture..... 90t
 oprelvekin..... 102m
Oprisine..... 1b
Opticrom..... 130b
OptiMARK..... 57t
Optipranolol..... 133b
Optiray..... 58t
Optivar..... 130t
Oracea..... 33m
Oracit..... 156b
Oracor..... D
OraDisc A..... 87m
Oramorph SR..... 7b
Orap..... 140m
Orapred..... 69m
Orapred ODT..... 69m
Oraqix..... D
Orazinc..... 78t
 orciprenaline..... 148b
Orencia..... D
Oretic..... 52b
Orfadin..... D
Orgalutran..... D
Orlistat..... 99m
 orphenadrine..... 2m, 3m
Ortho-Cept..... 124m
Ortho-Cyclen..... 124t
Ortho-Est..... 123m
Ortho Evra..... 122t
Ortho-Novum 1/35
 124t
Ortho-Novum 1/50
 124t
Ortho-Novum 10/11
 124m
Ortho-Novum 7/7/7
 124b
Ortho Tri-Cyclen.....
 124b

t = top of page

m = middle of page

b = bottom of page

D,PDA = see page 157

oxymorphone 7t,
 8m
 oxytocin 125b
Oxytrol 154b
Oyst-Cal 75m

P

Ortho Tri-Cyclen Lo ..
 124b
Orthovisc D
Orudis 5t
Orudis KT 5t
Orudis SR 5t
Oruvail 5t
Orvaten 54b
Os-Cal 75m
 oseltamivir 23t
Osmitol 121t
Osmoprep 96b
Ostac 67b
Osteoforte 82t
Ovcon-35 124t
Ovcon-50 124t
Ovide 62t
Ovidrel D
Ovol 95b
Ovral 123b, 124t
 oxacillin 30b
 oxaliplatin 129m
Oxandrin 67t
 oxandrolone 67t
 oxaprozin 5b
 oxazepam 144m
 oxcarbazepine .. 116t
Oxeze Turbuhaler ..
 148b
 oxiconazole 61b
Oxilan 58t
Oxistat 61b
Oxizole 61b
 oxprenolol 50t
Oxsoralen-Ultra .. D
 oxyacantha 107t
 oxybate 121m
Oxybutyn 154b
 oxybutynin 154b
Oxycocet 10t
Oxycodan 10t
 oxycodone 7t, 9t,
 10tmb
OxyContin 8m
OxyFAST 8m
OxylR 8m
 oxymetazoline 89t
 oxymetholone PDA

Pacerone 39b
Pacis 129m
 paclitaxel 129m
 PAH D
Palgic D
Palgic DS D
 palifermin 129t
 paliperidone .. 142m
 palivizumab 24b
 palonosetron 90b
 pamabrom 11b
Pamelor 136m
 pamidronate 68t
Pamine D
Pamine Forte D
Panadol 11m
Panafil 66m
Panax ginseng 106t
Panax quinquefolius
L 106t
Pancrease 99m
 pancreatin 99m
Pancrecarb 99m
 pancrelipase 99m
 pancuronium D
Pandel D
Panglobulin 112m
 panitumumab 129m
Panixine DisperDose
 25b
Panretin 64t
Pantoloc 94b
 pantoprazole 94b
 pantothenic acid
 80m, 81t
 papain 66m
 papaverine D
 para-aminosalicylic
 acid PDA
 paracetamol 11m
Parafon 2t
Paraplatin 129m
Parcopa 120m
 paregoric 90t
 paricalcitol 81m
Pariet 94b
Parlodol 82m
Parnate 137t
 paromomycin 17b

paroxetine 137b
Parvolex 152b
 PAS PDA
Paser PDA
Pataday 130m
Patanase 88b
Patanol 130m
Paullinia cupana ..
 106b
Pausinystalia
yohimbe 109b
Pavulon D
Paxil 137b
Paxil CR 137b
 PCO 106b
PediaCare Infants'
Decongestant
Drops 86m
Pedialyte and
Pedialyte 79m
Pediapred 69m
 pediarix 111t
Pediatrix 11m
 pediazole 29b
Pediolic 86b
PedvaxHIB 110m
Peganone PDA
 pegaptanib D
 pegaspargase 129b
Pegasys 24b
 pegfilgrastim .. 102b
 peginterferon
 alpha-2A 24b
 peginterferon
 alpha-2B 24b
PEG-Intron 24b
Peg-Lyte 96m
 pegvisomant D
 pemetrexed 129t
 pemirolast 130b
Penbritin 31t
 penbutolol D
 penciclovir 63t
 penicillamine D
 penicillin G 30t
 penicillin V 30m
 penicillins 31b
Penlac 60b
Pentam 17b
 pentamidine
 Antimicrobials
 17b
 Cardiovascular .. 41t
Pentasa 98t
 pentazocine 6m, 7t
 10m

pentetate indium
 PDA
 pentobarbital .. 12m
Pentolair 134b
 pentosan D
 pentostatin 129t
Pentothal 12m
 pentoxifylline 56b
Pepcid 93t
Pepcid AC 93t
 pepcid complete .. 93t
Peptic Relief 93m
Pepto-Bismol 89m
Percocet 10t
Percocet-demi .. 10t
 percodan 10t
Percolone 8m
Perforomist 148b
Pergonal D
Periactin 84t
Peri-Colace 97b
Peridex 87b
 perindopril
 35b, 36m
Periogard 87b
Periostat 33m
Perlone 64b
 permethrin 62t
 perphenazine
 140m, 141m
Persantine 48t
Petadolex 104t
Petaforce 104t
Petesites hybridus ..
 104t
 pethidine 7m
 petrolatum 135b
Pexeva 137b
 PGE1
 Gastroenterology ..
 95m
 OB/GYN 125b
 PGE2 125b
Pharmorubicin .. 129t
Phazyme 95b
Phenazo 155b
 phenazopyridine
 155b
 phendimethazine D
 phenelzine 136b
Phenergan 91b
*Phenergan/
 Dextromethorphan*
 85b
Phenergan VC 85b
*Phenergan VC w/
 codeine (c)V* 85b

Phenergan with
Codeine D
 pheniramine..... 130t
 phenobarbital
 Gastroenterology...
 95t
 Neurology..... 116t
 phenothiazines... 41t
 phenoxybenzamine..D
 phentermine..... 147b
 phentolamine..... 47b
 phenylephrine... 86m
 phenylephrine—IV ..
 54b
 phenylephrine—
 nasal 89t
 phenylephrine—
 ophthalmic 135t
 phenyl salicylate
 154b, 155m
Phenylek..... 116t
 phenytoin 116t
Phosflax..... 96b
PhosLo..... 75m
Phospholine Iodide.D
 phosphorylated
 carbohydrates..91m
 phosphorus 77m
Photofrin..... 129b
 phrenilin..... 3m
Phyllocontin..... 150b
 physostigmine.....D
Phyto Joint..... 105t
 phytonadione..... 81b
Phytosoya..... 109m
 pilocarpine 88t
 pilocarpine—
 ophthalmic 134t
Pilopine HS..... 134t
 pimicrolimus ... 63m
 pimozone
 Cardiovascular
 41t
 Psychiatry... 140m,
 141m
 pindolol 50t
Pinworm 17b
Pin-X..... 17b
 pioglitazone..... 70tm,
 71b
 pioglitazone..... 71b
 piperacillin..... 31m
 piperacillin-
 tazobactam ... 31m
 piperonyl butoxide...
 61b, 62t

pirbutero 148b
 piroxicam 6t
Pitocin..... 125b
Pitressin..... 83m
 plague vaccine. 111t
Plan B... 121b, 123b
Plan B One-Step
 121b, 123b
Plaqueen..... 1b
Plasbumin..... 56t
 plasma PDA
Plasmanate..... 56m
 plasma protein
 fraction 56m
Plasmatein..... 56m
Platinol-AQ..... 129m
Plavix..... 48t
Plenaxis..... 129t
Plendil..... 50b
 plerixafor D
Pletal..... 56m
 pligis 66m
Pneumo 23 111t
 pneumococcal
 7b-valent conjugate
 vaccine.....111t
 pneumococcal 23b-
 valent vaccine.111t
Pneumovax..... 111t
Podocon-25..... 63t
Podofilin..... 63t
 podofilox..... 63t
Podofin..... 63t
 podophyllin..... 63t
Polaramine..... 84t
 policosanol..... 107b
 polio vaccine 111t
Polocaine..... 12b
 polycarbophil..... 95b
Polycitra..... 156b
Polycitra-K..... 156b
Polycitra-LC..... 156b
 polyethylene glycol
 (PEG-salt soln)
 Cardiovascular
 41t
 Gastroenterology...
 96m
 polyethylene glycol
 with electrolytes ...
 96m
Polygam..... 112m
 poly-L-lactic acid..D
polymyxin
 Dermatology
 60mb, 63m
 ENT 86b

Ophthalmology
 131b, 132m
 polysporin..... 60b
 polysporin—
 ophthalmic ... 131b
Polytar..... 64m
 polythiazide..... 47t
 polytrim—ophthal-
 mic 131b
Ponstan..... 5m
Ponstel..... 5m
Pontocaine..... 135b
 poractant D
 porfimer 129b
Portia..... 124m
 posaconazole..... 13b
Potaba..... PDA
Potasalan..... 77b
 potassium 77b
 potassium iodide...D
 potassium p-amin-
 obenzoate PDA
Potent V..... 109b
Power-Dophilus...108t
PPD..... 113
 pralidoxim 153b
 pralidoxime 153t
 pramipexole 120m
 pramlintide 74b
 pramosone 66m
Praxox HC..... 66m
 pramoxine .. 63b, 66m
 prandimet 71m
Prandin..... 73m
Prasterone..... 104b
 prasugrel..... 48m
Pravachol..... 44t
 pravastatin 44t
 praziquantel..... 17b
 prazosin 39t, 47t
Precedex..... 11b
Precision Xtra... 74m
Precose..... 70t
Pred Forte..... 133m
Pred G..... 132b
Pred Mild..... 133m
 prednicarbate D
 prednisolone... 69mb
 prednisolone—
 ophthalmic.....
 132tmb, 133m
 prednisone 69b
Prefest..... 125t
 pregabalin..... 116m
Pregnyl..... D
Prelone..... 69m
Premarin..... 123t

177
Index
 t = top of page
 m = middle of page
 b = bottom of page
 D,PDA = see page 157

premesis-RX... 128m
 prephase 125t
Premlus..... 125m
 prepro..... 125m
Prepidil..... 125b
Pressyn AR..... 83m
Pretz..... 89t
Prevacid
 Analgesics..... 5b
 Gastroenterology...
 94m
Prevalite..... 42m
Prevox-HC..... D
Prevfem..... 124t
Prevnar..... 111t
Prevpac..... 93m
Prezista..... 21b
Prialit..... PDA
Priftin..... 17t
 prilocaine 64b
Prilosec..... 94m
Primacor..... 54b
Primadophilus... 108t
 primaquine 16t
Primaxin..... 25b
 primidone..... 116m
Primsol..... 34b
Principen..... 31t
Prinivil..... 35b, 36m
Prinzide..... 45t, 47t
Priorix..... 110b
Pristiq..... 138m
Privigen..... 112m
ProAir HFA. 148t, 152t
ProAmatine..... 54b
Pro-Banthine... 95m
 probenecid 75t
Probiotica..... 108t
 probiotics 108t
 procainamide... 41tb
 procaine PDA
 procaine penicillin...
 30tm
 procarbazine ... 128b
Procardia..... 50b
Procordia XL..... 50b
Prochieve..... 126m

t = top of page
 m = middle of page
 b = bottom of page
 D, PDA = see page 157

prochlorperazine.....
 91b
Procrit 102m
Proctocream HC..... D
Proctofoam HC..... D
Proctofoam NS... 63b
 procyanidolic
 oligomers..... 106b
Prodrum..... 155b
Prodrum Plain... 95m
Pro-Fast 147b
Progest..... PDA
 progesterone gel.....
 126m
 progesterone in oil...
 D
 progesterone
 micronized... 126m
 progesterone
 vaginal insert.....
 126m
Proglycem..... D
Prograf 113b
 proguanil 15m
Prohance..... 57t
Prolastin..... D
Proleukin 129m
Prolixin 140t
Proloprim..... 34b
Promacta..... PDA
Promega..... 78m
Promensil 108b
 promethazine 91b
Prometrium 126m
ProMotion 106m
Pronestyl 41b
 propaderm..... D
 propafenone 41b
Propanthel..... 95m
 propantheline... 95m
 proparacaine... 135b
Propasi HP..... D
Propecia 154m
Propine..... D
 propofol 12m
 propoxyphene 8b,
 9t, 10b

propranolol 45b,
 50m
Propulsid..... D
 propylene glycol.....
 87mb
 propylthiouracil . 79b
Propyl Thyracil... 79b
ProQuad 111m
ProQuin XR 32t
Proscar 154m
Prosed/DS..... 154b
Prosobee..... 78m
ProSom 144t
 prostaglandin E1.....
 155b
Prostatonin.... 108m
Prostep 146t
Prostigmin..... 119b
Prostin E2..... 125b
Prostin VR 155b
Prostin VR Pediatric
 155b
 protamine
 Herbal & alterna-
 tive therapies....
 103t
 Toxicology 153t
 protein C concen-
 trate PDA
Protenate..... 56m
Protonix..... 94b
Protopam 153b
Protopic..... 63m
 protriptyline... 136m
Protropin 83t
Protlyol 94b
Proventil HFA... 148t,
 152t
Provera 126t
Provigil 147b
Provocholine..... D
Prozac 137m
Prozac Weekly. 137m
 prussian blue... PDA
Pseudo-Chlor..... D
 pseudoephedrine....
 86m
Pseudofrin..... 86m
Psorcon 65b
Psorcon E..... D
 psyllium 95b
PTU..... 79b
Pulmicort..... 152t
Pulmicort Flexhaler..
 149m
Pulmicort Respules .
 149m

Pulmozyme..... 152m
Puregon..... D
Purinethol..... 129t
PVF-K 30m
 pycnogenol 108m
Pygeum africanum..
 108m
Pylera 93b
 pyrantel 17b
 pyrazinamide.... 16b,
 17t
 pyrethrins... 61b, 62t
Pyridiate..... 155b
Pyridium 155b
 pyridostigmine 119b
 pyridoxal phosphate
 D
 pyridoxine
 Endocrine & meta-
 bolic
 80mt, 81tb
 Gastroenterology...
 91t
 OB/GYN..... 128m
 pyrilamine D
 pyrimethamine .. 17b
PZA..... 16b

Q

QT interval drugs....
 41t
Quadramet 129m
Qualaquin 16t
Quanterra 109t
Quanterra Mental
Sharpness 105b
Quasense 124b
Quelicin..... 12b
Qvestran 42m
Qvestran Light... 42m
 quetiapine
 Cardiovascular
 41t
 Psychiatry.... 141b,
 142m
 Quick-Pep..... 147t
 quinapril .. 35b, 36b,
 45m
 quinidine.... 41t, 42t
 quinine 16t, 41t
 quinolones..... 32b
 quinupristin 34b
Quixin 131t
QVAR 149m
QVAR 40 mcg ... 152t
QVAR 80 mcg ... 152t

R

R&C..... 61b
RabAvert 111m
 rabeprazole 94b
 rabies immune
 globulin human ...
 113t
 rabies vaccine... 111m
Radiogardase... PDA
RAL..... 20t
 rally pack 78t
 raloxifene 126b
 raltegravir 20t
 ramelteon..... 144b
 ramipril 35b, 36b
Ranexa 56b
 ranibizumab..... D
Raniclor..... 26t
 ranitidine 93m
 ranolazine .. 41t, 56b
Rapamune..... 113b
 rasagiline..... 120b
 rasburicase D
Razadyne..... 114t
Razadyne ER ... 114t
Reactine..... 84t
Rebetol..... 25t
Rebif 118b
Reclast..... 68m
Reclipsen 124m
Recombinate D
Recombivax HB.. 110b
Recothrom..... D
 red clover 108b
 red clover isoflavone
 extract 108b
Redoxon..... 80t
 red wine PDA
 red yeast rice... 108b
ReFacto..... D
Refludan..... 101b
Refresh..... 135t
Refresh PM..... 135b
Refresh Tears.. 135m
Regitine..... 47b
Reglan..... 91m
Regonal..... 119b
Regranex..... 64t
Rehydralyte 79m
Rejuva-A..... 59b
Relafen..... 5m
Relenza 24t
ReliOn 74m
Relistor..... 99t
Relpax..... 117m

Remeron..... 139m
Remeron SolTab..... 25t
 139m
Remicade..... 1m
remifentanil..... D
Reminyl..... 114t
Remodulin..... D
Renagel..... 78b
Renedil..... 50b
Reno-60..... 57b
RenoCal..... 57b
Reno-DIP..... 57b
Renografin..... 57b
Renova..... 59b
Renvela..... 78b
ReoPro..... 47b
repaglinide..... 71m,
 73m
Repel..... D
Repronex..... D
Requip..... 120b
Requip XL..... 120b
Rescriptor..... PDA
Resectisol..... 121t
reserpine..... D
Resol..... 79m
RespiGam..... 113t
Restasis..... 135m
Restoril..... 144t
Restylane..... 64b
retapamulin..... 60b
Retavase..... 55b
reteplase..... 55b
Retin-A..... 59b
Retin-A Micro..... 59b
Retisert..... PDA
Retisol-A..... 59b
Retrovir..... 21t
Revatio
 Cardiovascular.....
 55t
 Urology..... 156t
ReVia..... 145m
Revlimid..... 129b
Reyataz..... 21m
Rheomacrodex..... 56t
Rheumatrex..... 1b
Rhinalar..... 88t
Rhinocort Aqua..... 88t
RhoGAM..... 128m
rho immune globulin
 128m
Rhophylac..... 128m
Rhotral..... 48b
RiaSTAP..... PDA
Ribasphere..... 25t

ribavirin—inhaled..
 25t
ribavirin—oral... 25t
riboflavin... 80m, 81tb
RID..... 62t
Ridaura..... D
Rideril..... 140b
rifabutin..... 16b
Rifadin..... 16b
rifamate..... 16b
rifampin..... 16b, 17t
rifapentine..... 17t
rifater..... 17t
rifaximin..... 34b
rilonacept..... PDA
Rilutek..... 121m
riluzole..... 121m
Rimactane..... 16b
rimantadine..... 23m
rimexolone..... 133m
Rimostil..... 108b
Rimso-50..... D
Riomet..... 74m
Riopan..... 92b
risedronate..... 68t
Risperdal..... 142b
Risperdal Consta.....
 142b
risperidone
 Cardiovascular.....
 41t
 Psychiatry..... 141b,
 142b
Ritalin..... 147m
Ritalin LA..... 147m
Ritalin SR..... 147m
ritonavir..... 22m
Rituxan..... 129m
rituximab..... 129m
rivastigmine... 114m
Rivotril..... 143m
rizatriptan..... 117b
Robaxin..... 2m
Robaxin-750..... 2m
Robinul..... 98b
Robinul Forte..... 98b
Robitussin..... 86t
Robitussin AC (c)V..
 85b
Robitussin CF..... 85t
Robitussin Cough....
 84b
Robitussin DAC (c)V
 85b
Robitussin DM..... 85t
Robitussin PE..... 85m
Rocaltrol..... 80t

Rocephin..... 27t
rocuronium..... 12b
Rofact..... 16b
Roferon-A..... 129m
Rogaine..... 66t
Rogaine Extra
 Strength..... 66t
Rogitine..... 47b
Rolaid..... 92b
Romazicon..... 153b
romiplostin..... D
Rondec..... D
Rondec DM..... D
Rondec DM Oral
 Drops..... 85b
Rondec DM Syrup....
 85b
Rondec Oral Drops...
 85b
Rondec Syrup..... 85b
ropinirole..... 120b
ropivacaine..... PDA
Rosasal..... 60m
rosiglitazone.....
 70m, 71b
Rosula..... 59t
Rosula NS..... 59m
rosuvastatin..... 44t
Rotarix..... 111m
RotaTeq..... 111m
rotavirus vaccine....
 111m
rotigotine..... D
Rowasa..... 98t
Roxanol..... 7b
Roxicet..... 10t
Roxicodone..... 8m
Rozerem..... 144b
RSV immune
 globulin..... 113t
RTV..... 22m
RU-486..... 128m
rubella vaccine... PDA
Rubex..... 129t
Rubini..... 105t
Rufen..... 4b
rufinamide..... 116m
Rum-K..... 77b
Rylosol..... 42m
Ryna-12 S..... D
Rynatan..... 85b
Rynatan Pediatric
 Suspension..... D
Rynatan-P Pediatric
 85b
Rythmodan..... 40m
Rythmodan-LA..... 40m

179
Index
 t = top of page
 m = middle of page
 b = bottom of page
 D, PDA = see page 157

Rythmol..... 41b
Rythmol SR..... 41b
Ryzolt..... 11b

S

S-2..... 152m
Sabril..... D
Saccharomyces
boulardii..... 108t
s-adenosylmethion-
ine..... 109t
Saint John's wort....
 109t
Saizen..... 83t
Salagen..... 88t
Salazopyrin En-tabs
 98m
salbutamol..... 148t
Salflex..... 4m
salicin..... 109b
Salicis cortex..... 109b
salicylic acid..... 59m
saline nasal spray...
 89t
Salix alba..... 109b
salmeterol
 Cardiovascular.....
 41t
 Pulmonary..... 149t
Salofalk..... 98t
salsalate..... 4m
Salvia miltiorrhiza... D
samarium 153.. 129m
Sambucol..... 105t
Sambucus nigra.....
 105t
SAM-e..... 109t
sammy..... 109t
Sanctura..... 155t
Sanctura XR..... 155t
Sancuso..... 90m
Sandimmune.. 113m
Sandostatin..... 99t
Sandostatin LAR... 99t
Sans-Acne..... 59t
sapropterin..... PDA
saquinavir..... 22b

t = top of page
 m = middle of page
 b = bottom of page
 D, PDA = see page 157

- Sarafem* 137m
sargramostim .. 102b
S.A.S. 98m
Sativex D
Savella 121t
saw palmetto ... 109t
Scopace 91b
scopolamine 91b, 95t
Sculptra D
SeaMist 89t
Sea-Omega 78m
Seasonale 124b
Seasonique 124b
secobarbital PDA
Seconal PDA
SecreFlo 99b
SecreMax 99b
secretin 99b
Sectral 48b
Sedapap 3b
Select 1/35 D
selegiline 121t
selegiline—
 transdermal ... 136b
selenium sulfide .. 66b
Selsun 66b
Selzentry 19m
Semprex-D 85b
senna 97t
sennosides 97b
Senokot 97t
Senokot-S 97b
SenokotXTRA 97t
Sensipar D
Sensorcaine 12m
Septocaine 12m
Septra 33t
Serax 144m
Serc D
Serenoa repens 109t
Serevent Diskus
 149t, 152t
Seromycin PDA
Serophene 125b
Seroquel 142m
Seroquel XR 142m
Serostim 83t
Serostim LQ 83t
Serpasil D
sertaconazole ... 61b
sertraline
 Cardiovascular
 41t
 Psychiatry 138m
sevelamer 78b
sevoflurane PDA
Sevorane PDA
shark cartilage .. 109t
Sibelum 118m
sibutramine 147b
Sidekick 74m
Siladryl 84m
sildenafil
 Cardiovascular
 55t
 Urology 156t
Silvadene 60b
silver sulfadiazine ..
 60b
Silybum marianum ..
 107b
silymarin 107b
simcor 44t
simethicone 89b,
 92b, 95b
Similac 78m
Simulect 113m
simvastatin 43b,
 44tm
sin catechins 63t
Sinemet 120m
Sinemet CR 120m
Sinequan 136m
Singular 150t
Sinupret 105t
sirolimus 113b
sitagliptin .. 70b, 74b
Skelaxin 2m
Skelid D
Sleep-Tite 109b
Slo-Niacin 81t
Slow-Fe 76t
Slow-K 77b
Slow-Mag 77t
Slow-Trasicor 50t
smallpox vaccine .. D
smoking PDA
sodium benzoate ... D
sodium bicarbonate
 153t
Sodium Iodide I-131
 80t
Sodium Iodide I-131
 Therapeutic 80t
sodium nitrite 153m
sodium phenylac-
etate D
sodium phosphate
 Gastroenterology ...
 96b
 Urology 155m
sodium polystyrene
sulfonate 83t
sodium thiosulfate ..
 153m
sodium valproate ...
 116b
Solag 66b
Solage 66b
Solaquin 64b
Solaraze 59b
Solia 124m
solifenacin 155t
Soliris PDA
Solodyn 33b
Soltamax 126b
Solu-Cortef 69t
Solugel 58m
Solu-Medrol 69t
Soma 2t
soma compound ... 3b
soma compound
 with codeine ... 10m
somatropin 83t
Somatuline Depot ...
 PDA
Somavert D
Sominex 84m
Somnote 144b
Sonata 144b
sorafenib 129b
sorbitol 97t
Soriatane 62m
sotalol 41t, 42m
Sotret 59t
soy 109m
Soyalac 78m
Spacol 95t
Spasdel 95t
Spectracef 26b
Spiriva 152tb
spirochetes 23b
spironolactone .. 37t,
 45m
Sporanox 13b
Sprintec D
Sprintec-28 124t
Sprycel 129m
SQV 22b
Sronyx 124m
SSD 60b
SSKI D
Stadol 6m
Stadol NS 6m
Stalevo 120b
standardized extract
 WS 1442—Cra-
 taegutt nov. .. 107t
starch 63b
Starlix 73m
Starnoc 144b
Statex 7b
Statins 43b
stavudine 21t
Stavzor
 Neurology 116b
 Psychiatry 139b
Stay Awake 147t
Stelazine 140b
Stemetil 91b
Sterapred 69b
stevia 109m
Stevia rebaudiana ...
 109m
Stieprox shampoo ...
 60b
Stieva-A 59b
Stimate 82b
stinging nettle
 107b
Strattera 146b
Streptase 55b
streptokinase ... 55b
streptomycin 13t
streptozocin 128b
Striant 67m
Stridex Pads 59m
Stromectol 17m
strontium-89 D
Sublimaze 6b
Suboxone 146t
Subutex 6t
succimer 153t, 154t
succinylcholine
 12b
sucralfate
 ENT 87b
 Gastroenterology ...
 95b
Sudafed 86m
Sudafed 12 H
 86m
Sudafed PE 86m
Sufenta D
sufentanil D
Sular 51t
Sulcrate 95b
Sulf-10 131b

sulfacetamide
 Dermatology .. 58b,
 59t
 Ophthalmology
 132t
 sulfacetamide—
 ophthalmic 131b
 sulfacetamide—
 topical 59m
Sulfacet-R 59m
 sulfadiazine 32b
 sulfadoxine D
Sulfamylon 60t
 sulfasalazine 98m
Sulfatrim 33t
 sulfisoxazole 29b
 sulfonated
 phenolics 87b
 sulfur 58b, 59t
 sulfuric acid 87b
 sulindac 6t
 sumatriptan 117b
Sumycin 33b
 sunitinib
 Cardiovascular
 41t
 Oncology 129m
 sunscreen PDA
Supartz D
SuperEPA 1200 78m
Supeudol 8m
Supprelin LA 129m
Suprane PDA
Suprax 26b
Supro 109m
Surfak 97m
Surgam 6t
Surgam SR 6t
Surmontil PDA
Surpass 75m
Survanta D
Sustiva 20t
Sutent 129m
Swim-EAR 87m
Symax 95t
Symbicort 149m
Symbyax 145t
Symlin 74b
Symlinpen 74b
Symmetrel 22b
Synacort D
Synacthen 74b
Synagis 24b
Synalar 65m
Synalgos-DC 10m
Synarel D
Synera 66b

Synercid 34b
Synphasic D
Syntest D.S. 125m
Syntest H.S. 125m
Synthroid 79b
Synvisc D
Syprine PDA
Systane 135m

T

T-20 19b
T3 79b
T4 79b
Tabloid 129t
 taclonex 62b
 tacrine PDA
 tacrolimus
 Cardiovascular. 41t
 Immunology .. 113b
 tacrolimus—topical
 63m
 tadalafil
 Cardiovascular. 55t
 Urology 156m
Tagamet 92b
Tagamet HB 92b
Talacen 10m
Talwin NX 6m
Tambocor 40b
Tamiflu 23t
Tamofen 126b
Tamone 126b
 tamoxifen
 Cardiovascular .41t
 OB/GYN 126b
 tamsulosin 154m
Tanacetum parthe-
nium L. 105m
Tanafed 85b
Tapazole 79b
 tapentadol 11m
Tarabine 129t
Tarceva 129m
Targretin 129b
Tarka 45t, 47t
TARO-sona D
Tarsum 64m
Tasigna 129m
Tasmar PDA
Tavist-1 84t
Tavist ND 83b
Taxol 129m
Taxotere 129m
 tazarotene 59m
Tazicef 27t
Tazocin 31m

Tazorac 59m
Taztia XT 51m
Td 110m
Tdap 110t
TDF 21t
Tears Naturale 135m
 tea tree oil 109m
Tebrazid 16b
Tecnal 3t
Tecnal C-1/2 9m
Tecnal C-1/4 9m
 tegaserod D
Tegens 103b
Tegretol 114b
Tegretol XR 114b
Tegrin 64m
Tegrin-HC D
Tekturna 47m
Tekturna HCT D
 telbivudine 25m
 telithromycin
 Antimicrobials
 34b
 Cardiovascular
 41t
 telmisartan 38m,
 47t
Telzir 21b
 temazepam 144t
Temodal 128b
Temodar 128b
Temovate 65b
 temozolomide .. 128b
Tempra 11m
 temsirolimus . 129m
 tenecteplase 56t
Tenex 39t
 teniposide 129m
Ten-K 77b
 tenofovir 19b, 21t
Tenoretic 45t, 47t
Tenormin 48b
Tensilon 119m
Tenuate D
Tenuate Dospan D
Terazol 128t
 terazosin 39m
 terbinafine 15t
 terbinafine—topical
 61b
 terbutaline D
 terconazole 128t
 teriparatide 83m
Tesalin 104t
Teslascan 57m
Tessalon 84b
Tessalon Perles 84b

181

Index

t = top of page
 m = middle of page
 b = bottom of page
 D,PDA = see page 157

Tes-Tape 74m
Testim 67m
Testopel 67m
 testosterone 67m
Testred 67t
Testro AQ 67m
 tetanus immune
 globulin 113t
 tetanus toxoid 111m
 tetrabenazine 121m
 tetracaine
 Dermatology
 66mb
 ENT 89m
 tetracaine—
 ophthalmic ... 135b
 tetracycline
 Antimicrobials
 33b
 Gastroenterology...
 93m
Teveten 37m
Teveten HCT 45t, 47t
Tev-Tropin 83t
 thalidomide 129b
Thalitone 52b
Thalomid 129b
Theo-24 152b
Theo-Dur 152b
Theolair 152b
 theophylline 152b
TheraCys 129m
Theroxidil Extra
 Strength 66t
 thiabendazole 18t
 thiamine . 80m, 81t
 thietylperazine 91b
 thioguanine 129t
Thiola PDA
 thiopental 12m
Thioplex 128b
 thioridazine 41t,
 140b, 141b
 thiotepa 128b
 thiothixene 140b,
 141b
Thisylin 107b
 thonzonium 87t

t = top of page

m = middle of page

b = bottom of page

D,PDA = see page 157

- Thorazine*..... 140t
Thrombin-JMI..... D
 thrombin—topical ..
 D
Thrombolytic therapy
 55b
Thyrogen..... PDA
 thyroid—desiccated
 D
Thyroid USP..... D
Thyrolar..... D
Thyrosafe..... D
Thyroshield..... D
*Thyro-Tab*s..... 79b
 thyrotropin alfa .PDA
 tiagabine..... 116b
Tiamol..... D
 tiaprofenic acid.... 6t
Tiazac..... 51m
 ticarcillin-clavulan-
 ate..... 32t
Tice BCG
 Immunology... 110t
 Oncology..... 129m
Ticlid..... 48m
 ticlopidine..... 48m
Tigan..... 91b
 tigecycline..... 34b
Tikosyn..... D
Tilade..... D
Tilia Fe..... 124b
 tiludronate..... D
Timentin..... 32t
Timolide..... 45t, 47t
 timolol
 Cardiovascular ..
 47t
 Ophthalmology ..
 134b
 timolol—ophthal-
 mic..... 133b
Timoptic..... 133b
Timoptic Ocudose...
 133b
Timoptic XE..... 133b
Tinactin..... 61b
Tindamax..... 18t
 tinidazole..... 18t
 tinzaparin..... 101m
 tioconazole..... 128t
 tiopronin..... PDA
 tiotropium..... 152b
 tipranavir..... 22b
 tirofiban..... 48m
Tirosint..... 79b
 tizanidine
 Analgesics..... 2b
 Cardiovascular... 41t
TNKase..... 56t
 tobacco..... PDA
TOBI..... 13t
TobraDex..... 132b
TobraDex ST..... 132b
 tobramycin
 Antimicrobials ..
 13t
 Ophthalmology ..
 132b
 tobramycin—
 ophthalmic... 130b
Tobrex..... 130b
 tocopherol..... 81b
Tofranil..... 136m
Tofranil PM..... 136m
 tolbutamide..... D
 tolcapone..... PDA
Tolectin..... 6t
Tolinase..... D
 tolmetin..... 6t
 tolnaftate..... 61b
 tolterodine
 Cardiovascular ..
 41t
 Urology..... 155t
Topamax
 Neurology..... 116b
 Psychiatry..... 139b
Topicort..... 65b
Topicort LP..... 65t
Topilene Glycol.... D
 topiramate
 Neurology..... 116b
 Psychiatry..... 139b
Toposar..... 129m
 topotecan..... 129b
Toprol-XL..... 49b
Topsyn..... D
Toradol..... 5t
Torecan..... 91b
 toremifene..... 129m
Torisel..... 129m
 torsemide..... 52m
 tositumomab.. 129m
Totect..... 129b
Toviaz..... 154b
tpa..... 55m
t-PA..... 55m
T-Phyl..... 152b
TPV..... 22b
Tracleer..... D
Tracrium..... D
Tramacet..... 3b
 tramadol
 Analgesics..... 3b
 Anesthesia..... 11b
Trandate..... 49m
 trandolapril..... 35b,
 36b, 47t
 tranexamic acid... D
 transdermal
 fentanyl..... 7b
Transderm-Scop... 91b
Transderm-V..... 91b
Tranxene..... 143m
Tranxene SD.... 143m
 tranlycypromine.. 137t
Trasacor..... 50t
 trastuzumab... 129m
Travatan..... 134m
Travatan Z..... 134m
 travoprost..... 134m
 trazodone..... 139m
Treanda..... 128b
Treacator..... PDA
 trefoil..... 108b
Trelstar Depot... 129m
Trental..... 56b
 treprostinil..... D
 tretinoin
 Dermatology ..
 59b, 66b
 Oncology..... 129b
 tretinoin—topical...
 59b
Trexall..... 1b
 treximet..... 117b
Triaderm..... D
 triamcinolone
 Dermatology .. 63b,
 65m
 Endocrine &
 metabolic..... 69b
 triamcinolone—
 inhaled..... 150t
 triamcinolone—
 nasal..... 88b
 triamcinolone—
 topical..... D
 triamcinolone—
 vitreous..... PDA
 triamcinolone MDI...
 151b
Triaminic Chest and
Nasal Congestion... D
Triaminic Cold &
Allergy..... 85m
Triaminic Cough &
Sore Throat..... D
Triaminic Day Time
Cold & Cough..... D
Triaminic Flu Cough
and Fever..... D
Triaminic Night Time
Cold & Cough..... D
Triaminic Oral Infant
Drops..... 86m
 triamterene.. 45b, 47t
Trianal..... 3t
Triatec..... 10m
Triavil..... D
Triazide..... 45t, 47t
 triazolam..... 144m
TriCor..... 44b
Tri-Cyclen..... D
Tridesilon..... 65t
Tridil..... 53m
 trientine..... PDA
Triesence..... PDA
Trisect..... PDA
 trifluoperazine.....
 140b, 141b
 trifluridine..... 132t
Trifolium pratense...
 108b
Triglide..... 44b
Trigonelle foenum-
graecum..... 105m
 trihexyphenidyl ..
 119b
 trihibit..... 111m
Tri-K..... 77b
Trikacide..... 34m
Tri-Legest..... 124b
Tri-Legest Fe.... 124b
Trileptal..... 116t
Tri-Levlen..... 123b,
 124b
TriLipix..... 44b
Trilisate..... 4t
Tri-Luma..... 66b
TriLyte..... 96m
 trimethobenzamide .
 91b
 trimethoprim
 Antimicrobials.. 34b
 Ophthalmology ..
 131b

trimethoprim-sulfamethoxazole... 33t
 trimipramine..... PDA
Trimox..... 30b
Tri-Nasal..... 88b
Trinessa..... 124b
Trinipatch..... 53b
Tri-Norinyl..... 124b
Trinovin..... 108b
Triostat..... 79b
Tripacel..... 110t
Tripedia..... 110t
Triphasil... 123b, 124b
Tri-Previfem..... 124b
 triprolidine..... D
 triptorelin..... 129m
Triquilar..... D
Trisenox..... 129b
Tri-Sprintec..... 124b
Trivaris..... 69b
Trivora..... 123b
Trivora-28..... 124b
 trizivir..... 19b
Tropicacyl..... 135t
 tropicamide..... 135t
Trosec..... 155t
 trospium..... 155t
True Track Smart System..... 74m
Trusopt..... 134t
Truvada..... 19b
 trypan blue..... D
Tryptan..... D
 tryptophan..... D
 tuberculin PPD..... 113b
Tubersol..... 113b
Tucks..... 64t
Tucks Hemorrhoidal Ointment..... 63b
Tucks Suppositories..... 63b
Tuinal..... PDA
Tums..... 75m
Tuss-HC..... D
Tussicaps..... D
Tussionex (c)III.. 85b
Twinject..... 54m
Twin-K..... 77b
 twinrix..... 111b
Tygacil..... 34b
Tykerb..... 129m
Tylenol..... 11m
Tylenol with codeine..... 10m
 tylox..... 10b
Typherix..... 111b

Typhim Vi..... 111b
 typhoid vaccine—
 inactivated
 injection..... 111b
 typhoid vaccine—
 live oral..... 111b
 tyramine-rich foods..... PDA
Tysabri..... D
Tyzeka..... 25m

U

ubiquinone..... 104m
Uloric..... 75t
Ultane..... PDA
Ultiva..... D
Ultracet..... 3b
Ultradol..... 4b
Ultram..... 11b
Ultram ER..... 11b
Ultraquin..... 64b
Ultrathon..... D
Ultravate..... 65b
Ultravist..... 57b
Unasyn..... 31m
Unidol..... 155t
Uniphyll..... 152b
Uniretic..... 45t
Unisom Nighttime Sleep Aid..... 91t
Unithroid..... 79b
Univasc... 35b, 36m
UP446..... 105m
 urea..... 66m
Urecholine..... 155b
Urex..... PDA
Urised..... 155m
Urispas..... D
Urocit-K..... 156b
Urodol..... 155b
 urofollitropin..... D
Urogesic..... 155b
 urokinase..... 56t
Urolene blue... 153b
Uromax..... 154b
Uromitexan..... 129t
Uroquid-acid No. 2.. D
UroXatral..... 154m
URSO..... 99b
 ursodiol..... 99b
URSO Forte..... 99b
Urtica dioica radix... 107b
UTA..... 155m
UTIRA-C..... 155m
UTI Relief..... 155b

V

vaccinia vaccine... D
Vaccinium macrocarpon..... 104b
Vaccinium myrtillus..... 103b
Vagifem..... 122b
Vagistat-1..... 128t
 valacyclovir..... 19t
Valcyte..... 18b
 valerian..... 109b
Valeriana officinalis..... 109b
 valganciclovir... 18b
Valium..... 143b
 valproic acid
 Neurology..... 116b
 Psychiatry..... 139b
 valrubicin..... 129t
 valsartan... 38m, 45b
Valstar..... 129t
Valtacin..... 129t
Valtrex..... 19t
Valtropin..... 83t
Vancenase..... 88t
Vancenase AQ Double Strength..... 88t
Vancocin..... 35t
 vancomycin..... 35t
Vandazole..... 127b
Vaniqa..... 64m
Vanos..... D
Vanspar..... 144m
Vantas..... 129m
Vantin..... 27t
Vaponefrin..... 152m
Vaprisol..... D
Vaqta..... 110m
 vardenafil
 Cardiovascular..... 41t
 Urology..... 146m
 varencicline..... 146t
 varicella vaccine..... 111mb
 varicella-zoster
 immune globulin .. 113m
Varilrix..... 111b
VariZIG..... 113m
Vascoray..... 58t
Vaseretic... 45t, 47m
Vasocidin..... 132b
Vasocon-A..... 130t

Index

t = top of page
 m = middle of page
 b = bottom of page
 D,PDA = see page 157

Vasodilan..... D
 vasopressin..... 83m
Vasotec..... 35b, 36t
Vaxigrip..... 110b
Va-Zone..... 118m
VCR..... 129m
Vectibix..... 129m
 vecuronium..... 12b
Veetids..... 30m
Velban..... 129m
Velcade..... 129b
Velivet..... 124b
Venastat..... 107t
 venlafaxine
 Cardiovascular..... 41t
 Psychiatry..... 138b
Venofor..... 77t
Venoglobulin.. 112m
Ventavis..... D
Ventolin HFA... 148t, 152t
VePesid..... 129m
Veramil..... 51b
Veramyst..... 88m
 verapamil... 47t, 51b
Verdeso..... 65t
Veregen..... 63t
Verelan..... 51b
Verelan PM..... 51b
Vermax..... 17m
Versed..... 12t
Versel..... 66b
 versenate..... D
 verteporfin..... D
Vesanoid..... 129b
VESIcare..... 155t
 vetch..... 103b
Vexol..... 133m
Vfend..... 14t
Viactiv..... 75m
Viadur..... 129m
Viagra..... 156t
Vibramycin..... 33m
Vibra-Tabs..... 33m
Vick's 44 Cough... 84b
Vicks Sinex..... 89t

t = top of page
m = middle of page
b = bottom of page
D,PDA = see page 157

Vicks Sinex 12 Hr...... 89t
Vicodin..... 10b
Vicoprofen..... 10b
Vidaza..... 129t
Videx..... 20b
Videx EC..... 20b
vigabatrin..... D
Vigamox..... 131m
Vimpat..... 115m
vinblastine..... 129m
Vincasar..... 129m
vincristine..... 129m
vinorelbine..... 129m
Viokase..... 99m
Viracept..... 22m
Viramune..... 20m
Virazole..... 25t
Viread..... 21t
Virilon..... 67t
Viroptic..... 132t
visicol..... 41t
Visicol..... 96b
Vision Blue..... D
Visipaque..... 57b
Visken..... 50t
Vistaril..... 84b
Vistide..... 18m
Visudyne..... D
vitamin A..... 82t
Vitamin A Acid Cream..... 59b
vitamin B1..... 81b
vitamin B2..... 81b
vitamin B3..... 81t
vitamin B6..... 81b
vitamin B12..... 80t
vitamin C..... 80t
vitamin D..... 82t
vitamin D2..... 82t
vitamin E..... 81b
vitamin K
 Endocrine &
 metabolic..... 81b
 Toxicology..... 153t
Vitex agnus castus fruit extract..... 104m

Vitis vinifera L...... 106b
Vivactil..... 136m
Vivaglobulin..... 112m
Vivarin..... 147t
Vivelle..... 122b
Vivelle Dot..... 122b
Vivitrol..... 145m
Vivol..... 143b
Vivotif Berna..... 111b
VLB..... 129m
VM-26..... 129m
VMA extract..... 103b
Voltaren
 Analgesics..... 4m
 Dermatology..... 59b
 Ophthalmology.....
 135t
Voltaren Ophtha.....
 135t
Voltaren Rapide.....
 4m
Voltaren XR..... 4m
voriconazole
 Antimicrobials..... 14t
 Cardiovascular.....
 41t
vorinostat
 Cardiovascular.....
 41t
 Oncology..... 129b
VoSol HC..... 87m
VoSpire ER..... 148t
VP-16..... 129m
VSL#3..... 108t
Vumon..... 129m
Vusion..... 66b
Vytorin..... 44m
Vyvanse..... 147m
VZIG..... 113m

W

warfarin..... 102t
Wartec..... 63t
Welchol..... 42b
Wellbutrin..... 138b
Wellbutrin SR..... 138b
Wellbutrin XL..... 138b
Wellcovorin..... 129b
Westcort..... 65m
white petrolatum.....
 66b
wild yam..... 109b
willow bark extract.....
 109b
Winpred..... 69b

WinRho SDF..... 128m
witch hazel..... 64t
wolf's bane..... 103b
Women's Rogaine.....
 66t
Women's Tylenol Menstrual Relief.....
 11b
Wycillin..... 30m
Wygesic..... 10b
Wytensin..... D

X

Xalatan..... 134m
Xanax..... 144m
Xanax XR..... 144m
Xatral..... 154m
Xeloda..... 129t
Xenazine..... 121m
Xenical..... 99m
Xibrom..... 135t
Xifaxan..... 34b
Xigris..... 34t
Xodol..... 11t
Xolair..... D
Xolegel..... 61t
Xopenex..... 148m
Xopenex HFA..... 148m,
 152t
Xuezhikang..... 108b
Xylocaine
 Anesthesia..... 12b
 Cardiovascular.....
 41b
 Dermatology..... 64b
 ENT..... 87b
Xylocard..... 41b
Xyntha..... D
Xyrem..... 121m
Xyzal..... 84b

Y

Yasmin..... 124m
Yaz..... 124m
yellow fever vaccine
 111b
YF-Vax..... 111b
Yocon..... 156b
Yodoxin..... PDA
yohimbe..... 109b
yohimbine..... 156b
Yohimex..... 156b

Z

Zaditen..... 152m
Zaditor..... 130m
zafirlukast..... 150m
zaleplon..... 144b
Zanaflex..... 2b
zanamivir..... 24t
Zanosar..... 128b
Zantac..... 93m
Zantac 25..... 93m
Zantac 75..... 93m
Zantac 150..... 93m
Zarontin..... 115t
Zaroxolyn..... 53t
Zavesca..... PDA
ZDV..... 21t
ZE 339..... 104t
ZeaSorb AF..... 61m
Zebeta..... 49t
Zegerid..... 94b
Zelapar..... 121t
Zelnorm..... D
Zemaira..... D
Zemplar..... 81m
Zemuron..... 12b
Zenapax..... 113b
Zephrex-LA..... D
Zerit..... 21t
Zestoretic..... 45t, 47m
Zestril..... 35b, 36m
Zetia..... 44b
Zevalin..... 129m
Zhibituo..... 108b
Ziac..... 45t, 47m
Ziagen..... 20m
Ziana..... 59b
ziconotide..... PDA
zidovudine..... 19b, 21t
zileuton..... 150m
Zinacef..... 26m
zinc acetate..... 78t
Zincate..... 78t
zinc oxide..... 66b
zinc sulfate..... 78t
Zinecard..... 129t
Zingiber officinale.....
 105b
Zingo..... 64b
ziprasidone
 Cardiovascular.....
 41t
 Psychiatry..... 141b,
 143t
Zipsor..... 4m

Zithromax..... 27b
Zmax..... 27b
Zocor..... 44t
Zofran..... 90m
Zoladex..... 129t
 zoledronic acid.....
 68m
Zolinza..... 129b
 zolmitriptan..... 117b
Zoloff..... 138m
 zolpidem..... 144b
 zolpimist..... 144b
Zometa..... 68m
Zomig..... 117b
Zomig ZMT..... 117b
Zonalon..... 64m
Zonegran..... 117m
 zonisamide..... 117m
 zopiclone..... 145t
Zorbtive..... 83t
Zorcaine..... 12m
Zorprin..... 4t
Zostavax..... 111b
 zoster vaccine—live
 111b
Zostrix..... 64t
Zostrix-HP..... 64t
Zovia..... D

Zovia 1/35E..... 124t
Zovia 1/50E..... 124t
Zovirax
 Antimicrobials.....
 18b
 Dermatology ... 62b
 zuclopenthixol..... D
Zyban..... 138b
Zydane..... 11t
Zyflo CR..... 150m
Zylet..... 132b
Zyloprim..... 75t
Zymar..... 131t
Zyprexa..... 142t

185 Index t = top of page m = middle of page b = bottom of page D,PDA = see page 157
--

Zyprexa Zydys.....
 142t
Zyrtec..... 84t
Zyrtec-D..... D
Zyvox..... 34m
Zyvoxam..... 34m

APPENDIX

ADULT EMERGENCY DRUGS (selected)

ALLERGY	diphenhydramine (<i>Benadryl</i>): 50 mg IV/IM. epinephrine: 0.1-0.5 mg IM (1:1000 solution), may repeat after 20 minutes. methylprednisolone (<i>Solu-Medrol</i>): 125 mg IV/IM.
HYPERTENSION	esmolol (<i>Brevibloc</i>): 500 mcg/kg IV over 1 minute, then titrate 50-200 mcg/kg/minute fenoldopam (<i>Corlopan</i>): Start 0.1 mcg/kg/min, titrate up to 1.6 mcg/kg/min labetalol (<i>Normodyne</i>): Start 20 mg slow IV, then 40-80 mg IV q10 min prn up to 300 mg total cumulative dose nitroglycerin (<i>Tridil</i>): Start 10-20 mcg/min IV infusion, then titrate prn up to 100 mcg/minute nitroprusside (<i>Nipride</i>): Start 0.3 mcg/kg/min IV infusion, then titrate prn up to 10 mcg/kg/minute
DYSRHYTHMIAS / ARREST	adenosine (<i>Adenocard</i>): PSVT (not A-fib): 6 mg rapid IV & flush, preferably through a central line or proximal IV. If no response after 1-2 minutes then 12 mg. A third dose of 12 mg may be given prn. amiodarone (<i>Cordarone</i> , <i>Pacerone</i>): V-fib or pulseless V-tach: 300 mg IV/IO; may repeat 150 mg just once. Life-threatening ventricular arrhythmia: Load 150 mg IV over 10 min, then 1 mg/min x 6h, then 0.5 mg/min x 18h. atropine: 0.5 mg IV, repeat prn to maximum of 3 mg. diltiazem (<i>Cardizem</i>): Rapid A-fib: bolus 0.25 mg/kg or 20 mg IV over 2 min. May repeat 0.35 mg/kg or 25 mg 15 min after 1 st dose. Infusion 5-15 mg/h. epinephrine: 1 mg IV/IO q3-5 minutes for cardiac arrest. [1:10,000 solution] lidocaine (<i>Xylocaine</i>): Load 1 mg/kg IV, then 0.5 mg/kg q8-10min prn to max 3 mg/kg. Maintenance 2g in 250ml D5W (8 mg/ml) at 1-4 mg/min drip (7-30 ml/h).
PRESSORS	dobutamine (<i>Dobutrex</i>): 2-20 mcg/kg/min. 70 kg: 5 mcg/kg/min with 1 mg/mL concentration (eg, 250 mg in 250 mL D5W) = 21 mL/h. dopamine (<i>Intropin</i>): Pressor: Start at 5 mcg/kg/min, increase prn by 5-10 mcg/kg/min increments at 10 min intervals, max 50 mcg/kg/min. 70 kg: 5 mcg/kg/min with 1600 mcg/mL concentration (eg, 400 mg in 250 ml D5W) = 13 mL/h. Doses in mcg/kg/min: 2-4 = (traditional renal dose, apparently ineffective) dopaminergic receptors; 5-10 = (cardiac dose) dopaminergic and beta1 receptors; >10 = dopaminergic, beta1, and alpha1 receptors. norepinephrine (<i>Levophed</i>): 4 mg in 500 ml D5W (8 mcg/ml) at 2-4 mcg/min. 22.5 ml/h = 3 mcg/min. phenylephrine (<i>Neo-Synephrine</i>): 50 mcg boluses IV. Infusion for hypotension: 20 mg in 250ml D5W (80 mcg/ml) at 40-180 mcg/min (35-160ml/h).
INTUBATION	etomidate (<i>Amidate</i>): 0.3 mg/kg IV. methohexital (<i>Brevital</i>): 1-1.5 mg/kg IV. propofol (<i>Diprivan</i>): 2.0-2.5 mg/kg IV. rocuronium (<i>Zemuron</i>): 0.6-1.2 mg/kg IV. succinylcholine (<i>Anectine</i>): 1 mg/kg IV. Peds (<5 yo): 2 mg/kg IV. thiopental (<i>Pentothal</i>): 3-5 mg/kg IV.
SEIZURES	diazepam (<i>Valium</i>): 5-10 mg IV, or 0.2-0.5 mg/kg rectal gel up to 20 mg PR. fosphenytoin (<i>Cerebyx</i>): Load 15-20 "phenytoin equivalents" per kg either IM, or IV no faster than 100-150 mg/min. lorazepam (<i>Ativan</i>): 0.05-0.15 mg/kg up to 3-4 mg IV/IM. phenobarbital: 200-600 mg IV at rate ≤60 mg/min; titrate prn up to 20 mg/kg phenytoin (<i>Dilantin</i>): 15-20 mg/kg up to 1000 mg IV no faster than 50 mg/min.

CARDIAC DYSRHYTHMIA PROTOCOLS (for adults and adolescents)

Chest compressions ~100/minute. Ventilations 8-10/minute if intubated; otherwise 30:2 compression/ventilation ratio. Drugs that can be administered down ET tube (use 2-2.5 x usual dose): epinephrine, atropine, lidocaine, naloxone.

V-Fib, Pulseless V-Tach

Airway, oxygen, CPR until defibrillator ready

Defibrillate 360 J (old monophasic), 120-200 J (biphasic), or with AED

Resume CPR x 2 minutes (5 cycles)

Repeat defibrillation if no response

Vasopressor during CPR:

- Epinephrine 1 mg IV/IO q3-5 minutes, or

Rhythm/pulse check every ~2 minutes

Consider antiarrhythmic during CPR:

- Amiodarone 300 mg IV/IO; may repeat 150 mg just once
- Lidocaine 1.0-1.5 mg/kg IV/IO, then repeat 0.5-0.75 mg/kg to max 3 doses or 3 mg/kg
- Magnesium sulfate 1-2 g IV/IO if suspect torsade de pointes

Asystole or Pulseless Electrical Activity (PEA)

Airway, oxygen, CPR

Vasopressor (when IV/IO access):

- Epinephrine 1 mg IV/IO q3-5 minutes, or

Consider atropine 1 mg IV/IO for asystole or slow PEA. Repeat q3-5 min up to 3 doses.

Rhythm/pulse check every ~2 minutes

Consider 6 H's: hypovolemia, hypoxia, H⁺ acidosis, hyper / hypokalemia, hypoglycemia, hypothermia

Consider 5 T's: Toxins, tamponade-cardiac, tension pneumothorax, thrombosis (coronary or pulmonary), trauma

Bradycardia, <60 bpm and Inadequate Perfusion

Airway, oxygen, IV

Prepare for transcutaneous pacing; don't delay if advanced heart block

Consider atropine 0.5 mg IV; may

repeat q3-5 min to max 3 mg

Consider epinephrine (2-10 mcg/min) or dopamine (2-10 mcg/kg/min)

Prepare for transvenous pacing

Tachycardia with Pulses

Airway, oxygen, IV

If unstable and heart rate >150 bpm,

then synchronized cardioversion

If stable narrow-QRS (<120 ms):

- Regular: Attempt vagal maneuvers. If no success, adenosine 6 mg IV, then 12 mg prn (may repeat x 1)
- Irregular: Control rate with diltiazem or beta blocker (caution in CHF or severe obstructive pulmonary disease).

If stable wide-QRS (>120 ms):

- Regular and suspect V-tach: Amiodarone 150 mg IV over 10 min; repeat prn to max 2.2 g/24 h. Prepare for elective synchronized cardioversion.
- Regular and suspect SVT with aberrancy: adenosine as per narrow-QRS above.
- Irregular and A-fib: Control rate with diltiazem or beta blocker (caution in CHF/severe obstructive pulmonary disease).
- Irregular and A-fib with pre-excitation (WPW): Avoid AV nodal blocking agents; consider amiodarone 150 mg IV over 10 minutes.
- Irregular and torsade de pointes: magnesium 1-2 g IV load over 5-60 minutes, then infusion.

bpm=beats per minute; CPR=cardiopulmonary resuscitation; ET=endotracheal; IO=intraosseous; J=Joules; ms=milliseconds; WPW=Wolf-Parkinson-White. Sources *Circulation* 2005; 112, suppl IV; *NEJM* 2008; 359:21-30

Antiviral Drugs for 2009 Influenza A (H1N1)	Treatment* (Duration of 5 days)	Prevention (Duration of 10 days post-exposure)
OSELTAMIVIR (<i>Tamiflu</i>)		
Adults and adolescents age 13 years and older		
	75 mg PO bid	75 mg PO once daily
Children, 1 year of age and older†		
Body weight ≤15 kg	30 mg PO bid	30 mg PO once daily
Body weight >15 to 23 kg	45 mg PO bid	45 mg PO once daily
Body weight >23 to 40 kg	60 mg PO bid	60 mg PO once daily
Body weight >40 kg	75 mg PO bid	75 mg PO once daily
Infants, newborn to 11 months of age†		
Age 6 to 11 months old	25 mg PO bid	25 mg PO once daily
Age 3 to 5 months old	20 mg PO bid	20 mg PO once daily
Age less than 3 months old	12 mg PO bid	Not for routine prophylaxis in infants <3 mo
ZANAMIVIR (<i>Relenza</i>)§		
Adults and children (age 7 years and older for treatment, age 5 years of age and older for prophylaxis)		
	10 mg (two 5-mg inhalations) bid	10 mg (two 5-mg inhalations) once daily

Adapted from <http://www.cdc.gov/h1n1flu/recommendations.htm>

*Start treatment as soon as possible; benefit is greatest when started within 2 days of symptom onset. Hospitalized patients with severe infection might require treatment for longer than 5 days.

†A dosing syringe with graduations of 30, 45, and 60 mg is provided with *Tamiflu* oral suspension. The 75 mg dose can be measured by combining 30 mg and 45 mg. For infants less than 1 year old, a different oral syringe must be used to measure the dose. The concentration of oseltamivir differs between commercial *Tamiflu* suspension (12 mg/mL) and pharmacist-compounded suspension (15 mg/mL). Capsules can be opened and mixed with sweetened fluids.

§Zanamivir should not be used by patients with underlying pulmonary disease. Do not attempt to use *Relenza* in a nebulizer or ventilator; lactose in the formulation may cause the device to malfunction.

2009 Influenza A (H1N1) Monovalent Vaccine	Indications/Dose
Parenteral Vaccines	
CSL Limited (mfr)	Adults 18 yo or older: 0.5 mL IM
Novartis (mfr)	Age 4 to 9 yo: 0.5 mL IM; repeat dose at least 28 days later Age 10 or older: 0.5 mL IM
Sanofi Pasteur (mfr)	Age 6 to 35 mo: 0.25 mL IM; repeat dose at least 28 days later Age 4 to 9 yo: 0.5 mL IM; repeat dose at least 28 days later Age 10 or older: 0.5 mL IM
Intranasal Vaccine (Live)*	
MedImmune (mfr)	Age 2 to 9 yo: 0.2 mL intranasal; repeat dose at least 28 days later Age 10 to 49 yo: 0.2 mL intranasal (dose is administered as 0.1 mL per nostril)

*Influenza antiviral drugs might inhibit replication of live influenza vaccine virus. Avoid antivirals from 48 hours before until 2 weeks after a dose of live intranasal influenza vaccine unless medically necessary.

Primary Care/Internal Medicine

Tarascon Pocket Pharmacopoe 24th Edition 2010 Classic Shirt-Pocket Edition

Free Web
Access
Details
Inside

The *Pocket Pharmacopoeia* tied with the stethoscope as the most essential item in resident physicians' white coat pockets, with 97% rating the reference as either "very useful" or "essential."

—from *The Annals of Internal Medicine*

For more information on all Tarascon products, go to:

www.tarascon.com



Jones and Bartlett Publishers
40 Tall Pine Drive
Sudbury, MA 01776
978-443-5000
info@jbpub.com
www.jbpub.com

US \$15.95

ISSN 978-0-7637-7439-4



5 1 5 9 5



9 780763 774394