

Basic Resources for Pharmacy Education

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A Service Project of the

Library and Information Sciences Section of the

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Edited by Jason Guy and Ivan Portillo

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Basic Resources for Pharmacy Education is produced as a guide for those who manage library collections that serve colleges of pharmacy. This list contains recommendations for works to be included in pharmacy library collections. The books and other works recommended in the Basic Resources are suitable for all pharmacy college libraries, but all pharmacy college libraries need not purchase every title in the list. Each pharmacy college has its own mission and its own program(s), and so each college's library collection must reflect that mission and support the college's program(s). Excellent library collections are built by knowledgeable librarians using their professional judgment along with the expertise of the college's faculty. Basic Resources, therefore, should not be used as a benchmark and is not prescriptive, but is instead a starting place for librarians who are building a new collection or maintaining an established one.

Producing Basic Resources is a community effort. Each subject section is reviewed every three years by a contributor who makes suggestions for additions and deletions. Then, the editors compile the recommended additions and deletions for that review cycle and an advisory panel of pharmacy librarians and faculty members vote on the suggested changes. Approved changes are subsequently incorporated into the list's database. There are two review cycles each year so that two sets of sections are reviewed during the course of one year. Our goal is to review the entire list every three years and to publish Basic Resources semiannually. **Sections updated since the last (July 2019) edition are A.4.0 MICROBIOLOGY, C.0 MEDICAL SCIENCES, C.1 ANATOMY, D.3.e PARENTERALS, E.3.c INTERPROFESSIONAL EDUCATION, X.1.0 HISTORY, X.2.0 INFORMATICS, X.2.a BIBLIOGRAPHIES, X.4.0 METHODOLOGY, STATISTICS, AND RESEARCH DESIGN, and X.4.a QUALITY ASSURANCE.**

We welcome volunteers, either to contribute to Basic Resources by reviewing sections or to serve on our advisory panel, or both. For more information about how the list is maintained or to volunteer to work on it, please contact Jason Guy (guyj@findlay.edu) or Ivan Portillo (iportillo@chapman.edu).

Subject Classification of the Basic Resources for Pharmacy Education

A.0 BASIC SCIENCES

A.1. GENERAL CHEMISTRY

A.2 BIOCHEMISTRY (See also B.1 MEDICINAL CHEMISTRY)

A.3 IMMUNOLOGY

A.4.0 MICROBIOLOGY

A.4.a MOLECULAR BIOLOGY AND BIOTECHNOLOGY

B.0 PHARMACEUTICAL SCIENCES

B.1 MEDICINAL CHEMISTRY

B.2 PHARMACOGNOSY AND NATURAL PRODUCTS (see also D.3.C NUTRITION AND NUTRACEUTICALS)

B.3.0 PHARMACEUTICS

B.3.a BIOPHARMACEUTICS AND PHARMACOKINETICS

B.4.0 DRUG DESIGN, DISCOVERY, AND DEVELOPMENT (see also B.5.0 INDUSTRIAL)

B.5.0 INDUSTRIAL

B.6.0 COSMETICS

B.7.0 NUCLEAR AND RADIOPHARMACY

B.8.0 PHARMACOLOGY

B.8.a.0 TOXICOLOGY

B.8.a.1 DRUG ADVERSE REACTIONS, INTERACTIONS, AND SIDE EFFECTS (see also D.3.0 THERAPETUICS)

B.8.b VETERINARY PHARMACOLOGY

B.9 PHARMACOGENETICS & PHARMACOGENOMICS

C.0 MEDICAL SCIENCES

C.1 ANATOMY AND PHYSIOLOGY

D.0 CLINICAL SCIENCES

D.1 PATHOPHYSIOLOGY

D.2 PATIENT PHYSICAL ASSESSMENT

D.3.0 THERAPEUTICS

D.3.a GERIATRICS

D.3.b NEUROLOGY

D.3.c NUTRITION AND NUTRACEUTICALS

D.3.d ONCOLOGY AND HEMATOLOGY

D.3.e PARENTERALS

D.3.f PEDIATRICS

D.3.g PSYCHIATRY

- D.0 CLINICAL SCIENCES (continued)**
 - D.3.0 THERAPEUTICS (continued)**
 - D.3.h SUBSTANCE ABUSE**
 - D.3.i SURGERY**
 - D.3.j PREGNANCY AND LACTATION**
 - D.4. ALTERNATIVE MEDICINE**
- E.0 PHARMACEUTICAL CARE (SOCIAL, BEHAVIORAL, AND ADMINISTRATIVE PHARMACY)**
 - E.1.0 HEALTH CARE POLICY, SYSTEMS AND SERVICES**
 - E.1.a EPIDEMIOLOGY**
 - E.1.b PHARMACOECONOMICS**
 - E.2.0 PATIENT-RELATED ACTIVITIES**
 - E.2.a DISEASE STATE MANAGEMENT**
 - E.2.b SELF CARE (OTCs)**
 - E.3.0 PHARMACISTS' PROFESSIONAL DEVELOPMENT**
 - E.3.a COMMUNICATION SKILLS**
 - E.3.b EDUCATION**
 - E.3.c INTERPROFESSIONAL EDUCATION**
 - E.3.d CULTURAL COMPETENCY**
 - E.4.0 PROFESSIONAL PRACTICE**
 - E.4.a COMMUNITY PHARMACY**
 - E.4.b HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY**
 - E.4.c HOME HEALTH CARE**
 - E.4.d MANAGED CARE**
- X.1.0 HISTORY†**
 - X.1.a CLASSICS†**
- X.2.0 INFORMATICS†**
 - X.2.a BIBLIOGRAPHIES AND LITERATURE GUIDES†**
 - X.2.b HANDBOOKS AND DICTIONARIES†**
 - X.2.c EVIDENCE-BASED PRACTICE†**
- X.3 LAWS, LEGISLATION, REGULATIONS, AND ETHICS†**
- X.4.0 METHODOLOGY, STATISTICS, AND RESEARCH DESIGN†**
 - X.4.a QUALITY ASSURANCE†**
- X.5 DIRECTORIES†**

†The classifications beginning with 'X' may also be used as subdivisions of other classifications.
Examples: A.2 - X.4.0 BIOCHEMISTRY - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN

Basic Resources for Pharmacy Education

A.0 - X.6.1.c BASIC SCIENCES - ONLINE ABSTRACTS AND INDEXES

Biological Abstracts. Clarivate Analytics. URL: http://wokinfo.com/products_tools/specialized/ba/

BIOSIS previews. Clarivate Analytics, updated weekly. URL: http://wokinfo.com/products_tools/specialized/bp/

SciFinder. Chemical Abstracts Service. Available in a variety of formats and at various prices. Print title: Chemical abstracts. URL: <http://www.cas.org/products/scifinder>

Web of Science. Clarivate Analytics, updated weekly. Available in a variety of formats and at various prices. Also known as SciSearch. URL: <https://clarivate.com/products/web-of-science/>

A.1 GENERAL CHEMISTRY

Tro, Nivaldo J. Chemistry: a molecular approach. 4th ed. Boston, MA: Pearson, 2017. ISBN: 9780134112831. \$301.00.

Vančik, Hrvoj. Basic organic chemistry for the life sciences. New York: Springer, 2014. ISBN: 9783319076041. \$69.99.

A.1 - X.2.b GENERAL CHEMISTRY - HANDBOOKS AND DICTIONARIES

CRC handbook of chemistry and physics. Boca Raton, FL: CRC, annual. ISSN: 0147-6262. \$229.95.

A.1 - X.7 GENERAL CHEMISTRY - WEB SITES

PubChem. Bethesda: National Center for Biotechnology Information and the National Library of Medicine, updated daily. URL: <http://pubchem.ncbi.nlm.nih.gov/>

A.2 BIOCHEMISTRY

Berg, Jeremy; Gatto, Gregory J.; Tymoczko, John L., et al. Biochemistry. 8th ed. New York: W. H. Freeman, 2015. ISBN: 9781464126109. \$272.99.

Harper's illustrated biochemistry. 31st ed. New York: McGraw-Hill; 2018. ISBN: 9781259837937. \$89.00.

*Lehninger principles of biochemistry. 7th ed. New York: W.H. Freeman; 2017. ISBN: 9781464126116. \$272.99.

Voet, Donald; Voet, Judith G.; Pratt, Charlotte W. Fundamentals of biochemistry: life at the molecular level. 5th ed. Hoboken, New Jersey: Wiley, 2016. ISBN: 9781118918401. \$285.95.

*Title recommended for first purchase.

A.3 IMMUNOLOGY

*Adkinson, N. Franklin Jr.; Bochner, Bruce S.; Burks, A. Wesley, et al., eds. Middleton's allergy: principles and practice. 8th ed. Philadelphia, PA: Saunders; 2014. ISBN: 9780323085939. \$379.00.

Centers for Disease Control and Prevention; and Brunette, Gary W., eds. CDC health information for international travel 2018: the yellow book. New York: Oxford University Press; 2017. ISBN: 9780190628611. \$49.00 Free online.

Centers for Disease Control and Prevention; Atkinson, William; Wolfe, S., et al., eds. Epidemiology and prevention of vaccine-preventable diseases: the pink book. 13th ed. Washington, D.C.: Public Health Foundation; 2015. ISBN: 9780017066084. \$40.00. Free online: <http://www.cdc.gov/vaccines/pubs/pinkbook/index.html>.

Delves, Peter. J.; Martin, Seamus J.; Burton, Dennis R.; and Roitt, Ivan M. Roitt's essential immunology. 13th ed. Hoboken, NJ: John Wiley & Sons, 2017. ISBN: 9781118415771. \$75.00.

Flaherty, Dennis. Immunology for pharmacy. St. Louis, MO: Elsevier 2012. ISBN: 9780323069472. \$91.95.

*Geha, Raif; and Notarangelo, Luigi. Case studies in immunology: a clinical companion. 7th ed. New York: Garland Science, Taylor & Francis Group, 2016. ISBN: 9780815345121. \$61.95.

Murphy, Ken; and Weaver, Casey, eds. Janeway's immunobiology. 9th ed. New York: Garland Science, Taylor & Francis Group; 2016. ISBN: 9780815345053. \$130.00.

O'hehir, Robyn E.; Holgate, Stephen T.; and Sheikh, Aziz, ed. Middleton's allergy essentials. Philadelphia, PA: Elsevier; 2017. ISBN: 9780323375795. \$120.00.

O'hehir, Robyn E.; Holgate, Stephen T.; and Sheikh, Aziz, ed. Middleton's allergy essentials. Philadelphia, PA: Elsevier; 2017. ISBN: 9780323375795. \$120.00.

Rose, Noel R.; and Mackay, Ian R., eds. The autoimmune diseases. 5th ed. San Diego, CA: Academic Press; 2014. ISBN: 9780123849298. \$225.00.

Sunshine, Geoffrey H.; and Coico, Richard. Immunology: a short course. 7th ed. New York: Wiley-Blackwell, 2015. ISBN: 9781118396919. \$62.95.

A.4.0 MICROBIOLOGY

*American Academy of Pediatrics. Committee on Infectious Diseases, ed. Red book: 2015 report of the Committee on Infectious Diseases. 30th ed. Elk Grove Village, IL: The Academy; 2015. ISBN: 9781581109269. \$149.95.

Davey, Peter. Antimicrobial chemotherapy. 7th ed. New York: Oxford University Press, 2015. ISBN: 9780199697656. \$75.00.

Handbook of antimicrobial therapy. 19th ed. New Rochelle, NY: Medical Letter; 2011. ISBN: 9780971909380. \$49.00

Harriet Lane handbook of pediatric antimicrobial therapy. Philadelphia: Mosby, Elsevier; 2013. ISBN: 9780323087230. \$26.95.

*Title recommended for first purchase.

Hugo and Russell's pharmaceutical microbiology. 8th ed. Hoboken, NJ: John Wiley & Sons, 2011. ISBN: 9781444330632. \$87.95.

*Jawetz, Melnick & Adelberg's medical microbiology. 27th ed. New York: McGraw-Hill; 2015. ISBN: 97800071824989. \$75.00.

Sherris medical microbiology. 6th ed. New York: McGraw-Hill; 2014. ISBN: 9780071818216. \$95.00.

A.4.0 - X.4.0 MICROBIOLOGY-METHODOLOGY, STATISTICS AND RESEARCH DESIGN

Bacteriological analytical manual online. Washington, DC: Center for Food Safety and Applied Nutrition, U.S. Food and Drug Administration, 1998-. URL: <http://www.fda.gov/Food/FoodScienceResearch/LaboratoryMethods/ucm2006949.htm>

A.4.a MOLECULAR BIOLOGY AND BIOTECHNOLOGY

Alberts, Bruce; Johnson, Alexander; Lewis, Julian, et al. Molecular biology of the cell. 6th ed. NY: W. W. Norton, 2015. ISBN: 9780815344322. \$209.00.

Glick, Bernard R; and Patten, Cheryl. Molecular biotechnology: principles and applications of recombinant DNA. 5th ed. Washington, DC: ASM Press, 2017. ISBN: 9781555819361. \$125.00.

Lodish, Harvey F.; Berk, Arnold; Kaiser, Chris A. Molecular cell biology. 8th ed. NY: W.H. Freeman, 2016. ISBN: 9781464183393. \$249.99.

Renneberg, Reinhard; Berkling, Viola; and Loroach, Vanya. Biotechnology for beginners. 2nd ed. Cambridge, MA: Academic Press, 2017. ISBN: 9780128012246. \$100.00.

A.4.a - X.2.b MOLECULAR BIOLOGY AND BIOTECHNOLOGY - HANDBOOKS AND DICTIONARIES

Lackie, John M., ed. The dictionary of cell and molecular biology. 5th ed. Philadelphia, PA: Elsevier; 2013. ISBN: 9780123849311. \$89.95.

A.4.a. - X.7 MOLECULAR BIOLOGY AND BIOTECHNOLOGY – WEB SITES

National Center for Biotechnology Information. Bethesda, MD: The Center, National Library of Medicine. URL: <http://www.ncbi.nlm.nih.gov/>

B.0 - PHARMACEUTICAL SCIENCES

Swarbrick, James, ed. Encyclopedia of pharmaceutical science and technology. 4th ed. Boca Raton: CRC Press; 2013. ISBN: 9781841848198. \$2975.40.

Pandit, Nita K.; Soltis, Robert P. Introduction to the pharmaceutical sciences: an integrated approach. 2nd ed. Baltimore: Wolters Kluwer Health/LWW, 2011. ISBN: 9781609130015. \$79.99.

*Title recommended for first purchase.

B.0 - X.6.1.c PHARMACEUTICAL SCIENCES - ONLINE ABSTRACTS AND INDEXES

IPA: international pharmaceutical abstracts. Thomson Reuters. Distributed electronically on various vendor platforms. URL: http://thomsonreuters.com/products_services/science/science_products/a-z/ipa/

B.0 - X.7 PHARMACEUTICAL SCIENCES - WEB SITES

American Association of Pharmaceutical Scientists. URL: <http://www.aaps.org>

B.1 MEDICINAL CHEMISTRY

Annual reports in medicinal chemistry. Boston: Academic; annual 2011, vol. 46, \$161.00.

*Burger's medicinal chemistry and drug discovery. 7th ed. Hoboken, NJ: Wiley; 2010. ISBN: 9780470278154. Vols. 1-8, \$2100.00.

Cairns, Donald. Essentials of pharmaceutical chemistry. 4th ed. London, England: Pharmaceutical Press, 2012. ISBN: 9780853699798. \$63.00.

*Foye's principles of medicinal chemistry. 7th ed. Philadelphia: Lippincott Williams & Wilkins; 2013. ISBN: 9781609133450. \$92.95.

Lemke, Thomas L. Review of organic functional groups: introduction to medicinal organic chemistry. 5th ed. Philadelphia: Lippincott Williams & Wilkins, 2012. ISBN: 9781608310166. \$69.95.

Patrick, Graham L. An introduction to medicinal chemistry. 6th ed. New York: Oxford University, 2017. ISBN: 9780198749691. \$64.95.

Wilson and Gisvold's textbook of organic medicinal and pharmaceutical chemistry. 12th ed. Baltimore: Lippincott Williams & Wilkins; 2011. ISBN: 9780781779296. \$92.50.

B.1 - X.1.a MEDICINAL CHEMISTRY - CLASSICS

Negwer, Martin. Organic-chemical drugs and their synonyms. 9th ed. New York: Wiley-VCH, 2007. ISBN: 3527319395. \$2850.00. Available online through Wiley (continuously updated)

B.1 - X.4.0 MEDICINAL CHEMISTRY - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN

Profiles of drug substances, excipients, and related methodology. Boston: Elsevier Academic; annual. ISBN: 9780122608339. Vol. 35 (2010), \$224.00, Vol. 33 (2008), \$215. Vols. 25-29 and 31-32 also available at \$215 each. Previous titles: Analytical profiles of drug substances, v. 1 (1972)-20 (1991); Analytical profiles of drug substances and excipients, v. 21 (1992)-v. 29 (2002).

B.1 - X.7 MEDICINAL CHEMISTRY - WEB SITES

American Chemical Society (ACS) Division of Medicinal Chemistry. ACS Division of Medicinal Chemistry. URL: <http://acsmedchem.org/>

*Title recommended for first purchase.

Harrold, Marc W. Basic concepts in medicinal chemistry [tutorial]: School of Pharmacy, Duquesne, 2001-. URL: <http://www.duq.edu/pharmacy/faculty/harrold/basic-concepts-in-medicinal-chemistry.cfm>

European Federation for Medicinal Chemistry. URL: <http://www.efmc.info/>

B.2 PHARMACOGNOSY AND NATURAL PRODUCTS

*Awang, Dennis V.C. Tyler's herbs of choice: the therapeutic use of phytomedicinals. 3rd ed. Boca Raton: CRC Press, 2009. ISBN: 0789028093. \$132.95.

Colegate, Steven M.; and Molyneux, Russell J, eds. Bioactive natural products: detection, isolation, and structural determination. Boca Raton, FL: CRC; 2007. ISBN: 9780849372582. \$275.00.

Dermarderosian, Ara; and Beutler, John A., eds. Review of natural products. 6th ed. St. Louis: Facts & Comparisons; 2010. ISBN: 1574393146. \$86.95. Available in a variety of formats.

Hanson, Bryan, ed. Understanding medicinal plants: their chemistry and therapeutic action. New York: Routledge; 2005. ISBN: 9780789015518. \$175.00.

Houghton, Peter; and Mukherjee, Pulok K. Evaluation of herbal medicinal products: Perspectives on quality, safety and efficacy. London: Pharmaceutical Press, 2009. ISBN: 9780853697510. \$230.00.

Heinrich, Michael; Barnes, Joanne; Gibbons, Simon, et al. Fundamentals of pharmacognosy and phytotherapy. 2nd ed. Edinburgh: Churchill Livingstone, 2012. ISBN: 9780702033889. \$57.95.

Lam, Y. W. Francis; Huang, Shiew Mei; and Hall, Stephen D, eds. Herbal Supplements – Drug Interactions: Scientific and Regulatory Perspectives. New York: Taylor and Francis; 2006. ISBN: 9780824725389. \$159.95.

Li, Jie Jack; and Corey, E.J., eds. Total synthesis of natural products: at the frontiers of organic chemistry. Berlin: Springer; 2012. ISBN: 9783642340642 \$159.00.

Natural Standard. Herb & supplement guide: evidence based reference. St. Louis: Mosby, 2010. ISBN: 9780323072953. \$88.95

Total synthesis of natural products. New York: Wiley; 1973-1999 Vol. 1-11, \$3935.00.

Tracy, Timothy S; and Kingston, Richard L. Herbal Products Toxicology and Clinical Pharmacology. 2nd ed. Totowa, New Jersey: Humana Press, 2007. ISBN: 9781588293138 \$249.00 and up depending on format

*Trease and Evans' pharmacognosy. 16th ed. Edinburgh, Scotland: Saunders, 2009. ISBN: 9780702029332. \$129.00.

B.2 - X.1.0 PHARMACOGNOSY AND NATURAL PRODUCTS - HISTORY

Duke's handbook of medicinal plants of the Bible. Boca Raton, FL: CRC Press, 2007. ISBN: 9780849382024. \$121.95.

Duke, James A. Herbs of the Bible: 2000 years of plant medicine. 2nd ed. Winona Lake, IN: Wendell Whitman, 2007. ISBN: 9781885653161. \$34.95.

*Title recommended for first purchase.

B.2 - X.1.a PHARMACOGNOSY AND NATURAL PRODUCTS - CLASSICS

Blumenthal, Mark; Goldberg, Alicia; and Brinckmann, Josef, eds. Herbal medicine: expanded Commission E monographs. Newton, MA: Integrative Medicine Communications; 2000. ISBN: 9780967077239. \$39.95.

Cupp, Melanie J.; Tracy, Timothy S., ed. Dietary supplements: toxicology and clinical pharmacology. Totowa, NJ: Humana; 2003. ISBN: 9781588290144. \$179.00.

Dymock, William; Warden, C. J. H.; Hooper, David. Pharmacographia indica: a history of principal drugs of vegetable origin. New Delhi, India: Low Price Publications, 1995. ISBN: 9788186142639. \$200.00 (set). o.p.

Huang, Kee Chang; and Williams, W. Michael. The pharmacology of Chinese herbs. 2nd ed. Boca Raton, FL: CRC Press, 1999. ISBN: 9780849316654. \$275.00.

Kayne, Steven. Homeopathic pharmacy: an introduction and handbook. 2nd ed. New York: Churchill Livingstone, 2006. ISBN: 9780443101601. o.p.

Nigg, Herbert N.; Seigler, David, ed. Phytochemical resources for medicine and agriculture. New York: Plenum; 1992. ISBN: 9780306442452. \$319.00.

Rotblatt, Michael; Ziment, Irwin, ed. Evidence-based herbal medicine. Philadelphia: Hanley & Belfus; 2002. ISBN: 9781560534471. o.p.

Tsumura, Akira. Kampo: how the Japanese updated traditional herbal medicine. New York: Japan Publications, 1991. ISBN: 9780870407925. \$29.95.

Von Reis, Siri; Lipp, Frank J., Jr. New plant sources for drugs and foods from the New York Botanical Garden herbarium. Cambridge, MA: Harvard, 1982. ISBN: 9780674617650. \$60.00.

Weiss, Rudolf Fritz; Fintelmann, Volker. Herbal medicine. 2nd rev. ed. Stuttgart, Germany: Thieme Medical Publishers, Inc., 2000. ISBN: 9780865779709. \$79.99.

B.2 - X.2.b PHARMACOGNOSY AND NATURAL PRODUCTS - HANDBOOKS AND DICTIONARIES

AltMedDex system. Thomson MICROMEDEX updated quarterly. MICROMEDEX products available to schools of pharmacy without charge when limited to teaching purposes, not clinical use. Available on CD-ROM and online. URL: <http://www.micromedex.com/products/altmeddexprotocols/>

Duke, James A.; Foster, Steven, ed. Field guide to medicinal plants and herbs: of eastern and central North America. 3rd ed. Boston: Houghton Mifflin Harcourt; 2014. ISBN: 9780547943985. \$21.00.

Duke, James A.; Bogenschulz-Godwin, Mary Jo; Duke, Peggy-Ann K. Handbook of medicinal herbs. 2nd ed. Boca Raton, FL: CRC, 2002. ISBN: 9780849312847. \$309.00.

*Khan, Ikhlas A; and Abourashed, Ehab A. Leung's encyclopedia of common natural ingredients used in food, drugs, and cosmetics. 3rd ed. New York: Wiley, 2010. ISBN: 9780471467434. \$159.00.

Leung, Albert Y.; Foster, Steven. Encyclopedia of common natural ingredients used in food, drugs, and cosmetics. 2nd ed. New York: Wiley, 2003. ISBN: 9780471471288. o.p.

*Title recommended for first purchase.

Mills, Edward; Dugoua, Jean-Jacques; Perri, Dan; Koren, Gideon. Herbal medicines in pregnancy and lactation: an evidence-based approach. Boca Raton, FL: Informa Healthcare, 2006. ISBN: 9780415373920. \$159.95.

Ross, Ivan A. Medicinal plants of the world: chemical constituents, traditional and modern medicinal uses. 2nd ed. Totowa, NJ: Humana, 2003-. ISBN: 9781588292810 (vol. 1); 9780896038776 (vol. 2); 9781588291295, (vol. 3). Vol. 1,3, \$199.00 each; vol. 2 \$229.00.

Wichtl, Max, ed. Herbal drugs and phytopharmaceuticals: a handbook for practice on a scientific basis. 3rd rev. ed. Boca Raton, FL: CRC Press; 2004. ISBN: 9780849319617. \$324.95.

B.2 - X.2.b PHARMACOGNOSY AND NATURAL PRODUCTS - HANDBOOKS AND DICTIONARIES - CLASSICS

Tyler's honest herbal: a sensible guide to the use of herbs and related remedies. 4th ed. New York: Routledge, 1999. ISBN: 9780789007056. \$64.95.

B.2 - X.4.0 PHARMACOGNOSY AND NATURAL PRODUCTS - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN

Upton, Roy; Graff, Alison; Jolliffe, Georgina, et al., eds. American Herbal Pharmacopoeia: Botanical Pharmacognosy - Microscopic Characterization of Botanical Medicines. Boca Raton: CRC Press; 2011. ISBN: 9781420073263. \$169.95.

B.2 - X.4.0 PHARMACOGNOSY AND NATURAL PRODUCTS - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN - CLASSICS

Wagner, Hildebert H.; Blatt, Sabine. Plant drug analysis: a thin layer chromatography atlas. 2nd ed. New York: Springer, 1996. ISBN: 9783642005732. \$339.00.

B.2 - X.7 PHARMACOGNOSY AND NATURAL PRODUCTS - WEB SITES

American Botanical Council. Includes online Commission E monographs, Herbalgram, ABC Clinical Guide. Austin, TX. URL: <http://abc.herbalgram.org/>

American Society of Pharmacognosy: The Society. URL: <http://www.pharmacognosy.us>

MedlinePlus. Herbs and supplements: National Library of Medicine. URL: http://www.nlm.nih.gov/medlineplus/druginfo/herb_All.html

National Institutes of Health. Office of Dietary Supplements: NIH. URL: <http://ods.od.nih.gov>

United States Pharmacopeial Convention. USP verification services. Rockville, MD: United States Pharmacopeial Convention. URL: <http://www.usp.org/USPVerified/>

*Title recommended for first purchase.

B.3.0 PHARMACEUTICS

*Albrecht, Linda S, ed. Understanding pharmacy calculations. 2nd ed. Washington, DC: American Pharmacists Association; 2012. ISBN: 9781582120959. \$51.95.

*Allen, Loyd V., Jr. The art, science and technology of pharmaceutical compounding. 5th ed. Washington: American Pharmacists Association, 2016. ISBN: 9781582122632. \$103.95.

*Ansel, Howard C. Pharmaceutical calculations. 15th ed. Philadelphia: Wolters Kluwer, 2017. ISBN: 9781496300713. \$94.99.

*Ansel's pharmaceutical dosage forms and drug delivery systems. 10th ed. Baltimore: Wolters Kluwer Health, 2014. ISBN: 9781451188769. \$85.99.

Amiji, Mansoor; Cook, Thomas J; and Mobley, W. Cary. Applied physical pharmacy. 2nd ed. New York: McGraw-Hill, 2014. ISBN: 9780071747509. \$72.00.

Aulton's pharmaceuticals: the design and manufacture of medicines. 5th ed. Edinburgh, Scotland: Churchill Livingstone, 2017. ISBN: 9780702042904. \$80.95.

Demetzos, Costas. Pharmaceutical nanotechnology: fundamentals and practical applications. Auckland, New Zealand: Adis International Limited, 2016. ISBN: 9789811007903. \$79.99.

Felton, Linda A, ed. Remington: essentials of pharmaceuticals. Philadelphia: Philadelphia College of Pharmacy; 2013. ISBN: 9780857111050. \$69.00.

Florence, Alexander T.; and Attwood, David. Physicochemical principles of pharmacy: in manufacture, formulation and clinical use. 6th ed. London: Pharmaceutical Press, 2016. ISBN: 9780857111746. \$69.99.

Florence, Alexander T.; Siepmann, Jurgen, ed. Modern pharmaceuticals. 5th ed. New York: Dekker; 2008. ISBN: 9781420065701. \$283.00.

Marriott, John F.; Wilson, Keith A.; Langley, Christopher A.; Belcher, Dawn, ed. Pharmaceutical compounding and dispensing. 2nd ed. London: Pharmaceutical Press; 2010. ISBN: 9780853699125. \$65.00.

*Martin's physical pharmacy and pharmaceutical sciences: physical chemical and biopharmaceutical principles in the pharmaceutical sciences. 7th ed. Philadelphia: Wolters Kluwer, 2017. ISBN: 9781451191455. \$99.99.

Mitra, Ashim K; Lee, Chi H; and Cheng, Kun, eds. Advanced drug delivery. Hoboken, N.J.: Wiley; 2014. ISBN: 9781118022665. \$125.00.

Rees, Judith A; Smith, Ian; and Watson, Jennie. Introduction to pharmaceutical calculations. 4th ed. London: Pharmaceutical Press, 2015. ISBN: 9780857111685. \$46.00.

*Rowe, Raymond C.; Sheskey, Paul J.; Cook, Walter G.; Fenton, Marian E., eds. Handbook of pharmaceutical excipients. 8th ed. Gurnee, IL: Pharmaceutical Press; 2017. ISBN: 9780857110275. \$555.00.

Teixeira, Maria Glauca; and Zatz, Joel L. Pharmaceutical calculations. 5th ed. New York: Wiley-Interscience, 2017. ISBN: 9781118978511. \$79.95.

*Title recommended for first purchase.

*Trissel's stability of compounded formulations. 5th ed. Washington, DC: American Pharmacists Association; 2012. ISBN: 9781582121673. \$155.95.

B.3.0 - X.1a PHARMACEUTICS - CLASSICS

Augsburger, Larry L.; Hoag, Stephen W., ed. Pharmaceutical dosage forms: tablets. 3rd ed. New York: Informa Healthcare; 2008. ISBN: 9781420063455. \$549.95.

B.3.0 - X.7 PHARMACEUTICS - WEB SITES

International Academy of Compounding Pharmacists. Missouri City, TX: International Academy of Compounding Pharmacists. URL: <http://www.iacprx.org/>

*Orange book: Approved drug products with therapeutic equivalence evaluations. Rockville, MD: Food and Drug Administration, 2008. URL: <http://www.fda.gov/cder/orange/default.htm>

Shrewsbury, Robert. Pharmaceutics and compounding laboratory: School of Pharmacy, University of North Carolina, 1999. URL: <http://pharmlabs.unc.edu/>

B.3.a BIOPHARMACEUTICS AND PHARMACOKINETICS

Arnold, Renee J. G . ed. Pharmacoeconomics: from theory to practice. Boca Raton, FL: CRC Press; 2009. ISBN: ISBN-9781420084221. \$119.95.

De, Arnab. Application of peptide-based prodrug chemistry in drug development. New York, NY: Springer, 2013. ISBN: 9781461448754. \$49.95.

Hammarlund-Udenaes, Margareta; De Lange, Elizabeth; and Thorne, Robert. Drug delivery to the brain physiological concepts, methodologies and approaches. London: Springer Verlag, 2013. ISBN: 9781461491040. \$239.00.

Jensen, Knud, ed. Peptide and protein design for biopharmaceutic applications. Oxford, England: Wiley-Blackwell; 2009. ISBN: 9780470319611. \$155.00.

Kisor, David F; Kane, Michael D; Sprague, Jon E , et al. Pharmacogenetics, kinetics, and dynamics for personalized medicine. Burlington, MA: Jones & Bartlett Learning, 2014. ISBN: 9781449633936. \$87.95.

Macheras, Panos; Iliadis, Athanassios eds. Modeling in biopharmaceutics, pharmacokinetics, and pharmacodynamics: homogeneous and heterogeneous approaches. 2nd ed. New York: Springer; 2016. ISBN: 9783319275963. \$149.00.

*Shargel, Leon; Yu, Andrew. Applied biopharmaceutics and pharmacokinetics. 7th ed. New York: McGraw-Hill, 2015. ISBN: 9780071830935. \$75.00.

Winter, Michael E. Basic clinical pharmacokinetics. 5th ed. Philadelphia: Lippincott Williams & Wilkins, 2009. ISBN: 9780781779036. \$84.99.

*Title recommended for first purchase.

B.3.a - X.1.a BIOPHARMACEUTICS AND PHARMACOKINETICS - CLASSICS

Testa, Bernard; Jenner, Peter. Drug metabolism: chemical and biochemical aspects. Reprint ed. Ann Arbor: Books on Demand, UMI, 1976. ISBN: 9780783722061. \$160.60.

B.3.a - X.4.0 BIOPHARMACEUTICS AND PHARMACOKINETICS - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN

De Muth, James. Basic statistics and pharmaceutical statistical applications. 3rd ed. Boca Raton: CRC Press, 2014. ISBN: 978146659673. \$99.00.

B.3.a - X.7 BIOPHARMACEUTICS - WEB SITES

The Biopharmaceutics Classification System (BCS) guidance: U.S. Food and Drug Administration. URL: <https://www.fda.gov/aboutfda/centersoffices/officeofmedicalproductsandtobacco/cder/ucm128219.htm>

B.4.0 DRUG DESIGN, DISCOVERY, AND DEVELOPMENT

Blass, Benjamin. Basic principles of drug discovery and development. Amsterdam: Elsevier Academic Press, 2015. ISBN: 9780124115088. \$99.95; also available as ebook.

Dunn, Ian S. Searching for molecular solutions: empirical discovery and its future. Hoboken, N.J.: Wiley, 2010. ISBN: 9780470146828. \$149.00; also available as ebook.

Holmgren, Eric B. Theory of drug development. Boca Raton: CRC Press/Taylor & Francis Group, 2014. ISBN: 9781466507463. \$105.00; also available as ebook.

Krogsgaard-Larsen, Povl; Strømgaard, Kristian; Madsen, Ulf, eds. Textbook of drug design and discovery. 5th ed. Boca Raton: CRC Press; 2016. ISBN: 978198702782. \$110.00; also available as ebook.

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Li, Jie Jack; and Corey, E.J., eds. Drug discovery: practices, processes, and perspectives. Hoboken, NJ: Wiley; 2013. ISBN: 9780470942352. \$133.00; also available as ebook.

Ng, Rick. Drugs: from discovery to approval. 3rd ed. Hoboken, NJ: Wiley-Blackwell, 2015. ISBN: 9781118907276. \$99.95; also available as ebook.

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Smith, Dennis A.; Allerton, Charlotte; Kalgutkar, Amit S.; Van De Waterbeemd, Han; Walker, Don K. Pharmacokinetics and metabolism in drug design. 3rd ed. New York: Wiley, 2012. ISBN: 9783527329540. \$155.00; also available as ebook.

*Smith and Williams' introduction to the principles of drug design and action. 4th ed. Boca Raton, FL: CRC Press; 2005. ISBN: 9780415288774. \$145.00; also available as ebook.

*Title recommended for first purchase.

Wu-Pong, Susanna; Rojanasakul, Yongyut, eds. Biopharmaceutical drug design and development. 2nd ed. Totowa, NJ: Humana; 2008. ISBN: 9781588297167. \$219.99; also available as ebook.

B.4.0 - X.1.0 DRUG DESIGN, DISCOVERY, AND DEVELOPMENT - HISTORY

Cordes, Eugene H. Hallelujah moments: tales of drug discovery. Oxford: Oxford University Press, 2014. ISBN: 9780199337149. \$34.95; also available as ebook.

Ravina Rubira, Enrique. The evolution of drug discovery: from traditional medicines to modern drugs. Weinheim: Wiley-VCH, 2011. ISBN: 9783527326693. \$93.00.

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B.5.0 INDUSTRIAL

*Bunn, Graham P., ed. Good manufacturing practices for pharmaceuticals. 7th ed. Boca Raton, FL: CRC Press; 2019. ISBN: 9781498732062. \$189.95.

Ding, Min; Eliasberg, Jehoshua; and Stremersch, Stefan, eds. Innovation and marketing in the pharmaceutical industry. New York: Springer; 2014. ISBN: 9781461478003. \$179.00.

B.5.0 - X.1.a INDUSTRIAL - CLASSICS

Edwards, Lionel D.; Fox, Anthony W.; Stonier, Peter D., eds. Principles and practice of pharmaceutical medicine. 3rd ed. Hoboken, NJ Wiley-Blackwell; 2010. ISBN: 9781405194723. \$360.00.

Lachman, Leon; Lieberman, Herbert A.; Kanig, Joseph L., eds. The theory and practice of industrial pharmacy. 3rd ed. Philadelphia: Lea & Febiger; 1986. ISBN: 9780812109771 o.p.

B.5.0 - X.4.a INDUSTRIAL - QUALITY ASSURANCE

Food and Drug Administration. Current good manufacturing practice (CGMP) regulations, 2015. URL: <https://www.fda.gov/drugs/pharmaceutical-quality-resources/current-good-manufacturing-practice-cgmp-regulations>

B.5.0 - X.5 INDUSTRIAL - DIRECTORIES

Digital PMD: Pharmaceutical marketers directory. New York: PMD/Haymarket Media; annual. ISBN: 978-0013373094. \$448.00 (2019).

B.5.0 - X.7 INDUSTRIAL - WEB SITES

Pharmahub. Engineering Virtual Organization for Pharmaceutical Engineering and Science: pharmaHUB. URL: <https://pharmahub.org>

International Society for Pharmaceutical Engineering: ISPE, 1997-. URL: <https://www.ispe.org>

NIPTE. National Institute for Pharmaceutical Technology & Education: NIPTE. URL: <https://nipte.org/>

*Title recommended for first purchase.

Pharmaceutical Research and Manufacturers of America. Pharmaceutical Research and Manufacturers of America: PhRMA. URL: <https://www.phrma.org/>

B.6.0 COSMETICS

*Baumann, Leslie. Cosmeceuticals and cosmetic ingredients. New York: McGraw-Hill, 2014. ISBN: 9780071793988. \$176.00.

Harry's cosmeticology. 9th ed. Revere, MA: Chemical Publishing, 2015. ISBN: 9780820601809 (3 v. set). \$950.00.

Sivamani, Raja K.; Jagdeo, Jared; Elsner, Peter; and Maibach, Howard I., ed. Cosmeceuticals and active cosmetics drugs versus cosmetics. 3rd ed. Boca Raton: CRC Press; 2015. ISBN: 9781482214161. \$210.00.

*Paye, Marc; Barel, Andre O.; Maibach, Howard I., ed. Handbook of cosmetic science and technology. 4th ed. Boca Raton, FL: CRC Press; 2014. ISBN: 9781842145647. \$210.00.

B.6.0 - X.2.b COSMETICS - HANDBOOKS AND DICTIONARIES

International cosmetic ingredient dictionary and handbook. 16th ed. Washington, DC: The Personal Care Products Council 2015. ISBN: 9781882621552. \$1,390.00 (5 v. set).

Michalun, M. Varinia; and Dinardo, Joseph C. Milady's skin care and cosmetic ingredients dictionary. 4th ed. Clifton Park, NY: Milady, 2015. ISBN: 9781285060798. \$57.95.

B.7.0 NUCLEAR AND RADIOPHARMACY

Cole, Clyde N.; Shaw, Stanley M.; Kowalsky, Richard J. Nuclear pharmacy quick reference. Washington, DC: American Pharmacists Association, 2012. ISBN: 9781582121512. \$32.95.

Gilmore, David; Waterstram-Rich, Kristen M., ed. Nuclear medicine and PET/CT: technology and techniques. 8th ed. St. Louis: Mosby/Elsevier; 2017. ISBN: 9780323356220. \$176.00; also available as eBook.

Kowalsky, Richard J.; Falen, Stephen; . Radiopharmaceuticals in nuclear pharmacy & nuclear medicine. 3rd ed. Washington, DC: American Pharmacists Association, 2011. ISBN: 9781582121185. \$211.95.

Saha, Gopal B. Basics of PET imaging, physics, chemistry, and regulations. 3rd ed. New York: Springer, 2016. ISBN: 9780387271286. \$99.99; also available as eBook.

*Saha, Gopal B. Fundamentals of nuclear pharmacy. 7th ed. New York, NY: Springer, 2018. ISBN: 9783319575803. \$109.99; also available as eBook.

*Sampson's textbook of radiopharmacy. 4th ed. London: Pharmaceutical Press; 2011. ISBN: 9780853697893. \$130.00.

Scott, Peter J. H.; Hockley, Brian G., ed. Radiopharmaceuticals for positron emission tomography. Hoboken, NJ: Wiley; 2011. ISBN: 9780470588956. \$137.00.

*Title recommended for first purchase.

B.7.0 - X.2.b NUCLEAR AND RADIOPHARMACY - HANDBOOKS AND DICTIONARIES

Welch, Michael J.; Redvanly, Carol S., eds. Handbook of radiopharmaceuticals. New York: Wiley; 2002. ISBN: 0471495603. \$504.00. Also available as eBook: \$403.99.

B.8.0 PHARMACOLOGY

*Brody's human pharmacology: molecular to clinical. 6th ed. Philadelphia: Elsevier Mosby; 2019. ISBN: 9780323476522. \$74.99.

Burchum, Jacqueline. Lehne's Pharmacology for nursing care. 10th ed. St. Louis: Elsevier, 2019. ISBN: 9780323550086. \$77.56.

Foreman, John C.; Johansen, Torben. Textbook of receptor pharmacology. 3rd ed. Boca Raton, FL: CRC Press, 2010. ISBN: 9781420052541. \$150.00.

Golan, David E.; Tashjian, Armen H., Jr.; Armstrong, Ehrin J.; Armstrong, April W., ed. Principles of pharmacology: the pathophysiologic basis of drug therapy. 4th ed. Baltimore: WoltersKluwer; 2016. ISBN: 9781451191004 \$92.99.

*Goodman & Gilman's the pharmacological basis of therapeutics. 13th ed. New York: McGraw-Hill; 2017. ISBN: 9781259584732. \$219.00.

Handbook of experimental pharmacology. New York: SpringerLink; 1937-. ISBN: ISSN: 0171-2004. Each vol. in series priced individually, most \$400-500.00.

Hollinger, Manfred A., ed. Introduction to pharmacology. 3rd ed. Boca Raton, FL: CRC Press; 2007. ISBN: 9781420047417. \$100.00.

*Katzung, Bertram G.; Masters, Susan B.; Trevor, Anthony J., ed. Basic & clinical pharmacology. 14th ed. London, England: McGraw-Hill; 2017. ISBN: 9781259641152. \$63.00.

Neal, Michael J. Medical pharmacology at a glance. 8th ed. Malden, MA: Wiley, 2015. ISBN: 9781118902400. \$45.00.

Rang & Dale's pharmacology. 9th ed. New York: Elsevier; 2020. ISBN: 9780702074486. \$74.99.

Stringer, Janet L. Basic concepts in pharmacology: what you need to know for each drug class. 5th ed. New York: McGraw-Hill, 2017. ISBN: 9781259861079. \$58.00.

Whalen, Karen; Field, Carinda; and Radhakrishnan, Rajan, eds. Lippincott Illustrated Reviews in Pharmacology. 7th ed. New York: Wolter Kluwer; 2018. ISBN: 9781496384133. \$74.99.

B.8.0 - X.1.a PHARMACOLOGY - CLASSICS

*Craig, Charles R.; Stitzel, Robert E. Modern pharmacology with clinical applications. 6th ed. Philadelphia: Lippincott Williams & Wilkins, 2003. ISBN: 9780781737623. \$76.99.

Cooper, Jack R.; Bloom, Floyd E.; Roth, Robert H. The biochemical basis of neuropharmacology. 8th ed. New York: Oxford, 2003. ISBN: 9780195140088. \$24.95, o.p.

*Title recommended for first purchase.

B.8.0 - X.7 PHARMACOLOGY - WEB SITES

Clinical pharmacology. Gold Standard. Price dependent on number of student FTEs; price also includes mobile access; price does not include access for adjunct professors or preceptors; eligible for discount through letter of incorporation, contact rep for more information on details of eligibility. URL: <http://www.clinicalpharmacology.com/>

DrugBank – Open Data Drug & Drug Target Database. URL: <http://www.drugbank.ca/>

B.8.a.0 TOXICOLOGY

Barceloux, Donald G., ed. Medical toxicology of natural substances: food, fungi, medicinal herbs, plants and venomous animals. Hoboken, NJ: John Wiley & Sons; 2008. ISBN: 9780471727613. \$247.00.

Baselt, Randall C. Disposition of toxic drugs and chemicals in man. 11th ed. Seal Beach, CA: Biomedical Publications, 2017. ISBN: 9780692774991 \$349.50.

Daragan, Paul I.; and Wood, David M. Novel psychoactive substances: classification, pharmacology and toxicology. London, England: Academic Press; 2013.

Hayes, A. Wallace, ed. Hayes principles and methods of toxicology. 6th ed. Boca Raton, FL: CRC Press; 2014. ISBN: 9781842145364. \$182.00; also available as ebook.

Kacew, Sam; Lee, Byung-Mu, ed. Lu's basic toxicology: Fundamentals, target organs, and risk assessment. 7th ed. Boca Raton, FL: CRC Press; 2018. ISBN: 9781315391694. \$125.00; also available in various formats. .

*Klaassen, Curtis D, ed. Casarett and Doull's toxicology: the basic science of poisons. 9th ed. New York: McGraw-Hill 2019. ISBN: 9781259863745. \$175.00; also available as ebook.

Marcus, Steven M. Medical toxicology: antidotes and anecdotes. Switzerland: Springer, 2017. ISBN: 9783319510293. \$29.99; also available as ebook.

Mercurio, Steven D. Understanding toxicology: a biological approach. Burlington, MA: Jones & Bartlett Learning, 2017. ISBN: 9781284126525. \$94.95; also available as ebook.

*Nelson, Lewis; Lewin, Neal; Howland, Mary Ann; Hoffman, Robert; Goldfrank, Lewis; Flomenbaum, Neal, eds. Goldfrank's toxicologic emergencies. 11th ed. New York: McGraw-Hill Professional; 2019. ISBN: 9781259859618. \$275.00.

*Olson, Kent R.; Anderson, Ilene; Benowitz, Neal; Blanc, Paul; Clark, Richard; Kearney, Thomas; Kim-Katz, Susan; Wu, Alan. Poisoning and drug overdose. 7th ed. New York: McGraw-Hill Professional, 2018. ISBN: 9780071839792. \$94.95; also available as ebook.

Pelkonen, Olavi; Duez, Pierre; Vuorela, Pia Maarit, et al., eds. Toxicology of herbal products. Switzerland: Springer; 2017. ISBN: 9783319438061. \$219.99; also available as ebook.

Stine, Karen E.; and Brown, Thomas M. Principles of toxicology. 3rd ed. Boca Raton, FL: CRS Press, 2014. ISBN: 9781466503434. \$96.95; also available as ebook.

Wilhelm, Klaus-Peter; Zhai, Hongbo; Maibach, Howard I., eds. Dermatotoxicology. 8th ed. Boca Raton, FL: Informa Healthcare; 2012. ISBN: 9781841848556. \$279.95.

*Title recommended for first purchase.

B.8.a.0 TOXICOLOGY - CLASSICS

Bingham, Eula; Cohns, Barbara, eds. Patty's toxicology. 6th ed. Hoboken, NJ: John Wiley & Sons; 2012. ISBN: 9780470410813. \$2780.00. (6 volume set)

Duffus, John H.; Worth, G.J., eds. Fundamental toxicology. London: Royal Society of Chemistry; 2006. ISBN: 9780854046140. \$64.00.

Lewis, Richard J, ed. Sax's dangerous properties of industrial materials. 12th ed. Hoboken: Wiley-Interscience; 2012. ISBN: 9780470623251. \$715.00; also available online and on CD-ROM.

Rose, Vernon E.; Cohns, Barbara, eds. Patty's industrial hygiene. 6th ed. Hoboken, NJ: John Wiley & Sons; 2010. ISBN: 9780470074886. \$905.00 4-volume set.

B.8.a.0 - X.2.b TOXICOLOGY - HANDBOOKS AND DICTIONARIES

Derelanko, Michael J.; Auletta, Carol, ed. Handbook of toxicology. 3rd ed. Boca Raton, FL: CRC Press; 2014. ISBN: 9781439890134. \$169.95; also available as ebook.

Hayes' handbook of pesticide toxicology. 3rd ed. San Diego, CA: Elsevier- Academic Press; 2010. ISBN: 9780123743671. \$760.00; also available as ebook.

Hodgson, Ernest; and Roe, Michael, eds. Dictionary of Toxicology. 3rd ed. London, England: Academic Press; 2014. ISBN: 9780124201699. \$99.95; also available as ebook.

Sittig's handbook of toxic and hazardous chemicals and carcinogens. 7th ed. Norwich, NY: William Andrew; 2017. ISBN: 9780323389686. \$695.00; also available as ebook.

B.8.a.0 - X.4.0 TOXICOLOGY - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN

Xu, Q. Alan; Madden, Timothy L., ed. Analytical methods for therapeutic drug monitoring and toxicology. Hoboken, NJ: John Wiley & Sons; 2011. ISBN: 9780470455616. \$182.00.

B.8.a.0 - X.4.0 TOXICOLOGY - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN - CLASSICS

Moffat, Anthony C.; Osselton, M. David; Widdop, Brian; Watts, Jo, ed. Clarke's analysis of drugs and poisons: in pharmaceuticals, body fluids and post-mortem material. 4th ed. London, England: Pharmaceutical Press; 2011. ISBN: 9780853697114. \$825.00.

B.8.a.0 - X.6.1.0 TOXICOLOGY - ONLINE RESOURCES

POISINDEX system. Truven Health Analytics, updated quarterly. Online only; available separately or as part of MICROMEDEX database. URL: <http://www.micromedex.com>

RTECS: Registry of toxic effects of chemical substances. BIOVIA. Various providers with multiple pricing options. URL: <http://www.3dsbiovia.com/products/collaborative-science/databases/bioactivity-databases/rtecs.html>

*Title recommended for first purchase.

B.8.a.0 - X.7 TOXICOLOGY - WEB SITES

NIOSH Pocket Guide to Chemical Hazards: National Institute for Occupational Safety and Health (NIOSH) Education and Information Division. URL: <http://www.cdc.gov/niosh/npg/>

Toxic Substances Portal: ATSDR: Agency for Toxic Substances & Disease Registry URL: <http://www.atsdr.cdc.gov/substances/index.asp>

*TOXNET: toxicology data network: U.S. National Library of Medicine. URL: <http://toxnet.nlm.nih.gov/>

B.8.a.1 DRUG ADVERSE REACTIONS, INTERACTIONS, AND SIDE EFFECTS

*Aronson, Jeffrey K., ed. Side effects of drugs annual: a worldwide yearly survey of new data and trends in adverse drug reactions. Amsterdam, Netherlands: Elsevier Science; annual. ISBN: ISSN: 0378-6080. vol 41 (2019) \$343.00.

Barile, Frank A., ed. Barile's clinical toxicology: principles and mechanisms. 3rd ed. New York: Taylor and Francis; 2019. ISBN: 9781498765305. \$169.95; also available as ebook.

*Baxter, Karen, ed. Stockley's drug interactions. 12th ed. London, England: Pharmaceutical Press; 2019. ISBN: 9780857113474. \$331.00; also available as ebook.

Dicato, Mario; and Van Cutsem, Eric, eds. Side effects of medical cancer therapy: prevention and treatment. 2nd ed. Cham, Switzerland: Springer; 2018. ISBN: 9783319702537. \$199.00; also available as ebook.

Goldberg, Joseph F.; and Ernst, Carrie L. Managing the side effects of psychotropic medications. 2nd ed. Washington, D.C.: American Psychiatric Association, 2019. ISBN: 9781615372034. \$75.00; also available as ebook.

Litt's drug eruption and reaction manual. 25th ed. Boca Raton, FL: CRC Press, 2019. ISBN: 9780367030650. \$395.02; also available as ebook.

*Meyler's side effects of drugs: the international encyclopedia of adverse drug reactions and interactions. 16th ed. Amsterdam, Netherlands: Elsevier Science; 2015. ISBN: 9780444537171. \$2500.00; also available as ebook.

Pai, Manjunath P.; Kiser, Jennifer J.; Gubbins, Paul O., et al., eds. Drug interactions in infectious diseases: antimicrobial drug interactions. 4th ed. Cham, Switzerland: Humana; 2018. ISBN: 9783319724164. \$199.00; also available as ebook.

Pai, Manjunath P.; Kiser, Jennifer J.; Gubbins, Paul O., et al., eds. Drug interactions in infectious diseases: mechanisms and models of drug interactions. 4th ed. Cham, Switzerland: Humana; 2018. ISBN: 9783319724225. \$125.00; also available as ebook.

Pronsky, Zaneta M. Food-medication interactions. 18th ed. Birchrunville, PA: Food-Medication Interactions, 2018. ISBN: 9780971089662. \$34.51, o.p.

Tatro, David S., ed. Drug interaction facts: the authority on drug interactions. Saint Louis, MO: Wolters Kluwer Health; 2014. ISBN: 9781574393637. \$299.00, o.p.

*Title recommended for first purchase.

Tisdale, James E.; Miller, Douglas A., eds. Drug-induced diseases: prevention, detection, and management. 3rd ed. Bethesda: American Society of Health-System Pharmacists; 2018. ISBN: 9781585285303. \$225.00; also available as ebook.

B.8.a.1 DRUG ADVERSE REACTIONS, INTERACTIONS, AND SIDE EFFECTS - CLASSICS

Shepard, Thomas H.; Lemire, Ronald J. Catalog of teratogenic agents. 13th ed. Baltimore: Johns Hopkins University, 2011. ISBN: 9780801897849. \$285.00.

Drug interactions analysis and management. 9th ed. Philadelphia: Lippincott Williams & Wilkins; 2014. ISBN: 9781574393644. \$44.95. o.p.

B.8.a.1 - X.1.a DRUG ADVERSE REACTIONS, INTERACTIONS, AND SIDE EFFECTS - CLASSICS

Davies's textbook of adverse drug reactions. 5th ed. New York: Hodder Education Publishers; 1999. ISBN: 0412824809. o.p.

B.8.a.1 - X.7 DRUG ADVERSE REACTIONS, INTERACTIONS, AND SIDE EFFECTS - WEB SITES

Crediblemeds. QT drug lists by risk groups: Arizona CERT (Center for Education and Research on Therapeutics). URL: <http://crediblemeds.org>

Database of Antiretroviral Drug Interactions: Center for HIV Information, University of California, San Francisco. URL: <http://hivinsite.ucsf.edu/interactions>

*Drugs and Lactation Database (LactMed). Bethesda, Maryland: National Library of Medicine URL: <http://toxnet.nlm.nih.gov/newtoxnet/lactmed.htm>

Foucher, Pascal; Camus, Philippe. The Drug-Induced Respiratory Disease Website. Dijon, France: Department of Pulmonary Diseases and Intensive Care Unit, University Hospital, Dijon, France. URL: <http://www.pneumotox.com/>

Livertox: Clinical and Research Information on Drug-Induced Liver Injury. Rockville, Maryland: National Library of Medicine and National Institute of Diabetes and digestive and Kidney Diseases. URL: <http://livertox.nih.gov/>

SIDER (Side Effects Resource) Database. European Molecular Biology Laboratory Free. URL: <http://sideeffects.embl.de>

B.8.b VETERINARY PHARMACOLOGY

Bill, Robert. Clinical pharmacology and therapeutics for the veterinary technician. 4th ed. St. Louis: Mosby Elsevier, 2016. ISBN: 0323086790. \$72.95.

Bill, Robert. Medical mathematics and dosage calculations for veterinary professionals. 2nd ed. Ames, IA: Wiley-Blackwell, 2009. ISBN: 0813823633. \$49.99.

Maddison, Jill E.; Page, Stephen W.; Church, David B., eds. Small animal clinical pharmacology. 2nd ed. New York: Elsevier; 2008. ISBN: 0702028588. \$110.00.

*Title recommended for first purchase.

*Merck veterinary manual. 11th ed. Rahway, NJ: Merck; 2016. ISBN: 9780911910612. \$65.00 an electronic version of this reference is free at <https://www.merckvetmanual.com/>.

Riviere, Jim E.; Papich, Mark G. Veterinary pharmacology and therapeutics 10th ed. Ames, IA: Wiley-Blackwell, 2018. ISBN: 1118855829. \$224.99.

Romich, Janet Amundson. Fundamentals of pharmacology for veterinary technicians. 2nd ed. Clifton Park, NY: Delmar Learning, 2010. ISBN: 1435426009. \$93.95.

Wanamaker, Boyce P.; Massey, Kathy Lockett. Applied pharmacology for veterinary technicians. 5th ed. St. Louis: Elsevier Saunders 0323186629. \$74.95, 2015. ISBN: 0323186629. \$78.95.

B.8.b - X.2.b VETERINARY PHARMACOLOGY - HANDBOOKS AND DICTIONARIES

Hsu, Walter H. Handbook of veterinary pharmacology. 2nd ed. Seoul, South Korea: Shinil Books Company, 2013. ISBN: 9791195064328. \$60.00.

Papich, Mark G., ed. Saunders handbook of veterinary drugs: small and large animal. 4th ed. Philadelphia: Elsevier Saunders 2015. ISBN: 9780323244855. \$83.95.

Plumb, Donald C., ed. Plumb's veterinary drug handbook. 9th ed. New York: Wiley-Blackwell; 2018. ISBN: 9781118911921. \$89.95.

B.9 PHARMACOGENETICS & PHARMACOGENOMICS

Altman, Russ B.; Flockhart, David; Goldstein, David, B., ed. Principles of pharmacogenetics and pharmacogenomics. Cambridge, England: Cambridge University Press; 2012. ISBN: 9780521885379. \$113.00.

*Bertino, Joseph S., Jr.; Kashuba, Angela D. M.; Ma, Joseph D., et al., eds. Pharmacogenomics: an introduction and clinical perspective. New York: McGraw-Hill Companies; 2013. ISBN: 9780071741699. \$68.00.

Johnson, Julie A.; Ellingrod, Vicki L.; Kroetz, Deanna L., et al., eds. Pharmacogenomics: applications to patient care. Lenexa, KS: American College of Clinical Pharmacy; 2015. ISBN: 9781939862099. \$122.95.

Lam, Y. W. Francis; and Cavallari, Larisa H., eds. Pharmacogenomics: challenges and opportunities in therapeutic implementation. New York: Elsevier; 2013. ISBN: 9780123919182. \$99.95.

Maitland-Van Der Zee, Anke-Hilse; and Daly, Ann K., eds. Pharmacogenetics and individualized therapy. Hoboken, NJ: Wiley-Blackwell; 2012. ISBN: 9780470433546. \$123.00.

Rosenberg, Leon E.; and Rosenberg, Diane Drobnis. Human genes and genomes: science, health, society. Philadelphia: Elsevier, 2012. ISBN: 9780123852120. \$99.95.

Yao, Yihong; Jallal, Bahija; and Ranade, Koustubh, eds. Genomic biomarkers for pharmaceutical development: advancing personalized health care. Philadelphia: Elsevier; 2014. ISBN: 9780123973368. \$99.95.

Zdanowicz, Martin M., ed. Concepts in pharmacogenomics. 2nd ed. Bethesda, MD: American Society of Health-System Pharmacists; 2017. ISBN: 9781585285167. \$80.00.

*Title recommended for first purchase.

B.9 - X.2.a PHARMACOGENETICS & PHARMACOGENOMICS - HANDBOOKS AND DICTIONARIES

*Padmanabhan, Sandosh, ed. Handbook of pharmacogenomics and stratified medicine. Philadelphia: Elsevier; 2014. ISBN: 9780123868824. \$250.00.

C.0 - X.2.b MEDICAL SCIENCES (SCIENCES BASIC TO MEDICINE) - HANDBOOKS AND DICTIONARIES

*Dorland's illustrated medical dictionary. 32nd ed. Philadelphia: Saunders; 2011. ISBN: 9781416062578. \$39.71.

*Jablonski, Stanley, ed. Jablonski's dictionary of medical acronyms & abbreviations. 7th ed. Philadelphia: Saunders; 2015. ISBN: 9780323340205. \$34.95.

Stedman's medical dictionary. 29th ed. Philadelphia: Lippincott Williams & Wilkins; 2013. ISBN: 9781451176551. \$50.95; also available as an e-book.

C.0 - X.6.1.c MEDICAL SCIENCES (SCIENCES BASIC TO MEDICINE) - ONLINE ABSTRACTS AND INDEXES

AMED: allied & complementary medicine database. Health Care Information Service of the British Library, updated monthly. Available in a variety of formats and at various prices. URL: <http://www.ebscohost.com/ACADEMIC/amed>

CINAHL. CINAHL Information Systems. Available online in four versions through EBSCOhost. URL: <http://www.ebscohost.com/cinahl>

EMBASE. Elsevier. Available online at various prices. URL: <http://www.embase.com>

Google Scholar. Mountain View, CA: Google. URL: <http://scholar.google.com/> Free

*MEDLINE. U.S. National Library of Medicine. Available in a variety of formats and at various prices. URL: <http://www.nlm.nih.gov/pubs/factsheets/medline.html>

*PubMed. U.S. National Library of Medicine. Free. URL: <http://www.ncbi.nlm.nih.gov/pubmed/>

C.1 ANATOMY AND PHYSIOLOGY

Frederic, Martini; Robert, Tallitsch; and Judi, Nath. Human Anatomy. 9th ed. New York: Pearson, 2018. ISBN: 9780134320762. \$273.8.

Gilroy, Anne M.; Macpherson, Brian R.; Ross, Lawrence M. Atlas of anatomy. 3rd ed. New York: Thieme, 2016. ISBN: 9781626232525. \$79.99.

*Gray's anatomy: the anatomical basis of clinical practice. 41st ed. Philadelphia: Elsevier; 2015. ISBN: 9780702052309. \$228.95.

*Guyton, Arthur C.; Hall, John E. Textbook of medical physiology. 13th ed. Philadelphia: Elsevier Science, 2015. ISBN: 9781455770052. \$125.00. Also available as e-book.

*Title recommended for first purchase.

Netter, Frank H. Atlas of human anatomy. 6th ed. Philadelphia: Elsevier, 2014. ISBN: 9781455704187. \$80.95; also available as eBook.

Moore, Keith L.; Agur, Anne M.R.; Dalley, Arthur F., II. Essential clinical anatomy. 5th ed. Baltimore: Lippincott Williams & Wilkins, 2014. ISBN: 9781451187496. \$70.99.

Tortora Gerard J, Derrickson Bryan H Principles of anatomy & physiology. 15th ed. Singapore: Wiley, 2017. ISBN: 9781119400066. \$90.86.

Unglaub, Silverthorn Dee. Human physiology: an integrated approach. 8th ed. New York: Pearson, 2018. ISBN: 9780134605197. \$232.6.

D.0 – X.7 CLINICAL SCIENCES – WEB SITES

ClinicalTrials.gov: U.S. National Institutes of Health. URL: <http://clinicaltrials.gov>

DailyMed. Bethesda, MD: National Library of Medicine. URL: <http://dailymed.nlm.nih.gov/dailymed/index.cfm>. Free

Drug Shortages: American Society of Health-Systems Pharmacists, 2018. URL: <https://www.ashp.org/Drug-Shortages>

Drugs @ FDA. Silver Spring, MD: US Food and Drug Administration. URL: <http://www.accessdata.fda.gov/scripts/cder/drugsatfda/index.cfm>. Free

European Medicines Agency. London, UK: European Medicines Agency. URL: <http://www.ema.europa.eu/ema/>. Free

Journal Watch. Waltham, MA: Massachusetts Medical Society. URL: <http://www.jwatch.org/>. Free

Medscape. New York, NY: Medscape, 1996-. URL: <http://www.medscape.com>

National Guideline Clearinghouse. Rockville, MD: National Library of Medicine. URL: <https://www.guideline.gov>. Free

PubMed Clinical Queries. Rockville, MD: National Library of Medicine. URL: <http://www.ncbi.nlm.nih.gov/pubmed/clinical/>. Free

D.1 PATHOPHYSIOLOGY

*Kumar, Vinay; Abbas, Abul; Aster, Jon, ed. Robbins and Cotran pathologic basis of disease. 9th ed. Philadelphia, PA: Elsevier Saunders; 2015. ISBN: 9781455726134. \$125.00.

*Lee, Mary, ed. Basic skills in interpreting laboratory data. 6th ed. Bethesda: American Society of Health-System Pharmacists; 2017. ISBN: 9781585285488. \$106.00.

Mcphee, Stephen; Hammer, Gary. Pathophysiology of disease: an introduction to clinical medicine. 7th ed. New York: McGraw-Hill Education, 2014. ISBN: 9780071806008. \$80.00

Mcperson, Richard; Pincus, Matthew, ed. Henry's clinical diagnosis and management by laboratory methods. 23rd ed. St. Louis, MO: Elsevier; 2017. ISBN: 9780323295680. \$195.00.

*Title recommended for first purchase.

D.2 PATIENT PHYSICAL ASSESSMENT

Bickley, Lynn S. . Bates' guide to physical assessment. 12th ed. ed. Philadelphia, PA: Wolters Kluwer Health/Lippincott Williams & Wilkins, 2017. ISBN: 9781469893419. \$129.99; also available as e-book.

Herrier, Richard; Apgar, David; Boyce, Robert; Foster, Stephen. . Patient Assessment in Pharmacy. New York, NY: McGraw-Hill Education, 2015. ISBN: 9780071751940. \$64.00; also available as e-book.

Hardy, Yolanda M. Patient assessment in pharmacy: a culturally competent approach. Burlington (MA): Jones & Bartlett Learning, 2016. ISBN: 9781284025743. \$55.95.

Jarvis, Carolyn. Physical examination and health assessment. 7th ed. St. Louis: Elsevier/Saunders, 2016. ISBN: 9781455728107. \$100.57.

*Jones, Rhonda M. Patient assessment in pharmacy practice. 3rd ed. Philadelphia: Wolters Kluwe, 2015. ISBN: 9781451191653. \$89.99; also available as e-book.

Seidel's guide to physical examination. 8th ed. Philadelphia, PA: Elsevier/Mosby, 2015. ISBN: 9780323112406. \$126.00.

*Swartz, Mark H. Textbook of physical diagnosis: history and examination. 7th ed. Philadelphia: Elsevier Saunders, 2014. ISBN: 9780323221481. \$110.00.

D.3.0 THERAPEUTICS

Aronoff, George R.; Bennett, William M.; Berns, Jeffrey S.; Brier, Michael E.; Kasbekar, Nishaminy; Mueller, Bruce A.; Pasko, Deborah A.; Smoyer, William E., eds. Drug prescribing in renal failure: dosing guidelines for adults and children. 5th ed. Philadelphia: American College of Physicians; 2007. ISBN: 9781930513761. \$56.95.

*Bennett, John E.; Dolin, Raphael; and Blaser, Martin J., eds. Mandell, Douglas, and Bennett's principles and practice of infectious diseases. 8th ed. Philadelphia: Elsevier/Saunders; 2015. ISBN: 9781455748013. \$449.00.

*Chisholm-Burns Marie A, Schwinghammer Terry L, Malone Patrick M, Kolesar Jill M, Lee Kelly C, Bookstaver P Brandon, eds. Pharmacotherapy: principles & practice. 5th ed. New York: McGraw-Hill Medical; 2019. ISBN: 9781260019445. \$127.00.

Cunningham, F. Gary; Leveno, Kenneth J., Bloom, Steven L., eds. Williams obstetrics. 25th ed. New York: McGraw-Hill; 2018. ISBN: 9781259644320. \$195.00.

*Dipiro, Joseph; Talbert, Robert L.; Yee, Gary C.; Matzke, Gary R.; Wells, Barbara G.; Posey, L. Michael, eds. Pharmacotherapy: a pathophysiologic approach. 10th ed. New York: McGraw-Hill; 2016. ISBN: 9780071800532. \$229.00.

*Goldman, Lee; Schafer, Andrew eds. Goldman's Cecil medicine. 25th ed. Philadelphia: Elsevier/Saunders; 2016. ISBN: 9781455750177. \$199.99

Habif, Thomas P. Clinical dermatology: a color guide to diagnosis and therapy. 6th ed. Philadelphia, PA: Elsevier/Saunders, 2016. ISBN: 9780323261838. \$189.99.

*Title recommended for first purchase.

*Jameson, J. Larry; Fauci, Anthony S., Kasper, Dennis L., Hauser, Stephen L., Longo, Dan L., Loscalzo, Joseph eds. Harrison's principles of internal medicine. 20th ed. New York: McGraw-Hill; 2018. ISBN: 9781259644030. \$249.00.

Kang, Sewon; Amagai, Masayuki; Bruckner, Anna L eds. Fitzpatrick's dermatology in general medicine. 9th ed. New York: McGraw-Hill; 2019. ISBN: 9780071867798. \$529.00.

Kellerman, Rick D.; Bope, Edward T, ed. Conn's current therapy. Philadelphia: Saunders; annual. ISBN: 9780323527699. \$99.99

*Porter, Robert S., ed. Merck manual of diagnosis and therapy. 20th ed. Hoboken, NJ: John Wiley & Sons, Inc; 2018. ISBN: 9780911910421. \$79.95.

Schwinghammer, Terry L.; Koehler, Julia M., Borchert, Jill S., Slain, Douglas; Park, Sharon K. , ed. Pharmacotherapy casebook: a patient-focused approach. 10th ed. New York: McGraw-Hill; 2016. ISBN: 9781259640919. \$58.00.

Skorecki, Karl; Chertow, Glenn; Marsden, Philip; Taal, Maarten; Yu, Alan, ed. Brenner & Rector's the kidney. 10th ed. Philadelphia: Elsevier/Saunders; 2015. ISBN: 9781455748365. \$498.99.

Stone, C. Keith; Humphries, Roger L., ed. Current diagnosis and treatment emergency medicine. 8th ed. New York: McGraw-Hill; 2017. ISBN: 9780071840613. \$77.00.

Warrell, David A.; Cox, Timothy M.; Firth, John D.; Benz, Edward J., Jr.; Weatherall, David, ed. Oxford textbook of medicine. 5th ed. New York: Oxford; 2010. ISBN: 9780199204854. 3-vol. set, \$730.00.

Wein, Alan J.; Kavoussi, Louis R.; Partin, Alan W.; Peters, Craig A ed. Campbell-Walsh urology. 11th ed. Philadelphia: Elsevier/Saunders; 2016. ISBN: 9781455775675. 4-vol. set, \$549.99.

*Zeind, Caroline S.; Carvalho Mg, ed. Applied therapeutics: the clinical use of drugs. 11th ed. Philadelphia: Lippincott Williams & Wilkins; 2017. ISBN: 9781496318299. \$219.99.

Zipes, Douglas P.; Libby, Peter; Bonow, Robert O.; Mann, Douglas L.; Tomaselli, Gordon F ed. Braunwald's heart disease: a textbook of cardiovascular medicine. 11th ed. Philadelphia: Elsevier Saunders; 2018. ISBN: 9780323463423. 2-vol. set, \$279.99

D.3.a GERIATRICS

Hazzard's geriatric medicine and gerontology. 6th ed. New York: McGraw-Hill; 2009. ISBN: 9780071488723. \$252.78.

Hutchison, Lisa C.; Sleeper, Rebecca B., eds. Fundamentals of geriatric pharmacotherapy 2nd ed. Bethesda, MD: American Society of Health-System Pharmacists; 2015. ISBN: 9781585284351. \$69.00.

Kane, Robert L.; Ouslander, Joseph G.; Abrass, Itamar B.; Resnick, Barbara. Essentials of clinical geriatrics. 8th ed. New York: McGraw-Hill, 2017. ISBN: 9781259860515. \$66.51.

D.3.a - X.2.b GERIATRICS - HANDBOOKS AND DICTIONARIES

Semla, Todd P.; Beizer, Judith L.; Higbee, Martin D., eds. Geriatric dosage handbook. 21st ed. Hudson, OH: Lexi-Comp; 2016. ISBN: 9781591953524. \$74.55.

*Title recommended for first purchase.

D.3.a - X.7 GERIATRICS - WEB SITES

Merck manual for health care professionals: geriatrics. Whitehouse Station, NJ: Merck. URL: www.merckmanuals.com/professional/geriatrics.html

D.3.b NEUROLOGY

*Adams & Victor's principles of neurology. 10th ed. New York: McGraw-Hill; 2014. ISBN: 9780071794794. \$203.00.

Benzon, Honorio T., Md; Rathmell, James P., Md; Wu, Christopher L., Md; Turk, Dennis C., Phd; Argoff, Charles E., Md; Hurley, Robert W., Md, Phd, ed. Practical management of pain. 5th ed. Philadelphia: Elsevier; 2014. ISBN: 9780323083409. \$245.00.

Bonica's management of pain. 4th ed. Baltimore, MD: Williams & Wilkins, 2010. ISBN: 9780781768276. \$319.99.

Bradley's neurology in clinical practice. 7th ed. Philadelphia, PA: Elsevier/Saunders; 2016. ISBN: 9780323287838. \$499.99.

Nestler, Eric J.; Hyman, Steven E.; Malenka, Robert C., ed. Molecular neuropharmacology: a foundation for clinical neuroscience. 3rd ed. New York: McGraw-Hill Companies, Inc.; 2015. ISBN: 9780071827690. \$78.00.

Rowland, Lewis P.; Pedley, Timothy A.; Merritt, H. Houston. Merritt's neurology. 13th ed. Philadelphia: Wolters Kluwer Lippincott Williams & Wilkins, 20016. ISBN: 9781451193367. \$184.99.

*Stahl's essential psychopharmacology: neuroscientific basis and practical applications. 4th ed. New York: Cambridge University Press; 2013. ISBN: 9781107025981. \$309.00.

Waxman, Stephen. Clinical neuroanatomy. 27th ed. New York: McGraw-Hill Medical, 2013. ISBN: 9780071797979. \$62.00.

D.3.c NUTRITION AND NUTRACEUTICALS

Hark, Lisa; Deen, Darwin; and Morrison, Gail. Medical nutrition and disease: a case-based approach. 5th ed. Chichester, UK: Wiley-Blackwell, 2014. ISBN: 9781118652435. \$67.00.

Katz, David L.; Friedman, Rachel S.C.; Lucan, Sean C Nutrition in Clinical Practice. 3rd ed. Philadelphia: Wolters Kluwer Health, 2014. ISBN: 9781451186642. \$82.99.

Krause's food and the nutrition care process. 14th ed. Philadelphia: Saunders; 2017. ISBN: 9780323340755. \$172.00.

Lutz's nutrition and diet therapy. 7th ed. Philadelphia F.A. Davis; 2019. ISBN: 9780803668140. \$74.95.

Ross, A. Catharine; Caballero, Benjamin; Cousins Robert J.; Tucker, Katherine L.; Ziegler, Thomas R., eds. Modern nutrition in health and disease. 11th ed. Baltimore: Lippincott Williams & Wilkins; 2014. ISBN: 9781605474618. \$204.99.

*Title recommended for first purchase.

Stockley's herbal medicines interactions: a guide to the interactions of herbal medicines. 2nd ed. London, England: Pharmaceutical Press; 2013. ISBN: 9780857110268. \$120.00.

Temple, Norman J.; Wilson, Ted; Bray, George A, eds. Nutrition Guide for Physicians and Related Healthcare Professionals. 2nd ed. Cham, Switzerland: Humana Press; 2017. ISBN: 9783319499291. \$124.00.

Width, Mary; Reinhard, Tonia. The essential pocket guide for clinical nutrition. 2nd ed. Philadelphia: Wolters Kluwer Health, 2018. ISBN: 9781496339164. \$51.99.

Williams, Sue Rodwell. Williams' Essentials of nutrition and diet therapy. 11th ed. St. Louis: Mosby, 2014. ISBN: 9780323185806. \$89.95.

D.3.c - X.1.a NUTRITION AND NUTRACEUTICALS -CLASSICS

Bowes & Church's food values of portions commonly used. 19th ed. Philadelphia: Lippincott Williams & Wilkins; 2009. ISBN: 9780781781343. \$68.95.

D.3.c - X.7 NUTRITION AND NUTRACEUTICALS - WEB SITES

Dietary Supplement Ingredient Database: Nutrient Data Laboratory in collaboration with Office of Dietary Supplements. URL: <http://dietarysupplementdatabase.usda.nih.gov/>

Dietary supplement label database. Office of Dietary Supplements and U. S. National Library of Medicine. Free. URL: <http://www.dsld.nlm.nih.gov/dsld/>

MedlinePlus Herbs and Supplements URL: http://www.nlm.nih.gov/medlineplus/druginfo/herb_All.html

*Natural Medicines. Therapeutic Research Center. Price based on FTEs. URL: <https://naturalmedicines.therapeuticresearch.com/>

The Office of Dietary Supplements URL: <http://ods.od.nih.gov/>

PubMed Dietary Supplements Subset: Office of Dietary Supplements and U.S. National Library of Medicine. URL: https://ods.od.nih.gov/Research/PubMed_Dietary_Supplement_Subset.aspx

D.3.d ONCOLOGY AND HEMATOLOGY

Abeloff's clinical oncology. 5th ed. New York: Churchill Livingstone; 2013. ISBN: 9781455728657. \$399.00.

*Devita, Hellmann, and Rosenberg's cancer: principles and practice of oncology. 10th ed. Philadelphia: Lippincott Williams & Wilkins; 2014. ISBN: 9781451192940. \$349.99.

Hoffman, Ronald; Furie, Bruce; Mcglave, Philip; Silberstein, Leslie E.; Shattil, Sanford J.; Benz, Edward J., Jr.; Heslop, Helen, eds. Hematology: basic principles and practices. 6th ed. Philadelphia: Churchill-Livingstone; 2012. ISBN: 9781437729283. \$415.00.

Mendelsohn, John; Howley, Peter; Israel, Mark; Gray, Joe; Thompson, Craig, eds. The molecular basis of cancer. 4th ed. Philadelphia: Saunders; 2014. ISBN: 9781455740666. \$218.00.

*Title recommended for first purchase.

Perry, Michael C. Perry's the chemotherapy source book. 5th ed. Philadelphia: Lippincott Williams & Wilkins, 2012. ISBN: 9781451101454. \$99.95.

Williams hematology. 8th ed. New York: McGraw-Hill; 2010. ISBN: 9780071621519. \$275.00.

Wintrobe's clinical hematology. 13th ed. Philadelphia: Lippincott Williams & Wilkins; 2013. ISBN: 9781451172683. 394.99.

D.3.e PARENTERALS

*King guide to parenteral admixtures. 35th ed. St. Louis: King Guide; 2016. ISBN: 9780978638603. \$360.00 for first year loose-leaf edition; annual renewal \$184.00. Also available online.

*Mcevoy, Gerald K.; and Trissel, Lawrence A., eds. Handbook on injectable drugs. 18th ed. Bethesda: American Society of Health-System Pharmacists; 2014. ISBN: 9781585284191. \$380.00; also available as e-book.

*Phelps, Stephanie J.; Hak, Emily B.; Crill, Catherine M., eds. Pediatric injectable drugs: the teddy bear book. 10th ed. Bethesda: American Society of Health-System Pharmacists; 2013. ISBN: 9781585283798. \$159.00.

Phillips, Lynn Dianne. Manual of I.V. therapeutics. 6th ed. Philadelphia: F.A. Davis, 2014. ISBN: 9780803638464. \$46.95.

*Plumer's Principles and Practice of Infusion Therapy. 9th ed. Philadelphia: Lippincott Williams & Wilkins; 2014. ISBN: 9781451188851. \$72.99.

D.3.f PEDIATRICS

*Nelson textbook of pediatrics. 20th ed. Philadelphia: Elsevier; 2016. ISBN: 9781455775668. \$169.99.

D.3.f - X.2.b PEDIATRICS - HANDBOOKS AND DICTIONARIES

The Harriet Lane handbook: a manual for pediatric house officers. 20th ed. Philadelphia: Elsevier Saunders; 2015. ISBN: 9780323096447. \$59.95.

Nahata, Milap C.; Pai, Vinita B., eds. Pediatric drug formulations. 6th ed. Cincinnati: Harvey Whitney; 2011. ISBN: 9780929375328. \$104.56.

Taketomo, Carol K.; Hodding, Jane H.; Kraus, Donna M., eds. Pediatric & neonatal dosage handbook. 23rd ed. Hudson, OH: Lexi-Comp; 2016. ISBN: 9781591953586. \$89.95. Also available online and in CD-ROM and handheld versions.

D.3.g PSYCHIATRY

Aronson, Jeffrey. Meyler's side effects of psychiatric drugs. San Diego, CA: Elsevier Science, 2009. ISBN: 978044432664. \$71.95.

*Title recommended for first purchase.

Diagnostic and statistical manual of mental disorders: DSM-V. 5th ed. Washington, D.C.: American Psychiatric Association; 2013. ISBN: 978089042558. \$210.00.

Gabbard, Glen O., ed. Gabbard's treatments of psychiatric disorders. Arlington, VA: American Psychiatric Publishing; 2014. ISBN: 9781585624423. \$175.39.

Julien, Robert M. A primer of drug action: a comprehensive guide to the actions, uses, and side effects of psychoactive drugs. 13th ed. New York: Worth Publishers, 2014. ISBN: 9781464111716. \$115.85.

*Kaplan & Sadock's comprehensive textbook of psychiatry. 10th ed. Philadelphia: Lippincott Williams & Wilkins; 2017. ISBN: 9781451100471. 2-vol. set, \$404.99.

*Schatzberg, Alan F.; Nemeroff, Charles B., eds. The American Psychiatric Press textbook of psychopharmacology. 5th ed. Washington: American Psychiatric Press; 2017. ISBN: 9781585625239. \$299.00.

Stahl, Stephen M. Stahl's essential psychopharmacology: neuroscientific basis and practical applications. 4th ed. New York: Cambridge University Press, 2013. ISBN: 9781107686465. \$121.00.

D.3.g - X.2.b PSYCHIATRY - HANDBOOKS AND DICTIONARIES

Bezchlibnyk-Butler, Kalyna Z.; Jeffries, J. Joel; Procyshyn, Ric M., ed. Clinical handbook of psychotropic drugs. 22nd ed. Kirkland, WA: Hogrefe & Huber Publishers; 2017. ISBN: 9780889374966 \$99.80.

Jacobson, Sandra A.; Pies, Ronald W.; Katz, Ira R., ed. Clinical manual of geriatric psychopharmacology. 2nd ed. Washington, D.C.: American Psychiatric Publishing; 2014. ISBN: 9781585624546. \$95.00.

D.3.h SUBSTANCE ABUSE

Galanter, Marc; Kleber, Herbert D.; Brady, Kathleen, eds. American Psychiatric Publishing textbook of substance abuse treatment. 5th ed. Washington, DC: American Psychiatric Publishing; 2015. ISBN: 9781585624720. \$209.00.

Goldberg, Ray. Drugs across the spectrum. 8th ed. Pacific Grove, CA: Delmar Cengage Learning, 2019. ISBN: 9781337557368. \$113.95.

Hart, Carl L.; Ksir, Charles. Drugs, society and human behavior. 17th ed. New York: McGraw-Hill, 2018. ISBN: 9781259913860. \$227.33.

Karch, Steven B. Karch's pathology of drug abuse. 5th ed. Boca Raton, FL: Taylor and Francis, 2016. ISBN: 9781439861462. \$175.00.

Ries, Richard K.; Fiellin, David A.; Miller, Shannon; Saitz, Richard eds. The American Society of Addiction Medicine principles of addiction medicine. 6th ed. Philadelphia: Lippincott Williams and Wilkins; 2019. ISBN: 9781496370983. \$245.99.

D.3.h - X.2.b SUBSTANCE ABUSE - HANDBOOKS AND DICTIONARIES

Karch, Steven B., ed. Drug abuse handbook. 2nd ed. Boca Raton, FL: CRC/Taylor and Francis; 2007. ISBN: 9780849316906. \$270.00.

*Title recommended for first purchase.

Perkinson, Robert R.; Jongsma, Arthur E., Jr.; Bruce, Timothy J. The addiction treatment planner. 5th ed. Hoboken, NJ: Wiley, 2014 ISBN: 9781118414750. \$65.00.

Rastegar, Darius A.; Fingerhood, Michael I.; American Society of Addiction Medicine. The American Society of Addiction Medicine handbook of addiction medicine. Oxford: Oxford University Press, 2015. ISBN: 9780190214647. \$76.00.

D.3.h - X.7 SUBSTANCE ABUSE - WEB SITES

Alcohol and Drug Abuse Institute. Seattle, WA: University of Washington. URL: <http://adai.washington.edu/>

National Institute on Alcohol Abuse and Alcoholism: National Institute on Alcohol Abuse and Alcoholism. URL: <http://www.niaaa.nih.gov/>

National Institute on Drug Abuse: National Institute on Drug Abuse. URL: <http://www.drugabuse.gov/>

Substance Abuse and Mental Health Services Administration: SAMHSA. URL: <http://www.samhsa.gov>

D.3.i SURGERY

Barash, Paul G.; Cahalan, Michael K.; Cullen, Bruce F.; Stock, M. Christine, et al. Clinical Anesthesia. 8th ed. Philadelphia: Wolters Kluwer, 2017. ISBN: 9781496337009. \$131.09.

Kaye, Alan David; Kaye, Adam; Urman, Richard D., eds. Essentials of pharmacology for anesthesia, pain management, and critical care. New York; Heidelberg: Springer; 2014. ISBN: 9781461489474. \$199.00.

Miller's anesthesia. 8th ed. Philadelphia, PA: Saunders; 2014. ISBN: 9780702052835. \$449.00.

Hemmings, Hugh C.; Egan Talmage D. Pharmacology and Physiology for Anesthesia: Foundations and Clinical Application. Philadelphia: Elsevier Saunders; 2013.

Gupta, Anita; Singh-Radcliff, Nina. Pharmacology in Anesthesia Practice. New York: Oxford University Press, 20113. ISBN: 9780199782673. \$41.66.

Shafer, Steven L.; Rathmell, James P.; and Flood, Pamela. Stoelting's pharmacology and physiology in anesthetic practice. 5th ed. Philadelphia: Wolters Kluwer Health, 2015. ISBN: 9781605475509. \$169.99.

D.3.j Pregnancy and Lactation

*Briggs, Gerald G.; Freeman, Roger K. Drugs in pregnancy and lactation: a reference guide to fetal and neonatal risk. 11th ed. Philadelphia: Wolters Kluwer, 2017. ISBN: 9781496349620. \$112.99.

Hale, Thomas W. Medications & mothers' milk. 2nd ed. New York: Springer Publishing, 2018. ISBN: 9780826135582. \$59.95.

Rubin, Peter C.; Ramsey, Margaret, ed. Prescribing in pregnancy. 4th ed. London, England: BMJ; 2008. ISBN: 9781405147125. \$76.95.

*Title recommended for first purchase.

D.4 ALTERNATIVE MEDICINE

Bauer, Brent A.; Hagen, Phillip T.; and Millman, Martha, eds. Mayo Clinic book of alternative medicine & home remedies. New York Time Home Entertainment; 2013. ISBN: 9780848741228. \$24.95.

Freeman, Lynda W, ed. Mosby's complementary & alternative medicine: a research-based approach. 3rd ed. St. Louis: Mosby; 2009. ISBN: 978032305346. \$69.95.

Fundukian, Laurie J., ed. Gale encyclopedia of alternative medicine. 3rd ed. Detroit: Gale, Cengage Learning; 2009. ISBN: 9781414448725. \$540.00.

Jacobs, Bradly P.; Gundling, Katherine, eds. The ACP evidence-based guide to complementary & alternative medicine. Philadelphia: American College of Physicians; 2009. ISBN: 9781934465042. \$69.95.

Kayne, Steven B., ed. Complementary therapies for pharmacists. Complementary and alternative medicine. 2nd ed. London: Pharmaceutical Press; 2009. ISBN: 978085369763. \$65.00.

Kayne, Steven B, ed. Traditional medicine: A global perspective. London: Pharmaceutical Press; 2010. ISBN: 978085369833. \$69.99.

Mantle, Fiona; Tiran, Denise, eds. A-Z of complementary and alternative medicine: a guide for health professionals. New York: Churchill Livingstone; 2009. ISBN: 9780443103292. \$29.95.

Micozzi, Marc S. Fundamentals of complementary and alternative medicine. 5th ed. St. Louis: Saunders/Elsevier, 2015. ISBN: 9781455774074. \$57.90.

Rakel, David, ed. Integrative medicine. 4th ed. Philadelphia: Elsevier Saunders; 2018. ISBN: 9780323358682. \$90.70.

*World Health Organization. WHO traditional medicine strategy, 2014-2023. Geneva: WHO, 2013. ISBN: 9789241506090. FREE.

D.4 - X.7 ALTERNATIVE MEDICINE - WEB SITES

National Institutes of Health. National Center for Complementary and Integrative Health. Bethesda, MD: National Institutes of Health. URL: <https://nccih.nih.gov/>

E.O PHARMACEUTICAL CARE (SOCIAL, BEHAVIORAL, AND ADMINISTRATIVE PHARMACY)

Cipolle, Robert J.; Strand Linda M.; Morley Peter C. Pharmaceutical care practice. 3rd ed. New York: McGraw-Hill Medical, 2012. ISBN: 9780071756389. \$81.00.

Donyai, Parastou. Social and cognitive pharmacy; theory and case studies. London: Pharmaceutical Press, 2012. ISBN: 9780853698999. \$49.99.

Lenz, Thomas L. Lifestyle modifications in pharmacotherapy. Philadelphia: Lippincott Williams & Wilkins, 2007. ISBN: 9780781776516. \$49.95.

*Rickles, Nathaniel M.; Wertheimer, Albert I.; Smith, Mickey C., eds. Social and behavioral aspects of pharmaceutical care. 2nd ed. Sudbury, MA: Jones and Bartlett; 2010. ISBN: 9780763764081. \$112.00; also available as e-book.

*Title recommended for first purchase.

Taylor, Kevin M. G.; Nettleton, Sarah; Harding, Geoffrey. *Sociology for pharmacists*. Boca Raton, FL: CRC Press, 2003. ISBN: 9780415274876. \$100.00; also available as e-book.

Wertheimer, Albert I.; Smith, Mickey C. *A casebook in social and behavioral pharmacy*. Cincinnati: Harvey Whitney, 1987. ISBN: 9780960648863. o.p.

E.0 - X.4.0 PHARMACEUTICAL CARE (SOCIAL, BEHAVIORAL, AND ADMINISTRATIVE PHARMACY) - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN

*Bolton, Sanford; Bon, Charles. *Pharmaceutical statistics: practical and clinical applications*. 5th ed. New York: Dekker, 2010. ISBN: 9781420074222. \$259.95.

Escovitz, Alan; Pathak, Dev S. *Health outcomes and pharmaceutical care: measurement, applications, and initiatives*. Binghamton, NY: Haworth, 1996. ISBN: 9780789000088. \$59.96.

Hepler, Charles D.; Segal, Richard. *Preventing medication errors and improving drug therapy outcomes: a management systems approach*. Boca Raton, FL: CRC Press, 2003. ISBN: 9780849315763. \$149.95.

E.0 - X.6.1.c PHARMACEUTICAL CARE (SOCIAL, BEHAVIORAL, AND ADMINISTRATIVE PHARMACY) - ONLINE ABSTRACTS AND INDEXES

Social sciences citation index. Thomson Reuters, updated weekly. Available in a variety of formats and at various prices. Online version known as Social SciSearch. URL: <http://scientific.thomsonreuters.com/products/ssci/>

E.1.0 HEALTH CARE POLICY, SYSTEMS AND SERVICES

*Jonas and Kovner's health care delivery in the United States. 10th ed. New York: Springer; 2011. ISBN: 9780826106872. \$80.00.

McCarthy, Robert L.; Schafermeyer, Kenneth W. *Introduction to health care delivery: a primer for pharmacists*. 5th ed. Burlington, MA: Jones & Bartlett, 2012. ISBN: 9780763790882. \$101.95.

*Smith, Michael Ira; Wertheimer, Albert I.; Fincham, Jack E., eds. *Pharmacy and the U.S. health care system*. 4th ed. New York: Pharmaceutical Products Press; 2013. ISBN: 9780857110220. \$89.95.

E.1.a EPIDEMIOLOGY

Fletcher, Robert H.; Fletcher, Suzanne W. *Clinical epidemiology: the essentials*. 5th ed. Riverwoods, IL: Wolters Kluwer Health, 2012. ISBN: 9781451144475. \$59.99.

*Gordis, Leon. *Epidemiology*. 5th ed. Philadelphia: Elsevier Saunders, 2014. ISBN: 9781455737338. \$52.95.

Hebel, J. Richard; McCarter, Robert J. *A study guide to epidemiology and biostatistics*. 7th ed. Sudbury, MA: Jones and Bartlett, 2012. ISBN: 9781449604752. \$100.95.

*Strom, Brian L.; Kimmel, Stephen E., ed. *Textbook of pharmacoepidemiology*. 2nd ed. New York: Wiley; 2013. ISBN: 9781118344866. \$79.95.

*Title recommended for first purchase.

E.1.a - X.1.a. EPIDEMIOLOGY - CLASSICS

Yang, Yi; West-Strum, Donna, ed. Understanding pharmacoepidemiology. New York: McGraw-Hill Medical; 2011. ISBN: 9780071635004. \$45.00.

E.1.a - X.7 EPIDEMIOLOGY - WEB SITES

International Society for Pharmacoepidemiology: ISPE. URL: <http://www.pharmacoepi.org/>

E.1.b PHARMACOECONOMICS

Arnold, J. G. Renee, ed. Pharmacoeconomics: from theory to practice. Boca Raton, FL: CRC Press; 2009. ISBN: 9781420084221. \$129.95.

Bootman, J. Lyle; Townsend, Raymond J.; Mcghan, William F., eds. Principles of pharmacoeconomics. 3rd ed. Cincinnati: Harvey Whitney; 2005. ISBN: 9780929375274. \$79.95.

Mackinnon III, George E., ed. Understanding health outcomes and pharmacoeconomics. Burlington, MA: Jones & Bartlett Learning; 2013. ISBN: 9780763770990. \$98.95.

Rascati, Karen. Essentials of pharmacoeconomics. 2nd ed. Philadelphia: Lippincott, Williams and Wilkins, 2013. ISBN: 9781451175936. \$79.99.

E.1.b - X7 PHARMACOECONOMICS - WEB SITES

International Society for Pharmacoeconomics and Outcomes Research: ISPOR. URL: <http://www.ispor.org/>

E.2.0 PATIENT-RELATED ACTIVITIES

Berger, Bruce A.; Villaume, William A. Motivational interviewing for health care professionals: a sensible approach. Washington: American Pharmacists Association, 2013. ISBN: 9781582121802. \$35.00.

Falvo, Donna R. Effective patient education: a guide to increased compliance. 4th ed. Sudbury: Jones and Bartlett, 2011. ISBN: 9780763796181. \$127.95.

Galt, Kimberly A.; and Galt, Michael. Patient-centered care for pharmacists. Bethesda: American Society of Health-System Pharmacists, 2012. ISBN: 9781585282524. \$57.00.

Griffith's instructions for patients. 8th ed. Philadelphia: Elsevier Saunders, 2011. ISBN: 9781437709094. \$87.95.

Mayer, Gloria G.; Villaire, Michael. Health literacy in primary care: a clinician's guide. New York: Springer, 2007. ISBN: 9780826102294. \$65.00.

Osborne, Helen. Health literacy from A to Z: practical way to communicate your health message. 2nd ed. Burlington, MA: Jones and Bartlett Learning, 2013. ISBN: 9781449600532. \$39.95.

*Title recommended for first purchase.

Purtilo, Ruth; Haddad, Amy; Doherty, Regina. Health professional and patient interaction. 8th ed. St. Louis: Elsevier Saunders, 2014. ISBN: 9781455728985. \$59.95.

Silverman, Jonathan; Kurtz, Suzanne; Draper, Juliet. Skills for communicating with patients. 3rd ed. London: Radcliffe, 2013. ISBN: 9781846193651. \$59.95.

Tietze, Karen J. Clinical skills for pharmacists: a patient-focused approach. 3rd ed. St. Louis: Elsevier Mosby, 2004. ISBN: 9780323077385. \$78.95.

E.2.a DISEASE STATE MANAGEMENT

*Blenkinsopp, Alison; Paxton, Paul; Blenkinsopp, John. Symptoms in the pharmacy; a guide to the management of common illness. 6th ed. Malden, MA: Blackwell, 2009. ISBN: 9781405180795. \$64.95.

Kohlstadt, Ingrid, ed. Food and nutrients in disease management. New York: Informa Healthcare; 2013. ISBN: 9781420067620. \$159.95.

Nuovo, Jim, ed. Chronic disease management. New York: Springer; 2006. ISBN: 9780387329277. \$99.00.

Randall, Michael D.; Neil, Karen E. Disease management: a guide to clinical pharmacology. 3rd ed. London, England: Pharmaceutical Press, 2016. ISBN: 9780857112095. \$79.99.

Remington, Patrick L.; Borwanson, Ross C.; Wegner, Mark V., eds. Chronic disease epidemiology and control. 4th ed. Atlanta: American public Health Association; 2016. ISBN: 9780875532776. \$85.00.

E.2.b - X.2.b SELF CARE (OTCs) - HANDBOOKS AND DICTIONARIES

*Krinsky, Daniel L.; Ferreri, Stefanie P.; Hemstreet, Brian, et al., eds. Handbook of nonprescription drugs: an interactive approach to self-care. 18th ed. Washington, DC: American Pharmacists Association; 2015. ISBN: 1582122253. \$189.95.

Physician's desk reference for nonprescription drugs and dietary supplements. Montvale, NJ: Medical Economics; annual. ISBN: 1563634783. 2004, \$58.95. Also available with the PDR Electronic Library on CD-ROM and on the Internet.

E.3.0 PHARMACISTS' PROFESSIONAL DEVELOPMENT

Bookstaver, P. Brandon; Rudisill-Caulder, Celeste; Smith, Kelly M.; Quidley, April D. Roadmap to postgraduate training in pharmacy. New York: McGraw-Hill, 2013. ISBN: 9780071788755. \$75.00.

Boyle, Jaclyn, ed. Career paths in academic pharmacy: an ASHP eReport. Bethesda, MD: American Society of Health-system Pharmacists; 2015. ISBN: 9781585285068 \$9.95.

Boyle, Jaclyn, ed. Career paths in ambulatory care pharmacy: an ASHP eReport. Bethesda, MD: American Society of Health-system Pharmacists; 2014. ISBN: 9781585284870 \$9.95.

Boyle, Jaclyn; King, Benjamin; Czenkner, Rayna; Wolfe, Lauren, et al. eds. Career paths in community pharmacy: an ASHP eReport 2015. ISBN: 9781585285228. \$9.95.

*Title recommended for first purchase.

Boyle, Jaclyn, ed. Career paths in inpatient pharmacy: an ASHP eReport. Bethesda, MD: American Society of Health-system Pharmacists; 2015. ISBN: 9781585285631. \$9.95.

Caballero, Joshua; Clauson, Kevin; and Sandra, Benavides, eds. Get the Residency: ASHP's Guide to Residency Interviews and Preparation. Bethesda: American Society of Health-system Pharmacists; 2013. ISBN: 9781585283651. \$27.00.

Neimeyer, Greg J.; Taylor, Jennifer M., eds. Continuing Professional Development and Lifelong Learning: Issues, Impacts and Outcomes. Hauppauge, NY: Nova Science; 2012. ISBN: 9781621007678. \$215.00

Reinders, Thomas P. Pharmacy professional's guide to resumes, CVs and interviewing. 4th ed. Washington, DC: American Pharmacists Association, 2017. ISBN: 9781582122687. \$49.95.

Soric, Mate M.; Schneider, Stacey R.; and Wisneski, S. Scott. The effective pharmacy preceptor. 2017 ed. Bethesda, MD: American Society of Health-system Pharmacists, 2017. ISBN: 9781585285549 \$39.00.

E.3.a COMMUNICATION SKILLS

*Beardsley, Robert S.; Kimberlin, Carole L.; Tindall, William N., ed. Communication skills in pharmacy practice: a practical guide for students and practitioners. 6th ed. Philadelphia: Lippincott Williams & Wilkins; 2011. ISBN: 9781608316021. \$51.99.

Berger, Bruce A. Communication skills for pharmacists: building relationships, improving patient care. 3rd ed. Washington, DC: American Pharmacists Association, 2009. ISBN: 9781582121321. \$42.95.

Liu, Min; and Butler, Lakesha M. Patient communication for pharmacy: a case-study approach on theory and practice. Burlington, MA: Jones & Bartlett Learning, 2017. ISBN: 9781284038880. \$67.95.

O'toole, Glyn. Communication: core interpersonal skills for health professionals. 2 ed. London: Churchill Livingstone, 2012. ISBN: 9780729541008. \$79.95.

E.3.b EDUCATION

Anderson, Lorin W.; Krathwohl, David R.; Airasian, Peter W.; Cruikshank, Kathleen A.; et al. eds. A taxonomy for learning, teaching and assessing: a revision of Bloom's taxonomy of educational objectives. New York: Longman; 2000. ISBN: 9780801319037. \$99.60.

Angelo, Thomas A.; Cross, K. Patricia. Classroom assessment techniques; a handbook for college teachers. 2nd ed. San Francisco: Jossey-Bass, 1994. ISBN: 9781555425005. \$54.00.

Barkley, Elizabeth F.; Cross, Patricia K.; Major, Claire Howell, eds. Collaborative learning techniques: a handbook for college faculty. 2nd ed. San Francisco: Jossey-Bass; 2014. ISBN: 9781118761557. \$45.00.

Cuellar, Lourdes M.; Ginsburg, Diane B., eds. Preceptor's handbook for pharmacists. 3rd ed. Bethesda: American Society of Health-System Pharmacists; 2015. ISBN: 9781585284955. \$46.00.

Fink, L. Dee. Creating significant learning experiences: an integrated approach to designing college courses. 2nd ed. San Francisco: Jossey-Bass, 2013. ISBN: 9781118124253. \$38.00; also available as ebook.

*Title recommended for first purchase.

Hall, Gary D.; Reiss, Barry S. Lange Q&A pharmacy. 10th ed. New York: McGraw Hill Professional, 2011. ISBN: 9780071740678. \$61.00; also available as ebook.

Harmon, Robin, ed. Handbook of pharmacy health education. 2nd ed. London, England: Pharmaceutical Press; 2001. ISBN: 9780853694717. \$65.00.

King, Patricia; Kitchener, Karen S. Developing reflective judgment: understanding and promoting intellectual growth and critical thinking in adolescents and adults. San Francisco: Jossey-Bass, 1994. ISBN: 9781555426293. \$45.00.

McKeachie's teaching tips: strategies, research, and theory for college and university teachers. 14th ed. Belmont, CA: Wadsworth; 2014. ISBN: 9781133936794. \$99.95.

Roblyer, Margaret D. Integrating educational technology into teaching. 7th ed. Boston: Pearson/Allyn and Bacon, 2015. ISBN: 9780133792799. \$142.50.

Soric, Mate M., ed. Maximize Your Rotations: ASHP's Student Guide to IPPEs, APPEs, and Beyond. Bethesda, MD: American Society of Health-system Pharmacists; 2013. ISBN: 9781585283545 \$42.00.

E.3.b - X.1.0 EDUCATION - HISTORY

Pharmacy in the 21st century. Conference on pharmacy in the 21st century, October 11-14, 1989. Alexandria, VA: American Association of Colleges of Pharmacy; 1989. ISBN: 1553-6467 ISSN. American journal of pharmaceutical education; v.53, winter suppl, \$50.00.

E.3.b - X.1.a EDUCATION - CLASSICS

Millis, John S., ed. Pharmacists for the future: the report of The Study Commission on Pharmacy, commissioned by The American Association of Colleges of Pharmacy, 1975. Ann Arbor, MI: Health Administration Press; 1975. ISBN: 0914904140. o.p., but included in Worthen, Dennis, ed. The Millis Study Commission on Pharmacy (see entry in X.1.0 HISTORY).

Pharmacy in the 21st century: planning for an uncertain future; the proceedings from a strategic planning conference for the professional pharmacy community in cooperation with The Institute for Alternative Futures and Project HOPE Institute for Health Policy, March 25-28, 1984. Alexandria, VA: Institute for Alternative Futures and Project HOPE; 1985 o.p.

Pharmacy in the 21st century: the third strategic planning conference for pharmacy practice, October 7-10, 1994. Washington, DC: American Pharmacists Association; 1995 o.p.

Worthen, Dennis B., ed. The Millis study commission on pharmacy: a road map to a profession's future. London: Informa Healthcare; 2006. ISBN: 9780789024244. \$60.00.

E.3.b - X.7 EDUCATION - WEB SITES

*Accreditation Council for Pharmacy Education. Chicago: Accreditation Council for Pharmacy Education. URL: <https://www.acpe-accredit.org>

American Association of Colleges of Pharmacy. Alexandria, VA: American Association of Colleges of Pharmacy. URL: <http://www.aacp.org>

*Title recommended for first purchase.

E.3.c INTERPROFESSIONAL EDUCATION

Forman, Dawn; Jones, Marion; Thistlethwaite, Jill, eds. Leadership and collaboration: further developments for interprofessional education. London, England: Palgrave Macmillan; 2015. ISBN: 9781137432070. \$115.

Forman, Dawn; Jones, Marion; Thistlethwaite, Jill, eds. Leadership development for interprofessional education and collaborative practice. London, England: Palgrave Macmillan; 2014. ISBN: 9781137363015. \$109.99.

Forman, Dawn; Jones, Marion; Thistlethwaite, Jill, eds. Leading research and evaluation in interprofessional education and collaborative practice. London, England: Palgrave Macmillan; 2016. ISBN: 9781137537423. \$159.99.

Howkins, Elizabeth; Bray, Julia; Barr, Hugh, eds. Preparing for interprofessional teaching: theory and practice. New York: Radcliffe; 2008. ISBN: 9781846190988. \$45.00.

*Institute of Medicine. Interprofessional education for collaboration: learning how to improve health from interprofessional models across the continuum of education to practice. Washington, DC: National Academies Press, 2013. ISBN: 9780309263498. \$45.00; free pdf version

Slusser, Margaret; Garcia, Luis; Reed, Carole-Rae; Mcginnis, Patricia Q., eds. Foundations of Interprofessional Collaborative Practice in Health Care. Philadelphia, PA: Mosby; 2018. ISBN: 9780323462419. \$59.95.

Thistlethwaite, Jill. Values-based interprofessional collaborative practice: working together in health care. West Nyack, NY: Cambridge University Press, 2012. ISBN: 9781107636163. \$53.00.

Weiss, Donna; Tilin, Felice; and Morgan, Marlene. The interprofessional health care team: leadership and development. Burlington, MA: Jones & Bartlett Learning, 2014. ISBN: 9781449673369. \$64.95.

E.3.c - X.7 INTERPROFESSIONAL EDUCATION - WEB SITES

American Interprofessional Health Collaborative. URL: <http://www.aihc-us.org/>

Centre for the Advancement of Interprofessional Education (CAIPE). URL: <http://www.caipe.org.uk/>

Interprofessional Education Collaborative, 2019. URL: <https://www.ipecollaborative.org/>

National Center for Interprofessional Practice and Education. URL: <https://nexusipe.org/>

E.3.d CULTURAL COMPETENCY

*Brannigan, Michael C. Cultural fault lines in healthcare: Reflections on cultural competency. Lanham, MD: Lexington Books, 2012. ISBN: 9780739149676. \$74.00.

Dreachslin, Janice L.; Gilbert, M. Jean; and Malone, Beverly. Diversity and cultural competence in health care a systems approach San Francisco: Jossey-Bass, 2013. ISBN: 9781118065600. \$85.00.

*Fadiman, Anne. The Spirit Catches You and You Fall Down: A Hmong child, her American doctors, and the collision of two cultures. New York: Farrar, Straus and Giroux, 2012. ISBN: 9780374533403. \$15.00.

*Title recommended for first purchase.

*Galanti, Geri-Ann. Caring for patients from different cultures. 5th ed. Philadelphia: University of Pennsylvania Press, 2014. ISBN: 9780812223118. \$22.50.

*Halbur, Kimberly V.; Halbur, Duane A; and American Pharmacists Association, eds. Essentials of cultural competence in pharmacy practice. Washington, D.C.: American Pharmacists Association; 2008. ISBN: 9781582121130. \$32.95 Supplementary materials on American Pharmacist's Association Pharmacy Library.

Hsieh, Elaine. Bilingual Health Communication: Working with interpreters in cross-culture care. New York: Routledge, 2016. ISBN: 9781138999459. \$49.95.

Kisch, Glenn L. Essential Spanish for pharmacists. Washington, DC: American Pharmacists Association, 2005. ISBN: 9781582120799. \$17.00.

Liu, Min; Butler, Lakesha M. Patient Communication for Pharmacy. A case-study approach on theory and practice. Sudbury, MA: Jones and Bartlett Publishers, 2017. ISBN: 9781284038880. \$69.95.

Martin, Marcus L.; Heron, Sheryl L.; Moreno-Walton, Lisa; Jones, Anna W, ed. Diversity and Inclusion in Quality Patient Care. New York: Springer; 2016. ISBN: 9783319228396. \$129.00.

Pàerez, Miguel A.; and Luquis, Raffy R., eds. Cultural competence in health education and health promotion. 2nd ed. San Francisco, CA: Jossey-Bass; 2014. ISBN: 9781118347492. \$80.00.

*Purnell, Larry D. Guide to culturally competent health care 4th ed. Philadelphia: F.A. Davis Co., 2013. ISBN: 9780803637054. \$64.95.

Sias, Jeri J.; James, Susana V.; De Martinez, Cristina Cabello C., et al. Spanish for the pharmacy professional. Washington, DC: American Pharmacists Association, 2009. ISBN: 9781582121208. \$49.50.

Smith, Patricia, ed. Disability and Culture: An international and Inter-professional perspective. Champaign, IL: Common Ground Publishing; 2015. ISBN: 9781612299433. \$40.00.

Sobo, Elisa J. The cultural context of health, illness, and medicine. 2nd ed. Santa Barbara, Calif.: Praeger, 2010. ISBN: 9780313377853. \$49.00.

*Sorajjakool, Siroj; Carr, Mark F.; and Nam, Julius J., eds. World religions for healthcare professionals. 2nd ed. New York: Routledge; 2017. ISBN: 9781138189140. \$49.95.

*Spector, Rachel E. Cultural diversity in health and illness. 8th ed. Boston: Pearson, 2012. ISBN: 9780132840064. \$71.20.

Stuart, Barbara; Cherry, Catherine; and Stuart, Jill. Pocket guide to culturally sensitive health care. 2nd ed. Philadelphia, PA: F.A. Davis, DavisPlus, 2011. ISBN: 9780803622630. \$34.95.

*Tseng, Wen-Shing; and Streltzer, Jon. Cultural competence in health care. New York: Springer, 2008. ISBN: 9780387721705. \$69.99.

Waugh, Earle; Szafran, Olga; Triscott, Jean A.C.; Parent, Roger. Cultural Competency Skills for Health Professionals: A workbook for caring across cultures. Toronto, Canada: Brush Education, 2014. ISBN: 9781550596205. \$79.95. Includes DVD.

*White, Augustus A.; and Chanoff, David. Seeing patients: Unconscious bias in health care. Cambridge, Mass.: Harvard University Press, 2011. ISBN: 9780674049055. \$31.50.

*Title recommended for first purchase.

*White, Joseph L.; and Henderson, Sheila J, eds. Building multicultural competency: Development, training, and practice. Lanham, MD: Rowman & Littlefield Publishers; 2008. ISBN: 9780742564206. \$79.00.

E.4.0 PROFESSIONAL PRACTICE

Chisholm-Burns, Marie A.; Vaillancourt, Allison M.; Shepherd, Marv, eds. Pharmacy management, leadership, marketing and finance. Sudbury, MA: Jones and Bartlett; 2011. ISBN: 9781449613433. \$56.95.

Desselle, Shane P.; Zgarrick, David P., eds. Pharmacy management: essentials for all practice settings. 2nd ed. New York: McGraw-Hill; 2008. ISBN: 9780071494366. \$57.95.

Harding, Geoffrey; and Taylor, Kevin, eds. Pharmacy practice. 2nd ed. Boca Raton: CRC Press, Taylor & Francis Group; 2016. ISBN: 9781482253429. \$99.00.

Holdford, David A. Marketing for pharmacists. 2nd ed. Washington, DC: American Pharmacists Association, 2007. ISBN: 9781582121062. \$55.00.

Lauster, Colleen C; and Srivastava, Sneha B. Fundamental skills for patient care in pharmacy practice. Burlington: Jones and Bartlett, 2014. ISBN: 9781449652722. \$81.95.

Practitioners, Joint Commission of Pharmacy. Pharmacist's Patient-Care Process. Washington, DC; 2014.

Peterson, Andrew M., And William N. Kelly, ed. Leadership and management in pharmacy practice. Boca Raton, FL: CRC Press; 2014. ISBN: 9781466589629. \$79.96.

*Remington: the science and practice of pharmacy. 22nd ed. Philadelphia: Pharmaceutical Press; 2012. ISBN: 9780857110626. \$185.00.

Thompson, Judith E.; Davidow, Lawrence. A practical guide to contemporary pharmacy practice. 3rd ed. Philadelphia: Lippincott Williams & Wilkins, 2009. ISBN: 9780781783965. \$75.95.

E.4.0 - X.3 PROFESSIONAL PRACTICE - LAWS, LEGISLATION, REGULATIONS, AND ETHICS

Buerki, Robert A, Vottero, Louis D. Pharmacy Ethics: A Foundation for Professional Practice. Washington DC: American Pharmacists Association, 2013. ISBN: 9781582121796. \$43.95.

*Veatch, Robert; Haddad, Amy, ed. Case studies in pharmacy ethics. 2nd ed. Oxford, England: Oxford; 2008. ISBN: 9780195308129. \$29.99.

E.4.0 - X.7 PROFESSIONAL PRACTICE - WEB SITES

American College of Apothecaries. URL: <http://www.americancollegeofapothecaries.com/>

American Pharmacists Association: APHA. URL: <http://www.pharmacist.com>

American Society of Health-System Pharmacists: ASHP. URL: <http://www.ashp.org>

American Society of Consultant Pharmacists. ASCP, 2011. URL: <http://www.ascp.com>

*Title recommended for first purchase.

National Alliance of State Pharmacy Associations. NASPA, 2011. URL: <http://www.ncspae.org>

National Community Pharmacists Association: NCPA. URL: <http://www.ncpanet.org/>

Pharmacy Compounding Accreditation Board: PCAB. URL: <http://www.pcab.info/>

U.S. Pharmacopeia: United States Pharmacopeial Convention. URL: <http://www.usp.org>

E.4.a COMMUNITY PHARMACY

Addison, Brian; Brown, Alyson; Edwards, Ruth; Gray, Gwen. Minor illness or major disease? 6th ed. Grayslake, IL: Pharmaceutical Press, 2016. ISBN: 9780857112149. \$60.00.

Angelo, Lauren B.; Cerulli J. How to conduct a comprehensive medication review: a guidebook for pharmacists. Washington, DC: American Pharmacists Association, 2014. ISBN: 9781582122168. \$16.95.

Chain drug review: annual report of retail pharmacy. New York: Racher Press; annual. ISBN: ISSN: 0164-9914. \$100.00.

Goode, Jean-Venable R.; Roman, Lynne M.; Weitzel, Kristin W., eds. Community pharmacy practice case studies. Washington, DC: American Pharmacists Association; 2009. ISBN: 9781582121055. \$53.89.

*NCPA-Pfizer digest. Alexandria, VA: National Community Pharmacists Association, 2007. ISBN: LCCN: 2004235207. \$99.00 with membership.

Rutter, Paul. Community pharmacy: symptoms, diagnosis and treatment. 4th ed. New York: Elsevier Health Sciences, 2017. ISBN: 9780702069970. \$63.99.

Waterfield, Jon. Community pharmacy handbook. Chicago: Pharmaceutical Press, 2008. ISBN: 9780853697169. \$39.99.

E.4.a - X.1.a COMMUNITY PHARMACY - CLASSICS

Tindall, William N.; Millonig, Marsha K. Pharmaceutical care: insights from community pharmacists. Boca Raton, FL: CRC Press, 2003. ISBN: 9781566769532. \$84.95.

E.4.a - X.7 COMMUNITY PHARMACY - Web Sites

Medication Therapy Management (MTM) Resource Library. Washington, DC: American Pharmacists Association. URL: https://www.pharmacist.com/mtm_library

E.4.b HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY

Comprehensive accreditation manual for ambulatory care (CAMAC). Oakbrook Terrace, IL: Joint Commission on Accreditation of Healthcare Organizations; loose-leaf, updated biannually. ISBN: 9781599409511. \$374.00; updates, \$274.00.

*Title recommended for first purchase.

Comprehensive accreditation manual for hospitals (CAMH): the official handbook. Oakbrook Terrace, IL: Joint Commission on Accreditation of Healthcare Organizations; loose-leaf, updated biannually. ISBN: 9781599405698. \$469.00; updates, \$350.00; both, \$819.00.

Comprehensive accreditation manual for long term care (CAMLTC). Oakbrook Terrace, IL: Joint Commission on Accreditation of Healthcare Organizations; loose-leaf, updated biannually. ISBN: 9781599405735. \$332.00; updates, \$250.00; both, \$582.00.

E.4.b – X.1.a HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY - CLASSICS

Holdford, David A.; and Brown, Thomas R, eds. Introduction to hospital and health-system pharmacy practice. Bethesda: American Society of Health-System Pharmacists; 2010. ISBN: 9781585282371. \$51.00.

Kienle, Patricia; Murdaugh, Lee B; Uselton, John P. Assuring continuous compliance with Joint Commission standards: a pharmacy guide. 8th ed. Bethesda: American Society of Health-System Pharmacists, 2010. ISBN: 9781585282425. \$153.00.

E.4.b - X.3 HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY - LAWS, LEGISLATION, REGULATIONS, AND ETHICS

*Best practices for hospital & health-system pharmacy: position & guidance documents of ASHP. Bethesda: American Society of Health-System Pharmacists; 2016. ISBN: 9781585285839. \$114.00.

E.4.b - X.5 HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY - DIRECTORIES

*AHA guide to the health care field: a guide to United States hospitals, health care systems, networks, alliances, health organizations, agencies, and providers. Chicago: Healthcare InfoSource; annual. ISBN: 0094-8969 ISSN. \$391.00.

*AHA hospital statistics. Chicago: Health Forum; annual. ISBN: 0090-6662 ISSN. \$283.00, 2017.

E.4.b - X.7 HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY - WEB SITES

American Society of Health System Pharmacists. Policy Positions & Guidelines. Bethesda: American Society of Health-System Pharmacists. URL: <http://www.ashp.org/bestpractices>

PPMI: Pharmacy Practice Model Initiative. Bethesda: American Society of Health-System Pharmacists. URL: <http://www.ashpmedia.org/ppmi/>

E.4.c HOME HEALTH CARE

Council, Institute of Medicine and National Research. The future of home health care: Workshop summary. Washington, DC: The National Academies Press, 2015. ISBN: 9780309367530. \$49.00.

Frey, Dennee, ed. Improving medication management in home care: issues and solutions. New York: Routledge; 2005. ISBN: 9780789030528. \$140.00.

*Title recommended for first purchase.

Joint Commission on Accreditation of Healthcare Organizations. Standards for pharmacy dispensing, clinical/consultant pharmacist, long term care pharmacy, and freestanding ambulatory infusion services, 2009. Oakbrook Terrace, IL: Joint Commission on Accreditation of Healthcare Organizations, 2008. ISBN: 9781599402604. \$110.00.

Pharmacists, American Society of Health-System. ASHP guidelines on evaluating and using home or alternate-site infusion service providers. Am J Health-Syst Pharm. 2016;73:922–6.

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