

AACP BASIC RESOURCES FOR PHARMACY EDUCATION

Summer Edition, 2022

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Introduction

The AACP *Basic Resources for Pharmacy Education* is produced as a guide for those developing or maintaining the library collections that serve colleges and schools of pharmacy. The goal of the Basic Resources list is to make recommendations of books and other works to be included in pharmacy libraries, but not all titles are required to be purchased. 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 and drug information specialists using their professional judgment along with the expertise of the college's faculty. The Basic Resources list 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.

Methods

The Basic Resources list is a service project of the Library and Information Sciences Section of AACP. The list consists of 64 subject sections that are each reviewed every three years by a contributor who makes suggestions for additions and deletions. Contributors consist of librarians and drug information specialists and are assigned up to three subject sections to review.

Using the current list as a starting point, contributors consult with faculty from their institution who have expertise in their assigned subject section. Contributors may also utilize library catalogs, publisher's websites, book reviews in scholarly journals, and authoritative lists such as Doody's Core Titles or Choice Reviews to identify titles for their sections. Suggested additions are meant to support pharmacy curriculums that will be offered at the majority of institutions while being mindful of the variety of programs and degrees offered at colleges and schools of pharmacy.

In general, reference books that retain their utility, volumes that have influenced major changes in pharmaceutical education, and volumes that are of sufficient interest to have been reprinted recently will be retained beyond six years and defined as a "classic." This designation is also intended for those titles that should be considered for retention when earlier books, in general, are being discarded. Whether or not an effort should be made to acquire these titles for a collection that lacks them depends on the importance of their content to the individual school. All non-English language books and other materials, including foreign pharmacopeias because of irrelevancy to the basic curriculum, will be omitted from the list.

The editors of the Basic Resources list will compile the recommended additions and deletions for each review cycle, and an advisory panel of pharmacy librarians and faculty members will vote on the suggested changes. Approved changes are subsequently incorporated into the list's database. The entire Basic Resources list is reviewed every three years and published semiannually.

Results

The following sections were updated in this edition of the Basic Resources list: B.4.0 Drug Design, Discovery, and Development, B.5.0 Industrial, B.8.0 Pharmacology, D.3.h Substance Abuse, X.2.c Evidence-Based Practice, and X.2 Laws, Legislation, Regulations, and Ethics. Following recommendations from the contributors and review by the advisory panel, 16 books and other works were added to the list, and 16 were removed.

Future Directions

The next edition of the Basic Resources list will take place during the Winter of 2023, with a target publication date of February 2023.

^aUniversity of Findlay ^bChapman University ^cUniversity of South Florida ^dThe University of Iowa ^eBinghamton University
^fNortheastern University ^gD'Youville College ^hFerris State University ⁱUniversity of Arizona ^jPurdue University ^kManchester
University ^lCampbell University ^mRutgers University ⁿUniversity of Texas El Paso ^oUniversity of California San Diego
^pUniversity of Health Sciences & Pharmacy ^qTexas A&M University ^rChicago State University ^sAppalachian College of
Pharmacy ^tJames A Haley Veterans Hospital & Clinics ^uThe University of Oklahoma ^vThe University of North Texas

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.7 BASIC SCIENCES - ONLINE RESOURCES (Updated Summer 2021)

Biological Abstracts. Web of Science, URL: <https://www.micromedexsolutions.com/>

BIOSIS previews. Web of Science, Available from a variety of vendors and at various prices URL: <https://clarivate.com/webofsciencgroup/solutions/webofscience-biosis-previews/>

SciFinder. Chemical Abstracts Service, Available at various prices. URL: <https://www.cas.org/solutions/cas-scifinder-discovery-platform/cas-scifinder>

Scopus. Elsevier, Available at various prices. URL: <https://www.elsevier.com/solutions/scopus>

Web of Science. Clarivate Analytics, Available as core collection and subject-specific collections at various prices. URL: <https://clarivate.com/webofsciencgroup/solutions/web-of-science/>

A.1 GENERAL CHEMISTRY (Updated Summer 2021)

Flowers, Paul; Theopold, Klaus ; Langley, Richard, et al. Chemistry. 2nd ed. Houston, TX: OpenStax, 2019. ISBN: 9781947172623. \$53.06; also available as an open educational resource.

Vančik, Hrvoj. Basic organic chemistry for the life sciences. New York: Springer, 2014. ISBN: 9783319076041. \$84.99; also available as an ebook.

A.1 - X.2.b GENERAL CHEMISTRY - HANDBOOKS AND DICTIONARIES (Updated Summer 2021)

CRC handbook of chemistry and physics. Boca Raton, FL: CRC, annual. \$230; also available as an ebook on CHEMnetBASE.

A.1 - X.7 GENERAL CHEMISTRY - ONLINE RESOURCES (Updated Summer 2021)

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 (Updated Summer 2021)

Berg, Jeremy; Gatto, Gregory J.; Tymoczko, John L., et al. Biochemistry. 9th ed. New York: W. H. Freeman, 2019. ISBN: 9781319114671. \$349.99; also available as an ebook.

Bhutani, S. P. Chemistry of biomolecules. 2nd ed. Boca Raton, FL: CRC Press, 2020. ISBN: 9780367208554. \$240.00; also available as an ebook.

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

*Lehninger principles of biochemistry. 8th ed. New York: W.H. Freeman, 2021. ISBN: 9781319228002. \$307.99; also available as an ebook.

*Title Recommended for first purchase

A.3 IMMUNOLOGY (Updated Summer 2021)

Abbas, Abul K.; Lichtman, Andrew H.; Pillai, Shiv, et al., eds. Basic immunology: functions and disorders of the immune system. 6th ed. Philadelphia: Elsevier, 2020. ISBN: 9780323549431. \$70.00; also available as an ebook.

American Academy of Pediatrics. Red Book: 2021-2024 Report of the Committee on Infectious Diseases. 32nd ed. Itaska, IL: American Academy of Pediatrics, 2021. ISBN: 9781610025218. \$150.00; also available as an ebook on STAT!Ref.

Centers for Disease Control and Prevention; Brunette, Gary W.; and Nemhauser, Jeffrey B., eds. CDC yellow book 2020 : health information for international travel. New York: Oxford University Press, 2019. ISBN: 9780190928933. \$58.00; also available as free ebook.

Centers for Disease Control and Prevention; Hamborsky, Jennifer; Kroger, Andrew, et al., eds. Epidemiology and prevention of vaccine-preventable diseases: the pink book. 13th ed. Washington, D.C.: Public Health Foundation, 2015. ISBN: 9780990449119. Free.

Flaherty, Dennis. Immunology for pharmacy. St. Louis, MO: Elsevier 2012. ISBN: 9780323069472. \$91.95; also available as ebook.

*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; also available as ebook.

Janeway's immunobiology. 9th ed. New York: Garland Science, Taylor & Francis Group, 2016. ISBN: 9780815345053. \$130.00.

Middleton's allergy essentials. Philadelphia: Elsevier, 2017. ISBN: 9780323375795. \$120.00; also available as ebook.

Middleton's allergy: principles and practice. 9th ed. Philadelphia: Saunders, 2020. ISBN: 9780323544245. \$350.00; also available as ebook on ClinicalKey.

Roitt's essential immunology. 13th ed. Hoboken, NJ: John Wiley & Sons, 2017. ISBN: 9781118415771. \$64.00; also available as ebook.

Rose, Noel R.; and Mackay, Ian R., eds. The autoimmune diseases. 6th ed. San Diego, CA: Academic Press, 2020. ISBN: 9780128122426. \$300.00; also available as an ebook.

Southwick, Frederick S. Infectious Diseases: A Clinical Short Course. 4th ed. New York: McGraw-Hill, 2020. ISBN: 9781260143669. \$85.00; also available as an ebook on AccessMedicine.

Sunshine, Geoffrey H.; and Coico, Richard. Immunology: a short course. 8th ed. New York: Wiley-Blackwell, 2021. ISBN: 9781119551577. \$75.00.

A.4.0 MICROBIOLOGY (Updated Fall 2018)

Ackers, Louise; Ackers-Johnson, Gavin; Welsh, Joanne, et al., eds. Anti-microbial resistance in global perspective. Cham, Switzerland: Palgrave Macmillan (Springer Nature), 2020. ISBN: 9783030626617. \$59.99.

*American Academy of Pediatrics. Committee on Infectious Diseases, ed. Red book: 2021-24 report of the Committee on Infectious Diseases. 32th ed. Elk Grove Village, IL: The Academy, 2021. ISBN: 9781610025218. \$149.95, also available as an ebook.

*Title Recommended for first purchase

Davey, Peter. Antimicrobial chemotherapy. 7th ed. New York: Oxford University Press, 2015. ISBN: 978-0199689774. \$87.00, also available as an ebook.

Hanlon, Geoff; and Hodges, Norman A, eds. Essential Microbiology for Pharmacy and Pharmaceutical Science. Wiley-Blackwell, 2013. ISBN: 9780470665343. \$50.95, also available as an ebook.

*Jawetz, Melnick & Adelberg's medical microbiology. 28th ed. New York: McGraw-Hill, 2019. ISBN: 9781260012026. \$99.00, also available as an ebook.

Nelson's pediatric antimicrobial therapy. Itasca, IL: American Academy of Pediatrics, 2021. ISBN: 9781610024440. \$36.95, also available as an ebook.

Sanford guide to antimicrobial therapy. 51st ed. Sperryville, VA: Antimicrobial Therapy, 2021, 2021. ISBN: 9781944272180. \$47.99, also available as an ebook.

Sherris & Ryan's medical microbiology. 8th ed. New York: McGraw-Hill, 2021. ISBN: 9781260464283. \$99.00, also available as an ebook.

A.4.0 - X.4.0 MICROBIOLOGY-METHODOLOGY, STATISTICS AND RESEARCH DESIGN (Updated Fall 2018)

Bacteriological analytical manual online. Washington, DC: Center for Food Safety and Applied Nutrition, U.S. Food and Drug Administration, 1998-. URL: <https://www.fda.gov/food/laboratory-methods-food/bacteriological-analytical-manual-bam>

A.4.a MOLECULAR BIOLOGY AND BIOTECHNOLOGY (Updated Summer 2021)

Chandar, Nalini; and Viselli, Susan. Cell and molecular biology. 2nd ed. Philadelphia: Wolters Kluwer, 2019. ISBN: 9781496348500. \$55.99; also available as an ebook.

*Lodish, Harvey F.; Berk, Arnold; and Kaiser, Chris A. Molecular cell biology. 9th ed. New York: W.H. Freeman, 2021. ISBN: 9781319208523. \$273.99; also available as an ebook.

Patra, J.K.; Kumar Das, S.; Das, G., et al. A Practical guide to pharmacological biotechnology. New York: Springer, 2019. ISBN: 9789811363542. \$84.99; also available as an ebook.

A.4.a - X.7 MOLECULAR BIOLOGY AND BIOTECHNOLOGY – ONLINE RESOURCES (Updated Summer 2021)

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

B.0 - PHARMACEUTICAL SCIENCES (Updated Fall 2019)

Pandit, Nita K.; and Soltis, Robert P. Introduction to the pharmaceutical sciences: an integrated approach. 2nd ed. Baltimore: Wolters Kluwer Health/LWW, 2011. ISBN: 9781609130015. \$50.47.

Swarbrick, James. Encyclopedia of pharmaceutical science and technology. 4th ed. Boca Raton: CRC Press, 2013. ISBN: 9781841848198. \$2295.56.

*Title Recommended for first purchase

B.0 - X.7 PHARMACEUTICAL SCIENCES - ONLINE RESOURCES (Updated Fall 2019)

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

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.1 MEDICINAL CHEMISTRY (Updated Spring 2020)

Annual reports in medicinal chemistry. Boston: Elsevier Academic Press, annual. Vol. 54, \$175.00.

*Burger's medicinal chemistry and drug discovery. 7th ed. Hoboken, NJ: Wiley, 2010. ISBN: 9780470278154. Vols. 1-8, \$2917.25; also available as an ebook in Credo Reference.

Cairns, Donald. Essentials of pharmaceutical chemistry. 4th ed. London, England: Pharmaceutical Press, 2012. ISBN: 9780853699798. \$66.00; also available as an ebook.

*Foye's principles of medicinal chemistry. 8th ed. Philadelphia: Wolters Kluwer, 2020. ISBN: 9781496385024 \$109.00; also available as an ebook on LWW Health Library.

Harrold, Marc W.; and Zavod, Robin M. Basic concepts in medicinal chemistry. 2nd ed. Bethesda, MD: American Society of Health-System Pharmacists, 2018. ISBN: 9781585286010. \$63.00; also available as an ebook.

Lemke, Thomas L. Review of organic functional groups: introduction to medicinal organic chemistry. 5th ed. Philadelphia: Wolters Kluwer, 2012. ISBN: 9781608310166. \$69.95; also available as an ebook on LWW Health Library.

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. \$109.99.

B.1 - X.1.a MEDICINAL CHEMISTRY - CLASSICS (Updated Spring 2020)

Negwer, Martin. Organic-chemical drugs and their synonyms. 9th ed. New York: Wiley-VCH, 2007. ISBN: 3527319395. \$3502.50; also available as an ebook on Wiley.

B.1 - X.4.0 MEDICINAL CHEMISTRY - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN (Updated Spring 2020)

Profiles of drug substances, excipients, and related methodology. Boston: Elsevier Academic, annual. Vol. 45 (2020), \$245.00, Vol. 44-37, \$245. Vols. 36-33, \$260, vols. 32-31, \$275, vol. 30, \$260. 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).

*Title Recommended for first purchase

B.1 - X.7 MEDICINAL CHEMISTRY - ONLINE RESOURCES (Updated Spring 2020)

ACS Division of Medicinal Chemistry. URL: <https://acsmedchem.org/>

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

PubChem [database]. URL: <https://pubchem.ncbi.nlm.nih.gov/>

B.2 PHARMACOGNOSY AND NATURAL PRODUCTS (Updated Spring 2020)

Badal, Simone. Pharmacognosy: Fundamentals, applications and strategies. London: Elsevier Academic Press, 2017. ISBN: 9780128021040. \$150.00; also available as an ebook.

Colegate, Steven M.; and Molyneux, Russell J., eds. Bioactive natural products: detection, isolation, and structural determination. Boca Raton, FL: CRC, 2007. ISBN: 9780849372582. \$215.00; also available as an ebook.

Dermarderosian, Ara; and Beutler, John A., eds. Review of natural products. 8th ed. St. Louis: Facts & Comparisons, 2014. \$102.95.

Hanson, Bryan, ed. Understanding medicinal plants: their chemistry and therapeutic action. New York: Routledge, 2005. ISBN: 9780789015518. \$215.00; also available as an ebook.

Heinrich, Michael; Barnes, Joanne; and Prieto-Garcia, Jose. Fundamentals of pharmacognosy and phytotherapy. 3rd ed. London: Elsevier, 2019. ISBN: 9780702070082. \$59.99; also available as an ebook.

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; also available as an ebook.

Hume, Anne; and Orr, Kathleen K., eds. Principles and Practice of Botanicals as an Integrative Therapy (Clinical Pharmacognosy Series). Boca Raton, FL.: CRC Press, 2019. ISBN: 9781498771146. \$219.95; also available as an ebook.

Lam, Francis Y. W.; Huang, Shiew Mei; and Hall, Stephen D., eds. Herbal Supplements – Drug Interactions: Scientific and Regulatory Perspectives. New York: Taylor and Francis, 2006. ISBN: 9780824725389. \$190.00; also available as an ebook.

Mukherjee, Pulok K. Evidence-based validation of herbal medicine. Amsterdam: Elsevier, 2015. ISBN: 9780128008744. \$225.00; also available as an ebook.

Natural Standard. Herb & supplement guide: evidence based reference. St. Louis: Mosby, 2010. ISBN: 9780323072953. \$93.95; also available as an ebook

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; also available as an ebook.

*Trease and Evans' pharmacognosy. 16th ed. Edinburgh, Scotland: Saunders, 2009. ISBN: 9780702029332. \$129.00; also available as an ebook

*Tyler's herbs of choice: the therapeutic use of phytomedicinals. 3rd ed. Boca Raton: CRC Press, 2009. ISBN: 0789028093. \$155.00; also available as an ebook.

*Title Recommended for first purchase

B.2 - X.1.0 PHARMACOGNOSY AND NATURAL PRODUCTS - HISTORY (Updated Spring 2020)

Duke's handbook of medicinal plants of the Bible. Boca Raton, FL: CRC Press, 2007. ISBN: 9780849382024. \$145.00; also available as an ebook.

B.2 - X.1.a PHARMACOGNOSY AND NATURAL PRODUCTS - CLASSICS (Updated Spring 2020)

Cupp, Melanie J.; and Tracy, Timothy S., eds. Dietary supplements: toxicology and clinical pharmacology. Totowa, NJ: Humana, 2003. ISBN: 9781588290144. \$179.00; also available as an ebook.

Duke, James A. Herbs of the Bible: 2000 years of plant medicine. 2nd ed. Warsaw, IN: Whitman Publications, 2007. ISBN: 9781885653161. \$151.00 o.p.

Dymock, William; Warden, C. J. H.; and 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.; also available as an ebook on Google Books.

Huang, Kee Chang; and Williams, Michael W. The pharmacology of Chinese herbs. 2nd ed. Boca Raton, FL: CRC Press, 1999. ISBN: 9780849316654. \$300.00.

Kayne, Steven. Homeopathic pharmacy: an introduction and handbook. 2nd ed. New York: Churchill Livingstone, 2006. ISBN: 9780443101601. \$87.95 o.p.; also available as an ebook.

Nigg, Herbert N., ed. Phytochemical resources for medicine and agriculture. New York: Springer-Verlag, 2013. ISBN: 9781489925862. \$219.00; also available as an ebook.

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

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

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

Von Reis, Siri; and Lipp Jr., Frank J. New plant sources for drugs and foods from the New York Botanical Garden herbarium. Cambridge, MA: Harvard, 1982. ISBN: 9780674617650. \$86.50.

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

Weiss's herbal medicine: Classic edition. New York: Thieme, 2001. ISBN: 9781588900692 \$100.00 o.p.

B.2 - X.2.b PHARMACOGNOSY AND NATURAL PRODUCTS - HANDBOOKS AND DICTIONARIES (Updated Spring 2020)

Duke, James A.; Bogenschulz-Godwin, Mary Jo; and Duke, Peggy-Ann K. Handbook of medicinal herbs. 2nd ed. Boca Raton, FL: CRC, 2002. ISBN: 9780849312847. \$355.00; available as an ebook.

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

Eisenbrand, Gerhard; and Tang, Weici. Handbook of Chinese Medicinal Plants: Chemistry, Pharmacology, Toxicology. Weinheim: Wiley-VCH, 2010. ISBN: 9783527322268. \$525.25.

*Title Recommended for first purchase

*Leung's encyclopedia of common natural ingredients used in food, drugs, and cosmetics. 3rd ed. New York: Wiley, 2010. ISBN: 9780471467434. \$175.75; available as an ebook.

Mills, Edward; Dugoua, Jean-Jacques; Perri, Dan, et al. Herbal medicines in pregnancy and lactation: an evidence-based approach. London: Taylor & Francis, 2006. ISBN: 9780415373920. \$45.00; also available as an ebook.

Ross, Ivan A. Medicinal plants of the world: chemical constituents, traditional and modern medicinal uses. 2nd ed. Totowa, NJ: Humana, 2003-2005. ISBN: 9781588292810 (vol. 1); 9780896038776 (vol. 2); 9781588291295, (vol. 3). Vol. 1-3, \$249.00 each; also available as an ebook.

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. \$355.00.

B.2 - X.2.b PHARMACOGNOSY AND NATURAL PRODUCTS - HANDBOOKS AND DICTIONARIES - CLASSICS (Updated Spring 2020)

Tyler's honest herbal: a sensible guide to the use of herbs and related remedies. 4th ed. New York: Routledge, 1999. ISBN: 9780789007056. \$58.95; available as an ebook.

B.2 - X.4.0 PHARMACOGNOSY AND NATURAL PRODUCTS - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN (Updated Spring 2020)

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. \$85.00; also available as an ebook.

Wagner, Hildebert H.; and Bladt, 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 - ONLINE RESOURCES (Updated Spring 2020)

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

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

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

B.3.0 PHARMACEUTICS (Updated Summer 2021)

Albrecht, Linda S., ed. Understanding pharmacy calculations. 2nd ed. Washington, DC: American Pharmacists Association, 2012. ISBN: 9781582120959. \$55.95.

*Allen Jr., Loyd V. The art, science and technology of pharmaceutical compounding. 6th ed. Washington, DC: American Pharmacists Association, 2020. ISBN: 9781582123578. \$149.95; available as an ebook on APhA Pharmacy Library.

*Ansel's pharmaceutical dosage forms and drug delivery systems. 11th ed. Philadelphia: Wolters Kluwer, 2018. ISBN: 9781496347282. \$97.99; also available as an ebook on LWW Health Library.

Aulton's pharmaceuticals: the design and manufacture of medicines. 6th ed. Amsterdam: Elsevier, 2021. ISBN: 9780702081545. \$67.99; also available as an ebook.

Brunaugh, Ashlee B.; Smyth, Hugh D.C.; and Williams Iii, Robert O. Essential pharmaceuticals. Cham: Springer, 2019. ISBN: 9783030317447. \$109.99; available as an ebook.

Florence, Alexander T.; and Attwood, David. Physicochemical principles of pharmacy: in manufacture, formulation and clinical use. 6th ed. London, England: Pharmaceutical Press, 2016. ISBN: 9780857111746. \$79.00; available as an ebook.

Keservani, Raj K.; and Sharma, Anil K., eds. Nanoparticulate drug delivery systems. Oakville, ON, Canada: CRC Press, 2019. ISBN: 9781771886956. \$159.95; also available as an ebook.

Lester Elder, Deborah. A Practical guide to contemporary pharmacy practice and compounding. 4th ed. Philadelphia: Wolters Kluwer, 2018. ISBN: 9781496321299. \$89.99; also available as an ebook.

*Martin's physical pharmacy and pharmaceutical sciences: physical chemical and biopharmaceutical principles in the pharmaceutical sciences. 7th ed. Philadelphia: Wolters Kluwer, 2017. ISBN: 9781451191455. \$107.99; also available as an ebook.

Mobley, Cary W.; Amiji, Mansoor; and Cook, Thomas J. Applied physical pharmacy. 3rd ed. New York: McGraw-Hill, 2019. ISBN: 9781260452211. \$79.00; also available as an ebook.

Rees, Judith A.; Smith, Ian; and Watson, Jennie. Introduction to pharmaceutical calculations. 4th ed. London, England: Pharmaceutical Press, 2015. ISBN: 9780857111685. \$48.00; also available as an ebook.

*Sheskey, Paul J.; Hancock, Bruno C.; Moss, Gary P., et al., eds. Handbook of pharmaceutical excipients. 9th ed. Washington, DC: American Pharmacists Association, 2020. ISBN: 9780857113757. \$606.00.

*Stoklosa and Ansel's Pharmaceutical calculations. 16th ed. Philadelphia: Wolters Kluwer, 2021. ISBN: 9781975128555. \$97.99; also available as an ebook.

Teixeira, Maria G.; and Zatz, Joel L. Pharmaceutical calculations. 5th ed. New York: Wiley-Interscience, 2017. ISBN: 9781118978511. \$83.25; available as an ebook.

Tekade, Rakesh K., ed. Drug delivery systems. London: Elsevier Academic Press, 2020. ISBN: 9783030317447. \$200.00; available as an ebook.

*Trissel's stability of compounded formulations. 6th ed. Washington, DC: American Pharmacists Association, 2018. ISBN: 9781582122960. \$199.95; also available as an ebook.

*Title Recommended for first purchase

B.3.0 - X.1a PHARMACEUTICS - CLASSICS (Updated Summer 2021)

Augsburger, Larry L.; and Hoag, Stephen W., eds. Pharmaceutical dosage forms: tablets. 3rd ed. New York: Informa Healthcare, 2008. ISBN: 9781420063455. Vol. 1-3, \$549.95; also available as an ebook.

Florence, Alexander T.; and Siepmann, Jurgen, eds. Modern pharmaceuticals. 5th ed. Boca Raton, FL: CRC Press, 2010. ISBN: 9781420065701. 2-vol. set, \$325.00; also available as an ebook.

B.3.0 - X.7 PHARMACEUTICS - ONLINE RESOURCES (Updated Summer 2021)

Alliance for Pharmacy Compounding [formerly International Academy of Compounding Pharmacists]. URL: <https://www.a4pc.org/>

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

Inactive ingredient search for approved drug products. U.S. Food and Drug Administration, URL: <https://www.accessdata.fda.gov/scripts/cder/iig/>

*Orange book: Approved drug products with therapeutic equivalence evaluations Food and Drug Administration, URL: <https://www.fda.gov/drugs/drug-approvals-and-databases/approved-drug-products-therapeutic-equivalence-evaluations-orange-book>

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

B.3.a BIOPHARMACEUTICS AND PHARMACOKINETICS (Updated Spring 2020)

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

De, Arnab. Application of peptide-based prodrug chemistry in drug development. New York: Springer, 2013. ISBN: 9781461448754. \$49.95; also available as an ebook.

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; also available as an ebook.

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

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

*Murphy, John. Clinical Pharmacokinetics. 6th ed. Bethesda, MD: American Society of Health-System Pharmacists, 2017. ISBN: 9781585285372. \$99.00; also available as an ebook.

*Shargel, Leon; and Yu, Andrew. Applied biopharmaceutics and pharmacokinetics. 7th ed. New York: McGraw-Hill, 2015. ISBN: 9780071830935. \$75.00; also available as an ebook on AccessPharmacy.

*Title Recommended for first purchase

*Southwood, Robin; Fleming, Virginia; Huckaby, Gary, et al. Concepts of Clinical Pharmacokinetics. 7th ed. Bethesda, MD: American Society of Health-System Pharmacists, 2018. ISBN: 9781585285914. \$110.00; also available as an ebook.

Vinks, Alexander. Fundamentals of antimicrobial pharmacokinetics and pharmacodynamics. New York: Springer, 2014. ISBN: 9780387756127. \$219.99; also available as an ebook.

Winter's Basic clinical pharmacokinetics. 6th ed. Philadelphia: Wolters Kluwer, 2018. ISBN: 9781496346421. \$89.99; also available as an ebook through LWW Health Library

B.3.a - X.1.a BIOPHARMACEUTICS AND PHARMACOKINETICS - CLASSICS (Updated Spring 2020)

Testa, Bernard; and Jenner, Peter. Drug metabolism: chemical and biochemical aspects. Ann Arbor: Books on Demand, UMI, 1976. ISBN: 9780824763718. \$160.60. o.p.

B.3.a - X.4.0 BIOPHARMACEUTICS AND PHARMACOKINETICS - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN (Updated Spring 2020)

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

B.4.0 DRUG DESIGN, DISCOVERY, AND DEVELOPMENT (Updated Summer 2022)

Blass, Benjamin. Basic principles of drug discovery and development. Amsterdam: Academic Press, 2021. ISBN: 9780128172155. \$150.00; also available as ebook.

Dunn, Ian S. Searching for molecular solutions: empirical discovery and its future. Hoboken, NJ: Wiley, 2010. ISBN: 9780470146828. \$155.00; 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; and Madsen, Ulf, eds. Textbook of drug design and discovery. 5th ed. Boca Raton: CRC Press, 2017. ISBN: 978198702782. \$120.00; also available as ebook.

Li, Jie Jack; and Corey, E.J., eds. Drug discovery: practices, processes, and perspectives. Hoboken, NJ: Wiley, 2013. ISBN: 9780470942352. \$138.25; also available as ebook.

Lin, Guo-Qiang; You, Qi-Dong; and Cheng, Jie-Fei. Chiral drugs: chemistry and biological action. Hoboken, NJ: Wiley, 2011. ISBN: 9780470587201. \$177.75; also available as ebook.

Ng, Rick. Drugs: from discovery to approval. 3rd ed. Hoboken, NJ: Wiley-Blackwell, 2015. ISBN: 9781118907276. \$104.00; also available as ebook.

Ravina, Enrique. The evolution of drug discovery: from traditional medicines to modern drugs. Weinheim: Wiley-VCH, 2011. ISBN: 9783527326693. \$95.00.

Schneider, Gisbert; and Baringhaus, Karl-Heinz. Molecular design: concepts and applications. Weinheim: Wiley-VCH, 2008. ISBN: 9783527314324. \$84.95.

*Smith and Williams' introduction to the principles of drug design and action. 4th ed. Boca Raton, FL: CRC Taylor & Francis, 2006. ISBN: 9780415288774. \$145.00; also available as ebook.

Smith, Dennis A.; Allerton, Charlotte; Kalgutkar, Amit S., et al. Pharmacokinetics and metabolism in drug design. 3rd ed. New York: Wiley, 2012. ISBN: 9783527329540. \$155.00; also available as ebook.

Sneader, Walter. Drug discovery: a history. New York: Wiley, 2005. ISBN: 9780471899808. \$98.75; also available as ebook.

Wu-Pong, Susanna; Rojanasakul, Yongyut, ed. 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 (Updated Summer 2022)

Cordes, Eugene H. Hallelujah moments: tales of drug discovery. New York: Oxford University Press, 2020. ISBN: 9780190080457. \$41.95; also available as ebook.

B.5.0 INDUSTRIAL (Updated Summer 2022)

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

B.5.0 - X.1.a INDUSTRIAL - CLASSICS (Updated Summer 2022)

Edwards, Lionel D.; Fox, Anthony W.; and 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.; and 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 (Updated Summer 2022)

Current good manufacturing practice (CGMP) regulations. 2020. URL:
<https://www.fda.gov/drugs/pharmaceutical-quality-resources/current-good-manufacturing-practice-cgmp-regulations>

Niazi, Sarfaraz K.; and Lokesh, Sunitha. Biopharmaceutical manufacturing. Bristol, United Kingdom: IOP Publishing, 2021. 2-vol. set, \$190.00; also available as ebook.

B.5.0 - X.5 INDUSTRIAL - DIRECTORIES (Updated Summer 2022)

Pharmaceutical marketers directory. New York: Haymarket Media, 2022. \$448.00.

B.5.0 - X.7 INDUSTRIAL - ONLINE RESOURCES (Updated Summer 2022)

International Society for Pharmaceutical Engineering. North Bethesda, MD: ISPE, URL:
<https://www.ispe.org>

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

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

B.6.0 COSMETICS (Updated Summer 2021)

*Baumann, Leslie. Cosmeceuticals and cosmetic ingredients. New York: McGraw-Hill, 2014. ISBN: 9780071793988. \$176.00; also available as an ebook.

Geis, Phillip A., ed. Cosmetic microbiology: a practical approach. 3rd ed. Boca Raton, FL: CRC Press, 2019. ISBN: 9781138732919. \$130.00; also available as an ebook.

Harry's cosmeticology. 9th ed. Revere, MA: Chemical Publishing, 2015. ISBN: 9780820601809. 3-vol set. \$950.00; also available as an ebook.

*Paye, Marc; Barel, Andre O.; and Maibach, Howard I., eds. Handbook of cosmetic science and technology. 4th ed. Boca Raton, FL: CRC Press, 2014. ISBN: 9781842145647. \$230.00; also available as an ebook.

Sivamani, Raja K.; Jagdeo, Jared; Elsner, Peter, et al., eds. Cosmeceuticals and active cosmetics drugs. 3rd ed. Boca Raton, FL: CRC Press, 2015. ISBN: 9781482214161. \$230.00; also available as an ebook.

B.6.0 - X.2.b COSMETICS - HANDBOOKS AND DICTIONARIES (Updated Summer 2021)

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

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 (Updated Summer 2021)

Gilmore, David; and Waterstram-Rich, Kristen M., eds. 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.; and Weatherman, Kara D. Radiopharmaceuticals in nuclear pharmacy & nuclear medicine. Washington, DC: American Pharmacists Association, 2020. ISBN: 9781582122830. \$260.95.

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

*Title Recommended for first purchase

B.7.0 - X.2.b NUCLEAR AND RADIOPHARMACY - HANDBOOKS AND DICTIONARIES (Updated Summer 2021)

Kilbourn, Michael R.; and Scott, Peter Jh., eds. Handbook of Radiopharmaceuticals: Methodology and Applications. 2nd ed. Hoboken, NJ: John Wiley & Sons, Inc., 2021. ISBN: 9781119500544. \$325.00; also available as an eBook.

B.8.0 PHARMACOLOGY (Updated Summer 2022)

*Brody's human pharmacology: mechanism-based therapeutics. 6th ed. Philadelphia: Elsevier, 2019. ISBN: 9780323476522. \$74.99; also available as an ebook.

Foreman, John C.; Johansen, Torben; and Gibb, Alasdair J. Textbook of receptor pharmacology. 3rd ed. Boca Raton, FL: CRC Press, 2011. ISBN: 9781032099378. \$160.00.

*Golan, David E.; Armstrong, Ehrin J.; and Armstrong, April W., eds. Principles of pharmacology: the pathophysiologic basis of drug therapy. 4th ed. Philadelphia: Wolters Kluwer, 2017. ISBN: 9781451191004 \$90.99.

*Goodman & Gilman's the pharmacological basis of therapeutics. 13th ed. New York: McGraw-Hill, 2017. ISBN: 9781259584732. \$175.00; also available as an ebook on AccessPharmacy.

Handbook of experimental pharmacology. New York: Springer, 1937-. ISBN: ISSN: 0171-2004. Available in a variety of formats and at various prices.

Hollinger, Mannfred A., ed. Introduction to pharmacology. 3rd ed. Boca Raton, FL: CRC Press, 2008. ISBN: 9781420047417. \$210.00.

*Katzung, Bertram G.; and Trevor, Anthony J., eds. Basic & clinical pharmacology. 15th ed. London, England: McGraw-Hill, 2021. ISBN: 9781260452310. \$70.00.

Luellmann, Heinz ; Mohr, Klaus ; and Hein, Lutz, eds. Color atlas of pharmacology. 5th ed. Stuttgart, Germany: Thieme, 2018. ISBN: 9783132410657. \$47.99; also available as ebook.

Neal, Michael J. Medical pharmacology at a glance. 9th ed. Malden, MA: Wiley-Blackwell, 2020. ISBN: 9781119548010. \$41.95.

Rang & Dale's pharmacology. 9th ed. New York: Elsevier, 2020. ISBN: 9780702074486. \$74.99; also available as an ebook.

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: Wolters Kluwer, 2018. ISBN: 9781496386113. \$74.99; also available as ebook.

B.8.0 - X.1.a PHARMACOLOGY - CLASSICS (Updated Summer 2022)

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

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

*Title Recommended for first purchase

B.8.0 - X.7 PHARMACOLOGY - ONLINE RESOURCES (Updated Summer 2022)

Clinical pharmacology. Gold Standard, Available at various prices URL:
<http://www.clinicalpharmacology.com/>

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

B.8.a.0 TOXICOLOGY (Updated Summer 2022)

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. \$257.00; also available as an ebook Wiley Online Library.

Baselt, Randall C. Disposition of toxic drugs and chemicals in man. 12th ed. Seal Beach, CA: Biomedical Publications, 2020. ISBN: 9780578577494 \$398.50.

Daragan, Paul I.; and Wood, David M. Novel psychoactive substances: classification, pharmacology and toxicology. London, England: Academic Press; 2022.

*Goldfrank's toxicologic emergencies. 11th ed. New York: McGraw-Hill Professional, 2019. ISBN: 9781259859618. \$275.00; available as an ebook on AccessPharmacy.

Hayes principles and methods of toxicology. 6th ed. Boca Raton, FL: CRC Press, 2014. ISBN: 9781842145364. \$160.00; also available as ebook.

*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 on AccessPharmacy.

Lu's basic toxicology: Fundamentals, target organs, and risk assessment. 7th ed. Boca Raton, FL: CRC Press, 2018. ISBN: 9781315391694. Available in a variety of formats and at various prices.

Marcus, Steven M. Medical toxicology: antidotes and anecdotes. Switzerland: Springer, 2017. ISBN: 9783319510279. \$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 an ebook.

*Olson, Kent R.; Anderson, Ilene; Benowitz, Neal, et al. Poisoning and drug overdose. 8th ed. New York: McGraw-Hill Professional, 2022. ISBN: 9781264259083. \$79.00; also available as ebook on AccessMedicine.

Pelkonen, Olavi; Duez, Pierre; Vuorela, Pia Maarit, et al., eds. Toxicology of herbal products. Switzerland: Springer, 2017. ISBN: 9783319438061. \$249.99; also available as ebook.

Peña-Fernández, Antonio; Evans, Mark D.; and Cooke, Marcus S. Toxicology for the health and pharmaceutical sciences. Boca Raton, FL: CRC Press, 2021. ISBN: 9781138303362. \$200.00; also available as ebook.

Wilhelm, Klaus-Peter; Zhai, Hongbo; and Maibach, Howard I., eds. Dermatotoxicology. 8th ed. Boca Raton, FL: Informa Healthcare, 2013. ISBN: 9781841848556. \$220.00.

*Title Recommended for first purchase

B.8.a.0 TOXICOLOGY - CLASSICS (Updated Summer 2022)

Duffus, John H.; and Worth, G.J., eds. Fundamental toxicology. London: Royal Society of Chemistry, 2006. ISBN: 9780854046140. \$56.00; also available as an ebook.

Patty's industrial hygiene. 7th ed. Hoboken, NJ: John Wiley & Sons, 2021. ISBN: 9781119438021. 4-vol. set, \$1,200.00.

Patty's toxicology. 6th ed. Hoboken, NJ: John Wiley & Sons, 2012. ISBN: 9780470410813. 6-vol set, \$2,891.25.

Sax's dangerous properties of industrial materials. 12th ed. Hoboken, NJ: Wiley-Interscience, 2012. ISBN: 9780470623251. 5-vol set, \$1,066.50; also available as an ebook.

B.8.a.0 - X.2.b TOXICOLOGY - HANDBOOKS AND DICTIONARIES (Updated Summer 2022)

Armstrong, Jason; and Pascu, Ovidiu, eds. Toxicology Handbook. 3rd ed. London, England: Elsevier, 2022. ISBN: 9780729544368. \$79.99.

D'mello, Jp Felix, ed. A Handbook of environmental toxicology: Human disorders and ecotoxicology. Wallingford, United Kingdom: CABI, 2019. ISBN: 9781786394675. \$328.00; also available as ebook.

Hodgson, Ernest; and Roe, Michael, eds. Dictionary of Toxicology. 3rd ed. London: Academic Press, 2015. ISBN: 9780124201699. \$99.95; also available as an 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 an ebook.

B.8.a.0 - X.4.0 TOXICOLOGY - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN (Updated Summer 2022)

Flanagan, Robert J.; Cuypers, Eva; Maurer, Hans H., et al., eds. Fundamentals of analytical toxicology: Clinical and forensic. 2nd ed. Hoboken, NJ: John Wiley & Sons, 2020. ISBN: 9781119122340. \$135.00; also available as an ebook.

Razzaghi, Mehdi. Statistical models in toxicology. Boca Raton, FL: CRC Press, 2020. ISBN: 9781498772570. \$130.00; also available as an ebook.

B.8.a.0 - X.4.0 TOXICOLOGY - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN - CLASSICS (Updated Summer 2022)

Moffat, Anthony C.; Osselton, David M.; Widdop, Brian, et al., eds. Clarke's analysis of drugs and poisons: in pharmaceuticals, body fluids and post-mortem material. 4th ed. London, England: Pharmaceutical Press, 2011. ISBN: 9780853697114. \$866.00; also available as an ebook on MedicinesComplete.

B.8.a.0 - X.7 TOXICOLOGY - ONLINE RESOURCES (Updated Summer 2022)

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/>

*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, Available at various prices URL: <https://www.cdc.gov/niosh/rtecs/default.html>

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

B.8.a.1 DRUG ADVERSE REACTIONS, INTERACTIONS, AND SIDE EFFECTS (Updated Spring 2019)

*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. vol 41 (2019) \$343.00.

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

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

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.

Tisdale, James E.; and 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.

*Title Recommended for first purchase

B.8.a.1 - X.1.a DRUG ADVERSE REACTIONS, INTERACTIONS, AND SIDE EFFECTS - CLASSICS (Updated Spring 2019)

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

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

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

B.8.a.1 - X.7 DRUG ADVERSE REACTIONS, INTERACTIONS, AND SIDE EFFECTS - ONLINE RESOURCES (Updated Spring 2019)

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

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/>

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

B.8.b VETERINARY PHARMACOLOGY (Updated Summer 2021)

Bill, Robert. Clinical pharmacology and therapeutics for the veterinary technician. 4th ed. St. Louis, MO: Mosby Elsevier, 2017. ISBN: 0323086799. \$76.95; also available as an ebook.

Bill, Robert. Medical mathematics and dosage calculations for veterinary professionals. 3rd ed. Hoboken, NJ: John Wiley & Sons, 2019. ISBN: 1118835298. \$39.99; also available as an ebook.

*Merck veterinary manual. 11th ed. Rahway, NJ: Merck, 2016. ISBN: 9780911910612. \$65.00; also available online at <https://www.merckvetmanual.com/>.

Mertini-Johnson, Lisa A. Applied pharmacology for veterinary technicians. 6th ed. Philadelphia: Elsevier, 2021. ISBN: 9780323680684. \$85.95; also available as an ebook.

Riviere, Jim E.; and Papich, Mark G. Veterinary pharmacology and therapeutics 10th ed. Ames, IA: Wiley-Blackwell, 2018. ISBN: 9781118855829. \$234.00; also available as an ebook.

Romich, Janet A. Fundamentals of pharmacology for veterinary technicians. 3rd ed. Boston, MA: Cengage, 2021. ISBN: 9780357361474. \$89.95; also available as an ebook.

B.8.b - X.2.b VETERINARY PHARMACOLOGY - HANDBOOKS AND DICTIONARIES (Updated Summer 2021)

Papich handbook of veterinary drugs. 5th ed. St. Louis, MO: Elsevier, 2021. ISBN: 9780323709576 \$83.95.

Plumb's veterinary drug handbook. 9th ed. New York: Wiley-Blackwell, 2018. ISBN: 9781119344452. \$89.99.

*Title Recommended for first purchase

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

B.9 PHARMACOGENETICS & PHARMACOGENOMICS (Updated Summer 2021)

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

Emery's elements of medical genetics and genomics. Philadelphia: Elsevier, 2022. ISBN: 9780702079665. \$58.99; also available as an ebook.

Kuo, Grace M.; Johnson, Julie A.; Ellingrod, Vicki L., et al., eds. Pharmacogenomics: applications to patient care. Lenexa, KS: American College of Clinical Pharmacy, 2015. ISBN: 9781939862099. \$122.95; also available as an ebook.

Lam, Francis Y. W.; and Scott, Stuart R., eds. Pharmacogenomics: challenges and opportunities in therapeutic implementation. 2nd ed. New York: Elsevier, 2019. ISBN: 9780128126264. \$100; also available as an ebook.

Lam, Jerika T.; Gutierrez, Mary A.; and Shah, Samit. Pharmacogenomics: a primer for clinicians. New York: McGraw-Hill, 2021. ISBN: 9781260457100. \$70.00; also available as an ebook.

Mccarthy, Jeanette; and Mendelsohn, Bryce. Precision medicine: a guide to genomics in clinical practice. New York: McGraw-Hill, 2017. ISBN: 9781259644139. \$90.00; also available as an ebook on AccessMedicine.

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

B.9 - X.2.a PHARMACOGENETICS & PHARMACOGENOMICS - HANDBOOKS AND DICTIONARIES (Updated Summer 2021)

*Padmanabhan, Sandosh, ed. Handbook of pharmacogenomics and stratified medicine. Philadelphia: Elsevier, 2014. ISBN: 9780123868824. \$272.44; also available as an ebook.

C.0 - X.2.b MEDICAL SCIENCES (SCIENCES BASIC TO MEDICINE) - HANDBOOKS AND DICTIONARIES (Updated Fall 2018)

*Dorland's dictionary of medical acronyms & abbreviations. 7th ed. Philadelphia: Saunders, 2016. ISBN: 9780323340205. \$39.99, also available as an ebook.

*Dorland's illustrated medical dictionary. 33rd ed. Philadelphia: Elsevier, 2020. ISBN: 9781455756438. \$49.99.

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

Taber's cyclopedic medical dictionary: brings meaning to life. 24th ed. Philadelphia FA Davis, 2020. ISBN: 978-1-71964-285-9. \$54.95, also available as an ebook.

*Title Recommended for first purchase

C.0 - X.7 MEDICAL SCIENCES (SCIENCES BASIC TO MEDICINE) - ONLINE RESOURCES (Updated Fall 2018)

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>

Merck Manual Professional Version. URL: <https://www.merckmanuals.com/professional>

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

C.1 ANATOMY AND PHYSIOLOGY (Updated Fall 2018)

Gilroy, Anne M.; Macpherson, Brian R.; and Ross, Lawrence M. Atlas of anatomy. 4th ed. New York: Thieme, 2021. ISBN: 9781684202034. \$84.99, also available as an ebook.

*Gray's anatomy: the anatomical basis of clinical practice. 42nd ed. Philadelphia: Elsevier, 2021. ISBN: 9780702077050. \$229.99, also available as an ebook.

*Guyton, Arthur C.; and Hall, John E. Textbook of medical physiology. 14th ed. Philadelphia: Elsevier Science, 2021. ISBN: 9781684202034. \$84.99. Also available as an ebook.

Martini, Frederic; Tallitsch, Robert; and Nath, Judi. Human Anatomy. 9th ed. New York: Pearson, 2018. ISBN: 9780134320762. \$293.32.

Moore, Keith L.; Agur, Anne M.R.; and Dalley Ii, Arthur F. Essential clinical anatomy. 6th ed. Baltimore: Lippincott Williams & Wilkins, 2019. ISBN: 9781496369659. \$79.99.

Netter, Frank H. Atlas of human anatomy. 7th ed. Philadelphia: Elsevier, 2019. ISBN: 9780323393225. \$82.99; also available as ebook.

Silverthorn, Dee U. Human physiology: an integrated approach. 8th ed. New York: Pearson, 2018. ISBN: 9780134605197. \$252.32, also available as an ebook.

Tortora, Gerard J.; and Derrickson, Bryan H. Principles of anatomy & physiology. 16th ed. Singapore: Wiley, 2019. ISBN: 9781119662730. \$169.64, also available as an ebook.

D.0 - X.7 CLINICAL SCIENCES - ONLINE RESOURCES (Updated Fall 2020)

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>

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

*Title Recommended for first purchase

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

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

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

Medscape. Medscape, URL: <http://www.medscape.com>

Merck Manual Professional Version. Merck & Co., Inc, URL: <https://www.merckmanuals.com/professional>

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

D.1 PATHOPHYSIOLOGY (Updated Fall 2020)

Hammer, Gary; and Mcphee, Stephen. Pathophysiology of disease: an introduction to clinical medicine. 8th ed. New York: McGraw-Hill Education, 2019. ISBN: 9781260026504. \$90.00 Ebook available

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

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

*Robbins and Cotran pathologic basis of disease. 10th ed. Philadelphia: Elsevier Saunders, 2020. ISBN: 9780323531139. \$125.00 Ebook available.

D.2 PATIENT PHYSICAL ASSESSMENT (Updated Fall 2021)

Bates' guide to physical assessment. 13th ed. ed. Philadelphia: Wolters Kluwer Health/Lippincott Williams & Wilkins, 2021. ISBN: 9781496398178. \$135.00; also available as an ebook through STAT!Ref.

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

Herrier, Richard; Apgar, David; Boyce, Robert, et al. Patient Assessment in Pharmacy. New York: McGraw-Hill Education, 2015. ISBN: 9780071751940. \$64.00; also available as an ebook through AccessPharmacy.

Jarvis, Carolyn. Physical examination and health assessment. 8th ed. St. Louis: Elsevier/Saunders, 2020. ISBN: 9780323510806. \$129.00.

*Jones, Rhonda M. Patient assessment in pharmacy practice. 3rd ed. Philadelphia: Wolters Kluwer, 2015. ISBN: 9781451191653. \$89.99; also available as an ebook through LWW Health Library.

Seidel's guide to physical examination. 9th ed. Philadelphia: Elsevier/Mosby, 2018. ISBN: 9780323481953. \$126.00 Ebook available.

*Swartz, Mark H. Textbook of physical diagnosis: history and examination. 8th ed. Philadelphia: Elsevier Saunders, 2020. ISBN: 9780323672924. \$110.00.

*Title Recommended for first purchase

D.3.0 THERAPEUTICS (Updated Summer 2021)

Braunwald's heart disease: a textbook of cardiovascular medicine. 12th ed. Philadelphia: Elsevier, 2022. ISBN: 9780323722193. 2-vol. set, \$279.99

Brenner & Rector's the kidney. 11th ed. Philadelphia: Elsevier, 2015. ISBN: 9780323532655. \$499.99; also available as an ebook.

Campbell-Walsh urology. 12th ed. Philadelphia: Elsevier, 2020. ISBN: 9780323546423. 3-vol. set \$549.99; also available as an ebook.

*Chisholm-Burns, Marie A.; Schwinghammer, Terry L.; Malone, Patrick M., et al., eds. Pharmacotherapy: principles & practice. 5th ed. New York: McGraw-Hill Medical, 2019. ISBN: 9781260019445. \$220.00; also available as an ebook.

Conn's current therapy. Philadelphia: Elsevier, annual. \$99.99

*Dipiro, Joseph; Talbert, Robert L.; Yee, Gary C., et al., eds. Pharmacotherapy: a pathophysiologic approach. 11th ed. New York: McGraw-Hill, 2020. ISBN: 9781260116816. \$150.00; also available as an ebook.

Fitzpatrick's dermatology in general medicine. 9th ed. New York: McGraw-Hill, 2019. ISBN: 9780071867798. \$479.00; also available as an ebook.

*Goldman's Cecil medicine. 26th ed. Philadelphia: Elsevier, 2019. ISBN: 9780323640336. \$199.99; also available as an ebook.

Habif, Thomas P. Clinical dermatology: a color guide to diagnosis and therapy. 7th ed. Philadelphia: Elsevier, 2020. ISBN: 9780323612692. \$189.99; also available as an ebook.

*Harrison's principles of internal medicine. 20th ed. New York: McGraw-Hill, 2018. ISBN: 9781259644030. \$249.00; also available as an ebook.

*Mandell, Douglas, and Bennett's principles and practice of infectious diseases. 9th ed. Philadelphia: Elsevier, 2020. ISBN: 9780323482554. 2-vol. set, \$449.00; also available as an ebook.

*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., et al., eds. Pharmacotherapy casebook: a patient-focused approach. 11th ed. New York: McGraw-Hill, 2020. ISBN: 9781260116670. \$72.00; also available as an ebook.

Stone, Keith C.; and Humphries, Roger L., eds. Current diagnosis and treatment emergency medicine. 8th ed. New York: McGraw-Hill, 2017. ISBN: 9780071840613. \$90.00; also available as an ebook.

Warrell, David A.; Cox, Timothy M.; Firth, John D., et al., eds. Oxford textbook of medicine. 6th ed. New York: Oxford, 2020. ISBN: 9780198746690. 4-vol. set, \$555.00; also available as an ebook.

Williams obstetrics. 25th ed. New York: McGraw-Hill, 2018. ISBN: 9781259644320. \$195.00; also available as an ebook.

*Zeind, Caroline S.; and Carvalho, Michael G., eds. Applied therapeutics: the clinical use of drugs. 11th ed. Philadelphia: Lippincott Williams & Wilkins, 2017. ISBN: 9781496318299. \$225.99.

*Title Recommended for first purchase

D.3.0 THERAPEUTICS - CLASSICS (Updated Summer 2021)

Aronoff, George R.; Bennett, William M.; Berns, Jeffrey S., et al., eds. Drug prescribing in renal failure: dosing guidelines for adults and children. 5th ed. Philadelphia: American College of Physicians, 2007. ISBN: 9781930513761. \$56.95.

D.3.a GERIATRICS (Updated Fall 2020)

Hazzard's geriatric medicine and gerontology. 7th ed. New York: McGraw-Hill, 2017. ISBN: 9780071833455. \$163.00.

Hutchison, Lisa C.; and 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., et al. 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 (Updated Fall 2020)

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

D.3.a - X.7 GERIATRICS - ONLINE RESOURCES (Updated Fall 2020)

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

D.3.b NEUROLOGY (Updated Fall 2020)

*Adams & Victor's principles of neurology. 11th ed. New York: McGraw-Hill, 2019. ISBN: 9780071842617. \$199.00 Ebook available.

Bonica's management of pain. 5th ed. New York: Wolter Kluwer Medical, 2019. ISBN: 9781496349033. \$319.99 Ebook Available.

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

Merritt's neurology. 13th ed. Philadelphia: Wolters Kluwer Lippincott Williams & Wilkins, 2016. ISBN: 9781451193367. \$184.99 Ebook available.

Nestler, Eric J.; Kenny, Paul J.; Russo, Scott J., et al., eds. Molecular neuropharmacology: a foundation for clinical neuroscience. 4th ed. New York: McGraw-Hill Education, 2020. ISBN: 9781260456905. \$99.00.

*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. 29th ed. New York: McGraw-Hill Medical, 2020. ISBN: 9781260452358. \$75.00.

*Title Recommended for first purchase

D.3.c NUTRITION AND NUTRACEUTICALS (Updated Summer 2021)

Hark, Lisa; Deen, Darwin; and Morrison, Gail. Medical nutrition and disease: a case-based approach. 5th ed. Chichester, UK: Wiley-Blackwell, 2014. ISBN: 9781118652435. \$69.75.

Katz, David L.; Friedman, Rachel S.C.; and Lucan, Sean C. Nutrition in Clinical Practice. 3rd ed. Philadelphia: Wolters Kluwer Health, 2014. ISBN: 9781451186642. \$87.99.

Keservani, R.K.; Sharma, A.K.; and Kesharwani, R.K., eds. Nutraceuticals and dietary supplements: applications in health Improvement and disease management. Palm Bay, FL: Apple Academic Press, 2021. ISBN: 9781771888738. \$159.95; also available as an ebook.

Krause and Mahan's food & the nutrition care process. 15th ed. Philadelphia: Saunders, 2021. ISBN: 9780323636551. \$178.00.

Lutz's nutrition and diet therapy. 7th ed. Philadelphia: F.A. Davis, 2019. ISBN: 9780803668140. \$78.95; also available as an ebook.

Ross, Catharine A., ed. Modern nutrition in health and disease. 11th ed. Burlington, MA: Jones & Bartlett Learning, 2014. ISBN: 9781605474618. \$222.95.

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

Temple, Norman J.; Wilson, Ted; and Bray, George A., eds. Nutrition Guide for Physicians and Related Healthcare Professionals. 2nd ed. Cham, Switzerland: Humana Press, 2017. ISBN: 9783319499284. \$139.00.

Width, Mary; and Reinhard, Tonia. The essential pocket guide for clinical nutrition. 3rd ed. Philadelphia: Jones & Bartlett Learning, 2021. ISBN: 9781284197839. \$59.95.

Williams' Essentials of nutrition and diet therapy. 12th ed. St. Louis, MO: Mosby, 2018. ISBN: 9780323529716. \$92.95.

D.3.c - X.1.a NUTRITION AND NUTRACEUTICALS - CLASSICS (Updated Summer 2021)

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 - ONLINE RESOURCES (Updated Summer 2021)

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, URL: https://ods.od.nih.gov/Research/Dietary_Supplement_Label_Database.aspx

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

*Natural Medicines. Therapeutic Research Center, Available at various prices URL: <https://naturalmedicines.therapeuticresearch.com/>

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

*Title Recommended for first purchase

D.3.d ONCOLOGY AND HEMATOLOGY (Updated Spring 2020)

Abeloff's clinical oncology. 6th ed. Philadelphia: Elsevier, 2020. ISBN: 9780323476744. \$349.00; also available as an ebook.

Abraham, Jame; and Gulley, James L. The Bethesda handbook of clinical oncology. 5th ed. Philadelphia: Wolters Kluwer, 2019. ISBN: 9781496344182. \$75.99; also available as an ebook.

*Devita, Hellmann, and Rosenberg's cancer: principles and practice of oncology. 11th ed. Philadelphia: Wolters Kluwer, 2019. ISBN: 9781496394637. \$369.99; also available as an ebook.

Hoffman, Ronald; Furie, Bruce; Mcglave, Philip, et al., eds. Hematology: basic principles and practices. 7th ed. Philadelphia: Elsevier, 2018. ISBN: 9780323509718. \$399.00; also available as an ebook.

Mendelsohn, John; Howley, Peter; Israel, Mark, et al., eds. The molecular basis of cancer. 4th ed. Philadelphia: Elsevier Saunders, 2014. ISBN: 9781455740666. \$218.00; also available as an ebook.

Perry's the chemotherapy source book. 5th ed. Philadelphia: Lippincott Williams & Wilkins, 2012. ISBN: 9781451101454. \$99.95; also available as an ebook.

Rodgers, Griffin P.; and Young, Neal S. The Bethesda handbook of clinical hematology. 4th ed. Philadelphia: Wolters Kluwer, 2019. ISBN: 9781496354006. \$71.99; also available as an ebook.

Williams hematology. 9th ed. New York: McGraw-Hill Education, 2016. ISBN: 9780071833004. \$339.00; also available as an ebook on AccessMedicine.

Wintrobe's atlas clinical hematology. 2nd ed. Philadelphia: Wolters Kluwer, 2018. ISBN: 9781605476148. \$269.99; also available as an ebook.

Wintrobe's clinical hematology. 14th ed. Philadelphia: Wolters Kluwer, 2019. ISBN: 9781496347428. \$379.99; also available as an ebook.

D.3.e PARENTERALS (Updated Fall 2018)

ASHP injectable drug information: a comprehensive guide to compatibility and stability. Bethesda: American Society of Health-System Pharmacists, 2021. ISBN: 9781585286584. \$440.00, also available as an ebook.

Gahart's 2022 intravenous medications: a handbook for nurses and health professionals. St. Louis: Elsevier, ISBN: 9780323825092. \$49.99, also available online on ClinicalKey(R)

Gorski, Lisa A. Phillip's manual of I.V. therapeutics. 7th ed. Philadelphia: F.A. Davis, 2018. ISBN: 9780803667044. \$69.95.

*King guide to parenteral admixtures. 35th ed. St. Louis: King Guide, 1986-. ISBN: 9780978638603. \$440.00 for first year loose-leaf edition; annual renewal \$235.00, also available online.

*Mcevoy, Gerald K.; and Trissel, Lawrence A., eds. Handbook on injectable drugs. 20th ed. Bethesda: American Society of Health-System Pharmacists, 2018. ISBN: 9781585284191. \$419.00; also available as e-book on STAT!Ref.

*Phelps, Stephanie J.; Lee, Kelley R; Hagemann, Tracy M, et al., eds. Pediatric injectable drugs: the teddy bear book. 11th ed. Bethesda: American Society of Health-System Pharmacists, 2018. ISBN: 9781585283798. \$184.00.

*Title Recommended for first purchase

Plumer's Principles and Practice of Infusion Therapy. 9th ed. Philadelphia: Lippincott Williams & Wilkins, 2014. ISBN: 9781451188851. \$85.99, also available as an ebook.

D.3.f PEDIATRICS (Updated Fall 2019)

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

D.3.f - X.2.b PEDIATRICS - HANDBOOKS AND DICTIONARIES (Updated Fall 2019)

The Harriet Lane handbook: a manual for pediatric house officers. 21st ed. Philadelphia: Elsevier Saunders, 2017. ISBN: 9780323399555. \$54.99; also available as an ebook.

Nahata, Milap C.; and Pai, Vinita B., eds. Pediatric drug formulations. 7th ed. Cincinnati: Harvey Whitney, 2011. ISBN: 9780929375120. \$160.00.

Taketomo, Carol K.; Hodding, Jane H.; and Kraus, Donna M., eds. Pediatric & neonatal dosage handbook. 26th ed. Hudson, OH: Lexi-Comp, 2019. ISBN: 9781591953807. \$94.95.

D.3.g PSYCHIATRY (Updated Summer 2021)

Ebert, Michael H.; Leckman, James F.; and Ismene, Petrakis. Current diagnosis & treatment: psychiatry. 3rd ed. New York: McGraw-Hill Medical, 2019. ISBN: 9780071754422. \$85.00; available in a variety of formats and at various prices.

Gabbard's treatments of psychiatric disorders. 5th ed. Washington, DC: American Psychiatric Publishing, 2014. ISBN: 9781585624423. \$209.00; available in a variety of formats and at various prices.

Goldberg, Joseph F.; and Ernst, Carrie L. Managing the side effects of psychotropic medications. 2nd ed. Washington, DC: American Psychiatric Association Publishing, 2019. ISBN: 9781585624881. \$75.00; available in a variety of formats and at various prices.

Green's child and adolescent clinical psychopharmacology. 6th ed. Philadelphia: Wolters Kluwer, 2019. ISBN: 9781975105600. \$99.00; also available as an ebook.

Julien's primer of drug action: a comprehensive guide to the actions, uses, and side effects of psychoactive drugs. 14th ed. New York: Worth Publishers/Macmillan Learning, 2019. ISBN: 9781319015855. \$116.99; also available as an ebook.

*Kaplan & Sadock's comprehensive textbook of psychiatry. 10th ed. Philadelphia: Lippincott Williams & Wilkins, 2017. ISBN: 9781451100471. 2-vol. set, \$429.99; available in a variety of formats and at various prices.

Meyler's side effects of psychiatric drugs. Amsterdam, Netherlands: Elsevier Science, 2009. ISBN: 978044432664. \$71.95; also available as an ebook.

Nestler, Hyman, & Malenka's molecular neuropharmacology: a foundation for clinical neuroscience. 4th ed. New York: McGraw-Hill, 2020. ISBN: 9781260456905. \$99.00; available in a variety of formats and at various prices.

Schatzberg's manual of clinical psychopharmacology. 9th ed. Washington, DC: American Psychiatric Association Publishing, 2019. ISBN: 9781615372300. \$125.00; available in a variety of formats and at various prices.

*Title Recommended for first purchase

*Schatzberg, Alan F.; and Nemeroff, Charles B., eds. The American Psychiatric Association Publishing textbook of psychopharmacology. 5th ed. Arlington, VA: American Psychiatric Association Publishing, 2017. ISBN: 9781585625239. \$299.00; available in a variety of formats and at various prices.

Stahl's essential psychopharmacology: neuroscientific basis and practical application. 4th ed. Cambridge, United Kingdom: Cambridge University Press, 2013. ISBN: 9781107025981. \$237.99; available in a variety of formats and at various prices.

Weiss Roberta, Laura. The American Psychiatric Association Publishing textbook of psychiatry. 7th ed. Washington, DC: American Psychiatric Association Publishing, 2019. ISBN: 9781615371501. \$275.00; available in a variety of formats and at various prices.

D.3.g - X.2.b PSYCHIATRY - HANDBOOKS AND DICTIONARIES (Updated Summer 2021)

*Diagnostic and statistical manual of mental disorders (DSM-5). 5th ed. Washington, D.C.: American Psychiatric Association, 2013. ISBN: 9780890425541. \$210.00; available in a variety of formats and at various prices.

Elbe, Dean; Black, Tyler R.; Mcgrane, Ian R., et al., eds. Clinical handbook of psychotropic drugs for children and adolescents. 4th ed. Boston, MA: Hogrefe Publishing, 2019. ISBN: 9780889375505. \$99.80; available in a variety of formats and at various prices.

Jacobson, Sandra A., ed. Clinical manual of geriatric psychopharmacology. 2nd ed. Washington, D.C.: American Psychiatric Publishing, 2014. ISBN: 9781585624546. \$95.00; available in a variety of formats and at various prices.

Kranzler, Henry R.; Ciraulo, Domenic A.; and Zindel, Leah R. Clinical manual of addiction psychopharmacology. 2nd ed. Washington, DC: American Psychiatric Publishing, 2014. ISBN: 9781585624409. \$80.00; available in a variety of formats and at various prices.

Levenson, James L.; and Ferrando, Stephen J. Clinical manual of psychopharmacology in the medically ill. 2nd ed. Arlington, VA: American Psychiatric Publishing, 2017. ISBN: 9781585625017. \$84.00; available in a variety of formats and at various prices.

Mcvoy, Molly; and Findling, Robert L., eds. Clinical manual of child and adolescent psychopharmacology. 3rd ed. Arlington, VA: American Psychiatric Association Publishing, 2017. ISBN: 9781615370443. \$82.00; available in a variety of formats and at various prices.

Procyshyn, Ric M.; Bezchlibnyk-Butler, Kalyna Z.; and Jeffries, Joel J., eds. Clinical handbook of psychotropic drugs. 24th ed. East York, Ontario: Hogrefe Publishing, 2021. ISBN: 9780889375932. \$99.80; available in a variety of formats and at various prices.

D.3.g - X.7 PSYCHIATRY - ONLINE RESOURCES (Updated Summer 2021)

APA PsycInfo. American Psychological Association, URL: <https://www.apa.org/pubs/databases/psycinfo>

PsychiatryOnline. American Psychiatric Association Publishing, URL: <https://psychiatryonline.org/>

D.3.h SUBSTANCE ABUSE (Updated Summer 2022)

Brady, Kathleen T.; Levin, Francis R.; Galanter, Marc, et al., eds. American Psychiatric Publishing textbook of substance abuse treatment. 6th ed. Washington, DC: American Psychiatric Publishing, 2021. ISBN: 9781615372218. \$215.00; also available as an ebook.

Goldberg, Ray. Drugs across the spectrum. 8th ed. Pacific Grove, CA: Delmar Cengage Learning, 2019. ISBN: 9781337557368. \$124.95; also available as an ebook.

Hart, Carl L.; and Ksir, Charles. Drugs, society, and human behavior. 18th ed. New York: McGraw-Hill, 2022. ISBN: 9781260711059. \$82.00; also available as an ebook.

Karch's pathology of drug abuse. 5th ed. Boca Raton, FL: Taylor and Francis, 2016. ISBN: 9781439861462. \$250.00; also available as an ebook.

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

D.3.h - X.2.b SUBSTANCE ABUSE - HANDBOOKS AND DICTIONARIES (Updated Summer 2022)

Karch's drug abuse handbook. 3rd ed. Boca Raton, FL: CRC/Taylor and Francis, 2022. ISBN: 9781420094992. \$270.00; also available as an ebook.

Perkinson, Robert R.; Jongsma Jr., Arthur E.; and Bruce, Timothy J. The addiction treatment planner. 6th ed. Hoboken, NJ: Wiley, 2022. ISBN: 9781119707851. \$65.00; also available as an ebook.

Rastegar, Darius A.; Fingerhood, Michael I.; and American Society of Addiction Medicine. The American Society of Addiction Medicine handbook of addiction medicine. 2nd ed. New York: Oxford University Press, 2020. ISBN: 9780197506172. \$89.95; also available as an ebook.

D.3.h - X.7 SUBSTANCE ABUSE - ONLINE RESOURCES (Updated Summer 2022)

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

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

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 (Updated Fall 2020)

Barash, Paul G.; Cahalan, Michael K.; Cullen, Bruce F., et al. Clinical Anesthesia. 8th ed. Philadelphia: Wolters Kluwer, 2017. ISBN: 9781496337009. \$239.99 Available as ebook.

Erstad, Brian L, ed. Critical care pharmacotherapy. American College of Clinical Pharmacy, 2016. ISBN: 9781939862204. \$129.95.

Hemmings, Hugh C.; and Egan, Talmage D. Pharmacology and Physiology for Anesthesia: Foundations and Clinical Application. 2nd ed. Philadelphia: Elsevier; 2019.

Miller's anesthesia. 9th ed. Philadelphia: Elsevier, 2020. ISBN: 9780323596046. \$459.00 available as ebook.

Stoelting's pharmacology and physiology in anesthetic practice. 6th ed. Philadelphia: Lippincott Williams & Wilkins, 2020. \$184.99.

D.3.j PREGNANCY AND LACTATION (Updated Summer 2021)

*Briggs, Gerald G.; and Freeman, Roger K. Drugs in pregnancy and lactation: a reference guide to fetal and neonatal risk. 12th ed. Philadelphia: Wolters Kluwer, 2021. ISBN: 9781975162375. \$119.99; also available as an ebook.

Hale's medications & mothers' milk 2021. 19th ed. New York: Springer Publishing, 2021. ISBN: 9781975162375. \$119.99; also available as an ebook.

D.4 ALTERNATIVE MEDICINE (Updated Spring 2020)

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.

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

Jacobs, Bradly P.; and 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; and 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.

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

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 - ONLINE RESOURCES (Updated Spring 2020)

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

*Title Recommended for first purchase

E.0 PHARMACEUTICAL CARE (SOCIAL, BEHAVIORAL, AND ADMINISTRATIVE PHARMACY) (Updated Fall 2019)

Cipolle, Robert J.; M., Strand Linda; and C., Morley Peter. Pharmaceutical care practice. 3rd ed. New York: McGraw-Hill Medical, 2012. ISBN: 9780071756389. \$94.00.

Donyai, Parastou. Social and cognitive pharmacy; theory and case studies. London: Pharmaceutical Press, 2012. ISBN: 9780853698999. \$52.00.

*Rickles, Nathaniel M.; Wertheimer, Albert I.; and Schommer, Jon, eds. Social and behavioral aspects of pharmaceutical care. 3rd ed. Dubuque, IA: Kendall Hunt, 2016. ISBN: 9781465252579. \$105.00.

E.0 - X.4.0 PHARMACEUTICAL CARE (SOCIAL, BEHAVIORAL, AND ADMINISTRATIVE PHARMACY) - METHODOLOGY, STATISTICS, AND RESEARCH DESIGN (Updated Fall 2019)

*Bolton, Sanford; and Bon, Charles. Pharmaceutical statistics: practical and clinical applications. 5th ed. New York: Dekker, 2010. ISBN: 9781420074222. \$220.00.

E.0 - X.7 PHARMACEUTICAL CARE (SOCIAL, BEHAVIORAL, AND ADMINISTRATIVE PHARMACY) - ONLINE RESOURCES (Updated Fall 2019)

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 (Updated Fall 2019)

Bodenheimer, Thomas; and Grumbach, Kevin. Understanding health policy: a clinical approach. 7th ed. New York: McGraw-Hill, 2016. ISBN: 9781259584756. \$45.00.

*Jonas and Kovner's health care delivery in the United States. 12th ed. New York: Springer, 2018. ISBN: 9780826172723. \$95.00.

Mccarthy, Robert L.; Schafermeyer, Kenneth W.; and Plake, Kimberly S. Introduction to health care delivery: a primer for pharmacists. 6th ed. Burlington, MA: Jones & Bartlett, 2017. ISBN: 9781284094107. \$124.95.

E.1.a EPIDEMIOLOGY (Updated Spring 2020)

Fletcher, Grant S. Clinical epidemiology: the essentials. 6th ed. Philadelphia: Wolters Kluwer Health, 2021. ISBN: 9781975109554. \$37.33; also available as an ebook on LWW Health Library.

Friis, Robert H.; and Sellers, Thomas A. Epidemiology for public health practice. 6th ed. Burlington, MA: Jones & Bartlett Learning, 2021. ISBN: 9781284175431. \$86.53; also available as an ebook.

*Gordis Epidemiology. 6th ed. Philadelphia: Elsevier Saunders, 2019. ISBN: 9780323552295. \$31.98; also available as an ebook on ClinicalKey.

Greenberg, Raymond. Medical Epidemiology: Population health and effective health care. 5th ed. New York: McGraw-Hill Education, 2015. ISBN: 9780071822725. \$61.41.

*Title Recommended for first purchase

*Strom, Brian L.; and Kimmel, Stephen E., eds. Textbook of pharmacoepidemiology. 2nd ed. New York: Wiley, 2013. ISBN: 9781118344866. \$79.64; also available as an ebook.

E.1.a - X.1.a EPIDEMIOLOGY - CLASSICS (Updated Spring 2020)

Yang, Yi; West-Strum, Donna, ed. Understanding pharmacoepidemiology. New York: McGraw-Hill Medical, 2011. ISBN: 9780071635004. \$45.74; also available as an ebook on AccessPharmacy.

E.1.a - X.7 EPIDEMIOLOGY - ONLINE RESOURCES (Updated Spring 2020)

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

E.1.b PHARMACOECONOMICS (Updated Spring 2020)

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

Bootman, Lyle J.; Townsend, Raymond J.; and 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; also available as an ebook on APhA PharmacyLibrary.

Pradelli, Lorenzo; and Wertheimer, Albert eds. Pharmacoeconomics: principles and practice. Torino: SEED Medical Publishers, 2012. ISBN: 9788897419372. \$17.69; also available as an ebook.

Rascati, Karen. Essentials of pharmacoeconomics. 2nd ed. Philadelphia: Lippincott, Williams and Wilkins, 2013. ISBN: 9781451175936. \$79.99; also available as an ebook.

E.1.b - X.7 PHARMACOECONOMICS - ONLINE RESOURCES (Updated Spring 2020)

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

E.2.0 PATIENT-RELATED ACTIVITIES (Updated Fall 2019)

Bennet, Marialice. How to implement the pharmacists' patient care process. San Antonio: American Pharmacists Association, 2015. ISBN: 9781582122564. \$19.95; also available as an ebook.

Berger, Bruce A.; and Villaume, William A. Motivational interviewing for health care professionals: a sensible approach. Washington: American Pharmacists Association, 2013. ISBN: 9781582121802. \$43.95; also available as an ebook.

Falvo, Donna R. Effective patient education: a guide to increased adherence. 4th ed. Boston: Jones and Bartlett, 2011. ISBN: 9780763766252. \$193.95; also available as an ebook.

Griffith's instructions for patients. 8th ed. Philadelphia: Elsevier Saunders, 2011. ISBN: 9781437709094. \$95.95; also available as an ebook.

*Title Recommended for first purchase

Haddad, Amy; Doherty, Regina; and Purtilo, Ruth. Health professional and patient interaction. 9th ed. Philadelphia: Elsevier Health Sciences, 2019. ISBN: 9780323533621. \$72.95; also available as an ebook.

Hojat, Mohammadreza. Empathy in health professions education and patient care. Springer, 2016. ISBN: 9783319276250. \$99.99; also available as an ebook.

Patient education material, handouts, videos. Bethesda, MD: National Library of Medicine and National Institutes of Health, URL: <https://medlineplus.gov/>

Rosengren, David B. Building motivational interviewing skills: a practitioner workbook. 2nd ed. New York: Guilford, 2018. ISBN: 9781462532063. \$50.00; also available as an ebook.

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

Stewart, Melissa. Art and science of patient education for health literacy. Philadelphia: Elsevier Health Sciences, 2019. ISBN: 9780323609081. \$64.95; also available as an ebook.

Tietze, Karen J. Clinical skills for pharmacists: a patient-focused approach. 3rd ed. St. Louis: Elsevier Mosby, 2012. ISBN: 9780323077385. \$91.95; also available as an ebook.

E.2.a DISEASE STATE MANAGEMENT (Updated Fall 2019)

*Blenkinsopp, Alison; Paxton, Paul; and Blenkinsopp, John. Symptoms in the pharmacy; a guide to the management of common illness. 8th ed. Malden, MA: Wiley-Blackwell, 2018. ISBN: 9781119317968. \$59.95.

Helms, Richard; and Quan, David. Textbook of therapeutics: drug and disease management. 8th ed. Philadelphia: Lippincott Williams & Wilkins, 2011 ISBN: 9780781757348. \$48.26.

Kohlstadt, Ingrid, ed. Advancing medicine with food and nutrients. 2nd ed. New York: CRC Press, 2012. ISBN: 9781439887721. \$180.00.

Nuovo, Jim, ed. Chronic disease management. New York: Springer, 2007. ISBN: 9780387329277. \$99.00.

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

Remington, Patrick L.; Borwnson, Ross C.; and Wegner, Mark V., eds. Chronic disease epidemiology, prevention, and control. 4th ed. Atlanta: American public Health Association, 2016. ISBN: 9780875532776. \$89.25.

Zeind, Caroline; and Carvalho, Michael. Applied therapeutics: the clinical use of drugs. 11th ed. Philadelphia, PA: Wolters Kluwer, 2017 ISBN: 9781496318299. \$224.99.

E.2.b - X.2.b SELF CARE (OTCs) - HANDBOOKS AND DICTIONARIES (Updated Fall 2019)

*Krinsky, Daniel L.; Ferreri, Stefanie P.; Hemstreet, Brian, et al., eds. Handbook of nonprescription drugs: an interactive approach to self-care. 19th ed. Washington, DC: American Pharmacists Association, 2017. ISBN: 9781582122656. \$209.95.

Physician's desk reference for nonprescription drugs and dietary supplements. 27th ed. Montvale, NJ: Thomson PDR, 2005. ISBN: 9781563635305. \$58.95; also available online.

*Title Recommended for first purchase

E.3.0 PHARMACISTS' PROFESSIONAL DEVELOPMENT (Updated Fall 2019)

- Bookstaver, Brandon P.; Rudisill-Caulder, Celeste; Smith, Kelly M., et al. 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, ed. Career paths in inpatient pharmacy: an ASHP eReport. Bethesda, MD: American Society of Health-system Pharmacists, 2015. ISBN: 9781585285631. \$9.95.
- Boyle, Jaclyn; Beis, Sara J.; Brown, Joshua D., et al. Career Paths in industry and population health: an ASHP eReport. 2017. ISBN: 978585285891. \$11.00; also available as an ebook.
- Boyle, Jaclyn; King, Benjamin; Czenkner, Rayna, et al., eds. Career paths in community pharmacy: an ASHP eReport. 2015. ISBN: 9781585285228. \$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.
- Miller, Monica L. Getting Started in a Pharmacy Residency. Washington DC: American Pharmacists Association, 2013. ISBN: 9781582121550. \$35.95; also available as an ebook.
- Neimeyer, Greg J.; and 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, Scott S. The effective pharmacy preceptor. 2017 ed. Bethesda, MD: American Society of Health-system Pharmacists, 2017. ISBN: 9781585285549 \$39.00; also available as an ebook.

E.3.a COMMUNICATION SKILLS (Updated Fall 2019)

- *Beardsley, Robert S.; Skrabal, Maryann Z.; and Kimberlin, Carole L., eds. Communication skills in pharmacy practice: a practical guide for students and practitioners. 7th ed. Philadelphia: Wolter Kluwer, 2020. ISBN: 9781975105419. \$64.99.
- Bennett, Marialice; and Kliethermes, Mary Ann. How to implement the pharmacists' patient care process. Washington, D.C: American Pharmacists Association, 2015. ISBN: 9781582122564. \$19.95; also available as an ebook.
- Berger, Bruce A. Communication skills for pharmacists: building relationships, improving patient care. 3rd ed. Washington, DC: American Pharmacists Association, 2009. ISBN: 9781582121321. \$42.95.
- Kisch, Glenn L.; and Moody, Ashley E. Essential Spanish for pharmacy. Washington, DC: American Pharmacists Association, 2015. ISBN: 9781582122380. \$15.95; also available as an ebook.
- 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.

*Title Recommended for first purchase

O'toole, Glyn. Communication: core interpersonal skills for health professionals. 3rd ed. Chatswood: Elsevier, 2016. ISBN: 9780729542449. \$63.95.

Van Servellen, Gwen. Communication skills for the health care professional: context, concepts, practice, and evidence. 3rd ed. Burlington, MA: Jones & Bartlett Learning, 2020. ISBN: 9781284141429. \$90.95; also available as an ebook.

E.3.b EDUCATION (Updated Fall 2019)

Anderson, Lorin W.; Krathwohl, David R.; Airasian, Peter W., 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.; and Cross, Patricia K. Classroom assessment techniques; a handbook for college teachers. 2nd ed. San Francisco: Jossey-Bass, 1994. ISBN: 9781555425005. \$54.00.

Banta, Trudy W. Building a scholarship of assessment. San Francisco: Jossey-Bass, 2010. ISBN: 9780470623077. \$48.00; also available as an ebook.

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

Brown, Peter C.; Roediger III, Henry L.; and McDaniel, Mark A. Make it stick: the science of successful learning. Belknap Press, 2014. ISBN: 9780674729018. \$30.00; also available as an ebook.

Cuellar, Lourdes M.; and Ginsburg, Diane B., eds. Preceptor's handbook for pharmacists. 4th ed. Bethesda, MD: American Society of Health-System Pharmacists, 2019. ISBN: 9781585284955. \$65.00.

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 an ebook.

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

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

King, Patricia; and 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.

Michaelsen, Larry K.; Knight, Arletta B.; and Fink, Dee L. Team-based learning: a transformative use of small groups in college teaching. Sterling, VA: Stylus, 2004. ISBN: 9781579220860. \$32.00.

Roblyer, Margaret D. Integrating educational technology into teaching. 8th ed. Boston: Pearson/Allyn and Bacon, 2019. ISBN: 9780134746418. \$93.32; also available as an ebook.

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. \$44.00.

*Title Recommended for first purchase

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

Sylvia, Lynne M.; and Barr, Judith T. Pharmacy education: what matters in learning and teaching. Sudbury, MA: Jones and Bartlett Learning, 2011. ISBN: 9780763773977. \$111.95; also available as an ebook.

E.3.b - X.1.0 EDUCATION - HISTORY (Updated Fall 2019)

*Clinical pharmacy in the United States: transformation of a profession. Lenexa, KS: American College of Clinical Pharmacy, 2009. ISBN: 9781932658682. \$59.95.

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 (Updated Fall 2019)

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 - ONLINE RESOURCES (Updated Fall 2019)

*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>

E.3.c INTERPROFESSIONAL EDUCATION (Updated Fall 2018)

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

Forman, Dawn; Jones, Marion; and Thistlethwaite, Jill, eds. Leadership development for interprofessional education and collaborative practice. London, England: Palgrave Macmillan, 2014. ISBN: 9781137363015. \$139.99, also available as an ebook.

Forman, Dawn; Jones, Marion; and Thistlethwaite, Jill, eds. Leading research and evaluation in interprofessional education and collaborative practice. London, England: Palgrave Macmillan, 2016. ISBN: 9781137537423. \$169.99, also available as an ebook.

Forman, Dawn; Jones, Marion; and Thistlethwaite, Jill, eds. Sustainability and Interprofessional Collaboration: Ensuring Leadership Resilience in Collaborative Health Care. Cham, Switzerland: Palgrave Macmillan, 2020. ISBN: 9783030402808. \$169.99, also available as an ebook.

Hamson-Utley, J Jordan; Mathena, Cynthia; and Gunaldo, Tina, eds. Interprofessional education and collaboration: an evidence-based approach to optimizing health care. Champaign, Illinois: Human Kinetics, 2021. ISBN: 9781492590033. \$84.00, also available as an ebook.

Howkins, Elizabeth; Bray, Julia; and 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; also available online.

Slusser, Margaret; Garcia, Luis; Reed, Carole-Rae, et al., eds. Foundations of Interprofessional Collaborative Practice in Health Care. Philadelphia: Mosby, 2018. ISBN: 9780323462419. \$59.95, also available as an ebook.

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.

Zorek, Joseph, ed. Interprofessional practice in pharmacy: featuring illustrated case studies. . New York: McGraw-Hill Education, 2021. ISBN: 9781260462425. \$49.00.

Zubin, Austin, ed. Communication in interprofessional care: theory and applications. Washington, DC: American Pharmacist Association, 2020. ISBN: 9781582123431. \$42.95, also available as an ebook.

E.3.c - X.7 INTERPROFESSIONAL EDUCATION - ONLINE RESOURCES (Updated Fall 2018)

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.ipeccollaborative.org/>

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

E.3.d CULTURAL COMPETENCY (Updated Fall 2019)

Dreachslin, Janice L.; Gilbert, Jean M.; 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.
- Liu, Min; and 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, et al., eds. Diversity and Inclusion in Quality Patient Care. New York: Springer, 2016. ISBN: 9783319228396. \$129.00.
- Perez, 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.
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- Smith, Patricia, ed. Disability and Culture: An international and Inter-professional perspective. Champaign, IL: Common Ground Publishing, 2015. ISBN: 9781612299433. \$40.00.
- *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. 9th ed. Boston: Pearson, 2016. ISBN: 9780134413310. \$75.81.
- Waugh, Earle; Szafran, Olga; Triscott, Jean A.C., et al. Cultural Competency Skills for Health Professionals: A workbook for caring across cultures. Toronto, Canada: Brush Education, 2014. ISBN: 9781550596205. \$79.95. Includes DVD.
- *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 (Updated Spring 2020)

- Chisholm-Burns, Marie A.; Vaillancourt, Allison M.; and Shepherd, Marv, eds. Pharmacy management, leadership, marketing and finance. 2nd ed. Sudbury, MA: Jones and Bartlett, 2014. ISBN: 9781449660284. \$44.95.
- Elder, Deborah L. A practical guide to contemporary pharmacy practice and compounding. 4th ed. Philadelphia: Wolters Kluwer, 2017. ISBN: 9781496321299. \$94.99; also available as an ebook.
- Harding, Geoffrey; and Taylor, Kevin, eds. Pharmacy practice. 2nd ed. Boca Raton: CRC Press, Taylor & Francis Group, 2017. ISBN: 9781138457263. \$210.00; also available as an ebook.

Holdford, David A. Marketing for pharmacists. 3rd ed. Richmond, VA.: Pharmaco Enterprise Publishing, 2015. ISBN: 9780996644914. \$18.95.

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Lauster, Colleen C.; and Srivastava, Sneha B. Fundamental skills for patient care in pharmacy practice. Burlington: Jones and Bartlett, 2014. ISBN: 9781449652722. \$112.95.

Peterson, Andrew M.; and William, Kelly N., eds. Leadership and management in pharmacy practice. Boca Raton, FL: CRC Press, 2014. ISBN: 9781466589629. \$115.00; also available as an ebook.

*Remington: the science and practice of pharmacy. 23rd ed. Cambridge, MA: Elsevier Academic Press, 2020. ISBN: 9780128200070 \$200.00.

Zgarrick, David P.; Moczygemba, Leticia R.; Alston, Greg, et al., eds. Pharmacy management: essentials for all practice settings. 5th ed. New York: McGraw-Hill, 2020. ISBN: 9781260456387. \$84.00; also available as an ebook.

E.4.0 - X.3 PROFESSIONAL PRACTICE - LAWS, LEGISLATION, REGULATIONS, AND ETHICS (Updated Spring 2020)

Buerki, Robert A.; and Vottero, Louis D. Pharmacy Ethics: A Foundation for Professional Practice. Washington DC: American Pharmacists Association, 2013. ISBN: 9781582121796. \$42.95; also available as an ebook on APhA PharmacyLibrary.

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E.4.0 - X.7 PROFESSIONAL PRACTICE - ONLINE RESOURCES (Updated Spring 2020)

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>

ASCP. 2011. URL: <http://www.ascp.com>

Joint Commission of Pharmacy Practitioners. JCPP, URL: <https://jcphp.net/>

NASPA. 2011. URL: <http://www.ncspae.org>

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

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

E.4.a COMMUNITY PHARMACY (Updated Spring 2020)

Addison, Brian; Brown, Alyson ; Edwards, Ruth, et al. Minor illness or major disease? 6th ed. Grayslake, IL: Pharmaceutical Press, 2016. ISBN: 9780857112149. \$63.00; also available as an ebook.

Angelo, Lauren B.; and Cerulli, J. How to conduct a comprehensive medication review: a guidebook for pharmacists. Washington, DC: American Pharmacists Association, 2014. ISBN: 9781582122168. \$16.95; also available as an ebook on APhA PharmacyLibrary.

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Chain drug review: annual report of retail pharmacy. New York: Racher Press, annual. \$100.00.

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

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Rutter, Paul. Community pharmacy: symptoms, diagnosis and treatment. 5th ed. New York: Elsevier Health Sciences, 2020. ISBN: 9780702080203. \$51.99.

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

E.4.a - X.1.a COMMUNITY PHARMACY - CLASSICS (Updated Spring 2020)

Tindall, William N.; and Millonig, Marsha K. Pharmaceutical care: insights from community pharmacists. Boca Raton, FL: CRC Press, 2003. ISBN: 9781566769532. \$140.00; also available as an ebook.

E.4.a - X.7 COMMUNITY PHARMACY - ONLINE RESOURCES (Updated Spring 2020)

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

E.4.b HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY (Updated Spring 2020)

Comprehensive accreditation manual for ambulatory care (CAMAC). Oak Brook, IL: Joint Commission on Accreditation of Healthcare Organizations, biennial. ISBN: 9781635851250. \$329.00; site license, \$999.00.

Comprehensive accreditation manual for hospitals (CAMH): the official handbook. Oak Brook, IL: Joint Commission on Accreditation of Healthcare Organizations, biennial. ISBN: 9781635851236. \$389.00; site license \$999.00.

Comprehensive accreditation manual for nursing care centers (CAMNCC). Oak Brook, IL: Joint Commission on Accreditation of Healthcare Organizations, biennial. ISBN: 9781635851335. \$329.00.

E.4.b - X.1.a HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY - CLASSICS (Updated Spring 2020)

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. \$56.35; also available as an ebook.

Usselton, John P.; Kienle, Patricia; and Murdaugh, Lee B. Assuring continuous compliance with Joint Commission standards: a pharmacy guide. 8th ed. Bethesda: American Society of Health-System Pharmacists, 2010. ISBN: 9781585282425. \$206.00; also available as an ebook.

E.4.b - X.3 HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY - LAWS, LEGISLATION, REGULATIONS, AND ETHICS (Updated Spring 2020)

*Best practices for hospital & health-system pharmacy: position & guidance documents of ASHP. Bethesda: American Society of Health-System Pharmacists, annual. \$110.00; also available as an ebook.

E.4.b - X.5 HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY - DIRECTORIES (Updated Spring 2020)

*AHA guide to the health care field: a guide to United States hospitals, health care systems, networks, alliances, health organizations, agencies, and providers. Chicago, IL: Healthcare InfoSource, annual. \$425.00.

*AHA hospital statistics. Chicago, IL: Health Forum, annual. 2020, \$283.00.

E.4.b - X.7 HEALTH-SYSTEM PHARMACY AND INSTITUTIONAL PHARMACY - ONLINE RESOURCES (Updated Spring 2020)

PAI 2030: ASHP's Practice Advancement Initiative 2030. Bethesda: American Society of Health-System Pharmacists, URL: <http://ashp.org/Pharmacy-Practice/PAI>

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

E.4.c HOME HEALTH CARE (Updated Fall 2020)

American Society of Health-System Pharmacists. 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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Frey, Dennee, ed. Improving medication management in home care: issues and solutions. New York: Routledge, 2005. ISBN: 9780789030528. \$140.00.

Griffin, J'non. Quality care in home health: improving patient outcomes and agency scores. HCPro, 2015. ISBN: 9781556457197. \$135.00, available as an eBook.

Harris, Marilyn D. Handbook of home health care administration. Burling, MA: Jones & Bartlett Learning, 2017. ISBN: 9781284068023. \$143.95.

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

E.4.d MANAGED CARE (Updated Fall 2020)

Amelung, Volker Eric. Healthcare Management: Managed Care Organizations and Instruments. 2nd ed. Berlin, Germany: Springer, 2019. ISBN: 9783662595671. \$79.99 available as ebook.

Kongstvedt, Peter R. Essentials of managed health care. 6th ed. New York: Jones and Bartlett, 2013. ISBN: 9781449653316. \$187.95.

*Title Recommended for first purchase

Kongstvedt, Peter R. Health Insurance and Managed Care: What They Are and How They Work. 5th ed. Burlington, MA: Jones and Bartlett, 2020. ISBN: 9781284152098. \$94.95 available as ebook.

E.4.d - X.1.a MANAGED CARE - CLASSICS (Updated Fall 2020)

Navarro, Robert. Managed care pharmacy practice. 2nd ed. Sudbury, MA: Jones and Bartlett, 2009. ISBN: 9780763732400. \$111.95.

Wertheimer, Albert I.; and Navarro, Robert, eds. Managed care pharmacy: principles and practice. New York: Pharmaceutical Products, 1999. ISBN: 9780789006394. \$91.13.

E.4.d - X.7 MANAGED CARE - ONLINE RESOURCES (Updated Fall 2020)

*Academy of Managed Care Pharmacy. Academy of Managed Care Pharmacy, 1989-. URL: <http://www.amcp.org/>

Centers for Medicare and Medicaid Services. Centers for Medicare and Medicaid Services, 2005. URL: <http://www.cms.gov/>

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X.1.0 HISTORY (Updated Fall 2018)

Elenbaas, Robert M.; Worthen, Dennis B; and Webb, Edwin C. Clinical Pharmacy in the United States: transformation of a profession. 2nd ed. Kansas City, MO: American College of Clinical Pharmacy, 2019. ISBN: 9781939862907. \$59.95, also available as an ebook.

Flannery, Michael A, ed. Civil War pharmacy: a history. 2nd ed. Carbondale, IL: Southern Illinois University Press, 2017. ISBN: 9780809335923. \$34.50, also available as an ebook.

Griggs, Barbara. Green pharmacy: the history and evolution of western herbal medicine. 3rd ed. Rochester, VT: Healing Arts Press, 1997. ISBN: 9780892817276. \$24.95.

Higby, Gregory J. In service to American pharmacy: the professional life of William Procter, Jr. Tuscaloosa: University of Alabama, Distributed by the American Institute of the History of Pharmacy, 1992. ISBN: 9780817305918. \$15.00.

Higby, Gregory J.; and Stroud, Elaine C. American pharmacy (1852-2002): a collection of historical essays. Madison, WI: American Institute of the History of Pharmacy, 2005. ISBN: 9780931292392. \$20.00.

*Kremers and Urdang's history of pharmacy. 4th rev. ed. Madison, WI: American Institute of the History of Pharmacy, 1976. ISBN: 0931292174. \$36.00, o.p.

Li, Jie Jack. Top Drugs: History, Pharmacology, Syntheses. Oxford: Oxford University Press, 2015. ISBN: 9780199362585. \$44.95.

Macy, Beth, ed. Dopesick: dealers, doctors, and the drug company that addicted America. Back Bay Books, 2019. ISBN: 9780316551304. \$17.99, also available as an ebook.

Maehle, Andreas-Holger. Drugs on trial: experimental pharmacology and therapeutic innovation in the eighteenth century. Atlanta: Rodopi, 1999. ISBN: 9789042007932. \$203.00.

*Title Recommended for first purchase

- Mann, John. Life saving drugs: the elusive magic bullet. Belfast: Royal Society of Chemistry, 2004. ISBN: 978-0854046348. \$69.95.
- Marks, Harry M. Progress of experiment: science and therapeutic reform in the United States, 1900-1990. New York: Cambridge, 1997. ISBN: 9780521581424. \$40.99.
- Porter, Roy; and Teich, Mikulas. Drugs and narcotics in history. New York: Cambridge, 1997. ISBN: 9780521585972. \$43.99, also available as an ebook.
- Rosen, William. Miracle cure: the creation of antibiotics and the birth of modern medicine. New York: Penguin Books, 2018. ISBN: 9780525428107. \$28.00.
- Sherman, Irwin W. Drugs that changed the world: how therapeutic agents shaped our lives. Boca Raton, FL: CRC Press, 2017. ISBN: 9781498796491. \$82.24, also available as an ebook.
- Zebroski, Bob. A brief history of pharmacy: humanity's search for wellness. New York: Routledge, 2015. ISBN: 9780415537841. \$56.95.

X.1.0 - X.1.a HISTORY - CLASSICS (Updated Fall 2018)

- Anderson, Lee; and Higby, Gregory J., eds. The spirit of voluntarism: a legacy of commitment and contribution: the United States Pharmacopeia 1820-1995. Rockville, MD: United States Pharmacopeial Convention, 1995. ISBN: 0913595888. o.p.
- Cowen, David L.; and Helfand, William H. Pharmacy: an illustrated history. New York: Abrams, 1991. ISBN: 0810914980. o.p.
- Griffenhagen, George B.; Higby, Gregory J.; Sonnedecker, Glenn, et al., eds. 150 years of caring: a pictorial history of the American Pharmaceutical Association. Washington, D.C.: American Pharmaceutical Association, 2002. ISBN: 1582120404. o.p.
- Henderson, Metta L., ed. American women pharmacists: contributions to the profession. New York: Pharmaceutical Products Press, 2002. ISBN: 0789010925. o.p.
- King, Nydia M., ed. A selection of primary sources for the history of pharmacy in the United States: books and trade catalogs from the colonial period to 1940. Madison, WI: American Institute of the History of Pharmacy, 1987. ISBN: 0931292166. \$11.00.
- Parascandola, John. The development of American pharmacology. Baltimore, MD: Johns Hopkins, 1992. ISBN: 0801844169. o.p.
- Worthen, Dennis B. Heroes of pharmacy: professional leadership in times of change. 2nd ed. Washington, DC: American Pharmacists Association, 2012. ISBN: 9781582121635. \$39.95.
- Young, James H., ed. The medical messiahs: a social history of health quackery in twentieth-century America. Princeton, NJ: Princeton University Press, 1992. ISBN: 0789010925. o.p.

X.1.0 - X.7 HISTORY - ONLINE RESOURCES (Updated Fall 2018)

American Institute of the History of Pharmacy. Madison, WI: AIHP, URL: <https://aih.org/>

X.1.a CLASSICS (Updated Spring 2020)

- Allen's compounded formulations: the complete U. S. Pharmacist collection. Washington, DC: American Pharmacists Association, 2003. ISBN: 9781582120416. o.p.
- Anderson, Philip O.; Knoben, James E.; and Troutman, William G., eds. Handbook of clinical drug data. 10th ed. New York: McGraw-Hill, 2002. ISBN: 0071363629. o.p.
- Bruneton, Jean. Pharmacognosy, phytochemistry, medicinal plants. 2nd ed. London, England: Intercept, Ltd., 1999. ISBN: 9781898298632. o.p.
- Joint Commission for the Accreditation of Healthcare Organizations, ed. A guide to performance improvement for pharmacies. Oakbrook Terrace, IL: Joint Commission on Accreditation of Healthcare Organizations, 1997. ISBN: 0866885374. o.p.
- Knowlton, Calvin H.; and Penna, Richard P., eds. Pharmaceutical care. 2nd ed. Bethesda: American Society of Health System Pharmacists, 2003. ISBN: 9781585280377. o.p.
- Magalini, Sergio I.; and Magalini, Sabina C., eds. Dictionary of medical syndromes. 4th ed. Philadelphia: Lippincott Williams & Wilkins, 1997. ISBN: 0397584180. o.p.
- Nielson-Bohlman, Lynn. Health literacy: a prescription to end confusion. Washington, DC: National Academy Press, 2004. ISBN: 9780309091176. o.p.; also available as an ebook.
- Potter's new cyclopaedia of botanical drugs and preparations. Rev. ed. Saffron Walden, England: C.W. Daniel Company, 1988. ISBN: 0852071973. o.p.
- Poucher's perfumes, cosmetics and soaps. 10th ed. Dordrecht, Netherlands: Springer, 2000. ISBN: 0751404799. o.p.
- Smith, Mickey C., ed. Studies in pharmaceutical economics. New York: Pharmaceutical Press, 1996. ISBN: 9780789000620. o.p.
- *Smith, Michael I.; Wertheimer, Albert I.; and Fincham, Jack E. Pharmacy and the U.S. health care system. 4th ed. New York: Pharmaceutical Products Press, 2013. ISBN: 9780857110220. \$94.00; also available as an ebook.
- Snow, Bonnie. Drug information: a guide to current resources. 3rd ed. New York: Neal-Schuman, 2008. ISBN: 9781555706166. \$195.00.
- Spilker, Bert, ed. Quality of life and pharmacoeconomics in clinical trials. 2nd ed. Philadelphia: Lippincott Williams and Wilkins, 1996. ISBN: 9780781703321. o.p.
- Von Reis Altschul, Siri, ed. Drugs and foods from little known plants: notes in Harvard University herbaria. Cambridge, MA: Harvard, 1973. ISBN: 9780674216761. o.p.
- Wertheimer, Albert I., ed. Final report of the Kellogg Pharmaceutical Clinical Scientist Program. Binghamton, NY: Haworth, J Pharm Teach 1(2), 1990. o.p.

X.2.0 INFORMATICS (Updated Fall 2018)

- Anderson, Philip O.; McGuinness, Susan M.; and Bourne, Philip E., eds. Pharmacy informatics. Boca Raton, FL: CRC Press, 2010. ISBN: 9781420071757. \$96.95.
- Dumitru, Doina, ed. Pharmacy informatics primer. Bethesda, MD: American Society of Health-System Pharmacists, 2009. ISBN: 9781585281664. \$65.00; also available as e-book.

Fox, Brent I.; Thrower, Margaret R.; and Felkey, Bill G., eds. Building core competencies in pharmacy informatics. Washington, DC: American Pharmacists Association, 2010. ISBN: 9781582121444. \$47.95.

Holdford, David A.; and Brown, Thomas R., eds. Introduction to acute and ambulatory care pharmacy practice. Bethesda, MD: ASHP Publications, 2017. ISBN: 9781585285457. \$67.00.

*Malone, Patrick M.; Malone, Meghan J.; Witt, Benjamin A, et al., eds. Drug information: a guide for pharmacists. 7th ed. New York: McGraw-Hill, 2022. ISBN: 9781260460315. \$90.00.

X.2.a BIBLIOGRAPHIES AND LITERATURE GUIDES (Updated Fall 2018)

Huber, Jeffrey T.; and Swogger, Susan, eds. Introduction to reference sources in the health sciences. 6th ed. Chicago: ALA Neal-Schuman, an imprint of the American Library Association, 2014. ISBN: 9780838911846. \$166.50.

*Malone, Patrick M.; Malone, Meghan J.; Witt, Benjamin A, et al., eds. Drug information: a guide for pharmacists. 7th ed. New York: McGraw-Hill, 2022. ISBN: 9781260460315. \$90.00.

Modschiedler, Christa ; and Bennett, Denise B., eds. Guide to reference in medicine and health. Chicago: ALA Editions, 2014. ISBN: 9780838912218. \$88.00.

X.2.a - X.7 BIBLIOGRAPHIES AND LITERATURE GUIDES - ONLINE RESOURCES

Resources by audience / drug class. Drug Information Portal, URL:
https://druginfo.nlm.nih.gov/drugportal/jsp/drugportal/drugResourcesByCategory.jsp?APPLICATION_NAME=drugportal

Sources used in creating and maintain the MeSH vocabulary. Medical Subject Headings: URL:
https://www.nlm.nih.gov/mesh/intro_biblio.html

X.2.b HANDBOOKS AND DICTIONARIES (Updated Summer 2021)

*AHFS drug information: American hospital formulary service. Bethesda, MD: American Society of Health-System Pharmacists, annual. \$440.00; available as an ebook on STAT!Ref.

*American Pharmacists Association, ed. Adult drug information handbook. Waltham, MA: Wolters Kluwer, annual. \$89.95.

British pharmacopoeia. London, England: Her Majesty's Stationery Office, annual. \$1385.40; available in a variety of formats and at various prices.

Compendium of pharmaceuticals and specialties. Ottawa, Canada: Canadian Pharmacists Association, annual. \$416.17; available in a variety of formats and at various prices.

European pharmacopoeia. 10th ed. Strasbourg, France: Council of Europe, 2019-2022. Available in a variety of formats and at various prices.

International nonproprietary names (INN) for pharmaceutical substances. Denominations communes internationales (DCI) pour les substances pharmaceutiques. Lists of Recommended and Proposed INNs. Geneva, Switzerland: World Health Organization, annual. Free; available online.

*Title Recommended for first purchase

International pharmacopoeia. 9th ed. Geneva, Switzerland: World Health Organization, 2019. ISBN: 9241550031. Free; available online.

Japanese Pharmacopoeia 17th ed. Tokyo, Japan: Pharmaceuticals and Medical Devices Agency, 2020. ISBN: 1330867688. Free; available online.

*Martindale: the complete drug reference. 40th ed. London, England: Pharmaceutical Press, 2020. ISBN: 9780857113672. \$825.00; available in a variety of formats and at various prices.

*The Merck index: an encyclopedia of chemicals, drugs, and biologicals. 15th ed. Whitehouse Station, NJ: Merck, 2013. ISBN: 9871849736701. \$125.00; also available online.

*United States pharmacopeia/national formulary: USP/NF. Rockville, MD: US Pharmacopeia, annual. \$850.00; available in a variety of formats and at various prices.

*USP dictionary of USAN and international drug names. Rockville, MD: US Pharmacopeia, annual. \$348.00; available in a variety of formats and at various prices.

X.2.b - X.7 HANDBOOKS AND DICTIONARIES - ONLINE RESOURCES (Updated Summer 2021)

DailyMed. National Library of Medicine, URL: <https://dailymed.nlm.nih.gov/dailymed/>

Drugs.com. Drugsite Trust, URL: <http://www.drugs.com>

*Facts and Comparisons. Lippincott Williams & Wilkins, Available at various prices URL: <https://online.factsandcomparisons.com/>

*Facts and Comparisons. Lippincott Williams & Wilkins, Available at various prices URL: <https://online.factsandcomparisons.com/>

MedlinePlus. Drugs, supplements and herbal information. Bethesda, MD: National Library of Medicine and National Institutes of Health, URL: <http://www.nlm.nih.gov/medlineplus/druginformation.html>

Micromedex. IBM Watson Health, Available at various prices URL: <https://www.micromedexsolutions.com/>

*Micromedex Red Book. IBM Watson Health, Available at various prices and included in Micromedex URL: <https://www.micromedexsolutions.com/>

RxList: the Internet drug index. URL: <http://www.rxlist.com>

X.2.c EVIDENCE-BASED PRACTICE (Updated Summer 2022)

*Bryant, Patrick J.; and Pace, Heather A. The pharmacist's guide to evidence-based medicine for clinical decision making. Bethesda, MD: American Society of Health-System Pharmacists, 2008. ISBN: 9781585281770. \$50.00; also available as an ebook.

Greenhalgh, Trisha. How to read a paper: the basics of evidence based medicine. 6th ed. Hoboken, NJ: Wiley-Blackwell, 2019. ISBN: 9781119484721. \$58.25; also available as an ebook.

*Guyatt, Gordon; Rennie, Drummond; Meade, Maureen O., et al. Users' guides to the medical literature: a manual for evidence-based clinical practice. 3rd ed. New York: McGraw Hill Medical, 2015. ISBN: 9780071790710. \$56.00; also available as an ebook.

*Title Recommended for first purchase

Howlett, Bernadette; Rogo, Ellen; and Shelton, Teresa. Evidence-based practice for health professionals: An interpersonal approach. 2nd ed. Burlington, MA: Jones & Bartlett Learning, 2021. ISBN: 9781284165647. \$111.95; also available as an ebook.

Prasad, Kameshwar. Fundamentals of evidence based medicine. 2nd ed. New Delhi: Springer India, 2014. ISBN: 9788132208303. \$89.99; also available as an ebook.

Reinhold, Jennifer A.; and Earl, Grace, eds. Clinical therapeutics primer: link to the evidence for the ambulatory care pharmacist. Burlington, MA: Jones & Bartlett Learning, 2013. ISBN: 9781449687977. \$60.95.

Riegelman, Richard K. Studying a study & testing a test: reading evidence-based health research. 7th ed. Philadelphia: Wolters Kluwer, 2021. ISBN: 9781975120894. \$72.99; also available as an ebook.

Straus, Sharon E., ed. Evidence-based medicine: how to practice and teach EBM. 5th ed. Edinburgh: Elsevier, 2019. ISBN: 9780702062964. \$44.99; also available as an ebook.

X.3 LAWS, LEGISLATION, REGULATIONS, AND ETHICS (Updated Summer 2022)

*Abood, Richard R.; and Burns, Kimberly. Pharmacy practice and the law. 9th ed. Boston, MA: Jones & Bartlett Learning, 2020. ISBN: 97812841549719. \$139.95; also available as an ebook.

Beers, Donald O.; and Karst, Kurt R. Generic and innovator drugs: a guide to FDA approval requirements. 8th ed. New York: Wolters Kluwer, 2013. ISBN: 9781454836094. Available in a variety of formats and at various prices.

Drugs in litigation: damage awards involving prescription and nonprescription drugs. New York: LexisNexis, annual. \$519.00; also available as an ebook.

Hutt and Grossman's food and drug law, 2021 statutory supplement. Westbury, NY: Foundation Press, 2021. ISBN: 9781636591193. Available in a variety of formats and at various prices.

Hutt, Peter B.; Merrill, Richard A.; and Grossman, Lewis A. Food and drug law: cases and materials. 4th ed. Westbury, NY: Foundation Press, 2014. ISBN: 9781609301750. \$245.00; also available as an ebook.

Kanovsky, Stephen M.; and Pines, Wayne L. , eds. A practical guide to FDA's Food and Drug Law and Regulation. 7th ed. Washington, DC: Food and Drug Law Institute, 2020. ISBN: 9781935065876. \$229.00; also available as an ebook.

Liu, Joy J., ed. FDCA Statutory Supplement. Washington, DC: Food and Drug Law Institute, Annual. \$299.00.

*Model state pharmacy act and model rules of the National Association of Boards of Pharmacy. NABP, URL: <http://www.nabp.net/publications/model-act>

*National Association of Boards of Pharmacy, ed. Survey of pharmacy law. Mount Prospect, IL: NABP, annual. Downloadable PDF, \$195.00. Free of charge to all final-year pharmacy students, distributed by NABP through school.

Reiss, Barry S., ed. Guide to federal pharmacy law. 9th ed. Boynton Beach: Apothecary Press, 2017. ISBN: 9780967633282. \$59.95; also available as an ebook.

X.3 - X.7 LAWS, LEGISLATION, REGULATIONS, AND ETHICS - ONLINE RESOURCES (Updated Summer 2022)

*Code of federal regulations: Title 21: Food and drugs; Title 42: Public health. U.S. Government Printing Office, URL: <http://www.ecfr.gov/>

Court records. URL: <https://www.uscourts.gov/>

Diversion Control Division. URL: <https://www.deadiversion.usdoj.gov/index.html>

Drugs. URL: <https://www.fda.gov/drugs>

Federal register. Office of the Federal Register, National Archives and Records Administration, URL: <https://www.federalregister.gov/>

NAPLEX/MPJE Registration Bulletin. URL: <https://nabp.pharmacy/programs/naplex/>

National Association of Boards of Pharmacy. URL: <https://nabp.pharmacy/>

*Pharmacist's manual: an informational outline of the controlled substances act; Chemical handler's manual: a guide to chemical control regulations. Washington, DC: United States Department of Justice, URL: <https://www.deadiversion.usdoj.gov/pubs/manuals/>

Search for FDA Guidance Documents. URL: <https://www.fda.gov/regulatory-information/search-fda-guidance-documents>

THOMAS: Legislative information on the Internet. URL: <https://www.congress.gov/>

X.4.0 METHODOLOGY, STATISTICS, AND RESEARCH DESIGN (Updated Fall 2018)

*Aparasu, Rajender R.; and Bentley, John P. Principles of research design and drug literature evaluation. 2nd ed. New York: McGraw-Hill Education, 2020. ISBN: 9781260441789. \$85.00, also available as an ebook on AccessPharmacy.

*Austin, Zubin; and Sutton, Jane, eds. Research methods in pharmacy practice: methods and applications made easy. New York: Elsevier, 2019. ISBN: 9780702074264. \$40.99.

*Babar, Zaheer-Ud-Din ed. Pharmacy practice research methods. Springer, 2020. ISBN: 9789811529924. \$179.99, also available as an ebook.

Blalock, Susan J, ed. Making meaning of data in pharmaceutical and clinical research. Washington D.C.: American Pharmacists Association, 2019. ISBN: 9781582123103. \$104.95; also available as an ebook and in APhA Pharmacy Library.

Daniel, Wayne W; and Cross, Chad L, eds. Biostatistics: a foundation for analysis in the health sciences. 11th ed. Hoboken, NJ: 2019. ISBN: 9781119282372. \$120.95, also available as an ebook.

Dicenzo, Robert, ed. Clinical pharmacist's guide to biostatistics and literature evaluation. 2nd ed. Lenexa, KS: American College of Clinical Pharmacy, 2015. ISBN: 9781939862174. \$26.95, also available as an ebook.

Forister, Glenn J.; and Blessing, Dennis J. Introduction to research and medical literature for health professionals. 5th ed. Burlington, MA: Jones & Bartlett Learning, 2020. ISBN: 9781284153774. \$86.95.

*Glantz, Stanton A. Primer of biostatistics. 7th ed. New York: McGraw-Hill, 2012. ISBN: 9780071781503. \$78.00, also available as an ebook.

*Title Recommended for first purchase

Hulley, Stephen B ; Cummings, Steven R; and Browner, Warren S. Designing clinical research. 4th ed. Philadelphia: Wolters Kluwer/Lippincott Williams & Wilkins, 2013. ISBN: 9781608318049. \$100.99.

Motulsky, Harvey. Intuitive biostatistics: a nonmathematical guide to statistical thinking. 4th ed. New York: Oxford University Press, 2018. ISBN: 9780190643560. \$84.99, also available as an ebook.

Patton, Michael Q. Qualitative research and evaluation methods: integrating theory and practice. 4th ed. Los Angeles, CA: Sage, 2015. ISBN: 9781412972123. \$125.00, also available as an ebook.

Riegelman, Richard K; and Nelson, Benjamin A, eds. Studying a Study and Testing a Test. 7th ed. Philadelphia: Wolters Kluwer, 2021. ISBN: 9781975120894. \$69.99, also available as an ebook and in LWW Health Library.

Rosner, Bernard. Fundamentals of biostatistics. 8th ed. Boston, MA: Cengage Learning, 2016. ISBN: 9781305268920. \$199.95.

SAGE Research Methods, URL: <https://methods.sagepub.com/>

*Smith, Felicity. Conducting your pharmacy practice research project. 3rd ed. London: Pharmaceutical Press, 2020. ISBN: 9780857113931. \$42.00.

Sobo, Elisa J., ed. Culture and meaning in health services research: a practical field guide. Walnut Creek, CA: Left Coast Press, 2009. ISBN: 9781598741360. \$128.00, also available as an ebook.

*Vellurattil, Rosalyn P. Pharmacy research: a how-to guide for students, residents, and new practitioners. Washington, D.C.: American Pharmacists Association, 2015. ISBN: 9781582122410. \$31.95, also available as an ebook and in APhA Pharmacy Library.

White, Susan E. Basic and clinical biostatistics. 5th ed. New York: McGraw-Hill Education, 2020. ISBN: 9781260455366. \$89.00, also available as an ebook.

X.4.a QUALITY ASSURANCE (Updated Fall 2018)

Agalloco, J; Desantis, P; Grilli, A, et al., eds. Handbook of Validation in Pharmaceutical Processes. 4th ed. Boca Raton: 2022. ISBN: 9780367754297. \$249.95, also available as an ebook.

Cohen, Michael R. Medication errors. 2nd ed. Washington, DC: American Pharmacists Association, 2007. ISBN: 978-1582120928. \$89.95.

Institute of Medicine Committee on Identifying and Preventing Medication Errors; Aspden, Philip; Wolcott, Julie, et al., eds. Preventing medication errors. Washington, DC: National Academies Press, 2007. ISBN: 9780309101479. \$54.95.

Johnson, Julie K; and Sollecito, William A, eds. McLaughlin and Kaluzny's continuous quality improvement in health care. 5th ed. Burlington, MA: Jones & Bartlett Learning, 2020. ISBN: 9781284126594. \$98.95.

Langley, Gerald J; Moen, Ronald, D; Nolan, Kevin M, et al., eds. The improvement guide: a practical approach to enhancing organizational performance. 2nd ed. San Francisco: Jossey-Bass, 2009. ISBN: 9780470430880. \$19.19.

Nash, Robert A.; Wachter, Alfred H.; and Swarbrick, James, eds. Pharmaceutical process validation: an international edition. New York: Dekker, 2003. ISBN: 9780824708382. \$356.00.

*Title Recommended for first purchase

Ogrinc, Gregory S; Headrick, Linda A; Barton, Amy J, et al., eds. Fundamentals of health care Improvement: A guide to improving your patients' care. 3rd ed. Joint Commission Resources, 2018. ISBN: 9781635850376. \$45.00.

Oster, Cynthia; and Braaten, Jane, eds. High reliability organizations: A healthcare handbook for patient safety and quality. 2nd ed. Indianapolis: Honor Society of Nursing Sigma Theta Tau International, 2021. ISBN: 9781948057776.

Ostrove, Steven; and Rogers, Mark eds. How to validate a pharmaceutical process. London: Academic Press an imprint of Elsevier, 2016. ISBN: 9780128041482. \$49.95.

Warholak, Terri L.; and Nau, David P. Quality and safety in pharmacy practice. New York: McGraw-Hill Professional, 2010. ISBN: 9780071603850. \$48.03.

X.4.a - X.7 QUALITY ASSURANCE - ONLINE RESOURCES (Updated Fall 2018)

Institute for healthcare improvement. URL: <http://www.ihl.org/Pages/default.aspx>

Institute for safe medication practice. URL: <http://www.ismp.org/default.asp>

X.5 - X.7 DIRECTORIES - ONLINE RESOURCES (Updated Summer 2021)

Directory of residencies, fellowships, and graduate programs. URL:
<https://accreditation.ashp.org/directory/#/program/residency>

Residency directory. URL: <https://accreditation.ashp.org/directory/#/program/residency>

School locator. URL: <https://www.aacp.org/resources/school-locator>

WWW virtual library: pharmacy. URL: <http://www.pharmacy.org/>

World list of pharmacy schools. URL: <https://www.fip.org/world-list-of-pharmacy-schools>