

Year 1 - Recommended Resources, 2022 – 2023

This list contains textbooks/resources recommended by faculty. You are not required to purchase any of these texts. We strongly recommend that you use library copies of any resources before making purchases. Books are listed in the order provided by faculty. Please note that many of these texts are available in electronic as well as paper versions through the Medical Resource Center [<https://www.siumed.edu/mrc>] at no charge. There are separate sections of the list for each unit (CRR, NMB, ERG) that follow the resources for all units.

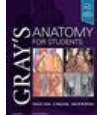
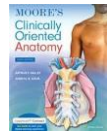
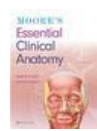

Discipline Resources for All Units

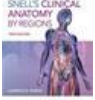
Anatomy – Gross

Faculty Note: Anatomy includes a few main types of resources, of which you'll find recommended examples below:

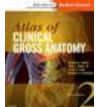
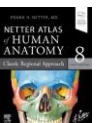
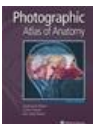

- 1) Anatomy Textbooks (containing mostly drawings and descriptions, medical imaging, clinical correlations, and tables of information)
- 2) Anatomy Atlases (containing either labeled photographs or artistic renditions of cadaveric dissections - very useful in the dissection lab when trying to find structures or learn spatial relationships)
- 3) Anatomy Dissectors (providing instruction on how to dissect in the lab, where to make incisions, etc. We tend to provide this information to you in dissection guides we have developed for each of your anatomy labs). – Dr. D. Sarko

Anatomy Textbooks


Call Number	Book	Description
QS 4 D762g 2020	 Drake, R. [et al.] <i>Gray's Anatomy for Students</i> . 4 th edition, 2019. Churchill Livingstone.	This has excellent illustrations and many very helpful summary tables (Americanized version of the classic/British <i>Gray's Anatomy</i> – see Standing, below). It also has excellent Clinical Correlations, Surface Anatomy, Medical Imaging, and example Case Studies. – Dr. D. Sarko
QS 4 M822c 2023	 Dalley, A. [et al.] <i>Moore's Clinically Oriented Anatomy</i> . 9 th edition, 2023. Lippincott, Williams & Wilkins.	As with Drake's <i>Gray's Anatomy</i> , this is also a very comprehensive text with excellent illustrations and summary tables, along with Clinical Correlations, Surface Anatomy, Medical Imaging, and example Case Studies. – Dr. D. Sarko
QS 39 M822e 2019	 Agur, Anne. <i>Moore's Essential Clinical Anatomy</i> . 6 th edition, 2019. Lippincott, Williams & Wilkins.	This is an abbreviated version of <i>Moore's Clinically Oriented Anatomy</i> , sufficient for learning fundamental and clinical anatomy. It includes imaging and clinical correlates. – Dr. D. Sarko
QS 4 G779B 2021	 Standring, S. <i>Gray's Anatomy: The Anatomical Basis of Clinical Practice</i> . 42 nd edition, 2020. Churchill Livingstone.	This is the highly celebrated text and reference known more simply as “ <i>Gray's Anatomy</i> ” (or British <i>Gray's</i>). With a rich history and MANY previous editions, this text is widely regarded as the bible of anatomy and represents perhaps the foremost authority on the subject of human anatomy. – Dr. D. Sarko

QS 4 S671c 2019		Snell, R. Snell's Clinical Anatomy by Regions. 10 th edition, 2019. Lippincott, Williams & Wilkins.	This is yet another comprehensive text with excellent illustrations; numerous and helpful summary tables; and excellent Clinical Correlations, Surface Anatomy, Medical Imaging, and example Case Studies. – Dr. D. Sarko
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Anatomy Atlases

Call Number	Book	Description
QS 17 A8811 2013	 Moses, K. [et al.] Atlas of Clinical Gross Anatomy. 2 nd edition, 2013. Mosby-Yearbook.	Just a fantastic atlas with full-page color photographs of actual cadaveric dissections , as well as some diagrams and imaging plates. Similar to the atlas by Rohen et al. (below) - both are excellent. – Dr. D. Sarko
QS 17 N474a 2023	 Netter, F. Atlas of Human Anatomy: Classic Regional Approach. 8 th edition, 2023. Saunders.	Who doesn't love Netter? Not me. This atlas depicts some of the best illustrations (rather than photographs of actual cadaveric dissections) of human anatomy, ever. – Dr. D. Sarko
QS 17 R737c 2022	 Rohen, J. Photographic Atlas of Anatomy. 9 th edition, 2021. Lippincott, Williams & Wilkins.	Similar to Moses et al. (above), this atlas also features full-page color photographs of actual cadaveric dissections , with accompanying schematic drawings and diagnostic images. As with the Moses atlas, the photographs depict anatomical structures more realistically than illustrations and show students exactly what they will see in the dissection lab. – Dr. D. Sarko
QS 17 G489a 2020	 Gilroy, A.M. [et al.] Atlas of Anatomy. 4 th edition, 2020. Thieme.	Also helpful, this atlas includes illustrations as well as radiology sections, schematics, and clinical correlations. – Dr. D. Sarko

Anatomy Dissector




Call Number	Book	Description
QS 130 S255g 2020	 Detton, A.J. Grant's Dissector. 17 th Edition, 2020. Lippincott, Williams & Wilkins.	This dissector is an excellent guide, although it definitely does not need to be purchased, because we generally provide information on how to dissect in the lab (where to make incisions, etc.) in each of your anatomy labs (and some of our instructions will differ from Grant's Dissector). – Dr. D. Sarko




Anatomy Websites [All Units]

- <https://radiopaedia.org/>
Excellent, free radiology reference. Searchable for terms of interest (e.g., pneumothorax) and includes fantastic images as well as further details. – Dr. D. Sarko
- <https://stanfordmedicine25.stanford.edu/the25.html>
Open-access resource provided by Stanford University. This provides a range of information, from lymph node or pulmonary exams to deep tendon reflexes. – Dr. D. Sarko
- <https://www.ncbi.nlm.nih.gov/pmc/>
"PubMed Central® (PMC) is a free full-text archive of biomedical and life sciences journal literature at the U.S. National Institutes of Health's National Library of Medicine (NIH/NLM)." This is a go-to resources for finding primary sources of published research articles. – Dr. D. Sarko
- <https://www.ncbi.nlm.nih.gov/books/NBK441885/>
Stat Pearls. Want to know more about anemia or abducens nerve palsy (example link above for pneumothorax)? It's all here. – Dr. D. Sarko

Behavioral & Social Sciences/Population Science & Policy (PSP) Textbooks

Faculty Note: There is no definitive book on behavioral science in medicine. These books, however, are recommended by the behavioral science faculty because they are a good introduction to the definition of behavioral topics, including physician-patient interactions and PSP. The Sahler and Carr book is almost a combination of Feldman & Christensen and Wedding & Stuber and has more test review questions than the other books. Specific PSP sections are given below. These can be found on Amazon.com. – Dr. L. DiLalla

Call Number	Book	Description
WM 15 D536 2013	 American Psychiatric Association. Diagnostic and Statistical Manual of Mental Disorders: DSM5. 5 th edition, 2013. American Psychiatric Publishing.	Essential resource for understanding mental disorders.
WB 103 B419 2020	 Feldman, M. D., & Christensen, J. F. Behavioral Medicine: A Guide for Clinical Practice. 5 th edition, 2020. McGraw-Hill.	Great figure on stress and illness. PSP - contains chapters on several topics, e.g., Mistakes in Medical Practice, Smoking, Obesity, Alcohol and Substance Use.
WZ 330 O58 2010	 Stone, J. On Doctoring. 3 rd edition [revised and expanded], 2010. Simon & Schuster.	This book will provide you with stories relating to patient-physician interactions and empathy that may be interesting and useful to you. Some PPR readings may be drawn from it, but it will NOT be used as a textbook and no test questions will be drawn from it.

WM 103 B419 2018		Sahler, O. J., Carr, J.E., Frank, J., & Nunes, J. The Behavioral Sciences and Health Care. 4 th edition, 2018. Hogrefe and Huber.	This has several chapters on society and illness and two appendices on epidemiology and biostatistics.
WB 100 B4185 2020		Wedding, D., & Stuber, M. Behavior and Medicine. 6 th edition, 2020. Hogrefe.	Excellent source for short, clear explanations of topics such as development, some mental illnesses, death and dying, patient behavior. However, find a different text for description of the Diagnostic and Statistical Manual (DSM-V) as this edition of Wedding and Stuber predates the current DSM. PSP - the last four chapters of this book form a section on "Social and Cultural Issues in Health Care."
W 84 AA1 H434 2021		Skochelak SE, Hammoud M, Lomis KD, et al. Health Systems Science. 2 nd edition, 2021. Elsevier.	


e-Resource



- <https://phprimer.afmc.ca/en/>
The Association of Faculties of Medicine of Canada, AFMC Primer on Population Health. 2021
- <https://www.cdc.gov/ncbddd/actearly/milestones/index.html>
CDC's Developmental Milestones – a checklist and facts for parents.

Biochemistry



Faculty Note: We recommend that you get a book with good illustrations for personal use and use the comprehensive reference books as needed from the MRC. Please do not use Boron, W. and E. Boulpaep. Medical Physiology: A Cellular and Molecular Approach as a primary biochemistry resource; it may not be appropriate for specific topics.

For Students without a Background in Biochemistry

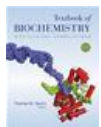

Call Number	Book	Description
QU 4 B361m 2019	 Baynes, J. W., & Dominiczak, M. H. Medical Biochemistry. 5 th edition, 2019. Saunders. New edition due 8/2022	Good combination of basic biochemistry with clinical correlations for several important medical conditions – diabetes, obesity, malnutrition, atherosclerosis, and cancer. Contains both organ-focused chapters addressing the biochemistry of liver, muscle, kidney, bone and lungs, as well as system-focused chapters highlighting the biochemistry of the immune and endocrine systems. – Dr. R. Weilbaecher

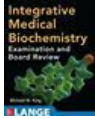

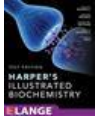
QU 4 M346b 2018		Lieberman, M., & Marks, A. Marks' Basic Medical Biochemistry: A Clinical Approach. 5 th edition, 2018. Lippincott, Williams & Wilkins. New edition due 7/2022	This biochemistry text is a particularly useful resource for metabolism. It breaks down human metabolism in an easy to digest manner, and offers numerous clinical vignettes. – Dr. R. Weilbaecher
QU 34 M515p 2017		Meisenberg, G., & Simmons, W. H. Principles of Medical Biochemistry. 4 th edition, 2017. Mosby-Yearbook.	Another good biochemistry text that integrates basic science with clinical applications. Good clinical cases and USMLE Step 1 style questions. Nice illustrations. – Dr. R. Weilbaecher

For Students with a Background in Biochemistry

Call Number	Book	Description	
QU 4 G815m 2012		Salway, J. G. Medical Biochemistry at a Glance. 3 rd edition, 2012. Wiley-Blackwell.	A bare bones overview of select biochemistry topics with pertinent details and illustrations. Best to use the MRC copies rather than purchasing. – Dr. R. Weilbaecher
Oversize QU 120 S186m 2016		Salway, J. G. Metabolism at a Glance. 4 th edition, 2017. Blackwell.	Effective illustrations for learning metabolic pathways. Good overview and pertinent details. The other ... <i>At a Glance</i> books are good also. Best to use the MRC copies rather than purchasing. – Dr. R. Weilbaecher

Biochemistry Reference/Board Review Books

Call Number	Book	Description	
QU 4 T355 2010		Devlin, T. Textbook of Biochemistry with Clinical Correlations. 7 th edition, 2010. John Wiley & Sons. New edition due 5/2024	A fairly comprehensive reference book of basic biochemistry with good clinical content. – Dr. R. Weilbaecher
QU 18 C451 2021		Abali, E. Lippincott's Illustrated Reviews: Biochemistry. 8 th edition, 2021. Lippincott, Williams & Wilkins.	Helpful illustrations and clinical applications are the main merits of this review book. – Dr. R. Weilbaecher


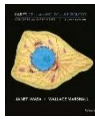
QU 18.2 K53i 2014		King, M. W. Integrative Medical Biochemistry: Examination and Board Review. 1 st edition, 2014. McGraw-Hill.	An in-depth review book of medical biochemistry which integrates physiology and pathology. Good illustrations and includes 500+ USMLE Step 1 style questions and additional MCQs with explanations for each answer. – Dr. R. Weilbaecher
QU 4 L5233p 2021		Nelson, D. L. Lehninger Principles of Biochemistry. 8 th edition, 2021. W. H. Freeman.	This is a very good <i>basic</i> science biochemistry reference book. – Dr. R. Weilbaecher
QU 4 H294r 2018		Rodwell, V. W. [et al.] Harper's Illustrated Biochemistry. 31 st edition, 2018. McGraw-Hill. New edition due 8/30/2022	Helpful illustrations and clinical case studies are the main merits of this review book. – Dr. R. Weilbaecher

Biochemistry Website

- Stanford Pathways of Human Metabolism - <https://metabolicpathways.stanford.edu/>
Stanford Pathways of Human Metabolism is an overview of human metabolism. While not exhaustive, the content was selected to illustrate key metabolic pathways and their interrelationships, including metabolites, enzymes and cofactors that underlie human health and disease.

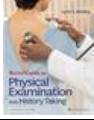

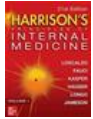

Cell and Molecular Biology

Faculty Note: The following texts are recommended as useful resources in this discipline.

Call Number	Book	Description
QT 104 B7356m 2017	 Boron, W., & Boulpaep E. Medical Physiology: A Cellular and Molecular Approach. 3 rd edition, 2017. Saunders.	This book provides a nice introduction to endocrine and reproductive physiology and is a good basic physiology text. An online version is also available.
QH 577 K18c 2016	 Iwasa, J. Karp's Cell and Molecular Biology: Concepts and Experiments. 8 th edition, 2016. John Wiley & Sons.	Comprehensive reference book


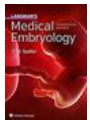
Clinical Medicine

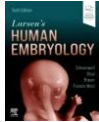


Faculty Note: While Bates is the primary text for doctoring, the other listings may be useful for augmenting your knowledge.

Call Number	Book	Description
WB 205 B583b 2021	 Bickley, L. Bates' Guide to Physical Examination and History Taking. 13 th edition, 2020. Lippincott, Williams & Wilkins.	Doctoring faculty will use it as a reference for teaching proper techniques.
WB 290 B598c 1998	 Billings, J. A. The Clinical Encounter: A Guide to the Medical Interview and Case Presentation. 2 nd edition, 1999. Mosby-Yearbook.	
WB 115 P957 2022	 Kasper, D. [et al.] Harrison's Principles of Internal Medicine. 21 st edition, 2022. McGraw Hill.	
QY 18 M381a 1999	 Martin, L. All You Really Need to Know to Interpret Arterial Blood Gases. 2 nd edition, 1999. Lippincott, Williams & Wilkins.	Good method for evaluating acid-base status. Out of print, MRC has 3 copies. – faculty recommended

Embryology

Faculty Note: Most embryology textbooks have “undergraduate” versions and “graduate” versions written by the same authors. The latter go into more detail. Below are listed the “graduate” texts, which are most appropriate for medical students.

Call Number	Book	Description
QS 604 M822d 2020	 Moore, K. The Developing Human: Clinically Oriented Embryology. 11 th edition, 2019. Saunders.	This book provides a comprehensive discussion of human embryology, including discussions of molecular embryology (genetic regulation and signaling), clinical correlates and congenital anomalies. There are several animation videos and clinical case questions that accompany the e-version of this textbook, which are available on Clinical Key. – M. Thurber
QS 604 L284m 2019	 Sadler, T.W. Langman's Medical Embryology. 14 th edition, 2019. Lippincott, Williams & Wilkins.	This book provides a concise discussion (not as thorough as Moore and Larsen) of human embryology. Discussions of molecular embryology (genetic regulation and signaling), clinical correlates and congenital anomalies are also included. – M. Thurber



QS 604 L334h 2021		Schoenwolf, G.C. Larsen's Human Embryology. 6 th edition, 2021. Churchill Livingstone.	This book provides a comprehensive discussion of human embryology, including discussions of molecular embryology (genetic regulation and signaling), clinical correlates and congenital anomalies. There are several animation videos that accompany the e-version of this textbook, which are available on Clinical Key. – M. Thurber
QS 604 C284h 2019		Carlson, B. Human Embryology and Developmental Biology. 6 th edition, 2018. Mosby-Yearbook.	This is an excellent textbook but goes into more detail than medical students are expected to learn. I would recommend using this textbook if you still have queries after reading Moore, Langman, and Larsen. - M. Thurber
QS 618.2 D845h 2014		Dudek, R.W. and Fix, J. High-Yield Embryology (Board Review Series). 5 th edition, 2014. Lippincott, Williams & Wilkins.	This book is a Board Review Series book. This text contains summaries and questions for reviewing. This should not be used as a primary resource.

Embryology Website

- https://embryology.med.unsw.edu.au/embryology/index.php/Main_Page
The website has nice animations and descriptions. It does have more detail than is expected to know, but has some helpful overview timeline images.
- <https://radiopaedia.org/>
Additional embryology resource.

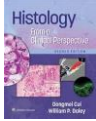

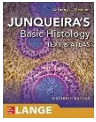

Genetics

Faculty Note: The following texts are recommended as useful resources in this discipline.

Call Number	Book	Description
QZ 50 M48848 2020		Jorde, L. et al. Medical Genetics. 6 th edition, 2020. Elsevier Science. A nice website is available for this text, which includes 150 USMLE-style questions: http://medgen.genetics.utah.edu/ .
QZ 50 T474t 2016		Nussbaum, R. Thompson and Thompson Genetics in Medicine. 8 th edition, 2016. Saunders. This is an excellent genetics textbook for medical students. It covers the basic principles of genetics and has a set of 29 clinical cases with color pictures.

Histology

Faculty Note: Each student should have access to an introductory text/atlas, such as one of the following. –Dr. J. Cheatwood

Call Number	Book	Description
QS 517 A8816 2022	 <p>Cui, D. Atlas of Histology: With Functional and Clinical Correlations. 2nd edition, 2022. Lippincott Williams & Wilkins.</p>	Good correlations to pathology and clinical medicine. – Dr. N. Henry
QS 504 K47h 2020	 <p>Kierszenbaum, A. Histology and Cell Biology: An Introduction to Pathology. 5th edition, 2020. Elsevier Science.</p>	Includes extensive correlates with biochemistry, cell biology, and pathology. Highly recommended. -Dr. N. Henry
QS 504 J95b 2021	 <p>Mescher, A. Junqueira's Basic Histology: Text and Atlas. 16th edition, 2021. McGraw-Hill.</p>	This is one of the best histology texts/atlas currently on the market. I prefer this text and use it as a primary resource. Purchase is highly recommended. – Dr. J. Cheatwood
QS 517 R825h 2020	 <p>Pawlina, W. Histology: A Text and Atlas with Correlated Cell and Molecular Biology. 8th edition, 2020. Lippincott, Williams & Wilkins.</p>	Good reference text.

Slide Sets

- Carl Zeiss Compound Binocular Microscope (in MRC)
- Histology Microscopic Slides 1-100 (in MRC)



Histology Websites

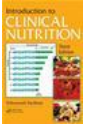

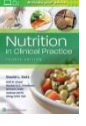
- <https://calgaryguide.ucalgary.ca/>
The Calgary Guides: A collaboration of students and faculty members at the University of Calgary. An excellent resource for EPBL cases. -Dr. N. Henry
- <http://www.siumed.edu/~dking2/>
SIUMED Histology Website: Digital textbook and atlas. In- depth website created by Dr. David King. Images from glass slides that are included in the SIUSOM histology collection.

- <http://www.meddean.luc.edu/lumen/MedEd/Histo/virtualhistology.htm>
Lumen Zoomify Histology: Loyola University Virtual Histology. Excellent site for virtual slides and descriptions. – Dr. N. Henry
- <https://histology.medicine.umich.edu/full-slide-list>
University of Michigan Virtual Slide List: Michigan Histology and Virtual Microscopy Learning Resources. Excellent site for virtual slides. – Dr. N. Henry
- <http://library.med.utah.edu/WebPath/webpath.html#MENU>
Mercer U., WebPath, The Internet Pathology Laboratory. Great microscopic and gross pathology resource slides. – Dr. N. Henry
- <http://www.drjastrow.de/WAI/EM/EMAtlas.html>
Electron Microscopic Atlas of Cells, Tissues, and Organs on the Internet. Well organized site for EM's of cell structures, tissues, and organ systems. – Dr. N. Henry
- <http://www.anatomyatlases.org/MicroscopicAnatomy/MicroscopicAnatomy.shtml>
Link to Atlas of Human Histology, University of Minnesota for additional study material – see Microscopic Anatomy Atlas
- https://www.youtube.com/channel/UCvSvCkHjCbHn8aGd6OPno_A/playlists
Chapman Histology Videos. Good short overview videos of tissues. – Dr. N. Henry
- <http://ihearthiso.com/>
I <3 Histo! Dr. N. Henry's Favorite!
- <http://www.pathpedia.com/Education/eAtlas/Histopathology.aspx>
PathPedia

Nutrition





Faculty Note: The following texts are recommended as useful resources in this discipline.

Call Number	Book	Description
WB 400 M4896 2014	 <p>Hark, L. [et al.] Medical Nutrition and Disease: A Case-Based Approach. 5th edition, 2014. Wiley-Blackwell.</p>	Good overview and clinical information. – faculty recommended
WB 400 N97538 2011	 <p>Nelms, M. Sucher, K., & Long, S. Nutrition Therapy and Pathophysiology. 2nd edition, 2011. Wadsworth.</p>	This book has good online reviews. I've been using it and think it is very good. Out of print, the MRC has one copy. – Dr. D. Zaczek

QU 145 S244i 2012		Sardesai, V. M. Introduction to Clinical Nutrition. 3 rd edition, 2012. CRC Press.	Good information, more biochemistry aspects of nutrition, some errors were noted in structures of molecules. – faculty recommended
No holdings in MRC		Velazquez, A. Clinical Nutrition Basics for Medical Students. 2 nd edition, 2014. SIU School of Medicine.	Recommended by Dr. Smith.
QU 145 K193n 2022		Katz, D. Nutrition in Clinical Practice: A Comprehensive, Evidence-Based Manual for the Practitioner. 4 th edition, 2022. Lippincott Williams & Wilkins.	Recommended by Dr. Smith

Pharmacology

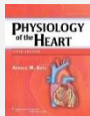
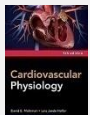
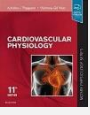
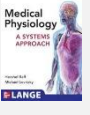
Faculty Note: These recommendations are made by Drs. Greg Rose and Amber Pond.

Call Number	Book	Description
QV 4 B311 2021	 Katzung, B. Basic and Clinical Pharmacology. 15 th edition, 2021. McGraw-Hill.	
QV 4 R1956 2020	 Ritter, J. [et al.] Rang and Dale's Pharmacology. 9 th edition, 2019. Churchill Livingstone.	
QV 4 H918 2019	 Wecker, L. Brody's Human Pharmacology: Mechanism-Based Therapeutics. 6 th edition, 2019. Elsevier.	
QV 18 P53601 2019	 Whalen, K. et al. Lippincott's Illustrated Reviews: Pharmacology. 7 th edition, 2019. Lippincott, Williams and Wilkins. New edition due 9/2022	

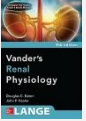
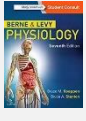

*Cardiovascular/Respiratory/Renal (CRR) Unit

Unit Director Note: The following texts are recommended as useful resources in this discipline.

Cardiovascular Physiology Textbooks

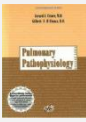
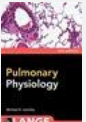
Call Number	Book	Description
WG 202 K19p 2011	 <p>Katz, A. <i>Physiology of the Heart</i>. 5th edition, 2011. Lippincott, Williams and Wilkins.</p>	While I borrow figures from this text for some resource sessions, I recommend borrowing this from the MRC when you need in-depth analysis. It is heavy on the molecular biology and perhaps too rigorous for most Year 1 students' needs. – Dr. R. Weilbaecher
WG 200 P2973 2021	 <p>Lilly, L. S. <i>Pathophysiology of Heart Disease: A Collaborative Project of Medical Students and Faculty</i>. 7th edition, 2020. Lippincott, Williams & Wilkins.</p>	A very useful pathophysiology of heart disease for the Year 1 student and later for board review. – Dr. R. Weilbaecher
WG 102 M477c 2018	 <p>Mohrman, D. E., & Heller, L. J. <i>Cardiovascular Physiology</i>. 9th edition, 2018. McGraw-Hill.</p>	A very useful cardiovascular physiology book for the Year 1 student and later for board review. – Dr. R. Weilbaecher
WG 102 B525c 2019	 <p>Pappano, A. <i>Cardiovascular Physiology</i>. 11th edition, 2018. Elsevier.</p>	A very useful cardiovascular physiology book for the Year 1 student and later for board review. – Dr. R. Weilbaecher
QT 104 R136m 2011	 <p>Raff, H. <i>Medical Physiology: A Systems Approach</i>. 1st edition, 2011. McGraw-Hill (Lange Series).</p>	This is a comprehensive physiology book that includes at least two monographs you will find useful: Mohrman & Heller's <i>Cardiovascular Physiology</i> (above) and <i>Vander's Renal Physiology</i> . Note that both of the monographs can be purchased separately. – Dr. R. Weilbaecher

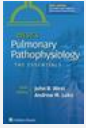
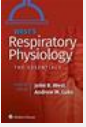
Renal Physiology Textbooks

Call Number	Book	Description
WJ 301 V229r 2018	 <p>Eaton, D. C., & Pooler, J. P. Vander's Renal Physiology. 9th edition, 2018. McGraw-Hill.</p>	Beautifully written renal physiology, originally written by Vander, and recently updated. Very little clinical application, but an excellent source for the basic science. – Dr. P. Jensik
QT 104 P579 2018	 <p>Koeppen, B. Berne and Levy Physiology. 7th edition, 2018. Elsevier.</p>	Both this text and Boron (listed below) provide additional depth for the basic science and some clinical insights. – Dr. P. Jensik
QT 104 B7356m 2017	 <p>Boron, W., & Boulpaep E. Medical Physiology: A Cellular and Molecular Approach. 3rd edition, 2017. Saunders.</p>	

Respiratory Physiology Textbooks

Unit Director Note: The two West and the Levitsky paperback books are, in general, the more helpful to students in CRR units of the first two years and with the USMLE Step 1. Slightly used editions of these 3 paperback books are acceptable to use and are usually available online at reasonable prices on Amazon. Notably, Boron & Boulpaep (Medical Physiology, see section above) offers a lot of useful detail for most topics in pulmonary physiology and is overall very comprehensive. If you are new to respiratory physiology, a more basic physiology text such as Costanzo Physiology is a better source to start your respiratory physiology/pathophysiology learning– Dr. B. Bany

Call Number	Book	Description
WF 140 C931p 1999	 <p>Criner, G. J., & D'Alonzo, G. E. Pulmonary Pathophysiology. 1999. Fence Creek.</p>	Lots of detail so use only as a reference. Good review questions. Although this book is out of print, the MRC has three copies. Used copies may be available online but are more difficult to find. – Dr. B. Bany
WF 600 L666p 2018	 <p>Levitsky, M. G. Pulmonary Physiology. 9th edition, 2018. McGraw-Hill. New edition due 8/19/2022</p>	Not quite the lineage of West, but some do find it easier to read than the West Respiratory Physiology book, while others find it more difficult to understand. –Dr. B. Bany

WF 600 W514p 2022		West, J. B. West's Pulmonary Pathophysiology: The Essentials. 10 th edition, 2021. Lippincott, Williams & Wilkins.	A useful book that is concise and good depth in Pulmonary Physiology. -Dr. B. Bany
WF 102 W518r 2021		West, J. B. West's Respiratory Physiology: The Essentials. 11 th edition, 2021. Lippincott, Williams & Wilkins.	A useful book that is concise and covers to a good depth in Pulmonary Pathophysiology. -Dr. B. Bany

Slide Sets

- Jamal Johnson histology slides (in MRC)
- CRR SAQ Slides 1-9 (in MRC)

Swan-Ganz catheter, labelled (in MRC)

- A style of oximetry catheter used during pulmonary artery catheterization (PAC).

Model	Description
Heart	Anatomical detail of the entire heart. The front heart wall is detachable to reveal the chambers and valves inside.
Kidney stone	This model shows the opened right kidney in natural size. The renal calices, the renal pelvis and the ureter are opened as well on the anatomy model so that concretions or stones can be identified within the kidney.
Kidney with adrenal gland	This model shows the kidney with adrenal gland, renal and adrenal vessels of the kidney, and the upper portion of ureter. The front half of the kidney is removable to enable demonstration of cortex medulla and vessels for teaching about the human kidney.
Kidney with upper abdominal organs	This model has the rear organs of the upper abdomen combined with the kidney, depicting the anatomy of the human urinary system and digestive system. The upper abdominal organs are attached in their natural anatomical positions and are removable from the kidneys.
Right lung	This full size cut-away of the right side of lung shows bronchus, arteries, vein, two lymph nodes, bronchial passages and trachea bifurcation.

* Neural, Muscular, and Behavioral (NMB) Unit




Neuroscience

Unit Director Note: There are many useful neuro texts on the market, and we suggest you review some of them before making any purchases. The books we suggest here target very distinct experience levels. As with Gross Anatomy, Neuro books span textbooks and atlases. There are neuroanatomy coloring books too, if you're feeling artistic. – Dr. D. Sarko

Neuro Textbooks


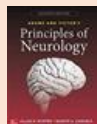
Call Number	Book	Description
WL 141 B658n 2022	 Blumenfeld, H. Neuroanatomy through Clinical Cases. 3rd edition, 2021. Sinauer Associates.	This textbook might be the neuro bible for med students - it is highly recommended and widely used in medical schools, effectively weaving clinical neurology with neuroanatomy. It contains EXCELLENT figures (particularly for illustrating difficult concepts, like pathways) in addition to clinical case scenarios with descriptions. – Dr. D. Sarko
WL 102 N4996 2018	 Purves, D. et al. Neuroscience. 6 th edition, 2017. Sinauer Associates.	This is an excellent neuro textbook, particularly good for beginners who have not had much previous experience with neurophysiology and neuroanatomy. Numerous previous versions may be available, and should be just fine for principal concepts. – Dr. D. Sarko
WL 102 P9547 2021	 Kandel, E.R., Koester, J., Mack, S, Siegelbaum, S.A. Principles of Neural Science. 6 th edition, 2021. McGraw-Hill.	Also a bit of a neuro bible, with the heft to prove it. Not for beginners , nor for the faint of heart. Pretty heavily detailed, this is an excellent reference book, and students have reported using this textbook to study for boards in the second year and to review during their third year clerkships. – Dr. D. Sarko
WL 101 F981 2018	 Haines, D. Fundamental Neuroscience for Basic and Clinical Applications. 5 th edition, 2018. Saunders.	The figures and diagrams in this book are helpful. It does not offer clinical cases, but it does treat certain topics with more depth than the Blumenfeld book. – Dr. D. Sarko
WL 101 A783n 2015	 Arslan, O. Neuroanatomical Basis of Clinical Neurology. 2 nd edition, 2015. CRC Press Publications.	This book weaves neuroscience/neuroanatomy with clinical neurology (as the title suggests). Much more text-oriented than the others, this book is full of clinical correlates. – Dr. D. Sarko
WL 102 M439n 2001	 Matthews, G. Neurobiology: Molecules, Cells and Systems. 2 nd edition, 2001. Blackwell Publishing.	Good for beginners - although this book is out of print, the MRC has several copies, and it is usually still available from Amazon. – Dr. D. Sarko

Neuro Atlases

Call Number	Book	Description
WL 17 H153n 2019	 <p>Haines, D.E. Neuroanatomy Atlas in Clinical Context: Structures, Sections, Systems, and Syndromes. 10th edition, 2018. Lippincott, Williams & Wilkins.</p>	Haines is the expert for neuroanatomy. This atlas contains very useful myelin-stained sections of the brainstem and spinal cord, as well as gross sections through the brain, both labeled and unlabeled – i.e., pictures of actual gross brains and brain sections plus imaging. In later editions, Haines does a better job of relating gross brain sections to MRIs, but earlier/cheaper editions will fulfill most of your neuroanatomical needs just fine. – Dr. D. Sarko
WL 17 F326n 2022	 <p>Felten, D.L. et al. Netter's Atlas of Neuroscience. 4th edition, 2022. Elsevier.</p>	Netter does an outstanding job of almost everything, including this neuro atlas. (Note that these are illustrations , what Netter is famous for.) – Dr. D. Sarko
QS 17 H432 2021	 <p>Schuenke, M. et al. Thieme Atlas of Anatomy: Head, Neck and Neuroanatomy. 3rd edition, 2021. Thieme.</p>	I recommend leafing through different atlases to see if a particular one suits you best. Thieme is less of my go-to, but it does illustrate some things better than other sources. – Dr. D. Sarko

Clinical Neuroscience/Neurology

Unit Director Note: Additional resources, mainly for those with a future interest in specializing in Neurology. Both of these are excellent neurology texts, although they are different and not always in agreement. Adams and Victor's text provides the basis for the Clinical Neuro exams used in our curriculum. These are excellent occasional use texts. – Dr. D. Sarko

Call Number	Book	Description
WL 100 T3545 2007	 <p>Goetz, C. Textbook of Clinical Neurology. 3rd edition, 2007. W. B. Saunders.</p>	
WL 100 A216p 2019	 <p>Ropper, A. Adams and Victor's Principles of Neurology. 11th edition, 2019. McGraw-Hill.</p>	

NMB-Specific Websites

- <https://nba.uth.tmc.edu/neuroscience/toc.htm>
This is an open-access resource provided by the University of Texas/McGovern Medical School, with a table of contents that can direct you toward topics you'd like to learn more about, from action potentials to higher cortical functions. – Dr. D. Sarko
- https://learninglink.oup.com/access/the-neuroexam-video#tag_01-introduction-to-the-neurological-exam
A Blumenfeld resource, this site complements the Blumenfeld textbook, and takes you through neurological exams. A great resource for testing cranial nerve, motor, and sensory functions. It includes videos of the exams which are particularly helpful. – Dr. D. Sarko
- <http://healthcaresciencesocw.wayne.edu/cnm/>
An additional cranial nerve examination guide provided by Wayne State University. Includes testing procedures, video examination demonstrations, and clinical notes/interpretations. – Dr. D. Sarko
- <https://brains.anatomy.msu.edu/brains/human/index.html>
A human brain atlas provided by Michigan State University. The MRI sections are older, and a bit low-resolution, but this site compares MRI brain scans (labeled or unlabeled) to stained sections of human brains (Nissl body cell stains and myelin stains). – Dr. D. Sarko



Model	Description
Brain	Replica of a human brain with multiple views. Separates into 3 parts: right hemisphere of the brain, upper part of left hemisphere, and lower part of left hemisphere.
Brain with Arteries	Detailed model of the human brain, incorporates markings illustrating arteries and cranial nerves. 8 parts: 4 cerebrum parts (right and left upper part, right and left lower part), brain stem halves, and cerebellum halves.
Ear	Approximately 3 times life size. Pinna, external ear canal, tympanum, auditory ossicles, Eustachian tube, vestibular apparatus, and cochlea are shown in detail along with neural, osseous, and vascular structures. The middle and inner ear components are removable for individual examination.
Neuro Vascular Skull	Life size model with removable skull cap and seven cervical vertebrae mounted on a stand. Arteries are shown on one side and nerves on the other. Removing the skull cap exposes the main nerves and arteries on the floor of the cranium. The 12 cranial nerves and the distribution of their branches are shown.
Skull	This medical quality human skull replica is for basic anatomical studies of the skull. Representation of the fissures, foramina, processes, sutures. Can be disassembled into skull cap, base of skull and mandible.
Skull and Brain	The 3-part human skull replica is for basic anatomical studies of the skull. This skull model includes an anatomical brain. Representation of the fissures, foramina, processes, sutures. Can be disassembled into skull cap, base of skull and brain.

*Endocrine/Reproduction/Gastrointestinal (ERG) Unit




Endocrine/Reproductive Physiology Textbooks

Unit Director Note: General Note: Some general physiology texts such as Ganong's Review of Medical Physiology present a good overview of endocrine physiology and would be a good place to start, but the basic science detail is lacking (and sometimes incorrect) and one of the more in-depth texts above is recommended to supplement any review book.

Call Number	Book	Description
WK 102 B311 2018	 Gardner, D., & Shoback, D. Greenspan's Basic and Clinical Endocrinology. 10 th edition, 2018. McGraw-Hill.	This has been a popular book with students in previous classes and has good clinical endocrinology; sometimes sketchy on basic science detail.
WK 102 G653b 2021	 Goodman, H. Goodman's Basic Medical Endocrinology. 5 th edition, 2020. Academic Press.	Also available as an eBook. Up-to-date and easy to use as a reference, with excellent illustrations. Covers basic molecular and cellular aspects of endocrine physiology, with little clinical content. – Dr. D. Hales
WK 102 T355 2012	 Kovacs, W., & Ojeda, S. Textbook of Endocrine Physiology. 6 th edition, 2012. Oxford University Press.	Faculty like the up-to-date and easy-to-read basic science depth of this text, but it is not as clinically-oriented as some of the other textbooks.
WK 100 T355 2020	 Melmed, S. Williams Textbook of Endocrinology. 14 th edition, 2020. Elsevier Science.	This is the "Bible of Endocrinology." Excellent depth in basic and clinical endocrinology, but a difficult read. Instead of purchasing, consider using MRC copies for specific hard-to-find topics.
WK 102 M722e 2018	 Molina, P. Endocrine Physiology. 5 th edition, 2018. McGraw-Hill.	The book provides a concise review of various endocrinology topics and is easy to read. It is a good starter book to understand the basics of endocrinology.

WQ 205 R4287 2019		Strauss, J., & Barbieri, R. Yen and Jaffe's Reproductive Endocrinology: Physiology, Pathophysiology and Clinical Management. 8 th edition, 2019. Saunders.	Outstanding, up-to-date coverage that encompasses the full spectrum of reproductive pathophysiology and disorders, from pregnancy and birth to reproductive aging. Full-color illustrations and new drawings provide a real-life depiction of basic cell structures and endocrine responses for a better understanding of the material. –Dr. D. Hales
WK 102 P849e 2019		White, B. Endocrine and Reproductive Physiology. 5 th edition, 2018. Mosby.	This book provides a good, concise overview of endocrine physiology in health and disease, and includes relevant self-study questions. Sometimes lacks detail, but overall a good basic book that also includes clinical endocrinology situations.

Gastrointestinal Physiology Textbooks

Call Number	Book	Description
WI 102 B274g 2014	 Barrett, K. Gastrointestinal Physiology. (Lange Physiology Series) 2 nd edition, 2014. McGraw-Hill.	I like this textbook a lot and would rank it equally as effective as Johnson. –Dr. D. Zaczek
WI 102 G258 2019	 Johnson, L. Gastrointestinal Physiology. 9 th edition, 2018. Mosby.	This is an excellent monograph for learning the essentials of GI physiology. –Dr. D. Zaczek
WI 140 G2575 2004	 Rose, S. Gastrointestinal and Hepatobiliary Pathophysiology. 2 nd edition, 2004. Hayes Barton.	

Slide Sets

- ERG-SAQ Histology Slides 1-24 (in MRC)

Model	Description
Colon	Model with cut-away view illustrating the following common pathologies: adhesions, appendicitis, bacterial infection, cancer, Crohn's disease, diverticulitis, diverticulosis, polyps, spastic colon, and ulcerative colitis.
Esophagus	Life-size model showing illnesses of the esophagus from the frontal section, to the upper part of the stomach, back of the esophagus, diaphragm and stomach.
Female Pelvis	Life size model, illustrates an open dissection through the median sagittal section of the pelvis. Internal structures of the female urogenital system are depicted. Dissects into 3 parts: removable half of the female reproductive system with the uterus opened to reveal medial and transverse sectional views.
Larynx	Approximately 2 times life size. The medially sectioned larynx model shows the larynx, hyoid bone, windpipe, ligaments, muscles, vessels and nerves. The thyroid gland, thyroid cartilage, 2 muscles and 2 thyroid gland halves are removable from larynx.
Male Pelvis	Life size model. Illustrates an open view through a median sagittal section of the pelvis. Internal structures of the male urogenital system are depicted. Dissects into 4 parts: removable sections include a half penis divided into medial and transverse sections, and half of the male reproductive system with an open dissection of a testis showing details of the internal structure.
Rectum	1-1/2 times life size model displaying ulcerative colitis, internal and external fistula, internal and external hemorrhoids, annular cancer, sessile polyp, submucosal abscess, skin tag, pedunculated polyp, supralelevator abscess, ischiorectal abscess, cryptitis, diverticulum, condyloma acuminatum, fissure and condyloma latum.
Uterus-Ovary	Full size cross-section model illustrates multiple pathologies, some of which include: adhesions, carcinoma in four common areas, cysts, endometriosis, fibroids, pedunculated fibroid tumor, polyps and salpingitis.