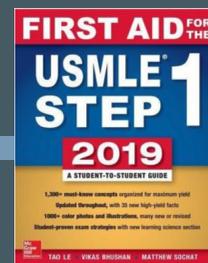


## SECTION IV

# Top-Rated Review Resources



*“Some books are to be tasted, others to be swallowed, and some few to be chewed and digested.”*

—Sir Francis Bacon

*“Always read something that will make you look good if you die in the middle of it.”*

—P.J. O’Rourke

*“So many books, so little time.”*

—Frank Zappa

*“If one cannot enjoy reading a book over and over again, there is no use in reading it at all.”*

—Oscar Wilde

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## ▶ HOW TO USE THE DATABASE

This section is a database of top-rated basic science review books, sample examination books, websites, apps, and commercial review courses that have been marketed to medical students studying for the USMLE Step 1. At the end of the section is a list of publishers and independent bookstores with addresses and phone numbers. For each recommended resource, we list (where applicable) the **Title**, the **First Author** (or editor), the **Series Name** (where applicable), the **Current Publisher**, the **Copyright Year**, the **Number of Pages**, the **ISBN**, the **Approximate List Price**, the **Format** of the resource, and the **Number of Test Questions**. We also include **Summary Comments** that describe their style and overall utility for studying. Finally, each recommended resource receives a **Rating**. Within each section, resources are arranged first by Rating and then alphabetically by the first author within each Rating group.

A letter rating scale with six different grades reflects the detailed student evaluations for **Rated Resources**. Each rated resource receives a rating as follows:

A+	Excellent for boards review.
A A-	Very good for boards review; choose among the group.
B+ B	Good, but use only after exhausting better resources.
B-	Fair, but there are many better resources in the discipline; or low-yield subject material.

The Rating is meant to reflect the overall usefulness of the resource in helping medical students prepare for the USMLE Step 1. This is based on a number of factors, including:

- The cost
- The readability of the text
- The appropriateness and accuracy of the material
- The quality and number of sample questions
- The quality of written answers to sample questions
- The quality and appropriateness of the images and illustrations
- The quality of the user interface and learning experience, for web and mobile apps
- The length of the text (longer is not necessarily better)
- The quality and number of other resources available in the same discipline
- The importance of the discipline for the USMLE Step 1

Please note that ratings do not reflect the quality of the resources for purposes other than reviewing for the USMLE Step 1. Many books with

lower ratings are well written and informative but are not ideal for boards preparation. We have not listed or commented on general textbooks available in the basic sciences.

Evaluations are based on the cumulative results of formal and informal surveys of thousands of medical students at many medical schools across the country. The summary comments and overall ratings represent a consensus opinion, but there may have been a broad range of opinion or limited student feedback on any particular resource.

Please note that the data listed are subject to change in that:

- Publisher and app store prices change frequently.
- Retail and online bookstores may set their own prices.
- New editions and app versions come out frequently, and the quality of updating varies.
- The same book may be reissued through another publisher.

We actively encourage medical students and faculty to submit their opinions and ratings of these basic science review materials so that we may update our database. In addition, we ask that publishers and authors submit for evaluation review copies of basic science review books, including new editions and books not included in our database. We also solicit reviews of new books, mobile apps, websites, flash cards, and commercial review courses.

#### **Disclaimer/Conflict of Interest Statement**

None of the ratings reflects the opinion or influence of the publisher. All errors and omissions will gladly be corrected if brought to the attention of the authors through our blog at [www.firstaidteam.com](http://www.firstaidteam.com). Please note that USMLE-Rx and the entire *First Aid for the USMLE* series are publications by the senior authors of *First Aid for the USMLE Step 1*; the following ratings are based solely on recommendations from the student authors of *First Aid for the USMLE Step 1* as well as data from the student survey and feedback forms.

## ▶ QUESTION BANKS AND BOOKS

<b>A+</b>	<b><i>UWorld Qbank</i></b> <b>UWORLD</b> <a href="http://www.uworld.com">www.uworld.com</a>	<b>\$229–\$649</b> Test/2400 q
<p>Questions demand multistep reasoning and are often more difficult than those on the actual exam. Offers detailed explanations with figures and tables. Features a number of test customization and analysis options. Users can see cumulative results both over time and compared to other test takers. In addition to a desktop version, it can be accessed through iOS or Android mobile apps.</p>		
<b>A</b>	<b><i>NBME Practice Exams</i></b> <b>NATIONAL BOARD OF MEDICAL EXAMINERS</b> <a href="https://nsas.nbme.org/home">https://nsas.nbme.org/home</a>	<b>\$60</b> Test/200 q
<p>The official practice exams put out by the NBME are comprised of retired Step 1 questions. NBME research found that they show a “moderate correlation” with actual Step 1 performance. The exams will show you which questions you answered incorrectly, but they will not show any explanations. You will also not be able to review correctly-answered questions. Students generally use these as rough gauges of their score progression over their study time. Note that you can sign up to for an in-person practice exam for an additional \$75 (different from the online NBME exams) to be taken at Prometric, for students who want to practice the logistics of exam day.</p>		
<b>A</b>	<b><i>USMLE-Rx Qmax</i></b> <b>USMLE-Rx</b> <a href="http://www.usmle-rx.com">www.usmle-rx.com</a>	<b>\$89–\$339</b> Test/2300 q
<p>Offers Step 1–style questions accompanied by thorough explanations. Omits obscure material and distills high yield information. Each explanation includes references from <i>First Aid</i>. However, the proportion of questions covering a given subject area does not always reflect the actual exam’s relative emphasis. Question stems occasionally rely on “buzzwords.” Most useful to help memorize <i>First Aid</i> facts. Provides detailed performance analyses. In addition to a desktop version, it can be accessed through iOS or Android mobile apps.</p>		
<b>A–</b>	<b><i>First Aid Q&amp;A for the USMLE Step 1</i></b> <b>LE</b> McGraw-Hill, 2012, 784 pages, ISBN 9780071744027	<b>\$46</b> Test/1000 q
<p>Questions are drawn from the USMLE-Rx Step 1 Qmax test bank, organized according to subject. Also features one full-length exam of 336 questions. Questions are easier than those found on Step 1, but provide representative coverage of the concepts typically tested. Includes brief but adequate explanations of both correct and incorrect answer choices.</p>		
<b>B+</b>	<b><i>Kaplan Qbank</i></b> <b>KAPLAN</b> <a href="http://www.kaptest.com">www.kaptest.com</a>	<b>\$80–\$240</b> Test/2200 q
<p>Covers most content found on Step 1, but sometimes emphasizes recall of low yield details rather than integrative problem-solving skills. Test content and performance feedback can be organized by both organ system and discipline. Includes detailed explanations of all answer choices. Users can see cumulative results both over time and compared to other test takers. In addition to a desktop version, it can be accessed through iOS or Android mobile apps.</p>		

**B*****Kaplan USMLE Step 1 Qbook*****\$50** Test/850 q

KAPLAN

Kaplan, 2017, 468 pages, ISBN 9781506223544

Consists of over 850 exam-like questions organized by the traditional basic science disciplines. Similar to the Kaplan Qbank, and offers USMLE-style questions with clear, detailed explanations; however, lacks classic images typically seen on the exam. Also includes access to a sample online question bank and a guide on test-taking strategies.

## ▶ WEB AND MOBILE APPS

<p><b>A</b></p>	<p><b>Anki</b>  <a href="http://www.ankisrs.net">www.ankisrs.net</a></p> <p>Flash card-making resource designed for retention of facts through spaced repetition. Although this program provides free access for Windows, Mac, and Android smartphones, the iOS app is not free. Available in different languages.</p>	<p><b>Free/\$25</b> Flash cards</p>
<p><b>A</b></p>	<p><b>Boards and Beyond</b>  <a href="https://www.boardsbeyond.com">https://www.boardsbeyond.com</a></p> <p>Includes 402 videos averaging ~26 minutes each, covering the breadth of Step 1 material. Membership includes access to the companion books as PDFs. 27 videos are offered as free samples on the website. Also includes over 500 quiz questions.</p>	<p><b>\$19–\$249</b> Review</p>
<p><b>A</b></p>	<p><b>First Aid Step 1 Express</b>  <a href="http://www.usmle-rx.com">www.usmle-rx.com</a></p> <p>More than 80 hours of high-yield videos explaining material from <i>First Aid for the USMLE Step 1</i>. Videos include more than 600 extra images and multimedia clips. Step-by-step analysis of USMLE-style questions with each video. Subscription includes a color workbook with over 200 pages.</p>	<p><b>\$69–\$299</b> Review/Test</p>
<p><b>A</b></p>	<p><b>Physeio</b>  <a href="http://www.physeio.com">www.physeio.com</a></p> <p>Online review containing 32 hours of review videos covering physiology. Accessible via website or mobile app. Includes a supplemental full-color PDF textbook. Videos are concise and focus on high-yield material, and board-style practice questions are included after each topic to help solidify understanding. Similar structure to Pathoma, but with physiology focus.</p>	<p><b>\$60–\$120</b> Review</p>
<p><b>A</b></p>	<p><b>SketchyMedical</b>  <a href="http://www.SketchyMedical.com">www.SketchyMedical.com</a></p> <p>Video library of narrated lectures with thorough explanations that present microbiology, pharmacology, and pathology in a memorable style. Access to the entire gram-positive cocci chapter is free at signup. To access additional content, the site offers subscriptions for 6 month or 1 year.</p>	<p><b>\$150–\$370</b> Review</p>
<p><b>A<sup>-</sup></b></p>	<p><b>Cram Fighter</b>  <a href="http://www.cramfighter.com">www.cramfighter.com</a></p> <p>Helps organize a study schedule. Highly flexible with customizable settings. Supports more than 650 of the most popular books, video lectures, question banks, and flash cards. Mobile apps available for iOS and Android.</p>	<p><b>\$29–\$99</b> Study plan</p>
<p><b>A<sup>-</sup></b></p>	<p><b>First Aid Step 1 Flash Facts</b>  <a href="https://www.usmle-rx.com">https://www.usmle-rx.com</a></p> <p>Access to 10,000+ flash cards with intelligent spaced repetition integrated with <i>First Aid for the USMLE Step 1</i>, of which 3500+ are case-based. Updated each year to reflect the newest edition of the book; students can access 3 editions' worth of flash cards. Searchable by organ system, discipline, and topic.</p>	<p><b>\$29–\$149</b> Flash cards</p>

<b>A<sup>-</sup></b>	<p><b>Memorang</b> MEMORANG INC. <a href="http://www.memorangapp.com">www.memorangapp.com</a></p> <p>Platform utilizing spaced repetition, available both in website and app form. Utilizes custom and/or premade flash card “study sets” derived from 14,000 flash cards that focus on specific subject areas and are then tested via various games and quizzing methods. Free 7-day trial, or monthly/annual membership.</p>	<b>\$19–\$239</b> Flash cards
<b>B<sup>+</sup></b>	<p><b>Dr. Najeeb Lectures</b> <a href="http://www.drnajeeblectures.com">www.drnajeeblectures.com</a></p> <p>Hundreds of hours of video lectures covering basic medical sciences and clinical medicine with thousands of hand-drawn illustrations and mnemonics. Website provides mobile video support on smartphones and tablets. Free lectures accessible at <a href="http://www.drnajeeblectures.com/free-medical-videos.html">www.drnajeeblectures.com/free-medical-videos.html</a>.</p>	<b>\$99</b> Review
<b>B<sup>+</sup></b>	<p><b>Medical School Pathology</b> <a href="http://www.medicalschoolpathology.com">www.medicalschoolpathology.com</a></p> <p>Offers lectures and slides based on the Robbins <i>Pathology</i> textbook. Lectures can be downloaded.</p>	<b>Free</b> Review
<b>B<sup>+</sup></b>	<p><b>Osmosis</b> <a href="http://www.osmosis.org">www.osmosis.org</a></p> <p>Web platform that includes exam study scheduling tool; 27,000+ multiple choice questions and flashcards with intelligent spaced repetition; 3000+ curated concept cards with videos, memory anchors, and reference articles. Includes a curriculum analysis and search engine, collaboration features for study groups, and a mobile app with quizzes and videos.</p>	<b>\$39–\$599</b> Test
<b>B<sup>+</sup></b>	<p><b>USMLE Step 1 Mastery</b> <a href="http://usmle.usmlemastery.com">usmle.usmlemastery.com</a></p> <p>Question bank accessible through website or via free mobile app. Covers all USMLE topics and includes vignettes, images, and mnemonics. Question formatting is generally less representative of actual test questions compared with other widely used question banks. Mobile app contains supplemental flash cards for integrated learning.</p>	<b>\$50</b> Test/1400 q
<b>B<sup>+</sup></b>	<p><b>WebPath: The Internet Pathology Laboratory</b> <a href="http://library.med.utah.edu/WebPath/webpath.html">http://library.med.utah.edu/WebPath/webpath.html</a></p> <p>Features more than 2700 gross and microscopic images, clinical vignette questions, and case studies. Includes nine general pathology exams and 11 system-based pathology exams with approximately 1300 questions. Also features 170 questions associated with images. Questions are useful for reviewing boards content but are typically untimed, easier, and shorter. No multimedia practice questions. Not regularly updated with regards to high-yield Step 1 material.</p>	<b>Free</b> Review/ Test/1300 q

<b>B+</b>	<p><b><i>The Whole Brain Atlas</i></b> JOHNSON <a href="http://www.med.harvard.edu/aanlib/">www.med.harvard.edu/aanlib/</a></p>	<b>Free</b> Review
<b>B</b>	<p><b><i>Blue Histology</i></b> <a href="http://www.lab.anhb.uwa.edu.au/mb140">www.lab.anhb.uwa.edu.au/mb140</a></p>	<b>Free</b> Review/Test
<b>B</b>	<p><b><i>Digital Anatomist Project: Interactive Atlases</i></b> UNIVERSITY OF WASHINGTON <a href="http://www9.biostr.washington.edu/da.html">www9.biostr.washington.edu/da.html</a></p>	<b>Free</b> Review
<b>B</b>	<p><b><i>Firecracker</i></b> FIRECRACKER INC. <a href="http://www.firecracker.me">www.firecracker.me</a></p>	<b>\$40–\$660</b> Review/ Test/1500 q
<b>B</b>	<p><b><i>Picmonic</i></b> <a href="http://www.picmonic.com">www.picmonic.com</a></p>	<b>\$25–\$480</b> Review
<b>B</b>	<p><b><i>Radiopaedia.org</i></b> <a href="http://www.radiopaedia.org">www.radiopaedia.org</a></p>	<b>Free</b> Cases/Test

**B<sup>-</sup>*****The Pathology Guy***

FRIEDLANDER

[www.pathguy.com](http://www.pathguy.com)**Free** Review

Contains extensive but poorly organized information on a variety of fundamental concepts in pathology. A high-yield summary intended for USMLE review can be found at [www.pathguy.com/meltdown.txt](http://www.pathguy.com/meltdown.txt), but the information given is limited by a lack of images and frequent digressions.

## ▶ COMPREHENSIVE

<b>A<sup>-</sup></b>	<p><b><i>First Aid for the Basic Sciences: General Principles</i></b> LE McGraw-Hill, 2017, 528 pages, ISBN 9781259587016</p>	<b>\$60</b> Review
<p>Comprehensive review of the basic sciences covered in year 1 of medical school. Similar to the first part of <i>First Aid</i>, organized by discipline, and includes hundreds of full-color images and tables. Best if started with first-year coursework and then used as a reference during boards preparation.</p>		
<b>A<sup>-</sup></b>	<p><b><i>First Aid for the Basic Sciences: Organ Systems</i></b> LE McGraw-Hill, 2017, 912 pages, ISBN 9781259587030</p>	<b>\$84</b> Review
<p>A comprehensive review of the basic sciences covered in year 2 of medical school. Similar to the second part of <i>First Aid</i>, organized by organ system, and includes hundreds of full-color images and tables. Best if started with second-year coursework and then used as a reference during boards preparation. Each organ system contains discussion of embryology and anatomy, physiology, pathology, pharmacology, and a high-yield rapid review section.</p>		
<b>A<sup>-</sup></b>	<p><b><i>First Aid Cases for the USMLE Step 1</i></b> LE McGraw-Hill, 2012, 448 pages, ISBN 9780071743976</p>	<b>\$50</b> Cases
<p>A series of more than 400 high-yield cases divided into sections by organ system. Each case features a paragraph-long clinical vignette with relevant images, followed by questions and short, high-yield explanations. Offers coverage of many frequently tested concepts, and integrates subject matter in the discussion of a single vignette. Helpful in reviewing material outlined in <i>First Aid for the USMLE Step 1</i>.</p>		
<b>B<sup>+</sup></b>	<p><b><i>USMLE Step 1 Secrets in Color</i></b> BROWN Elsevier, 2016, 800 pages, ISBN 9780323396790</p>	<b>\$43</b> Review
<p>Clarifies difficult concepts in a concise, readable manner. Employs a case-based format and integrates information well. High-quality clinical images. Complements other boards study resources, with a focus on understanding preclinical fundamentals rather than on rote memorization. Slightly lengthy for last-minute studying.</p>		
<b>B<sup>+</sup></b>	<p><b><i>Step-Up to USMLE Step 1 2015</i></b> JENKINS Lippincott Williams &amp; Wilkins, 2014, 528 pages, ISBN 9781469894690</p>	<b>\$59</b> Review
<p>An organ system–based review text with clinical vignettes that is useful for integrating the basic sciences covered on Step 1. Composed primarily of outlines, charts, tables, and diagrams. Limited scope of material covered. Includes access to a sample online question bank.</p>		

<b>B+</b>	<p><b><i>USMLE Step 1 Lecture Notes 2018</i></b> KAPLAN Kaplan Medical, 2018, ~2700 pages, ISBN 9781506221229</p> <p>Extremely comprehensive review of Step 1 topics through videos and lecture notes. Split into individual sections covering Pathology, Pharmacology, Physiology, Biochemistry and Medical Genetics, Immunology and Microbiology. Generally utilized to fill gaps in understanding and to review unfamiliar topics that one has not come across and therefore the notes are commonly used by foreign medical graduates. Some sections are quite detailed and go beyond the scope of the Step 1 exam.</p>	<b>\$330</b>	Review
<b>B+</b>	<p><b><i>medEssentials for the USMLE Step 1</i></b> MANLEY Kaplan, 2012, 588 pages, ISBN 9781609780265</p> <p>A comprehensive review divided into general principles and organ systems, organized using high-yield tables and figures. Helpful for visual learners, but can be overly detailed and time consuming. Includes color images in the back along with a monthly subscription to online interactive exercises, although these are of limited value for Step 1 preparation. Comes with a free mobile version.</p>	<b>\$55</b>	Review
<b>B+</b>	<p><b><i>Crush Step 1: The Ultimate USMLE Step 1 Review</i></b> O'CONNELL Elsevier, 2017, 704 pages, 9780323481632</p> <p>Detailed, text-heavy review book with practice questions included. Coverage of many high-yield topics but includes outdated information due to lack of updated editions. Best if used with coursework, but also recommended as a supplemental reference for boards review. Limited student feedback.</p>	<b>\$45</b>	Review
<b>B+</b>	<p><b><i>Cracking the USMLE Step 1</i></b> PRINCETON REVIEW Princeton Review, 2013, 832 pages, ISBN 9780307945068</p> <p>Comprehensive review book with hundreds of illustrations, charts, and diagrams along with 2 full-length practice tests with detailed answer explanations available online. Limited student feedback.</p>	<b>\$45</b>	Review
<b>B+</b>	<p><b><i>USMLE Images for the Boards: A Comprehensive Image-Based Review</i></b> TULLY Elsevier, 2012, 296 pages, ISBN 9781455709038</p> <p>Contains more than 300 full-color medical images of content likely to be tested on the USMLE Step 1. Covers a wide variety of images including ECGs and radiological studies. Some images may be low yield for boards studying purposes, but still excellent as a supplement to preclinical courses.</p>	<b>\$43</b>	Review
<b>B-</b>	<p><b><i>USMLE Step 1 Made Ridiculously Simple</i></b> CARL MedMaster, 2017, 416 pages, ISBN 9781935660224</p> <p>Concise, succinct text. Online access to more than 1000 practice questions. Uses a table and chart format organized by subject, but some charts are poorly labeled. Consider as an adjunct to more comprehensive sources.</p>	<b>\$30</b>	Review/Test 1000 q

## ▶ ANATOMY, EMBRYOLOGY, AND NEUROSCIENCE

<b>A-</b>	<b><i>Clinical Anatomy Made Ridiculously Simple</i></b>	<b>\$30</b> Review
	GOLDBERG MedMaster, 2016, 175 pages, ISBN 9780940780972	
	An easy-to-read text offering simple diagrams along with numerous mnemonics, helpful charts, and amusing associations. The humorous style has variable appeal to students, so browse the content before purchasing. Offers good coverage of selected topics. Includes CD atlas of normal radiographic anatomy. Best if used during coursework. Includes more detail than typically tested on Step 1.	
<b>B+</b>	<b><i>BRS Embryology</i></b>	<b>\$54</b> Review/
	DUDEK Lippincott Williams & Wilkins, 2014, 336 pages, ISBN 9781451190380	Test/220 q
	An outline-based review of embryology that is typical of the BRS series. Offers a good review and includes much more detail than is required for Step 1. A discussion of congenital malformations is included at the end of each chapter, along with over 220 USMLE-style questions with answers and explanations. The comprehensive exam at the end of the book is high yield. Access to a searchable online text on the free companion website, which also features interactive quizzing.	
<b>B+</b>	<b><i>High-Yield Embryology</i></b>	<b>\$41</b> Review
	DUDEK Lippincott Williams & Wilkins, 2013, 176 pages, ISBN 9781451176100	
	A concise review of a relatively less-tested subject. Offers excellent organization with clinical correlations. Includes a high-yield list of embryologic tissue origins and USMLE-style case studies after each chapter. May not be suitable for dedicated Step 1 studying.	
<b>B+</b>	<b><i>High-Yield Gross Anatomy</i></b>	<b>\$41</b> Review
	DUDEK Lippincott Williams & Wilkins, 2014, 320 pages, ISBN 9781451190236	
	A good review of gross anatomy with some clinical correlations. Contains full-color clinical photos and well-labeled, high-yield radiographic images, but often goes into excessive detail that is beyond the scope of the boards.	
<b>B+</b>	<b><i>High-Yield Neuroanatomy</i></b>	<b>\$39</b> Review/
	FIX Lippincott Williams & Wilkins, 2015, 208 pages, ISBN 9781451193435	Test/50 q
	An easy-to-read, straightforward format with excellent diagrams and illustrations. Features a useful atlas of brain and spinal cord images, a glossary of important terms, an appendicized table of neurologic lesions. Overall, a great resource and quick read, but more detailed than what is required for Step 1.	
<b>B+</b>	<b><i>Anatomy—An Essential Textbook</i></b>	<b>\$50</b> Text/
	GILROY Thieme, 2017, 528 pages, ISBN 9781626234390	Test/400 q
	A thorough, visually appealing approach to learning anatomy. Contains over 650 colorful, helpful illustrations. Presents material in bullet-point format and tables. Includes over 160 clinical correlates and 400 USMLE-style questions, with the opportunity to complete practice questions online.	

<b>B+</b>	<p><b><i>Atlas of Anatomy</i></b> GILROY Thieme, 2016, 760 pages, ISBN 9781626232525</p> <p>A good atlas with more than 2200 high-quality, uncluttered illustrations. Includes clinical correlates and a brief introduction to new topics. Has over 170 tables summarizing key anatomic information. Radiographs, MRIs, CT scans, and endoscopic views of the organs also included. Best if used as a reference or supplement to coursework. Access to accompanying website with more than 500 illustrations, label on/off function, and timed self-tests also provided.</p>	<b>\$83</b> Text
<b>B+</b>	<p><b><i>Clinical Neuroanatomy Made Ridiculously Simple</i></b> GOLDBERG MedMaster, 2014, 90 pages + CD-ROM, ISBN 9781935660194</p> <p>An easy-to-read, memorable, and simplified format with clever diagrams. Offers a quick, high-yield review of clinical neuroanatomy, but does not serve as a comprehensive resource for boards review. Places appropriate emphasis on clinically relevant pathways, cranial nerves, and neurologic diseases. Includes a CD-ROM with CT and MR images, a tutorial on neurologic localization, and interactive quizzes covering classic neurology cases.</p>	<b>\$26</b> Review/Test/ Few q
<b>B+</b>	<p><b><i>Crash Course: Anatomy</i></b> STENHOUSE Elsevier, 2015, 288 pages, ISBN 9780723438540</p> <p>Part of the Crash Course review series for basic sciences, integrating clinical topics. Offers two-color illustrations, handy study tools, and Step 1 review questions. Contains an up-to-date self-assessment section. Provides a solid review of anatomy for Step 1. Best if started early.</p>	<b>\$45</b> Review
<b>B</b>	<p><b><i>Anatomy Flash Cards: Anatomy on the Go</i></b> GILROY Thieme, 2013, 565 flash cards, ISBN 9781604069105</p> <p>Flash card deck containing high-quality illustrations and a question/answer format that allows for self-testing. Occasional radiographic image. Best if used with coursework; too long for efficient boards preparation.</p>	<b>\$60</b> Flash cards
<b>B</b>	<p><b><i>Netter's Anatomy Flash Cards</i></b> HANSEN Saunders, 2018, 688 flash cards, ISBN 9780323530507</p> <p>Netter's illustrations in a question/answer column format that allows for self-testing. Each card includes commentary on the structures with a clinical correlation. More effective as a supplement to coursework, but much too detailed for boards preparation. Lack of embryology correlates limits Step 1 usefulness. Includes online access with additional bonus cards and more than 400 multiple choice questions. Note: an available iOS application has a similar cost and additional functionality.</p>	<b>\$40</b> Flash cards
<b>B</b>	<p><b><i>PreTest Neuroscience</i></b> SIEGEL McGraw-Hill, 2013, 412 pages, ISBN 9781259072352</p> <p>A high-yield introduction followed by 500 questions with detailed explanations. The question format has been improved to be more in-line with USMLE Step 1 questions. Contains images, of which majority are in full color.</p>	<b>\$39</b> Test/500 q

**B<sup>-</sup>*****Case Files: Anatomy***

TOY

McGraw-Hill, 2014, 416 pages, ISBN 9780071794862

Review text that includes 58 well-chosen cases with discussion, comprehension questions, and a box of take-home pearls. Tables are helpful, but schematics are black and white and not representative of Step 1. A reasonable book to work through for those who benefit from problem-based learning.

**\$35** Cases**B<sup>-</sup>*****Case Files: Neuroscience***

TOY

McGraw-Hill, 2014, 432 pages, ISBN 9780071790253

Similar to other *Case Files* books, it includes 49 clinical cases with lengthy discussion and 3–5 multiple choice questions at the end of each case. Cases are helpful, but the discussion is too lengthy. Questions are not the most representative of those seen on boards. Limited student feedback.

**\$35** Cases

## ▶ BEHAVIORAL SCIENCE

<b>A</b>	<p><b><i>BRS Behavioral Science</i></b> FADEM Lippincott Williams &amp; Wilkins, 2016, 384 pages, ISBN 9781496310477</p> <p>An easy-to-read outline-format review of behavioral science. Offers detailed coverage of essential topics, but at a level of depth that often exceeds what is tested on Step 1. Better used prior to dedicated study period. Incorporates tables and charts as well as a short but complete statistics chapter. Features more than 700 review questions, including a 100-question comprehensive exam. References DSM-V criteria.</p>	<b>\$52</b> Review/ Test/700 q
<b>A<sup>-</sup></b>	<p><b><i>High-Yield Biostatistics, Epidemiology, and Public Health</i></b> GLASER Lippincott Williams &amp; Wilkins, 2013, 168 pages, ISBN 9781451130171</p> <p>A well-written, easy-to-read text that offers extensive coverage of epidemiology and biostatistics. Includes helpful review questions and tables, but somewhat lengthy given the low-yield nature of this subject on Step 1.</p>	<b>\$43</b> Review
<b>B<sup>+</sup></b>	<p><b><i>High-Yield Behavioral Science</i></b> FADEM Lippincott Williams &amp; Wilkins, 2012, 144 pages, ISBN 9781451130300</p> <p>A concise yet comprehensive review of behavioral science for Step 1. Offers a logical presentation with charts, graphs, and tables, but lacks questions. Features brief but adequate coverage of statistics. Overall, a high-yield resource at low cost. References DSM-IV-TR criteria.</p>	<b>\$38</b> Review
<b>B<sup>+</sup></b>	<p><b><i>USMLE Medical Ethics</i></b> FISCHER Kaplan, 2012, 216 pages, ISBN 9781607149040</p> <p>Includes 100 vignettes, each followed by a single question with a detailed explanation. Also offers tips on how Step 1 requires test takers to think about ethics and medicolegal questions. Best suited as a reference for coursework given amount of detail covered.</p>	<b>Variable</b> Cases

## ▶ BIOCHEMISTRY

<b>B+</b>	<p><b><i>Lippincott Illustrated Reviews: Biochemistry</i></b>  <b>FERRIER</b>  Lippincott Williams &amp; Wilkins, 2017, 560 pages, ISBN 9781496344496</p> <p>An integrative and comprehensive review of biochemistry that includes good clinical correlations and effective color diagrams. Extremely detailed and requires significant time commitment, so it should be started with first-year coursework. High-yield summaries at the end of each chapter. Comes with access to the companion website, which includes over 200 USMLE-style questions.</p>	<b>\$78</b> Review/ Test/200 q
<b>B+</b>	<p><b><i>Medical Biochemistry—An Illustrated Review</i></b>  <b>PANINI</b>  Thieme, 2013, 441 pages, ISBN 9781604063165</p> <p>A comprehensive medical biochemistry study guide with an emphasis on images. Very detailed and may be better as a supplement to preclinical courses than as a review resource for the USMLE Step 1. Images and diagrams are helpful for solidifying knowledge. Online access available for additional content, including 400 USMLE-style practice questions.</p>	<b>\$40</b> Review/ Test/400 q
<b>B+</b>	<p><b><i>PreTest Biochemistry and Genetics</i></b>  <b>WILSON</b>  McGraw-Hill, 2017, 592 pages, ISBN 9780071791441</p> <p>500 questions with detailed, well-referenced explanations. Features a high-yield introduction and appendix, but may be overly detailed in some cases. A solid supplement to preclinical courses and board studying.</p>	<b>\$38</b> Test/500 q
<b>B</b>	<p><b><i>Lange Flash Cards Biochemistry and Genetics</i></b>  <b>BARON</b>  McGraw-Hill, 2017, 196 flash cards, ISBN 9781259837210</p> <p>Flash card deck featuring clinical vignettes on one side and concise discussions on the other. Each section contains 2–3 cards on biochemistry principles. High level of detail may make this less ideal for dedicated boards studying. Note that no carrying case for the cards is included.</p>	<b>\$40</b> Flash cards
<b>B</b>	<p><b><i>Jekel's Epidemiology, Biostatistics, Preventive Medicine, and Public Health</i></b>  <b>KATZ</b>  Saunders, 2013, 420 pages, ISBN 9781455706587</p> <p>A comprehensive review of the behavioral sciences to supplement preclinical coursework; may not be as helpful for boards studying. Strongest areas are biostatistics and epidemiology. Emphasis on being succinct and teaching to high-yield points. May not cover all material tested on the boards. In-book questions were removed, but may be accessible online.</p>	<b>\$60</b> Review/ Test/477 q

<b>B</b>	<p><b><i>BRS Biochemistry, Molecular Biology, and Genetics</i></b> LIEBERMAN Lippincott Williams &amp; Wilkins, 2013, 432 pages, ISBN 9781451175363</p> <p>A highly detailed review featuring many figures and clinical correlations highlighted in colored boxes. The biochemistry portion includes much more detail than required for Step 1, but may be useful for students without a strong biochemistry background or as a reference text. The molecular biology section is more focused and high yield. Also offers a chapter on laboratory techniques and a comprehensive, 120-question exam. Questions are clinically oriented. Limited student feedback.</p>	<b>\$54</b> Review/Test
<b>B</b>	<p><b><i>Case Files: Biochemistry</i></b> TOY McGraw-Hill, 2014, 480 pages, ISBN 9780071794886</p> <p>Includes 51 clinical cases with comprehensive discussion and summary box, albeit too much depth and not enough breadth for boards. Some cases will almost certainly <i>not</i> be tested. Questions at the end of each case are not representative of those on Step 1.</p>	<b>\$35</b> Cases

## ▶ CELL BIOLOGY AND HISTOLOGY

<b>B+</b>	<p><b><i>BRS Cell Biology and Histology</i></b> GARTNER Lippincott Williams &amp; Wilkins, 2018, 448 pages, ISBN 9781496396358</p>	<b>\$54</b> Review/ Test/320 q
<b>B+</b>	<p><b><i>Crash Course: Cell Biology and Genetics</i></b> STUBBS Elsevier, 2015, 216 pages, ISBN 9780723438762</p>	<b>\$47</b> Review/Print + online
<b>B</b>	<p><b><i>Elsevier's Integrated Review: Genetics</i></b> ADKISON Elsevier, 2011, 272 pages, ISBN 9780323074483</p>	<b>\$43</b> Review
<b>B-</b>	<p><b><i>Wheater's Functional Histology</i></b> YOUNG Elsevier, 2013, 464 pages, ISBN 9780702047473</p>	<b>\$83</b> Text

Covers concepts in cell biology and histology in an outline format. Can be used alone for cell biology study, but may have fewer histology images than some other resources. Includes more detail than is required for Step 1, and information is less high yield than that of other books in the BRS series. Interactive quizzes on the free companion website provide additional practice.

Part of the Crash Course review series for basic sciences, integrating clinical topics. Offers two-color illustrations, handy study tools, and Step 1 review questions. Includes online access. High level of detail makes this resource best suited for coursework.

Part of the Integrated series that seeks to link basic science concepts across disciplines. Case-based and Step 1-style questions at the end of each chapter allow readers to gauge their comprehension of the material. Includes online access. Best suited for coursework; too lengthy and comprehensive for quick review.

A color atlas with more than 900 high-quality illustrations of normal histology with image captions and accompanying text. Far too detailed to use for boards studying given the low-yield nature of the material, but useful as a coursework text or boards reference. Provides online access to the entire atlas and USMLE-style self-assessment questions.

## ▶ MICROBIOLOGY AND IMMUNOLOGY

<b>A<sup>-</sup></b>	<p><b><i>Basic Immunology</i></b>  <b>ABBAS</b>  Elsevier, 2015, 352 pages, ISBN 9780323390828</p> <p>A useful text that offers clear explanations of complex topics in immunology. Best if used during the year in conjunction with coursework and later skimmed for quick Step 1 review. Includes colorful diagrams, images, tables, and a lengthy glossary for further study. Features online access.</p>	<b>\$70</b> Review
<b>A<sup>-</sup></b>	<p><b><i>Medical Microbiology and Immunology Flash Cards</i></b>  <b>ROSENTHAL</b>  Elsevier, 2016, 192 flash cards, ISBN 9780323462242</p> <p>Flash cards covering the microorganisms most commonly found on Step 1. Each card features full-color microscopic images and clinical presentations on one side and relevant bug information in conjunction with a short case on the other side. Also includes Student Consult online access for extra features. Overemphasizes “trigger words” related to each bug. Not a comprehensive resource.</p>	<b>\$40</b> Flash cards
<b>B<sup>+</sup></b>	<p><b><i>Lippincott Illustrated Reviews: Immunology</i></b>  <b>DOAN</b>  Lippincott Williams &amp; Wilkins, 2012, 384 pages, ISBN 9781451109375</p> <p>A clearly written, highly detailed review of basic concepts in immunology. Features many useful tables and review questions at the end of each chapter. More than 300 color annotated illustrations. Offers abbreviated coverage of immune deficiencies and autoimmune disorders. Best if started with initial coursework and used as a reference during Step 1 study.</p>	<b>\$73</b> Reference/Test/ Few q
<b>B<sup>+</sup></b>	<p><b><i>Clinical Microbiology Made Ridiculously Simple</i></b>  <b>GLADWIN</b>  MedMaster, 2016, 400 pages, ISBN 9781935660156</p> <p>An excellent, easy-to-read, detailed review of microbiology that includes clever and memorable mnemonics. The sections on bacterial disease are most high yield, less emphasis placed on pharmacology. Recommended to read during coursework and review the concise charts at the end of each chapter during boards review. All images are cartoons; no microscopy images that appear on boards. Requires a supplemental source for immunology.</p>	<b>\$37</b> Review
<b>B<sup>+</sup></b>	<p><b><i>Microcards: Microbiology Flash Cards</i></b>  <b>HARPAVAT</b>  Lippincott Williams &amp; Wilkins, 2015, 312 flash cards, ISBN 9781451192353</p> <p>A well-organized and complete resource for students who like to use flash cards for review. Cards feature the clinical presentation, pathobiology, diagnosis, treatment, and high-yield facts for a particular organism. Some cards also include excellent flow charts organizing important classes of bacteria or viruses. Overall, a good review resource, but at times it is overly detailed, requiring a significant time commitment. Also useful as an aid with coursework. Includes access to online USMLE-style questions with answers.</p>	<b>\$53</b> Flash cards

<b>B+</b>	<p><b><i>How the Immune System Works</i></b> SOMPAYRAC Wiley-Blackwell, 2015, 152 pages, ISBN 9780470657294</p>	<b>\$45</b> Review
<p>A short overview of high-yield immunology designed for those with no prior immunology knowledge. Analogies and images create a “storybook” feel to spruce up a relatively dry subject. The fifteen chapters offer a general overview with good supporting details.</p>		
<b>B</b>	<p><b><i>Case Studies in Immunology: Clinical Companion</i></b> GEHA W. W. Norton &amp; Company, 2016, 384 pages, ISBN 9780815345121</p>	<b>\$62</b> Cases
<p>A text that was originally designed as a clinical companion to <i>Janeway’s Immunobiology</i>. Provides a great synopsis of the major disorders of immunity in a clinical vignette format. Integrates basic and clinical sciences. Features excellent images and illustrations from Janeway, as well as questions and discussions.</p>		
<b>B</b>	<p><b><i>Lippincott Illustrated Reviews: Microbiology</i></b> HARVEY Lippincott Williams &amp; Wilkins, 2012, 448 pages, ISBN 9781608317332</p>	<b>\$73</b> Review/Test/ Few q
<p>A comprehensive, highly illustrated review of microbiology that is similar in style to other titles in the Illustrated Reviews series. Has more than 400 color illustrations and color-coded summaries to help visual learners. Compare with Levinson’s <i>Review of Medical Microbiology and Immunology</i>.</p>		
<b>B</b>	<p><b><i>Pretest: Microbiology</i></b> KETTERING McGraw-Hill, 2013, 480 pages, ISBN 9780071791045</p>	<b>\$38</b> Test/500 q
<p>Includes a short section on high-yield facts followed by 500 questions in a clinical vignette format. Questions are more difficult than encountered on the boards and some topics discussed are not likely to be tested. A good book to work through with coursework but too low yield for review purposes.</p>		
<b>B</b>	<p><b><i>Review of Medical Microbiology and Immunology</i></b> LEVINSON McGraw-Hill, 2018, 832 pages, ISBN 9781259644498</p>	<b>\$63</b> Review/ Test/654 q
<p>A clear, comprehensive text with outstanding diagrams and tables. Includes an excellent immunology section. Contains a chapter summarizing details on medically important organisms. Can be used as reference for reviewing immunology concepts. Can be detailed and dense at points, so best if started early with coursework. Includes practice questions of mixed quality and does not provide detailed explanation of answers. Compare with <i>Lippincott Illustrated Reviews: Microbiology</i>.</p>		
<b>B</b>	<p><b><i>Case Files: Microbiology</i></b> TOY McGraw-Hill, 2014, 416 pages, ISBN 9780071820233</p>	<b>\$36</b> Cases
<p>Provides 54 clinical microbiology cases followed by a clinical correlation, a discussion with boldfaced buzzwords, and questions. Cases are well chosen, but the text lacks the high-yield charts and tables found in other books in the Case Files series. Images are sparse, black-and-white, and of poor quality.</p>		

## ▶ PATHOLOGY

<b>A+</b>	<p><b><i>Pathoma: Fundamentals of Pathology</i></b> SATTAR Pathoma, 2018, 223 pages, ISBN 9780983224631</p> <p>Integrated approach to pathology review, combining a focused textbook with 35+ hours of online lectures. Lectures combine “chalk talk” and slide formats to explain pathogenesis in an easy-to-understand manner. More than 350 color images. Online subscription needed for full access.</p>	<b>\$85–\$120</b> Review/Lecture
<b>A–</b>	<p><b><i>Lange Pathology Flash Cards</i></b> BARON McGraw-Hill, 2013, 300 flash cards, ISBN 9780071793568</p> <p>Flash cards with clinical vignette on one side and discussion including etiology, pathology, clinical manifestations, and treatment on the other. Good tables to help organize diseases, but lack of images limits its utility. Best if used in conjunction with another resource. Printed on thinner paper than the <i>Biochemistry &amp; Genetics</i> component of the series, reducing durability.</p>	<b>\$41</b> Flash cards
<b>A–</b>	<p><b><i>Rapid Review: Pathology</i></b> GOLJAN Elsevier, 2018, 864 pages, ISBN 9780323476683</p> <p>A comprehensive source for key concepts in pathology, presented in a bulleted outline format with many high-yield tables and color figures. Features detailed explanations of disease mechanisms. Integrates concepts across disciplines with a strong clinical orientation. Lengthy, so best if started early with coursework. Includes access to online question bank with more than 500 questions. Covers material for both Step 1 and Step 2 exams.</p>	<b>\$65</b> Review/ Test/500 q
<b>A–</b>	<p><b><i>Crash Course: Pathology</i></b> XIU Elsevier, 2015, 356 pages, ISBN 9780723438557</p> <p>Part of the Crash Course review series for basic sciences, integrating clinical topics. Offers two-color illustrations, handy study tools, and Step 1 review questions. Includes online access. Best if started during coursework.</p>	<b>\$45</b> Review
<b>B+</b>	<p><b><i>Robbins and Cotran Review of Pathology</i></b> KLATT Elsevier, 2014, 504 pages, ISBN 9781455751556</p> <p>A question book that follows the main Robbins textbooks. Questions are more detailed, difficult, and arcane than those on the actual Step 1 exam, but the text offers a great review of pathology integrated with more than 1100 images. Thorough answer explanations reinforce key points. Requires significant time commitment, so best if started with coursework. 2014 edition table of contents more closely follows the organization of <i>Robbins and Cotran Pathologic Basis of Disease</i>, 8th edition.</p>	<b>\$55</b> Test/1100 q

<b>B+</b>	<p><b><i>BRS Pathology</i></b> SCHNEIDER Lippincott Williams &amp; Wilkins, 2013, 480 pages, ISBN 9781451115871</p>	<b>\$54</b> Review/ Test/450 q
<p>An excellent, concise review with appropriate content emphasis. Chapters are organized by organ system and feature an outline format with boldfacing of key facts. Includes good questions with explanations at the end of each chapter plus a comprehensive exam at the end of the book. Offers well-organized tables and diagrams as well as photographs representative of classic pathology. Contains a chapter on laboratory testing and “key associations” with each disease. Contains excellent color images and access to an online test and interactive question bank. Most effective if started early in conjunction with coursework, as it does not discuss detailed mechanisms of disease pathology.</p>		
<b>B</b>	<p><b><i>High-Yield Histopathology</i></b> DUDEK Lippincott Williams &amp; Wilkins, 2017, 320 pages, ISBN 9781496353344</p>	<b>\$36</b> Review
<p>Reviews the relationship of basic histology to the pathology, physiology, and pharmacology of clinical conditions that are tested on Step 1. Includes case studies, numerous light and electron micrographs, and pathology photographs. Given its considerable length, should be started with coursework or used as a reference to better identify images.</p>		
<b>B</b>	<p><b><i>Pathophysiology of Disease: Introduction to Clinical Medicine</i></b> HAMMER McGraw-Hill, 2018, 832 pages, ISBN 9781260026504</p>	<b>\$90</b> Text
<p>An interdisciplinary text useful for understanding the pathophysiology of clinical symptoms. Effectively integrates the basic sciences with mechanisms of disease. Features great graphs, diagrams, and tables. In view of its length, most useful if started during coursework. Includes 120 case studies, checkpoint questions that appear in every chapter, and a few non-boards-style questions. The text’s clinical emphasis nicely complements <i>BRS Pathology</i>.</p>		
<b>B</b>	<p><b><i>Haematology at a Glance</i></b> MEHTA Blackwell Science, 2014, 136 pages, ISBN 9781119969228</p>	<b>\$49</b> Review
<p>A resource that covers common hematologic issues. Includes color illustrations. Presented in a logical sequence that is easy to read. Good for use with coursework.</p>		
<b>B-</b>	<p><b><i>Pocket Companion to Robbins and Cotran Pathologic Basis of Disease</i></b> MITCHELL Elsevier, 2016, 896 pages, ISBN 9781455754168</p>	<b>\$40</b> Review
<p>A condensed version of Robbins Pathology that is good for reviewing keywords associated with most important diseases. Presented in a highly condensed format, but the text is complete and easy to understand. Contains no photographs or illustrations but does include tables. Useful as a quick reference.</p>		

## ▶ PHARMACOLOGY

<b>A<sup>-</sup></b>	<p><b><i>Lippincott Illustrated Reviews: Pharmacology</i></b>  <b>WHALEN</b>            Lippincott Williams &amp; Wilkins, 2018, 576 pages, ISBN 9781496384133</p>	<b>\$75</b> Review/ Test/380 q
<p>A resource presented in outline format with practice questions, many excellent illustrations, and comparison tables. Effectively integrates pharmacology and pathophysiology. Best started with coursework, as it is highly detailed and requires significant time commitment.</p>		
<b>B<sup>+</sup></b>	<p><b><i>Lange Pharmacology Flash Cards</i></b>  <b>BARON</b>            McGraw-Hill, 2017, 266 flash cards, ISBN 9781259837241</p>	<b>\$39</b> Flash cards
<p>A total of 230 pocket-sized flash cards of relevant drugs formatted with clinical vignettes on one side and relevant information on the other side (eg, mode of action, adverse effects, clinical uses). Particularly high-yield information is highlighted in bold. Mainly used as a supplement for pharmacology knowledge, rather than as a primary resource. Printed on less durable material.</p>		
<b>B<sup>+</sup></b>	<p><b><i>Crash Course: Pharmacology</i></b>  <b>BATTISTA</b>            Elsevier, 2015, 236 pages, ISBN 9780723438519</p>	<b>\$45</b> Review
<p>Part of the Crash Course review series for basic sciences, integrating clinical topics. Offers two-color illustrations, handy study tools, and Step 1–style review questions with a self-assessment section. Includes online access. Gives a solid, easy-to-follow overview of pharmacology.</p>		
<b>B<sup>+</sup></b>	<p><b><i>Pharmacology Flash Cards</i></b>  <b>BRENNER</b>            Elsevier, 2017, 230 flash cards, ISBN 9780323355643</p>	<b>\$45</b> Flash cards
<p>Flash cards for more than 200 of the most commonly tested drugs. Cards include the name of the drug (both generic and brand) on the front and basic drug information on the back, with occasional cards covering high-yield pharmacology pathways. Divided and color coded by class, and comes with a compact carrying case. Lacks figures and clinical vignettes.</p>		
<b>B<sup>+</sup></b>	<p><b><i>Master the Boards USMLE Step 1 Pharmacology Flashcards</i></b>  <b>FISCHER</b>            Kaplan, 2015, 200 flash cards, ISBN 9781618657947</p>	<b>\$55</b> Flash cards
<p>Easy-to-read flash cards with drug and questions on one side and discussion on the other. Useful for a quick pharmacology review. Some drugs/material may be beyond the scope of the Step 1, or more appropriate at the Step 2 level.</p>		
<b>B<sup>+</sup></b>	<p><b><i>BRS Pharmacology</i></b>  <b>ROSENFELD</b>            Lippincott Williams &amp; Wilkins, 2013, 384 pages, ISBN 9781451175356</p>	<b>\$54</b> Review/ Test/200 q
<p>Features two-color tables and figures that summarize essential information for quick recall. A list of drugs organized by drug family is included in each chapter. Too detailed for boards review; best used as a reference. Also offers end-of-chapter review tests with Step 1–style questions and a comprehensive exam with explanations of answers. An additional question bank is available online.</p>		

<b>B+</b>	<b><i>Case Files: Pharmacology</i></b> TOY McGraw-Hill, 2013, 464 pages, ISBN 9780071790239	<b>\$35</b> Cases
<p>Includes 56 cases with detailed discussion, comprehension questions, and a box of clinical pearls. An appealing text for students who prefer problem-based learning, but lacks the level of detail typically tested on Step 1.</p>		
<b>B+</b>	<b><i>Katzung &amp; Trevor's Pharmacology: Examination and Board Review</i></b> TREVOR McGraw-Hill, 2018, 592 pages, ISBN 9781259641022	<b>\$54</b> Review/ Test/800 q
<p>A well-organized text with concise explanations. Features good charts and tables; the crammable list in Appendix I is especially high yield for Step 1 review. Also good for drug interactions and toxicities. Offers two 100-question practice exams. Text includes many low-yield/obscure drugs. Compare with <i>Lippincott Illustrated Reviews: Pharmacology</i>, both of which are better suited to complementing coursework than last-minute studying for boards.</p>		
<b>B</b>	<b><i>PreTest Pharmacology</i></b> SHLAFFER McGraw-Hill, 2013, 624 pages, ISBN 9780071791465	<b>\$38</b> Test/500 q
<p>Good questions divided into sections by organ system and accompanied by detailed, comprehensive answers. Many questions have been rewritten to be more in line with the USMLE Step 1 question format. Others build graph-reading skills and multistep reasoning skills. Sections on general principles and autonomies are especially useful. This is a great resource for anyone looking for additional practice questions.</p>		

## ▶ PHYSIOLOGY

<b>A<sup>-</sup></b>	<p><b><i>BRS Physiology</i></b> COSTANZO Lippincott Williams &amp; Wilkins, 2018, 304 pages, ISBN 9781496367617</p>	<b>\$54</b> Review/ Test/350 q
<p>A clear, concise review of physiology that is both comprehensive and efficient, making for fast, easy reading. Includes excellent high-yield charts and tables, but lacks some figures from Costanzo's <i>Physiology</i>. Features high-quality practice questions with explanations in each chapter along with a clinically oriented final exam. An excellent reference during times of focused Step 1 studying, but best if started early in combination with coursework. Respiratory and acid-base sections are comparatively weak.</p>		
<b>A<sup>-</sup></b>	<p><b><i>Physiology</i></b> COSTANZO Saunders, 2017, 528 pages, ISBN 9780323478816</p>	<b>\$60</b> Text
<p>A comprehensive, clearly written text that covers concepts outlined in <i>BRS Physiology</i> in greater detail. Offers excellent color diagrams and charts. Each systems-based chapter features a detailed summary of objectives and a Step 1–relevant clinical case. Includes access to online interactive extras. Requires time commitment, but helps develop a strong foundation in physiology concepts. Recommended to start resource with coursework. Practice questions at end of each chapter.</p>		
<b>A<sup>-</sup></b>	<p><b><i>Color Atlas of Physiology</i></b> SILBERNAGL Thieme, 2015, 472 pages, ISBN 9783135450070</p>	<b>\$50</b> Review
<p>Contains more than 180 high-quality illustrations of disturbed physiologic processes that lead to dysfunction. An alternative to standard texts, but not high yield for boards review.</p>		
<b>B<sup>+</sup></b>	<p><b><i>BRS Physiology Cases and Problems</i></b> COSTANZO Lippincott Williams &amp; Wilkins, 2012, 368 pages, ISBN 9781451120615</p>	<b>\$56</b> Cases
<p>Presents 62 classic cases in vignette format with several questions per case. Includes exceptionally detailed explanation of answers along with supplemental diagrams. For students interested in an in-depth discussion of physiology concepts.</p>		
<b>B<sup>+</sup></b>	<p><b><i>Pathophysiology of Heart Disease</i></b> LILLY Lippincott Williams &amp; Williams, 2015, 480 pages, ISBN 9781451192759</p>	<b>\$56</b> Review
<p>Great resource that outlines an in-depth explanation of both cardiac physiology and pathology. Best utilized as a supplement when learning the material for the first time, as it helps build a strong foundation. Because the book itself is rather dense, would not recommend as a primary resource during focused boards studying period.</p>		
<b>B<sup>+</sup></b>	<p><b><i>PreTest Physiology</i></b> METTING McGraw-Hill, 2013, 528 pages, ISBN 9780071791427</p>	<b>\$38</b> Test/500 q
<p>Contains questions with detailed, well-written explanations. One of the best of the PreTest series. Best for use by the motivated student after extensive review of other sources. Includes a high-yield facts section with useful diagrams and tables.</p>		

<b>B+</b>	<b><i>Acid-Base, Fluids, and Electrolytes Made Ridiculously Simple</i></b>	<b>\$24</b> Review
	PRESTON MedMaster, 2017, 166 pages, ISBN 9781935660293	
	A resource that covers major acid-base and renal physiology concepts. Provides information beyond the scope of Step 1, but remains a useful companion for studying kidney function, electrolyte disturbances, and fluid management. Includes scattered diagrams and questions at the end of each chapter. Consider using after exhausting more high-yield physiology review resources.	
<b>B+</b>	<b><i>Pulmonary Pathophysiology: The Essentials</i></b>	<b>\$55</b> Review/ Test/75 q
	WEST Lippincott Williams & Wilkins, 2017, 264 pages, ISBN 9781496339447	
	A volume offering comprehensive coverage of respiratory physiology. Clearly organized with useful charts and diagrams. Review questions at the end of each chapter have letter answers only and no explanations. Best used as a course supplement during the second year, less ideal for use immediately prior to Step 1.	
<b>B</b>	<b><i>Rapid Review: Physiology</i></b>	<b>\$43</b> Test/350 q
	BROWN Elsevier, 2011, 288 pages, ISBN 9780323072601	
	A resource that offers a good review of physiology in a format typical of the Rapid Review series, albeit with more images. Includes online access to 350 questions with concise explanations, along with other extras. Compare with Robbins <i>Physiology</i> .	
<b>B</b>	<b><i>Vander's Renal Physiology</i></b>	<b>\$47</b> Text
	EATON McGraw-Hill, 2018, 224 pages, ISBN 9781260019377	
	Well-written text on renal physiology, with helpful but sparse diagrams and practice questions at the end of each chapter. Too detailed for Step 1 review, however. Best if used with organ-based coursework to understand the principles of renal physiology.	
<b>B</b>	<b><i>Endocrine Physiology</i></b>	<b>\$59</b> Review
	MOLINA McGraw-Hill, 2018, 320 pages, ISBN 9781260019353	
	Questions at the end of each chapter are helpful to work through to solidify knowledge, but some are not representative of Step 1 questions. Provides more detailed explanations of endocrine physiology than Costanzo offers but much too lengthy for Step 1 review. May be useful as a coursework adjunct.	
<b>B-</b>	<b><i>Netter's Physiology Flash Cards</i></b>	<b>\$40</b> Flash cards
	MULRONEY Saunders, 2015, 225 flash cards, ISBN 9780323359542	
	Flash cards contain a high-quality illustration on one side with question and commentary on the other. Good for self-testing, but too fragmented for learning purposes and not comprehensive enough for boards.	