

**2019 First Aid for the USMLE Step 1
Corrections and Clarifications
March 1, 2019**

Despite our best efforts, errors do occur during the revision process. This list primarily addresses direct content errors that may create confusion. We also have listed selected clarifications. Please be aware, however, that this list does not represent the entire scope of additions, improvements, and clarifications expected in the 2020 edition.

Red signifies specific text to be deleted.

Green signifies specific text to be added.

We check every potential errata submission against your reference(s), authoritative references, and expert faculty to maximize clarity and accuracy. Please note that our goal is to provide a high-yield framework for optimal exam preparation and not a comprehensive textbook. If you were the first individual to submit a referenced correction or clarification to us at www.firstaidteam.com that appears in the errata or in the next edition of the book, you will receive a gift certificate in appreciation. Good luck with your studies!

– The First Aid/USMLE-Rx Team

CATEGORIES OF UPDATES

Major Corrections	Factual errors that could interfere with comprehension
Minor Corrections	Less significant errors that may cause confusion
Clarifications	The text is accurate but could be written more clearly, or minor formatting issues (misalignments, indents, etc) that may confuse

MAJOR CORRECTIONS

Page	Fact Name	Revision
86	Glycogen	In the hepatocytes row, replace "'Limit dextrin' refers to the one to four residues..." with "'Limit dextrin' refers to the two to four residues..."
105	Immunoglobulin isotypes	In the IgG row, replace "that starts to wane after 6 months of age)" with "that starts to wane after birth)"
132	Bacteria with exotoxins	In the <i>Bordetella pertussis</i> row, replace the text in the Mechanism column " Overactivates adenylate cyclase (↑ cAMP) by disabling G_i, impairing phagocytosis to permit survival of microbe " with " Inactivates inhibitory G subunit (G_i) → activation of adenylate cyclase → ↑ cAMP "
246	Selected seafood toxins	In the tetrodotoxin row, in the action column, delete " cardiac "; the phrase will read "...binds fast voltage-gated Na ⁺ channels in nerve tissue..."

311	Vasculitides	<p>In column 3 of the immunoglobulin A vasculitis row, change “Associated with IgA nephropathy (Buerger disease)” with “Associated with IgA nephropathy (Berger disease)”</p> <p>In column 3 of the mixed cryoglobulinemia row, replace “Vasculitis due to mixed IgG and IgA immune complex deposition” with “Vasculitis due to mixed IgG and IgM immune complex deposition”</p>
457	Primary bone tumors	<p>In column 4 of the Ewing sarcoma row, replace "Anaplastic small blue cells of neuroectodermal origin" with "Anaplastic small blue cells of mesenchymal origin"</p>
535	Parkinson disease drugs	<p>In the second bullet of the prevent dopamine breakdown row, replace “Entacapone” with “Tolcapone”</p>
594	Loop diuretics	<p>For furosemide, bumetanide, torsemide, in the mechanism row, replace “Stimulate PGE release” with “Associated with increased PGE”</p>
636	Breast cancer	<p>In the invasive ductal row, “Subtypes: tubular—well-differentiated tubules that lack myoepithelium; mucinous—abundant extracellular mucin, seen in older women” refers to all invasive carcinomas, not only invasive ductal carcinoma</p>
652	Cyanide vs carbon monoxide poisoning	<p>In column 3 of the effect on oxygen-hemoglobin dissociation curve row, replace “↓ oxygen-binding capacity with left shift in curve, ↓ O₂ unloading in tissues” with “↑ oxygen-binding capacity with left shift in curve, ↓ O₂ unloading in tissues”</p>
731-791	Index	<p>Due to an unfortunate publisher/production folio issue, most index entries related to the Cardiovascular chapter (pp 277-320) are incorrectly shifted forward by 4-7 pages. This affects about 4% of the index, and errors occur between pp 731-791. The publisher and production teams are very sorry for the error and inconvenience.</p> <p>Depending on what works best for your study needs, we offer the following solutions:</p> <ul style="list-style-type: none"> • Add a note to your book’s index to manually adjust Cardiovascular chapter entries (entries referring to pp 277-320) between 4-7 pages backward (subtract 4-7 pages from the index entry). The number of pages is not exact but you will be within range. • Go to www.firstaidteam.com for a clean, corrected version of the index as a PDF. Use the electronic PDF to replace your usage of the index in the back of your book. • You can also print out the corrected index and use it to replace the original index. This works especially well if you have converted your book to a 3-ring binder. • Go to www.firstaidteam.com for a tracked-changes version of the corrected index with all updates marked. You can mark up your copy with this PDF. This manual markup may take 1-2 hours to complete.

MINOR CORRECTIONS

Page	Fact Name	Revision
114	Blood transfusion reactions	In the allergic/anaphylactic reaction row, remove “fever” from the list under Clinical Presentation
138	Clostridia	In the <i>C difficile</i> row, replace “Produces 2 toxins. Toxin A, an enterotoxin, binds to brush border of gut and alters fluid secretion. Toxin B, a cytotoxin, disrupts cytoskeleton via actin depolymerization.” with “Produces toxins A and B, which damage enterocytes.”
140	Mycobacteria	In the first sentence, delete “Gram (+)” so it reads “Acid-fast rods.”
153	Opportunistic fungal infections	Change the treatment for <i>Candida albicans</i> to read “Treatment: oral fluconazole/topical azole for vaginal; nystatin, azoles or, rarely, echinocandins for oral; fluconazole, echinocandins, or amphotericin B for esophageal/systemic.”
201	Antiviral therapy	In the upper left corner, replace “FUSION” with “ENTRY”
203	HIV therapy	In the last blue banner, replace “Fusion” with “Entry”
234	Receptor binding	In the noncompetitive antagonist row, in the efficacy column, replace “↓” with “No change”
278	Heart morphogenesis	In the cardiac looping row, replace “begins in week 4 of gestation” with “begins in week 4 of development”
282	Cardiac output variables	In column 2 of the afterload row, replace “LV compensates for ↑ afterload by thickening (hypertrophy) in order to ↓ wall tension” with “LV compensates for ↑ afterload by thickening (hypertrophy) in order to ↓ wall stress”
291	Electrocardiogram	In the last 2 lines of column 2, replace “Speed of conduction: Purkinje > atria > ventricles > bundle of His > AV node” with “Speed of conduction: Purkinje > bundle of His > atria > ventricles > AV node”
322	Thyroid development	Delete the last sentence “Thyroid follicular cells and parafollicular cells (aka, C cells, produce calcitonin) are derived from endoderm”
416	Interpretation of iron studies	In the table, change the ↓ arrow for serum iron, iron deficiency from red to black, and change the ↓ arrow for ferritin, iron deficiency from black to red
417	Heme synthesis, porphyrias, and lead poisoning	In column 2 of the porphyria cutanea tarda row, delete “(autosomal dominant mutation)”
475	Aspirin	In the adverse effects row, replace “tinnitus (CN VII)” with “tinnitus (CN VIII)”
553	Cluster A personality disorders	The first row of this fact is missing, please add: Column 1: Paranoid

		Column 2 Pervasive distrust (Accusatory) and suspiciousness of others and a profoundly cynical view of the world
623	Tanner stages of sexual development	In the illustration, “mound forms” should appear in Stage II, not in Stage III
654	Pulmonary circulation	In the second bullet, replace “T ↑ in pulmonary fibrosis” with “ $\Delta x \uparrow$ in pulmonary fibrosis”

CLARIFICATIONS

Page	Fact Name	Revision
144	Lactose-fermenting enteric bacteria	After <i>Citrobacter</i> , add “(weak fermenter)”
159	Nematodes (roundworms)	In the <i>Toxocara canis</i> row, replace “Often affects heart (myocarditis), liver, eyes (visual impairment, blindness), and CNS (seizures, coma)” with “Most patients asymptomatic. Can affect lung, liver, eyes”
197	Ethambutol	In the adverse events row, replace “may be reversible” with “usually reversible”
199	Amphotericin B	In the clinical use row, replace “Intrathecally for fungal meningitis” with “Intrathecally for coccidioidal meningitis”
200	Anti-mite/lice therapy	In columns 2 and 3, delete “lindane,” add “topical +/- oral ivermectin”; remove mnemonic from column 3
337	Hypothyroidism vs hyperthyroidism	In column 3 of the ocular row, replace “(↑ sympathetic stimulation of levator palpebrae superioris)” with “(↑ sympathetic stimulation of levator palpebrae superioris and Müller’s muscle)”
364	Hernias	In column 2 of indirect inguinal hernia, replace “Goes through the internal (deep) inguinal ring, external (superficial) inguinal ring, and into the scrotum” with “Goes through the internal (deep) inguinal ring, external (superficial) inguinal ring, and into the groin”; this clarification is to include both genders.