

First Aid for the Basic Sciences: General Principles, 3rd edition
Official Errata: Corrections and Clarifications
January 15, 2018

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 made in the 3rd edition.

We check every 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

Page	Section	Revision
5	Clinical Correlation (top of page)	In the first sentence, replace “Chédiak-Higashi disease, resulting from abnormal microtubular assembly, leads to” with “Chédiak-Higashi disease, resulting from abnormal lysosomal trafficking, leads to....”
5	Microtubules and Cilia	In the third sentence of the first paragraph, delete the second “of” so that sentence reads, “They combine to form cylindrical polymers of 24 nm in diameter....”
27	Figure 1-34	Directly below Phenylalanine, replace “Tyrosine” with “Tyrosine hydroxylase.”
37	Gout	In the first sentence of the Diagnosis paragraph correct the spelling so that the sentence reads, “...negatively birefringent crystals....”
37	Flash Forward (bottom of page)	Replace “ <i>Pneumocystis carinii</i> ” with “ <i>Pneumocystis jiroveci</i> .”
38	DNA Synthesis	In the third bullet, replace “from N ⁵ ,N ¹⁰ -methylene tetrahydrofolate (FH ₄) to dUDP” with “from N ⁵ ,N ¹⁰ -methylene tetrahydrofolate (FH ₄) to dUMP”
51	Point Mutations	In the second bullet, replace “(TAA, TAG, or TGA)” with “(UAA,UAG or UGA).”
54	Alkylating Agents	In the eleventh sentence of the second paragraph, replace “It was the first intravesicular agent” with “It was the first intravesical agent....”
67	Table 2-14	In the Indicates column of the first row, replace “Low k ₁ or k ₂ or High k ₋₁ ” with “Low k ₋₁ or k ₂ or High k ₁ .”
71	Cellular Organelles and Function	In the first sentence of the first paragraph, replace “(Figure 2-28)” with “(Figure 2-29).”

74	Key Fact (top of page)	Delete the current text and replace with, "GLUT 1 is an insulin independent transport protein found in the heart and blood brain barrier. Its function is to facilitate glucose diffusion from outside a cell to inside a cell."
85	Figure 2-41	Replace "Triosephate Isomerase" with "Triose phosphate isomerase."
88	Products	In the last sentence, replace "yields 12 ATP molecules" with "yields 10 ATP molecules."
92	Regulation	In the last bullet, replace "G6P converts glucose-6-phosphatase → glucose" with "Glucose-6-phosphatase converts G6P → Glucose."
120	Vitamin B6—Pyridoxine	In the second sentence of the second paragraph, replace "Decreased concentrations of vitamin B6 deficiency may...." with "Decreased concentrations of vitamin B6 may...."
123	Biotin (Vitamin B7)	In the fifth sentence, replace "(by propionyl-CoA carboxylase, in synthesis of odd-chain fatty acids)" with "(by propionyl-CoA carboxylase, in catabolism of odd-chain fatty acids)." In the last sentence, replace "A congenital defect of propionyl-CoA decarboxylase...." with "A congenital defect of propionyl-CoA carboxylase...."
149	Dysbetalipoproteinemia	In the fourth bullet, replace "whereas type II" with "whereas type I."
158	Figure 2-110	In the bottom-left of the figure, below TXA ₂ , replace the two down arrows with up arrows so that the entries read as follows: ↑ Platelet aggregation ↑ Vascular tone
158	Eicosanoids	In the third sentence of the last paragraph, replace "For example, TXA ₃ , a thromboxane that prevents platelet aggregation, is a derivative" with "For example, TXA ₃ , a thromboxane that constricts blood vessels, is a derivative...."
265	<i>Shigella</i> Species Characteristics	In the first bullet, delete "but are able to produce H ₂ S gas" so that sentence reads, "Nonmotile, gram-negative rod-shaped organisms that do not ferment lactose."
266	<i>Salmonella</i> Species Characteristics	In the first bullet, delete "produce H ₂ S gas" so that sentence reads, " <i>Salmonella</i> species are motile, gram-negative rods that like <i>Shigella</i> do not ferment lactose." In the first demoted bullet, delete the sentence, " <i>S typhi</i> is the only <i>Salmonella</i> species that does not produce H ₂ S."
318	Replication of RNA Viruses	In the second sentence of the first paragraph, replace "RNA viruses encode for their own RNA-dependent DNA polymerases" with "RNA viruses encode for their own RNA-dependent RNA polymerases...."
330	Mnemonic	Replace "Scare" with "scare" and delete "Scarlet fever."