

# OpenStax Anatomy and Physiology 2e

## Transition Guide

OpenStax only undertakes revisions when they are necessary. In this case, our adopters and other faculty advisors indicated that the amount of changes, errata fixes, link updates, and other minor adjustments indicated that the formal revision was needed. This revision includes substantial edits undertaken specifically for the second edition, and also represents a unification of errata and updates made over the previous years.

We are aware that shifting sections and question numbers can lead to difficulty in the revision transition process, so this revision was undertaken with no changes in chapter/section arrangements, learning outcome numbers, or question numbers. (Note that many questions were improved, but in a manner that preserved the numbering.) As a result, usage of homework systems and even generalized course schedules should be minimally affected.

Note that the first edition remains available for use. Faculty who prefer to use or adapt material from those editions still have the option to do so.

The table below includes the major content updates for the textbook, most of which involve more accurate and inclusive explanations. We also have made several hundred edits involving verbiage related to health, illnesses/disorders, gender, race, ethnicity, age, and related terminology. In most cases, particularly when they involve only a single or a few words, those edits are not noted in the detailed table below. Likewise, a number of illustrations and photos (as well as their respective captions/credits) have been changed, but the table only notes those where labels or related content within the graphics have also been changed.

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| Section 1.2            | Added clarifying paragraph regarding sex and gender.   |
| Sections 17.3 and 17.8 | Improved terminology to eliminate gender associations with hormones (e.g FSH), and specified secondary sex characteristics resulting from estrogens, progesterone, and testosterone.                 |
| Section 18.6           | Table 18.2 (blood types) categories and data replaced for currency and accuracy.<br><br>Improved terminology in discussion of inheritance related to Rh factor and hemolytic disease of the newborn. |

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| Section 19.4 | Feature on Broken Heart Syndrome: Updated source and named contributors. Added more comprehensive information regarding length of relationship and impact on condition.  |
| Section 21.7 | Improved terminology in discussion of inheritance related to Rh factor and hemolytic disease of the newborn.   |
| Section 27.1 | <p>Significant revision to initial paragraphs, including the addition of clarifying overview regarding sex and gender.</p> <p>Extensive improvements to verbiage and terminology in order to increase precision regarding anatomical structures and functions.</p> |
| Section 27.2 | <p>Extensive improvements to verbiage and terminology in order to increase precision regarding anatomical anatomical structures and functions.</p> <p>Extensive revision and addition to Everyday Connection feature on mitochondrial DNA.</p>                     |
| Section 27.3 | Added context regarding XY chromosomes in sex determination.   |
| Section 28.1 | Feature on In Vitro Fertilization: Added context and situational factors influencing the use of UVF.   |
| Section 28.7 | <p>Added context regarding parental relationships and genetic inheritance.</p> <p>Figures 28.27, 28.28, and 28.29: Updated text in labels to improve accuracy.</p>   |