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## NUR 621: Clinical Pathophysiology OER Curation

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# KCON NUR 621: Clinical Pathophysiology OER Curation

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## Overview

### Scope Notes

The instructor likes the currently used textbook, because it provides a comprehensive reference that covers all body systems and includes illustrations. There is interest in adopting OER due to the current textbook being expensive and the instructor will adopt or adapt open materials based on what is available.

### Current textbooks and materials

Kathryn L. McCance and Sue E. Huether, Pathophysiology, 8th Edition (Elsevier Mosby) ISBN: 9780323583473 \$139.00

### Search Notes

The search consulted OER Commons, Merlot, Open Textbook Library, and OpenStax. There were few pathophysiology open education materials compared to typical results for medical OER searches. The majority of materials are course recordings, slides, and lecture notes. Additionally, there were a number of disease specific OER discovered during the search that may be useful for the course.

### Gap Analysis

There are many OER dedicated to medical studies, but very few specific to pathophysiology. The materials available specific to pathophysiology are lecture notes and course materials, and not



a traditional textbook. Additionally, there are existing physiology and pathology texts that could be adapted to form suitable material for the course. However, most of the resources are geared toward undergraduate education and embracing OER for pathophysiology courses will likely require adaption and creation work. There is a need to create a pathophysiology OER textbook.

## Promising OER Options

### Essential Notes on Pathophysiology for Advanced Practice Nurses

- Alex Sargsyan, Essential Notes on Pathophysiology for Advanced Practice Nurses, East Tennessee State University (2020).
- Available from [OER Commons](#)
- PDF
- CC BY-NC-SA
- Comments: This OER textbook is a compilation of an instructor's lecture notes from ten years of pathophysiology courses. The text was designed to equip future nurses with advanced knowledge of pathophysiology for common diseases and disorders that they may encounter in primary care.

### Principle and Practice of Human Pathology

- Principle and Practice of Human Pathology, MIT Open Courseware, MIT (2003).
- Available from [MIT Open Courseware](#)
- Online course
- License: varies
- Comments: This open course is available publicly for students to take at pace or the material to be used as supplemental material for other courses. The course provides the syllabus, course readings, lecture notes, labs, and assignments, which all may be used as is or be adapted to fit the course context. The homework assignments and labs may be the most useful and easiest to adapt for course use.

### Relevant Learning Modules in Toxicology

- Greg Nagy, Relevant Learning Modules in Toxicology: Pathophysiology, ToxMSDT (2021).
- Available from [OER Commons](#) and [ToxMSDT](#)
- Online
- License: CC BY-NC
- Comments: The ToxMSDT program provides six case studies designed primarily for toxicology students and professionals. The topics covered included, an introduction to toxicology, exposure standards and guidelines, toxic effects, and biotransformation. The learning modules will not likely all be the exact fit for this course context, but the materials can be re-mixed and re-used to fit the course context. The most ideal module is [Pathophysiology](#) and contains 13 lessons.

# Stretch Resource Options

## Pathophysiology of the Digestive System

- Laura Austgen, R.A. Bowen and Melissa Rouge, Pathophysiology of the Digestive System, Colorado State University (2019).
- Available from [Merlot](#)
- Website
- License: Unlisted
- Comments: This site covers aspects of the physiology and anatomy of the digestive system as well as control of digestive system functioning. The voyage through the digestive tract gives detailed information gross and microscopic anatomy of each part of the system as well as motility, transport across the epithelium, secretions, and absorption of various nutrients. There is also a glossary available and self evaluations are available throughout the site for use. This may be appropriate for student assignments and self testing, or may be adapted if licensing is cleared with the resource authors.

## Fundamentals of Anatomy and Physiology

- Anna Chruscik et al., Fundamentals of Anatomy and Physiology - Australian Edition, University of Southern Queensland (2021).
- Available from [Open Textbook Library](#)
- Onelin, book, PDF, XML, ODF
- License: CC BY-SA
- Comments: This OER textbook was adapted from the OpenStax Anatomy and Physiology to fit an Australian context. It is aimed at supporting first year anatomy and physiology courses. The material will likely not be advanced enough for this course, but some of the material may be useful for adaption purposes.

## Anatomy and Physiology

- Betts et al., Anatomy and Physiology, OpenStax (2013).
- Available from [OpenStax](#)
- PDF, Online book, iBook, physical copy
- CC BY
- Comments: Anatomy and Physiology was created for two-semester human anatomy and physiology courses. The book is organized by body system and covers standard scope and sequence requirements. The text , strategically constructed art, career features, and links to external learning tools address the critical teaching and learning challenges in the course. The web-based version of Anatomy and Physiology also features links to surgical videos, histology, and interactive diagrams.

## Diabetes Mellitus Pathophysiology

- Diabetes Mellitus Pathophysiology Type 1 & 2
- Available from [Merlot](#)
- Presentation, YouTube video
- License: unknown
- Comments: Diabetes mellitus pathophysiology and nursing nclex lecture review on diabetes type 1 and diabetes type 2. The instructor highlight the key players in diabetes mellitus, causes, different types of diabetes (type 1, type 2, and gestational), complications, and nursing assessment of the diabetic patient. This resource may not be a good fit for the course if the instructor doesn't want to supply other instructor videos

## Pathophysiology of Heart Failure

- Chanteuse Sanders, Pathophysiology of Heart Failure (2009).
- Available from [Merlot](#)
- Video
- License: Unlisted
- Comments: This is a short video designed for university-level students and describes the pathophysiology of heart failure and how it will progress if left untreated. This is one example of many pathophysiology resources in Merlot that are useful for supplemental materials in courses, such as for use in assignments or in the classroom for students to view.