

NURS 6501 Week 11: Concepts of Pediatrics

Pediatric disorders can present unique challenges to patients, families, and healthcare providers. Disorders in these areas are complicated by the fact that young patients can have difficulties communicating symptoms. Furthermore, the manner in which disease and disorders manifest in children may be unique.

APRNs working to support these patients and their loved ones must demonstrate not only support and compassion, but expertise to communicate and guide understanding of diagnoses and treatment plans. This includes an understanding of disease and disorders at the pediatric level.

This week, you examine pathophysiology in pediatrics. You apply key terms, concepts, and principles in this area to demonstrate an understanding of the impact they have on altered physiology in children.

Learning Objectives

Students will:

- Analyze concepts and principles of pathophysiology across the lifespan

Learning Resources

[Required Readings \(click to expand/reduce\)](#)

McCance, K. L. & Huether, S. E. (2019). Pathophysiology: The biologic basis for disease in adults and children (8th ed.). St. Louis, MO: Mosby/Elsevier.

- Chapter 14: Cancer in Children, including Summary Review
- Chapter 20: Alterations of Neurologic Function in Children (stop at Childhood tumors); Summary Review
- Chapter 34: Alterations of Cardiovascular Function in Children (stop at Defects decreasing pulmonary blood flow); Summary Review
- Chapter 37: Alterations of Pulmonary Function in Children (stop at Congenital malformations); Summary Review
- Chapter 40: Alterations of Renal and Urinary Tract Function in Children, including Summary Review
- Chapter 43: Alterations of Digestive Function in Children, including Summary Review
- Chapter 46: Alterations of Musculoskeletal Function in Children (stop at Avascular diseases); (start at Cerebral palsy) (musculoskeletal tumors in children); Summary Review
- Chapter 48: Alterations of the Integument in Children, including Summary Review
- Chapter 50: Shock, Multiple Organ Dysfunction Syndrome, and Burns in Children, including Summary Review

[U.S. National Library of Medicine. \(2019\). Normal growth and development. Retrieved from https://medlineplus.gov/ency/article/002456.htm](https://medlineplus.gov/ency/article/002456.htm)

[Document: NURS 6501 Final Exam Review \(PDF document\)](#)

[Note: Use this document to help you as you review for your Final Exam in Week 11.](#)

[Required Media \(click to expand/reduce\)](#)

Module 8 Overview with Dr. Tara Harris

Dr. Tara Harris reviews the structure of Module 8 as well as the expectations for the module. Consider how you will manage your time as you review your media and Learning Resources throughout the module to prepare for your Knowledge Check and your Final Exam. (3m)

[Wyatt, K. \(2018, February 4\). Pediatrics – Growth and development milestones review \[Video file\]. Retrieved from https://www.youtube.com/watch?v=ZG60nC3RJwc](https://www.youtube.com/watch?v=ZG60nC3RJwc)

[Note: The approximate length of the media program is 34 minutes.](#)

Online Media from Pathophysiology: The Biologic Basis for Disease in Adults and Children

In addition to this week's media, it is highly recommended that you access and view the resources included with the course text, Pathophysiology: The Biologic Basis for Disease in Adults and Children. Focus on the videos and animations in Chapter 20, 34, 37, 40, 43, and 46 that relate to alterations in hematological function in children. Refer

to the Learning Resources in Week 1 for registration instructions. If you have already registered, you may access the resources at <https://evolve.elsevier.com/>

Knowledge Check: Pediatrics

In this exercise, you will complete a 10- to 20-essay type question Knowledge Check to gauge your understanding of this module's content.

Possible topics covered in this Knowledge Check include:

- Growth and development
- Normal growth patterns
- Scoliosis (ortho)
- Kawasaki
- Alterations in children
- Congenital (heart syndrome)
- PDAs
- Sudden Infant Death Syndrome (SIDS)
- Asthma
- Lead poisoning and effects on neurological functioning

- Sickle cell
- Hemophilia

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(Note: It is strongly recommended that you take the Knowledge Check at least 48 hours before taking the Final Exam.)

Complete the Knowledge Check By Day 5 of Week 11

To complete this Knowledge Check:

Module 8 Knowledge Check