Pediatric Ultrasound BachelorClass

Learn about the origins of Pediatric Ultrasound, the relevant physics, selection of the right transducers and all relevant applications - from Trauma to Bedside Cardiac Ultrasound.

4.75	11	12	10
CME credits	Chapters	Lectures	Quizzes

Chapter 1 | CME

Free lectures

Lectures & Quizzes:

- Free lecture 1
- Free lecture 2

Chapter 2 | 0.25 CME

Introduction

In this chapter, we present a brief history of ultrasound and discuss the emerging field of non-traditional sonographers who simultaneously scan and treat their patients at the bedside. This module represents the first step towards an expertise in the sonographic evaluation of pediatric patients.

Lectures & Quizzes:

- Introduction
- Pediatric USBC - Introduction

Chapter 3 | 0.5 CME

Ultrasound Physics

In this chapter, you will learn the basics of ultrasound physics; enough to maximize your sonographic imaging, but not so much as to take the fun out of point-of-care pediatric ultrasound. From frequency and resolution to sonographic artifacts, you will have a firm understanding of ultrasound physics principles as you interpret and troubleshoot your most complex scans.

Lectures & Quizzes:

- Ultrasound physics
- Pediatric USBC - Ultrasound Physics

Chapter 4 | 0.5 CME

Vascular access

In this chapter, you will learn the tips and tricks to capably perform an ultrasound-guided peripheral or central venous line. This indispensable skill-set will impress your nurses and help your patients.

Lectures & Quizzes:

- Vascular access
- Pediatric USBC - Vascular Access

Chapter 5 | 0.5 CME

Trauma ultrasound

In this chapter, we discuss ultrasound imaging in the pediatric trauma victim. As part of the FAST (Focused Assessment with Sonography for Trauma) scan, you will learn to recognize blood in the peritoneal cavity, pericardial sac, and thoracic space.

Lectures & Quizzes:

- Trauma ultrasound
- Pediatric USBC - Trauma Ultrasound

Chapter 6 | 0.5 CME

Abdomen & retroperitoneum

In this chapter, we focus on the inferior vena cava (with pediatric-specific considerations), liver and biliary structures, the spleen, and the kidneys/bladder.

Lectures & Quizzes:

- Abdomen & retroperitoneum
- Pediatris USBC - Abdomen & Retroperitoneum

Chapter 7 | 0.5 CME

Appendicitis, Intussusception & Pyloric Stenosis

In this chapter, we provide a step-wise approach to the appendix; how to find it and how to determine if it is pathologic.

Lectures & Quizzes:

- Appendicitis, Intussusception & Pyloric Stenosis
- Pediatric USBC - Appendicitis, Intussception & Pyloric Stenosis

Chapter 8 | 0.5 CME

Soft Tissue & Musculoskeletal

In this chapter, we cover a range of soft tissue pathology and the sonographic appearance of everything "under the skin". We also discuss the musculoskeletal system, including the sonographic evaluation of fractures, the elbow, the shoulder, the knee, and the hip.

Lectures & Quizzes:

- Soft Tissue & Musculoskeletal
- Pediatric USBC - Soft Tissue & Musculoskeletal

Chapter 9 | 0.5 CME

Cardiac Ultrasound

In this chapter, we evaluate the pediatric heart from a variety of "windows" and "views".

Lectures & Quizzes:

- Cardiac Ultrasound
- Pediatric USBC - Basic Cardiac Ultrasound

Chapter 10 | 0.5 CME

Pulmonary Ultrasound

In this chapter you will learn about pulmonary scanning - one of the newest and most exciting areas of pediatric ultrasound.

Lectures & Quizzes:

- Pulmonary Ultrasound
- Pediatric USBC - Pulmonary Ultrasound

Chapter 11 | 0.5 CME

Critical Care Ultrasound

In this chapter, we evaluate shock by assessing for left ventricular dysfunction, central venous pressure, and intra-peritoneal

or pulmonary pathology.

Lectures & Quizzes:

- Critical Care Ultrasound
- Pediatric USBC - Critical Care Ultrasound