



Neonatal and Pediatric Ultrasound BachelorClass

Neonatal and Pediatric Ultrasound BachelorClass covers a wide range of POCUS applications in Neonatology and Pediatrics, focusing on echocardiography and ultrasound of the lung, abdomen, brain, and spine, as well as ultrasound-guided procedures like umbilical venous catheter placement, paracentesis, and lumbar puncture. It includes memorable illustrations, real-life scanning demonstrations, and interactive cases with specific tips and tricks for your clinical decision-making in pediatrics, pediatric cardiology and in the neonatal intensive care unit. Note: This course includes AI-generated translations in Spanish and Arabic. Accuracy is not guaranteed (read more in Terms & Conditions)

4.75
CME credits

8
Chapters

21
Lectures

7
Quizzes

Chapter 1 | CME

Free introduction - Cardiac, abdominal and brain ultrasound in the neonate

An introduction series for a broad overview of the main themes of this course. You will learn about the hemodynamic, respiratory, and neural differences between fetal, neonatal, and adult anatomy and physiology. This knowledge crucially impacts ultrasound applications and diagnosis in this special patient population.

Lectures & Quizzes:

- Free lecture - Hemodynamic considerations in the neonatal heart
- Free lecture - Brain and spine US introduction
- Free lecture - Lung and abdominal US introduction

Chapter 2 | 0.25 CME

Introduction

In this chapter, we will describe the importance of neonatal point-of-care ultrasound (POCUS). We highlight how neonatal anatomy and physiology are different than children and adults. The neonatal uniqueness deserves a separate dedicated POCUS class.

Lectures & Quizzes:

- Neonates POCUS is unique
- NUBC - Introduction

Chapter 3 | 2.25 CME

Cardiac

In this chapter, we will talk about basic neonatal cardiac POCUS views, LV systolic function, fluid assessment, umbilical venous catheter position, and pericardial effusion.

Lectures & Quizzes:

- Basic neonatal cardiac POCUS views - Part 1
- Basic neonatal cardiac POCUS views - Part 2
- LV systolic function
- Fluid assessment
- Umbilical venous catheter position
- Pericardial effusion
- NUBC - Cardiac

Chapter 4 | 0.75 CME

Lung

In this chapter, we will introduce you to neonatal lung ultrasound, discuss how to perform neonatal lung ultrasound, and cover neonatal lung ultrasound clinical applications.

Lectures & Quizzes:

- Introduction to neonatal lung ultrasound
- How to perform neonatal lung ultrasound
- Neonatal lung ultrasound clinical applications
- NUBC - Lung

Chapter 5 | 0.5 CME

Abdomen

In this chapter, we will introduce you to neonatal abdominal ultrasound, ultrasound-guided paracentesis, and neonatal bladder ultrasound.

Lectures & Quizzes:

- Introduction to neonatal abdominal ultrasound
- Ultrasound guided paracentesis
- Neonatal Bladder ultrasound
- NUBC - Abdomen

Chapter 6 | 0.5 CME

Brain

In this chapter, we will cover emergent cranial ultrasound - anatomy & pathology.

Lectures & Quizzes:

- Emergent cranial ultrasound - anatomy
- Emergency cranial ultrasound - pathology
- NUBC - Brain

Chapter 7 | 0.25 CME

Spine

This chapter will cover basic spinal ultrasound and ultrasound-guided lumbar puncture.

Lectures & Quizzes:

- Basic spinal ultrasound
- Ultrasound guided lumbar puncture
- NUBC - Spine

Chapter 8 | 0.25 CME

Putting it together

Let's put all your learned skills into one scanning protocol for common POCUS applications.

Lectures & Quizzes:

- Connect the dots
- NUBC - Putting it together