

Neonatal Lung Ultrasound Course

COURSE LENGTH

Estimated time required to complete the course, including final assessment, is 9 hours.

DESCRIPTION

Dive into the essentials of Neonatal Lung Ultrasound with a comprehensive course blending pre-recorded lectures, 3 live sessions, and interactive quizzes for self-assessment. Begin with the fundamentals, patterns and scoring systems, basic investigation, potential pitfalls and limitations. Gain insights into various neonatal syndromes, differentiating between term and preterm infant conditions. Benefit from real-life case studies in the delivery room and NICU scenarios, including term, pre-term, and critical situations. Equip yourself with the knowledge to handle neonatal lung challenges effectively and safely. Perfect for health professionals who want to learn about baby lung care.

This course has been developed by members of the ESPNIC Neonatal Critical Care Section.

TOPICS

Part 1: Basics

- Introduction to Lung Ultrasound (US Basics): basic artifacts, how do I do it, integration of lung ultrasound in daily preterm care, crucial role of nurses in the procedure
- Patterns, scoring systems
- Lung Ultrasound in diagnosis and monitoring of pulmonary edema in neonates

Part 2: Syndromes

- Lung Ultrasound at birth: changes from fetal to neonatal life, and admission prediction
- Term Infants, common pathologies
- Term Infants, less common pathologies
- Preterm Infants: RDS and the prediction of surfactant replacement
- Ultrasound-guided treatment
- Diaphragm ultrasound
- What's next? Future uses of LUS and promising results

Part 3: Cases (live sessions)

- Consolidation and pneumatoceles
- RDS vs TTN at admission
- Lung recruitment
- Pneumothorax and MAS
- RDS and surfactant
- Crashing infant in the NICU

FORMAT

This course is composed of 4 elements:

1. Video lectures with accompanying PDF of the presentation slides
2. 3 live sessions presenting real-life case studies
3. Assessment with multiple-choice questions about the lecture content
4. Post-course evaluation survey

The course materials are hosted on the ESPNIC Education portal. If you are not an ESPNIC member, please create an account to register for the course. Access to the course will be limited to the course period, which runs from 13 May 2025 to 31 July 2025. After 31 July 2025, the course will be closed, and it will no longer be possible to access the course materials or take the final assessment.

ASSESSMENT DETAILS

The course concludes with a multiple-choice final assessment. Participants have 3 attempts to take the final assessment. The highest score will be recorded as the final score for the course. A final score of 75% is required to pass the final assessment.

COMPLETION REQUIREMENTS

To successfully complete the course and receive a certificate of completion, participants must watch all lectures, receive a minimum score of 75% on the final assessment, and complete the course evaluation survey within the course opening period (13 May – 31 July 2025). Participants who attempt the final assessment but do not pass will be eligible for a certificate of participation.

IMPORTANT DATES

Registration Closes	1 June 2025 at 23.59 CEST
Final Date to Complete Final Assessment	31 July 2025 at 23.59 CEST
Course Certificates Issued	2 September 2025

PRICES

ESPNIC Members	80€
Non-ESPNIC Members	160€

CONTACT US

For questions about this course, please email us at education@espniceu.

REGISTER

[Register for the course here.](#)
