EPNS Training Course: Ferrara, Italy 2026

Course 1: Neonatal Neurology

Course description

This educational activity provides an in-depth overview of neonatal neurology, focusing on the assessment, diagnosis, and management of neurological disorders in the newborn period. The course integrates current evidence, neurophysiology, neuroimaging, and developmental principles to support clinical decision-making in neonatal neurological care.

Educational objectives

After completing this activity, participants will be able to:

- Perform structured neurological assessment in term and preterm neonates.
- Recognize and differentiate common and rare neonatal neurological disorders.
- Interpret neonatal EEG, amplitude-integrated EEG, and neuroimaging findings in a clinical context.
- Apply current guidelines for the management of neonatal seizures, hypoxic-ischemic encephalopathy, and neurometabolic disorders.
- Assess early neurological outcomes and counsel families regarding prognosis.

Statement of educational need

Neurological disorders in the neonatal period are a major cause of morbidity and long-term neurodevelopmental impairment. Rapid advances in neurodiagnostic and neurocritical care require ongoing education to ensure optimal, evidence-based management. This course addresses identified gaps in knowledge and competence in neonatal neurological assessment and treatment.

Educational outcomes

Participation in this activity is expected to improve clinicians' competence in neonatal neurological evaluation and management, contributing to earlier diagnosis, appropriate intervention, and improved neurodevelopmental outcomes.