



CME Session 9

Paediatrics Committee in Collaboration with Neuroimaging Committee

Tuesday, October 20, 08:00–09:30

Session Title

The Evolving Role of Nuclear Medicine in Paediatric Epilepsy: From Seizure Focus Localisation to Prognostic Imaging

Chairpersons

Donatienne Van Weehaeghe (Gent, Belgium)

Pietro Zucchetto (Padua, Italy)

Programme

08:00–08:30 **Christian Dorfer** (Vienna, Austria): Paediatric Epilepsy: The Neurosurgeon's View

08:30–09:00 **Eser Ergün** (Ankara, Türkiye): Functional Neuroimaging with PET in Paediatric Epilepsy: Current Status and Future Directions

09:00–09:30 **Isabel Roca Bielsa** (Barcelona, Spain): SPECT in Childhood Epilepsy: Focus Localisation and Clinical Decision-Making

Educational Objectives

1. Review the current role of PET and SPECT in localising seizure foci in paediatric epilepsy.
2. Discuss best practices and pitfalls in PET and SPECT imaging for childhood epilepsy.
3. Integrate the imaging, neurological, and neurosurgical perspectives on focus localisation and pre-surgical planning in childhood epilepsy.

Summary

This session reviews PET and SPECT in paediatric epilepsy, focusing on seizure focus localisation, prognostic imaging, clinical decision-making, and surgical planning, while highlighting the complementary perspectives of imaging specialists and paediatric neurosurgeons.

Key Words

Epilepsy; Children; PET; SPECT; Seizure Focus Localisation; Epilepsy Surgery