



Learn & Improve Professional Skills Session 10

Paediatrics Committee

Tuesday, October 7, 09:45 – 11:15

Session Title

Update on Pediatric Gastrointestinal Nuclear Studies

Chairpersons

Pinar Kiratli (Ankara, Türkiye)

Julian Rogasch (Berlin, Germany)

Programme

- 09:45 – 10:30 **Zvi Bar Sever** (Petach Tikva, Israel): Update on pediatric gastrointestinal studies: Gastric emptying, gastroesophageal reflux, pulmonary aspiration
- 10:30 – 11:15 **Anitta Brink** (Vienna, Austria): GI transit studies in pediatrics – Role of hepatobiliary imaging in neonatal hepatitis

Educational Objectives

1. To understand the pathophysiology and the clinical Indications for using these Imaging Techniques
2. To Interpret the Imaging results and to apply Quantitative and Qualitative Analysis
3. Recognize To recognize pitfalls and limitations as well as to integrate Imaging with clinical management

Summary

This lesson provides a comprehensive overview of gastrointestinal imaging with a focus on their evaluation using radionuclide imaging techniques. Learners will first explore the underlying physiology and pathophysiology.

The session will cover the clinical indications highlighting when and why these tests are used. Emphasis will be placed on understanding the appropriate radiopharmaceuticals, imaging protocols, and acquisition techniques used in nuclear medicine to assess function.

Participants will learn to interpret imaging findings, distinguish normal from abnormal patterns, and perform basic quantitative analyses such as gastric retention calculation and reflux grading. The lesson also addresses potential pitfalls, limitations, and confounding factors in these studies.

Finally, learners will integrate imaging findings into clinical practice, understanding how results contribute to diagnosis and management of gastrointestinal motility disorders.

Participants will be equipped with the knowledge to select, perform, and interpret radionuclide studies and apply these insights to improve patient care.

Key Words

Pediatrics; gastrointestinal system; radionuclide imaging