

CME 6

Inflammation & Infection + Translational Molecular Imaging & Therapy + Radiopharmacy Committee

Monday, October 14, 11:30-13:00

Session Title

Molecular Imaging Technologies for Infectious Diseases

Chairpersons:

Fijs van Leeuwen (Leiden, Netherlands)

Andor Glaudemans (Groningen, Netherlands)

Programme

- 11:30 - 12:00 Meta Roestenberg (Leiden, Netherlands): Imaging of Bacterial and Pathogen infections, Infectious Disease Specialist's Point of View
- 12:00 - 12:30 Mike Sathekge (Pretoria, South Africa): Imaging of Bacterial and Pathogen Infections, Nuclear Medicine's Point of View
- 12:30 - 13:00 Clemens Decristoforo (Innsbruck, Austria): Novel Approaches to Image the Pathogen, Radiopharmacy's Point of View

Educational Objectives

1. Knowledge of the importance of infectious diseases in daily clinical practice
2. Knowledge of existing methods to image the pathogens involved in the infectious process
3. Knowledge of novel approaches for the development of specific tracers to image the pathogens involved in the infectious process

Summary

Infectious diseases can be life threatening and have an enormous impact on the daily life of (often young) persons. The early diagnosis of infectious diseases and the follow-up of the efficacy of treatment is still very difficult. The recent years, our understanding and knowledge of the pathophysiology of infectious diseases has significantly improved. Molecular imaging offers unique and unsurpassed possibilities for the detection of infection-related processes. Together with the recent developments in hybrid multimodality imaging techniques and new developed radiopharmaceuticals by smart chemistry, molecular imaging has positioned itself clearly as a key player in the field of infection. In this CME, novel approaches to image the pathogen involved in the infectious process, are presented from three fields of interest: (1) the field of the infectious disease clinical specialist, (2) the field of the nuclear medicine specialist, and (3) the field of the radiopharmacist. This CME is organized by the Inflammation & Infection Committee, the Translational Molecular Imaging & Therapy Committee, and the Radiopharmacy Committee of the EANM.

Key Words

infection; bacterial imaging; optical imaging; specific tracers