

Vienna, Austria

Annual Congress of the
European Association of Nuclear Medicine
October 21 –25, 2017
Vienna, Austria

CME 9 (Paediatrics/Inflammation & Infection)

Tuesday, October 24, 08:00-09:30

Session Title

FDG PET in Paediatric infections

Chairs

Alberto Signore (Rome)

Arnoldo Piccardo (Genova)

Programme

08:00-08:30 Lise Borgwardt (Copenhagen): FDG PET in the Evaluation of Lymphadenopathy in Children

08:30-09:00 Ilse Kouijzer (Nijmegen): FDG PET in the Evaluation of the Immunocompromised Child with Fever

09:00-09:30 Freddy Karup Pedersen (Copenhagen): The Clinical Approach to the Immunocompromised Child with Fever

Summary

Using FDG PET/CT and FDG PET/MR in the diagnostic work-up in children is well established. But the use of FDG PET for infectious diseases in paediatric nuclear medicine is mainly used for focus localization, which is still an important indication. But newer strategies as mapping the lymphadenopathy and thereby getting closer to the possible infections, ruling out malignancy and identifying the lymph node most suitable for biopsy is very interesting strategies in the use of FDG PET/CT.

Also one has to consider the special aspects of evaluating an FDG PET/CT scan in the evaluation of the immunocompromised child with fever and FDG PET/CT plays an important role in localizing the disease and leading the diagnostic strategy on the way – if not solving it. It is important to have the background knowledge of the possible infections in childhood, also on other continents, and also the typical pattern of the disease on the FDG PET/CT scan, in order to have a good background knowledge for evaluating the scans.

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Educational Objectives

- to improve understanding of how to use FDG PET in the diagnosis of infectious diseases in children and young adults
- better understanding of the role of FDG PET/CT (FDG PET/MR) in the diagnostic work-up of the infected child
- better understanding of FDG PET/CT (FDG PET/MR) scan in the diagnostic work-up of the child with enlarged glands
- to improve diagnostic strategies in the infected child
- better understanding possible infections of the immunocompromised child

Key Words

Pediatrics, infection, inflammation, FUO, immunocompromised

Take-home message

FDG PET/CT is a useful tool in the diagnostic work-up of the infected child and the child with lymphadenopathy.