

EPNS Training Course 2015 – Program

24-25 MARCH 2015: INFECTION AND IMMUNE MEDIATED DISEASES

FACULTY

- **Dr Maarten Lequin**, ErasmusMC/Sophia, Rotterdam, the Netherlands
- **Dr Kevin Rostasy**, Witten/Herdecke University, Children's Hospital Datteln, Germany
- **Dr Zsolt Illes**, Odense University Hospital, Institute of Clinical Research, Odense, Denmark
- **Prof Banu Anlar**, Hacettepe University Ankara, Turkey
- **Dr Coriene Catsman-Berrevoets**, ErasmusMC/Sophia, Rotterdam, the Netherlands

Day 1

Lecture 1
9.00h-9.40h **Zsolt Illes:** The immune system and immune-CNS interactions; Pathogenesis of neuro-immune diseases (overview of the respective roles of cell-mediated mechanisms, antibodies, complement, cytokines, innate and adaptive systems. How does the genetic background affect the occurrence of these diseases? HLA, signaling systems etc).

Lecture 2
9.40h-10.20h **Coriene Catsman and dr Maarten Lequin:** Definition of CNS involvement: clinical, anatomical, and radiological definitions.

20 min break **Break**

Lecture 3
10.40h-11.20h **Kevin Rostasy:** Clinical and laboratory approach to a demyelinating episode in the CNS, differential diagnosis.

Lecture 4
11.20h-12.00h **Maarten Lequin:** Demyelinating lesions in the CNS: radiology and radiological differential diagnosis (radiologist's demonstration of a variety of cases, vit B12 def, Lyme, Behcet, ...)

12.00h-13.00h **Lunch**

Lecture 5
13.00h-14.00h **Coriene Catsman:** New and old treatments in recurrent demyelinating diseases.

15.45h- 17.00h **Interactive discussions including representative case presentations**

**Cases sent before the course by trainees, or prepared in advance by instructors*

Day 2

Lecture 1
9.00h-9.40h **Zsolt Illes:** Infection and immunity from a paediatrician's view

Lecture 2
9.40h-10.20h **Kevin Rostasy:** CNS infections , bacterial or viral, or both, emphasis on tick borne, Bb etc, including atypical and newly identified infetions which are relevant in the Europe

20 min break **Break**

Lecture 3
10.40h-11.20h **Kevin Rostasy: CNS infections in the immunocompromised child**

Lecture 4
11.20h-12.00h **Maarten Lequin: Neuroimaging findings in CNS infections and differential diagnosis**

20 min break **Break**

Lecture 4
12.20h-13.00h **Zsolt Illes:** The antibody-mediated encephalitis spectrum: an emerging field of neuroimmunology

13.00h-14.00h **Lunch**

Lecture 5
14.00h-15.00h **Coriene Catsman and Banu Anlar:** Peripheral nervous system

20 min break **Break**

15.45h- 17.00h **Coriene Catsman and Banu Anlar: Case discussions (to be prepared by the participants).**

PARTICIPANTS WILL GAIN A CLEAR UNDERSTANDING OF

- Basic knowledge concerning genetic and acquired risk factors for immune mediated disease
- Pathophysiology ,immunological mechanisms relevant for and immune mediated disease
- Clinical presentation, diagnostic pitfalls, management and complications of acute CNS symptoms
- MR Images of immune mediated nervous system disease
- Diagnostic characteristics of ADEM, CIS, MS and mimics
- Clinical presentation and diagnostic challenges of auto-antibody diseases of the Central and peripheral nervous system
- New treatment modalities in MS
- Diagnostic pitfalls in peripheral nerve signs