

*Düsseldorf, Germany*

## **Pitfalls & Artefacts 4 (Neuroimaging / Physics) - Interactive** **Monday, October 15, 11:30-13:00**

### **Session Title**

### **Amyloid Imaging**

### **Chairpersons**

Javier Arbizu (Pamplona)

Pierre Payoux (Toulouse)

### **Programme**

- 11:30 - 11:50 Ronald Boellaard (Groningen): Quantifying Amyloid Imaging: SUVR and Centiloids
- 11:50 - 12:10 Silvia Morbelli (Genoa): Equivocal and Borderline Amyloid PET Scans - Pitfalls and Challenges of Visual Analysis
- 12:10 - 12:30 Mark Lubberink (Uppsala): Effects of Acquisition and Reconstruction Settings on Image Interpretation and Quantification
- 12:30 - 13:00 General Discussion

### **Educational Objectives**

1. Compare available instrumentation for PET/CT including acquisition and reconstruction parameters, and learn about their possible effect on Amyloid imaging analysis
2. Examine important incidental findings on Amyloid PET and understand how to avoid potential pitfalls.
3. Interpret difficult Amyloid PET studies (equivocal and borderline).
4. Understand the quantification of Amyloid imaging, and compare the available procedures (SUVR, Centiloid)

### **Summary**

Amyloid imaging has been expanded during the last years as a useful tool for the in vivo evaluation of Alzheimer's disease pathology in subjects with objective progressive cognitive impairment of uncertain origin. Available commercial radiotracers for amyloid PET require specific course training with specific directions for reading. The goal of this session is to assist nuclear medicine practitioners in understanding the effects of acquisition and reconstruction settings on image interpretation and quantification, as well as interpreting equivocal and borderline Amyloid PET studies. This session will also help the selection and performance of brain amyloid PET quantification.

### **Keywords**

Amyloid imaging; SUVR; Centiloid; Challenges