



## **Learn & Improve Professional Skills Session 12**

Inflammation & Infection Committee

**Tuesday, October 7, 16:45 – 18:15**

### **Session Title**

**Interpretation of FDG PET/CT in Common Infectious-Inflammatory Diseases**

### **Chairpersons**

**Marie Øbro Fosbøl** (Copenhagen, Denmark)

**Paula Soeiro** (Porto, Portugal)

### **Programme**

- 16:45 – 17:10 **Giorgio Treglia** (Bellinzona, Switzerland): FDG PET pattern recognition in the main inflammatory and infectious diseases
- 17:10 – 17:35 **Lucia Leccisotti** (Rome, Italy): Visual vs semiquantitative assessment in cardiovascular infections
- 17:35 – 17:55 **Irene Gotuzzo** (Bergamo, Italy): Pitfalls of FDG PET/CT in inflammation and infection in adults
- 17:55 – 18:15 **Marie Øbro Fosbøl** (Copenhagen, Denmark): Pitfalls of FDG PET/CT in inflammation and infection in pediatrics

### **Educational Objectives**

1. Describe the typical pattern of FDG PET/CT in the most common inflammatory and infectious diseases
2. Compare the role of visual and semiquantitative analysis in the evaluation of cardiovascular infections (endocarditis, vascular graft infections, ...)
3. Describe the most frequent FDG PET pitfalls in adults affected by inflammatory and infectious diseases
4. Describe the most frequent FDG PET pitfalls in children affected by inflammatory and infectious diseases

### **Summary**

Growing evidence highlights the diagnostic role of FDG PET/CT in evaluating inflammation and infections. Inflammatory and infectious diseases often exhibit specific uptake patterns on FDG PET/CT, and several semiquantitative parameters can assist in identifying these conditions, especially in cardiovascular infections. However, the use of FDG PET/CT in patients with infectious or inflammatory diseases has limitations and potential pitfalls, which can arise from factors such as the type of disease, the complexity of acquiring PET images, or ongoing therapies. This session will focus on the most common and significant visual and semiquantitative FDG PET patterns seen in inflammatory and infectious diseases. Additionally, we will discuss the key pitfalls encountered in both adults and children with inflammatory/infectious diseases.

### **Key Words**

Inflammation; Infection; pitfalls