

## **Pitfalls & Artefacts 2**

Thyroid Committee

Thursday, October 22, 16:35-18:05

### **Session Title**

**Pre- and Post Therapeutic Imaging in Thyroid Cancer**

### **Chairperson**

Alexis Vrachimis (Limassol, Cyprus)

### **Programme**

- 16:35 - 17:04 Luca Giovanella (Bellinzona, Switzerland): Molecular Imaging before Radioiodine Therapy
- 17:04 - 17:33 Maija Radzina (Riga, Latvia): Cross-Sectional Imaging Possibilities
- 17:33 - 18:02 Markus Luster (Marburg, Germany): Molecular Imaging after Radioiodine Therapy

### **Educational Objectives**

1. Artifacts and technical limitation in pre-therapy imaging
2. False-positive and false-negative results in pre-therapy imaging
3. Overview of current advantages and disadvantages of each imaging method
4. Provide the insight into the role of imaging in the common diagnostic and treatment algorithm
5. False-positive and false-negative results in post-therapy imaging and follow-up

### **Summary**

Imaging is a cornerstone in management of thyroid cancer both in diagnosis and post therapy/follow up. Various modalities such as ultrasound, CT and MRI are implemented with molecular imaging however, having an evolving role. Both in the pre-therapeutic and post-therapeutic setup new tracers with positron or gamma emitters are implemented with promising results. Yet, special care has to be taken to avoid pitfalls that could lead to unnecessary interventions or mistreatment of the patient. This session will give insights of such pitfalls for a variety of modalities and tracers applied in thyroid cancer management.

### **Key Words**

Thyroid cancer, imaging, PET, scintigraphy, CT, MRI, scintigraphy, limitations