

## Teaching Session 7

Thyroid Committee

Friday, October 30, 15:30-17:00

### Session Title

**Molecular Imaging in Thyroid Nodules**

### Chairperson

Alfredo Campenni (Messina, Italy)

### Programme

- 15:30 - 15:59 Tomislav Jukić (Zagreb, Croatia): [<sup>99m</sup>Tc]TcO<sub>4</sub><sup>-</sup> Scintigraphy in the Evaluation of Thyroid Nodules
- 15:59 - 16:28 Simone Schenke (Magdeburg, Germany): The Importance of [<sup>99m</sup>Tc]Tc-MIBI Scintigraphy in Thyroid Nodules Assessment
- 16:28 - 16:57 Arnaldo Piccardo (Genoa, Italy): The Role of 2-[<sup>18</sup>F]FDG PET/CT Imaging in the Characterization of Thyroid Nodules

### Educational Objectives

1. [<sup>99m</sup>Tc]TcO<sub>4</sub><sup>-</sup> scintigraphy in the evaluation of thyroid nodules.
2. [<sup>99m</sup>Tc]Tc-MIBI scintigraphy in the assessment of hypofunctioning thyroid nodules.
3. The use of [<sup>99m</sup>Tc]Tc-MIBI in case of indeterminate cytological findings.
4. Clinical importance of 2-[<sup>18</sup>F]FDG positive thyroid nodules.

### Summary

Thyroid nodules are common incidental findings during physical examination and imaging procedures. The clinical relevance of their assessment is primarily related to the need for ruling out thyroid cancer. In this session, we will discuss the importance of [<sup>99m</sup>Tc]TcO<sub>4</sub><sup>-</sup> scintigraphy in the evaluation of thyroid nodules. Furthermore, we will present the use of [<sup>99m</sup>Tc]Tc-MIBI and 2-[<sup>18</sup>F]FDG in the characterization of biological behaviour of hypofunctioning thyroid nodules. These radiopharmaceuticals will be also mentioned in the evaluation of nodules with indeterminate cytological results. In addition, we will discuss the clinical relevance of incidentally detected [<sup>18</sup>F]FDG positive nodules.

### Key Words

[<sup>99m</sup>Tc]TcO<sub>4</sub><sup>-</sup> scintigraphy, [<sup>99m</sup>Tc]Tc-MIBI, 2-[<sup>18</sup>F]FDG PET/CT, Thyroid, Nodules