



Special Session

Oncology & Theranostics Committee

Sunday, October 18, 9:45-11:15

Session Title

Intra-Arterial and Locoregional Radionuclide Therapy

Chairpersons

Nathalie Albert (Munich, Germany)

Christophe Deroose (Leuven, Belgium)

Programme

9:45-10:05	Marnix Lam (Utrecht, Netherlands): Intra-arterial Radiopharmaceutical Therapy for Liver Tumours
10:05-10:25	Valerio Da Ros (Rome, Italy): Intra-arterial Radionuclide Therapy for Brain Tumours: Interventional Radiology and Radioprotection Aspects
10:25-10:45	Arthur Braat (Amsterdam, Netherlands): Intra-arterial Peptide Receptor Radionuclide Therapy for Meningioma
10:45-11:05	Jolanta Kunikowska (Warsaw, Poland): Locoregional Radiopharmaceutical Therapy for Brain Tumours
11:05-11:15	Discussion

Educational Objectives

1. To explain the differences between intravenous injection and other injection routes such as intra-arterial injection and locoregional injections, and the consequences of the injection route on biodistribution and absorbed dose to target and non-target tissues.
2. To provide a summary on the current clinical evidence for hepatic artery infusion of therapeutic radiopharmaceuticals.
3. To provide an overview on the current clinical evidence for delivering somatostatin receptor targeting radiopharmaceuticals intra-arterially for the treatment of meningioma.
4. To highlight the potential of locoregional radiopharmaceutical treatment for brain tumours.

Summary

This session will focus on a particular strategy in the optimisation of radionuclide therapy (with radioactive devices or radiopharmaceuticals), namely the use of alternatives to intravenous injection. Intra-arterial injection strategies will be discussed, with specific attention to the interventional radiologist aspects. Clinical results with intra-hepatic artery injection for liver tumours and intra-carotid injection for meningioma will be presented. Radioprotection aspects when working with radiopharmaceuticals in the catheterisation lab will be highlighted. Finally, intra-tumoral injection of radionuclide therapy agents in brain tumours will be summarised.

Key Words

Radionuclide Therapy; Radiopharmaceutical Therapy; Intra-Arterial Injection; Locoregional; Injection; Liver Tumour; Meningioma, Brain Tumour.