

# 6<sup>th</sup> ECMP 2026

European Congress of Medical Physics

23-26 September 2026 | Valencia | Spain



**ESMPE**  
EUROPEAN SCHOOL FOR MEDICAL PHYSICS EXPERTS

## Patient Discharge following Molecular Radiotherapy

September 23, 2026 | Valencia, Spain

### Course Description

This training programme will provide guidance on patient release following radioligand therapy (RLT) with I-131 and Lu-177. Participants will review the regulatory framework (IAEA GSR Part 3, EU BSSD 2013/59/Euratom), measurement principles, and internal dosimetry models required for discharge decisions.

The course will cover RLT workflows, operational quantities and detector selection, international and national legal requirements, and patient-specific dosimetry using SPECT/PET quantification. Mathematical derivation of release criteria based on dose constraints to third parties will be presented. The programme will address regulatory differences across EU Member States and risk communication strategies for patients and caregivers.

Practical sessions will demonstrate calculation methods for I-131 thyroid therapy and Lu-177 PSMA therapy, including exposure scenarios involving family members, caregivers, and the general public. Environmental considerations will include liquid waste management, hospital effluent models, and decay-storage requirements for regulatory compliance.

### Learning Objectives

By the end of this course, participants will be able to:

- Explain the clinical workflow of molecular and radioligand therapy and how radionuclide properties and biokinetics determine radiation protection requirements and patient release conditions.
- Apply appropriate measurement principles and instruments for patient release monitoring and interpret results in mixed beta-gamma radiation fields.
- Interpret the main international and European regulatory frameworks for patient discharge and understand the impact of differing national implementations.
- Estimate residual patient activity and potential doses to contacts using simplified and patient-specific internal dosimetry models.
- Apply discharge criteria and release formulae for typical exposure scenarios and formulate effective patient instructions and waste-management measures.

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## Faculty

- » **Stephane Chauvie** | Medical Physics Department S. Croce Hospital, Cuneo, Italy
- » **Jaroslav Ptacek** | Department of Medical Physics and Radiation Protection, University Hospital Olomouc, Olomouc, Czechia
- » **Jose Antonio Terrón** | Department of Medical Physics, Hospital Universitario Virgen Macarena, Seville, Spain
- » **Marleen Vandecapelle** | Federal Agency for Nuclear Control, Brussels, Belgium
- » **Jens Kurth** | Department of Nuclear Medicine, Rostock University Medical Center, Rostock, Germany
- » **Lara Struelens** | SCK-CEN, Belgian Nuclear Research Centre, Mol, Belgium

## Timetable

	TITLE	LECTURE
9.00–9.30	OVERVIEW AND WORKFLOW OF RADIOLIGAND THERAPY (RLT)	<b>Stephane Chauvie, Jaroslav Ptacek</b>
9.35–10.05	MEASUREMENT PRINCIPLES AND UNITS	<b>Jose Antonio Terrón</b>
10.10–11.10	INTERNATIONAL AND EUROPEAN LEGAL FRAMEWORK	<b>Marleen Vandecapelle</b>
11:10–12.10	INTERNAL DOSIMETRY	<b>Jens Kurth</b>
12.10–13.15	LUNCH BREAK – AVAILABLE AT PARTICIPANTS EXPENSE IN THE CONGRESS VENUE	
13:15–14.15	PATIENT DISCHARGE CRITERIA AND RELEASE FORMULAE	<b>Lara Struelens</b>
14.15–14.45	PATIENT INSTRUCTIONS AND INFORMATION	<b>Stephane Chauvie, Jaroslav Ptacek</b>
14.45–15.15	COFFEE BREAK – AVAILABLE AT PARTICIPANTS EXPENSE IN THE CONGRESS VENUE	
15.15–15.45	PRACTICAL EXAMPLES	<b>Stephane Chauvie, Jaroslav Ptacek</b>
15.45–16.45	ENVIRONMENTAL CONSIDERATIONS AND LIQUID WASTE MANAGEMENT	<b>Jose Antonio Terrón</b>

## Further information

	<b>Course language</b>	English
	<b>Level</b>	MPE - Level 8
	<b>Maximum no. of participants</b>	80
	<b>Duration</b>	23 <sup>rd</sup> September 2026
	<b>Study load</b>	6 hours of lectures and discussions
	<b>CPD Points</b>	Points to be confirmed (EBAMP Accreditation and Spanish certification (EVES))

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