

Materials List for:

A Whole Body Dosimetry Protocol for Peptide-Receptor Radionuclide Therapy (PRRT): 2D Planar Image and Hybrid 2D+3D SPECT/CT Image Methods

Maria Luisa Belli¹, Emilio Mezzenga¹, Valentina Di Iorio², Monica Celli³, Paola Caroli³, Elisabeth Canali³, Federica Matteucci³, Elisa Tardelli³, Ilaria Grassi³, Maddalena Sansovini³, Silvia Nicolini³, Stefano Severi³, Marta Cremonesi⁴, Mahila Ferrari⁵, Giovanni Paganelli³, Anna Sarnelli¹

¹Medical Physics Unit, Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori (IRST) IRCCS, Meldola, Italy

²Oncology Pharmacy, Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori (IRST) IRCCS, Meldola, Italy

³Nuclear Medicine Unit, Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori (IRST) IRCCS, Meldola, Italy

⁴Radiation Research Unit, Istituto Europeo di Oncologia (IEO) IRCCS, Milano, Italy

⁵Medical Physics Unit, Istituto Europeo di Oncologia (IEO) IRCCS, Milano, Italy

Correspondence to: Maria Luisa Belli at maria.belli@irst.emr.it

URL: <https://www.jove.com/video/60477>

DOI: [doi:10.3791/60477](https://doi.org/10.3791/60477)

Materials

Name	Company	Catalog Number	Comments
¹⁷⁷ Lu EndolucinBeta	ITG - Isotopen Technologien München AG, Lichtenbergstrasse 1, 85748 Garching, Germany, info@itm.ag		Radiotracer ¹⁷⁷ Lu for therapy purpose
Biograph mCT Flow PET/CT	Siemens Healthineers, Erlangen, Germany		PET/CT scanner
C-Thru ⁵⁷ Co planar flood - Model MED3709	Eckert & Ziegler, Strahlen- und Medizintechnik AG, Robert-Rössle-Str. 10, 13125 Berlin, Germany, info@ezag.de		Calibration/planar source
Cylindrical phantom with spheric insert	Data Spectrum Corporation, 1605 East Club Boulevard, Durham NC 27704-3406, US, info@spect.com		Phantom for SPECT/CT calibration
Discovery NM/CT 670 SPECT/CT	International General Electric, General Electric Medical System, Haifa, Israel		SPECT/CT scanner
GalliaPharm ⁶⁸ Ge/ ⁶⁸ Ga Generator	Eckert & Ziegler, Strahlen- und Medizintechnik AG, Robert-Rössle-Str. 10, 13125 Berlin, Germany, info@ezag.de		⁶⁸ Ge/ ⁶⁸ Ga Generator of ⁶⁸ Ga for imaging purposes
GammaVision v 6.08	Ortec, Ametek - Advanced Measurement Technology, 801 South Illinois Avenue, Oak Ridge, Tennessee 37830, US, ortec.info@ametek.com		Gamma Spectroscopy software
High Purity Germanium HPGe, model GEM30P4-70	Ortec, Ametek - Advanced Measurement Technology, 801 South Illinois Avenue, Oak Ridge, Tennessee 37830, US, ortec.info@ametek.com		Gamma spectrometer
MimVista Software	MIM Software INC, Cleveland, OH 44122, US		Workstation
OLINDA/EXM v 1.1	RADAR - RADIATION DOSE Assessment Resource, West End Ave, Nashville, TN 37235, US (now commercially available as OLINDA/EXM v 2.0, Hermes Medical Solutions, Strandbergsgatan 16, 112 51 Stockholm, Sweden, info@hermesmedical.com)		Dosimetry software

PSMA 11	ABX advanced biochemical compounds - Biomedizinische, Heinrich-Gläser- Straße 10-14, 01454 Radeberg, Germania, info@abx.de		Carrier for ⁶⁸ Ga radiotracer
PSMA 617	Endocyte Inc. (Headquarters), 3000 Kent Avenue, West Lafayette, IN 47906		Carrier for ¹⁷⁷ Lu radiotracer
Xeleris4.0	International General Electric, General Electric Medical System, Haifa, Israel		Workstation