



# RPT Dosimetry Interest Group

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## Facts and Enrollment Information

### About the RPT Dosimetry Interest Group

External radiation therapy employs advanced imaging and sophisticated treatment planning systems to arrive at optimal dose distribution and, thereby, provide the best treatment for individual patients. Similarly, appropriate assessment of the radiation doses deposited in the tumor and normal tissues is crucial for the success of targeted radiopharmaceutical therapies (RPT). Advances in imaging and biodistribution science allow new approaches to RPT treatment planning. By administration of the radionuclide dose, either pre-therapeutic (diagnostic) or the first therapeutic fraction of the cycle, and determination of the patient's residence time (a measure of how long the radionuclide is retained in the body), the total therapeutic dose can be precisely adjusted to maximize the therapeutic effect and minimize toxicity. To offer the best possible treatment, prospective treatment planning should be performed, and a patient-specific maximally tolerated therapeutic radiation dose should be used. Furthermore, dosimetry should be performed on a regular basis throughout the treatment.

### Goals

1. To develop standard operation procedures (SOPs) for RPT dosimetry
2. To support dosimetry for RPT Clinical Trials.
3. To ultimately make RPT a dosimetry-based curative treatment approach

### Current Chairperson

Emilie Roncali PhD (UC Davis, [eroncali@ucdavis.edu](mailto:eroncali@ucdavis.edu))

### Teleconference Schedule

The RPT Dosimetry Interest Group meets virtually via the Webex platform quarterly – on the 2nd Monday of March, June, September, and December at 3 pm ET.

### Activities and Accomplishments

SOPs for dosimetry of Lu-177 and Ra-223 have been developed for implementation in clinical trials through IROC & CIRO and can be accessed [here](#).

## **RPT DOSIMETRY INTEREST GROUP**

*Facts & Enrollment Information*

### Interested in becoming a member of the RPT Dosimetry Interest Group?

Please Contact the Interest Group Coordinator:

**Jacek Capala, PhD.**

Radiation Research Program National Cancer Institute

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