

**NCI Workshop on Dosimetry of Systemic Targeted Radiopharmaceutical Therapy (TRT)  
Rockville, MD, April 19-20, 2018**

**Day 1: April 19**

8:00 am      Opening Remarks  
*C. Norman Coleman, Bhadrasain (Vik) Vikram, Jacek Capala*

Presentations and Discussions

8:15 am      Current Status of TRT  
*Sara St. James & Bonnie Clarke*

- Approved treatments
- Clinical trials

9:00 am      Currently Applied TRT Dosimetry Methods/Approaches  
*Stanley Benedict & Emilie Roncali*

- Advantages and limitations of methods used in clinical practice

9:45 am      Available TRT Dosimetry Methods/Approaches  
*Bryan Bednarz & George Sgouros*

- New methods that are ready for clinical application
- The advantage over the methods currently used in the clinic
- How they might improve the clinical outcome?
- The reasons they are not used

10:30 am      Break

10:45 am      TRT Dosimetry Methods/Approaches under Development  
*Yuni Dewaraja, Wesley Bloch, Roger Howell*

- The advantage over the methods that have been already developed
- How they might further improve the clinical outcome?
- What are the simplest possible methods to reduce the stress of going through additional procedures before already very difficult TRT?

11:30 am      Desired SRT Dosimetry Methods/Approaches  
*Daniel Pryma & Richard Wahl*

- A visionary presentation of a clinician's wish list
- Expected improvements of the outcome

12:15 pm      Lunch and Poster Session

- 1:30 pm Panel Discussion  
*Pat Zanzonico, Ying Xiao, Stanley Benedict, George Sgouros*
- What are barriers to introduction of robust radiation dosimetry methods to TRT?
  - What is the best strategy to overcome them and demonstrate that dosimetry for TRT will improve patient care?
  - Design of relevant clinical trials

3:00 pm Break

3:15 pm Good dosimetry practices  
*Eric Frey*

Dosimetry Needs and Methods for TRT using:

4:00 pm I-131  
*Steve Larson & Joe Grudzinski*

4:30 pm Y-90  
*Yuni Dewaraja, Emilie Roncali, Mark Madsen*

5:00 pm Lu-177  
*Yuni Dewaraja & Eric Frey*

5:30 pm Sm-153  
*Robert Hobbs*

## **Day 2: April 20**

8:00 am Alpha emitters-specific dosimetry issues (overview)  
*George Sgouros*

Dosimetry Needs and Methods for TRT using:

8:30 am Ra-223  
*John Humm*

9:00 am Pb-212  
*Michael Ghaly & Mark Madsen*

9:30 am Ac-225  
*Saed Mirzadeh & David Morse*

10:00 am Break

10:30 am Bi-212  
*George Sgouros*

11:00 am At-211  
*Gamal Akabani*

11:30 am Th-227  
*Wesley Bloch*

12:00 pm Meeting summary and discussion of the resulting publications  
*Jacek Capala & Stanley Benedict*