

What We Offer

We offer comprehensive centralized imaging and dosimetry solutions for data acquired at one or more institutions participating in a multi-center trial of a radiopharmaceutical therapeutic or diagnostic agent.

CONSULTING: IMAGE ACQUISITION

- Number of time points
- Acquisition duration
- Collimator
- Energy window
- Calibration
- Multi-center standardization

CENTRALIZED DOSIMETRY

- Standard phantom and voxelized patient specific
- Normal organ and tumor dosimetry
- Diagnostic or therapeutic radionuclides
- Consistent with MIRD Committee and ICRP guidelines.
- Experts at incorporating special considerations associated with α -emitter dosimetry

CENTRALIZED QUANTITATIVE RECONSTRUCTION

- Methods that are independent of camera manufacturer
- Advanced compensation for scatter, downscatter, crosstalk from daughter radionuclides
- Advanced compensation for collimator response including septal penetration and scatter
- Advanced partial-volume compensation
- Experience with diagnostic radionuclides including Tc-99m, I-123, In-111, Tl-201
- Experience with therapeutic radionuclides including I-131, Y-90, Lu-177, Ra-223, Th-227, Pb-212
- Methods that are extensible to very challenging radionuclides (e.g., α -particle emitters)

RADIOBIOLOGICAL ANALYSIS OF DOSIMETRY RESULTS

- Relate dosimetry to tumor control probability and to potential normal tissue toxicity
- Perform dose-rate adjustment to relate radiopharmaceutical doses to radiotherapy experience
- Use of application-specific RBE value for α -particle emitters

SECURE IMAGE & DATA TRANSFER

DETAILED, FDA-READY REPORTS

- Exact description of methodology and results, including input data, assumptions used in the calculations

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