Clinical Trials Network

Expertise. Vision. Results.

CTN Co-Chairs:
Michael M. Graham, PhD, MD
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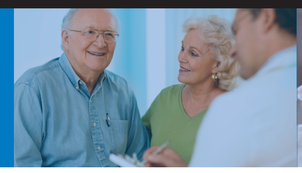
Facilitating the effective use of molecular imaging biomarkers in multicenter clinical trials



SNM
Advancing Molecular Imaging and Therapy

Our Mission

SNM's Clinical Trials Network (CTN) has the specialized knowledge and capabilities to help the pharmaceutical community effectively use molecular imaging agents in multicenter clinical trials.

Goals of the CTN

- Provide an international registry of sites that have the ability to provide standardized, harmonized molecular imaging date to support therapeutic trials.
- Organize a registry of manufacturers to improve production of and access to molecular imaging biomarkers.
- Promote faster, more cost-effective drug development to speed access to patients.
- Increase the availability and performance of imaging biomarkers for clinical use.

CTN Validated Scanners worldwide: 131

CTN Numbers at a Glance

131
Validated PET/CT Scanners

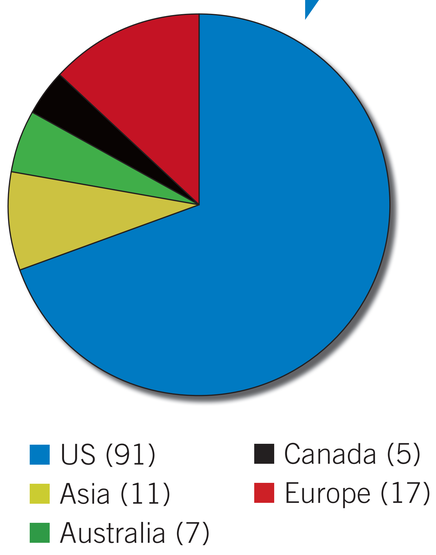
95
Sites with Validated PET/CT Scanners

27
PET/CT Scanners Undergoing Validation

19
Sites Undergoing Scanner Validation

29
Fully Qualified Sites

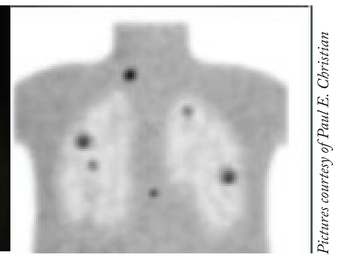
28
Countries Represented in the CTN Registries



The CTN Phantom Program

Experience Matters. SNM's extensive history of testing nuclear medicine imaging quality, combined with a leadership team that possesses 40+ years of clinical experience, gives you the confidence to know your site will receive a rigorous evaluation process. The Clinical Trial Network's (CTN) unique phantom testing program compares image quality and quantitative measurements at data densities and image noise that are similar to clinical imaging conditions and count rates.

April 2011: 100th scanner validated in CTN Phantom Program
▶ see feature article: Aunt Minnie (April 26, 2011)



Pictures courtesy of Paul E. Christian

Left: CTN chest oncology phantom
Right: mock chest lesions

The CTN PET/CT chest oncology phantom (clinical simulator) assesses:

- Acquisition protocol
  - Accuracy of dose
  - Reconstruction/filter
- MD visual assessment
  - Lesion detectability
  - SUV accuracy
- Image quality
  - Attenuation correction
  - PET/CT alignment
  - Image noise
  - Image contrast
- DICOM Compatibility

Clinical Imaging Site Orientation and Education Program

Education is the vital link in promoting standardization of molecular imaging. Developed by molecular imaging technologists and investigators experienced in performing multicenter clinical research protocols, the CTN's educational programming offers specialized training necessary for imaging to meet required research standards and conformity.

The current list of CTN courses include:

- Source Documentation in Clinical Trials
- The Language of Clinical Trials
- Introduction to GCP and 21 CFR312
- Adverse Events and Serious Adverse Events
- Vital Signs, ECG and Other Physical Measurements in Clinical Trials
- The Importance of Following the Protocol in Clinical Trials
- Quality Control for Standardized Clinical Trials
- The Importance of SOPs in Clinical Trials
- A Close-up Look at the 1572: The Investigator's Responsibilities
- Pharmacokinetic Sampling: Blood and Urine Collection
- RECIST and Other Response Measurement Criteria
- Conflict of Interest: Financial and Otherwise
- The Institutional Review Board (IRB)
- Site Inspections: Are You Ready?
- Phases of Drug Development

Recorded webinars and courses are available at
www.snm.org/learningcenter