RSNA QIBA
Open Image Archives Requirements Project

FDG-PET User Requirements Gathering Session

October 21, 2011
Goal

• RSNA needs to begin utilizing an Open Image Archive (OIA) to store, organize, and disseminate important imaging datasets.

• Understanding individual project requirements is critical to getting this right.

• The goal for this session is to walk through OIA requirements categories and capture FDG-PET priorities and needs.
OIA Requirements Categories

• **Archive Representation and Input**
  – Sheet 3: Data Acquisition
  – Sheet 1: Data Model
  – Sheet 2: Metadata

• **Archive Functionality**
  – Sheet 7: View/Query/Analyze
  – Sheet 4: Business Analytics and Metrics

• **Additional Areas**
  – Sheet 6: Computing Environment
  – Sheet 5: Workflow
  – Sheet 8: Regulatory Aspects
  – Sheet 12: Performance
  – Sheet 14: Availability/Reliability
  – Sheet 16: Accessibility/Usability
  – …
Notes

• Current Approach
  – Using ftp, mail CDs, ... paper

• Clinical trials
  – CTN Server: Keosys - supports image archives in a clinical trial situation
  – Imaging CROs have their own archives.
Notes

• DICOM support is important
• Additional data needs
  – Need info about a study
  – Blood glucose levels
  – Output of any analysis
  – Scanner QA Information
  – CRF for patient data
  – ROIs as well as statistics
  – Listing DICOM header information
Notes

• General
  – Ease of being to look at and view data using dicom tools
  – Have suggested formats for non-imaging data (metadata)
  – May have a need for non-dicom data (e.g. saving ROIs)
  – Have the ability to associate image annotations with base imagery
  – Cross-platform support
Notes

• Viewing/Querying/Analyzing
  – Clustering of information associated with a study/experiment
  – Ability to query for image/metadata attributes
  – Searching different radio-isotopes
  – Having documentation is important