Steps in FDG-PET/CT Process:

Presumptions:
Primary FDG-PET analysis with semiquantitative (SUV) measurements
CT portion of PET/CT used as attenuation correction map only

Subject Preparation
Imaging Procedure
Image Post-Processing
(Media Transfer/Receipt)
Image Analysis and Interpretation – as outlined below

[Image quality assessment to confirm correctness and completeness of image submission]
Image set loaded to Reader (Physician performing Image Analysis) worklist
Reader selects worklist task
Digital image datasets within assigned timepoint opened for display
(Timepoint exams defined by charter re: exam types and dates of inclusion)
Reader performs review of imaging exams within defined timepoint
For standard oncology trial, Baseline only timepoint is reviewed first
Reader iterates with software application to identify lesions and perform lesion analysis
   Target lesion identification and analysis
   Non-target lesion identification +/- analysis (or comments)
Lesion analysis performed by providing measurement object as separate file
Label lesion
Capture metadata generated from measurement object
Repeat Target +/- Non-target lesion identification/analysis as defined by imaging charter
Close subtask
@Open next timepoint for given subject
Review next ‘on-study’ timepoint with prior timepoints
Perform lesion analysis on current timepoint to correspond to lesions identified before
Identify presence/absence of New lesions
 Derive change metrics for lesions +/- lesion group (e.g. target lesions)
 Determine response assessment as defined by imaging charter
 (Evaluate covariates and other possible sources of technical variation for assessment of
 affect likelihood upon response assessment)*
Close subtask
Continue same workflow (from @) until all timepoints reviewed for given subject

*This represents several separate QC checks which may be performed at different ‘steps’

QIBA_FDGPET_ICL.imageanalysis
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