

Supplementary Figures

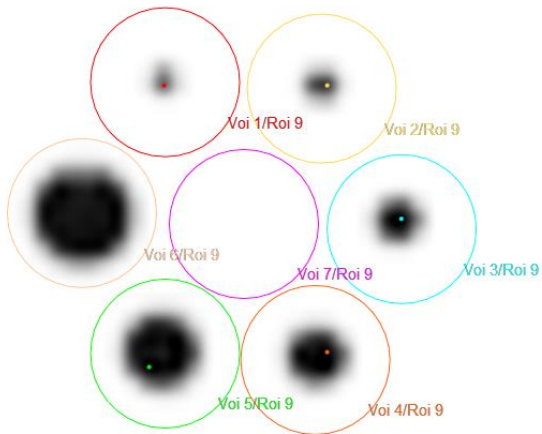


Figure S1: Image show VOI placement. Each circle represents a 5.5 cm diameter spherical VOI placed so as to include virtually all the activity emanating from the enclosed physical sphere in spite of partial volume affects. Activity concentrations within the spheres were calculated by dividing the total activity measured within each VOI by the volume of the physical sphere corrected for any small air bubbles.

Figure S2: Video showing placement of ROIs in projection space.

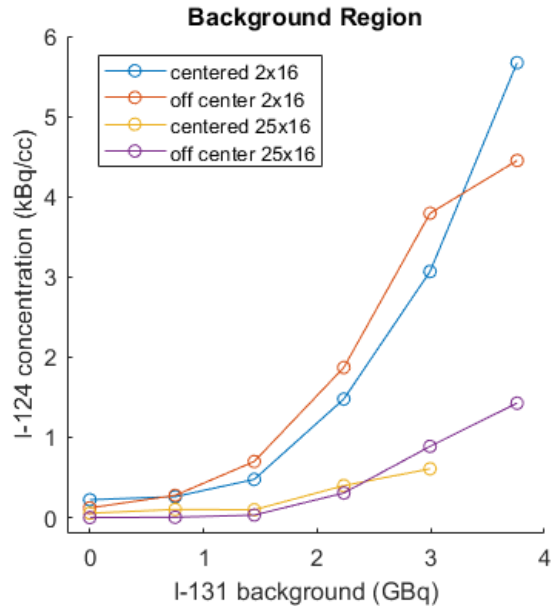


Figure S3: Background activity measured on the ^{124}I PET image of the NEMA IEC phantom reconstructed with the OSEM algorithm with 2 and 25 iterations, as a function of increasing activity of ^{131}I in the background and for the phantom centered and off centered in the field of view.

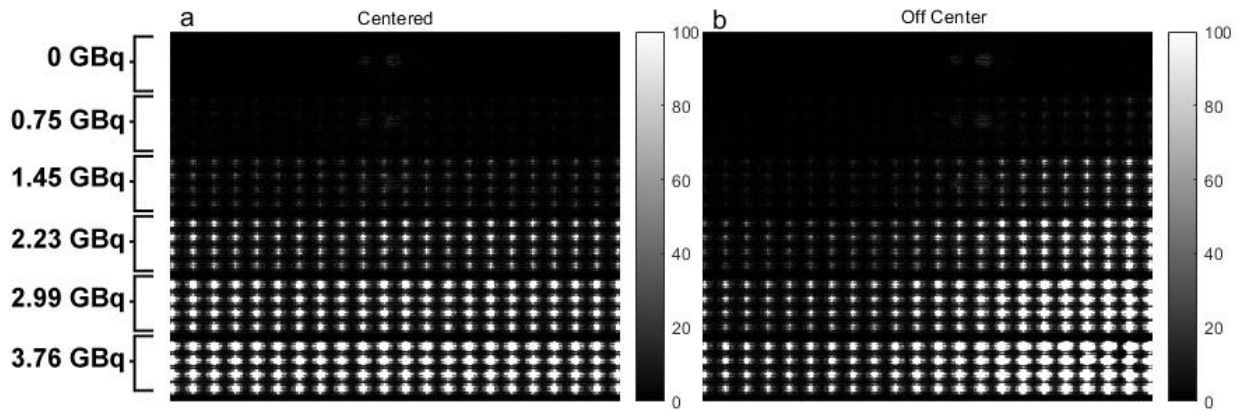


Figure S4: Projection image of the number of prompts for increasing ^{131}I activity, for centered (A) and off-centered (B) acquisition.