SUPPLEMENTAL FIGURE 1. GATE Monte Carlo simulated count rates. **A.** Measured and simulated single count rates from ^{18}F source for optimized digitizer model. **B.** Simulated and measured prompt coincidence rate from a ^{18}F source for optimized digitizer model. **C.** Simulated coincidence rate from 100 kBq ^{18}F for increasing activity of ^{177}Lu present in the phantom volume for a narrow and wide energy window. **D.** Simulated coincidence rate when 3 mm Rose metal shield phantom in C) for narrow and wide energy window.