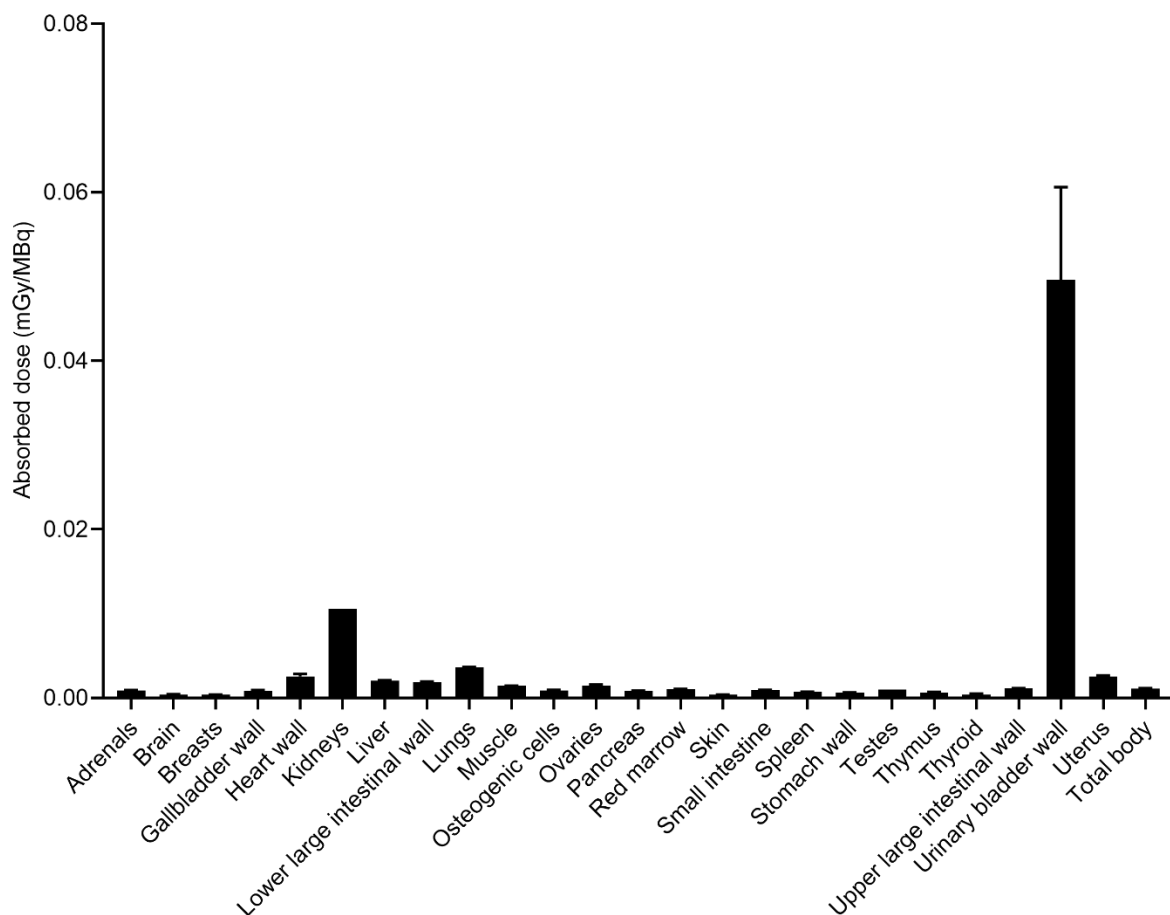
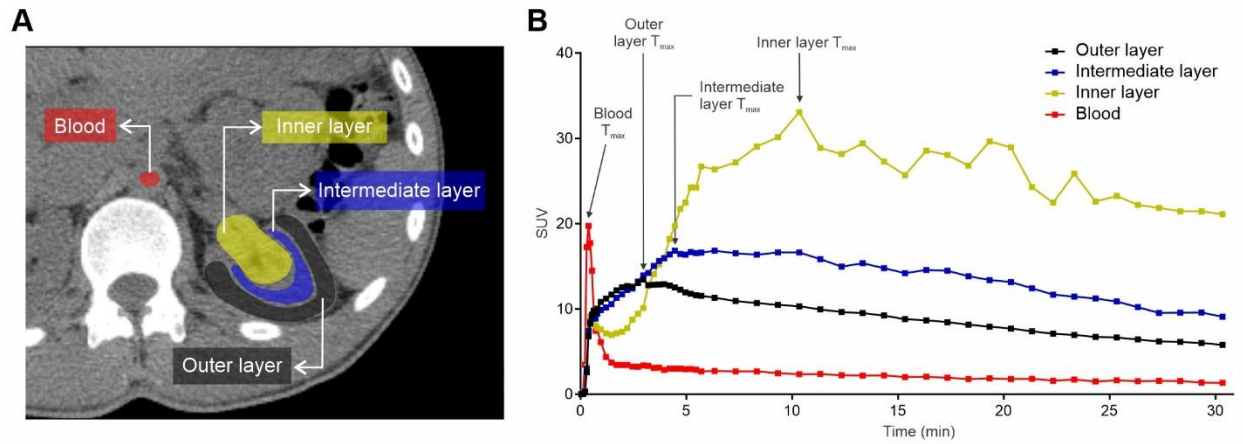




Supplemental Figure 1. Organ-absorbed doses. Data represented as mean $\pm$ SD.



Supplemental Figure 2. Data analysis. (A) Representative axial CT slice from a human subject localized over the right kidney shows the representative volumes of interest (VOIs) that were drawn for on five consecutive sections for analysis. (B) Time-activity curves for ^{11}C -PABA were derived from the three-dimensional VOIs encompassing the abdominal aorta, renal cortex (outer layer), renal pelvis (inner layer), and the intermediate layer for both right and left kidneys.

Supplemental Table 1. Time-Integrated Activity Coefficients (TIAC). Data represented as mean $\pm$ SD.

Site	TIAC (h)
Brain	0.001 $\pm$ 0.0002
Heart	0.006 $\pm$ 0.0012
Lungs	0.011 $\pm$ 0.0018
Liver	0.008 $\pm$ 0.0018
Muscle	0.077 $\pm$ 0.0265
Large intestine	0.001 $\pm$ 0.0001
Bladder wall	0.031 $\pm$ 0.0061
Bladder contents	0.146 $\pm$ 0.0000
Kidneys	0.011 $\pm$ 0.0006
Bone marrow	0.004 $\pm$ 0.0004
Remainder of Body	0.014 $\pm$ 0.0038

Supplemental Table 2. Absorbed dose estimates. Data represented as mean $\pm$ SD.

Site	Estimate (mGy/MBq)
Adrenals	0.0009 $\pm$ 0.00002
Brain	0.0004 $\pm$ 0.00002
Breasts	0.0004 $\pm$ 0.00003
Gallbladder wall	0.0008 $\pm$ 0.00008
Heart wall	0.0026 $\pm$ 0.00029
Kidneys	0.0106 $\pm$ 0.00000
Liver	0.0020 $\pm$ 0.00006
Lower large intestinal wall	0.0019 $\pm$ 0.00009
Lungs	0.0037 $\pm$ 0.00002
Muscle	0.0014 $\pm$ 0.00003
Osteogenic cells	0.0009 $\pm$ 0.00006
Ovaries	0.0015 $\pm$ 0.00011
Pancreas	0.0008 $\pm$ 0.00006
Red marrow	0.0011 $\pm$ 0.00001
Skin	0.0004 $\pm$ 0.00003
Small intestine	0.0009 $\pm$ 0.00003
Spleen	0.0007 $\pm$ 0.00002
Stomach wall	0.0006 $\pm$ 0.00005
Testes	0.0010 $\pm$ 0.00001
Thymus	0.0006 $\pm$ 0.00008
Thyroid	0.0004 $\pm$ 0.00009
Upper large intestinal wall	0.0011 $\pm$ 0.00001
Urinary bladder wall	0.0496 $\pm$ 0.01103
Uterus	0.0025 $\pm$ 0.00014
Total body	0.0011 $\pm$ 0.00006