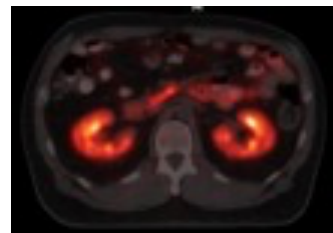
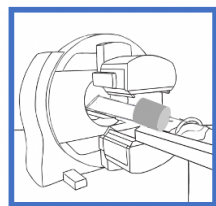


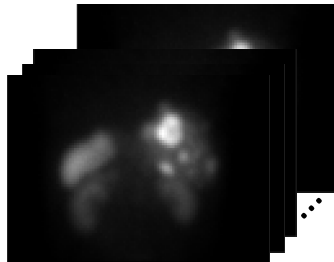
DATA GENERATION

Virtual patient:
True activity/density map
(from Ga-68 PET/CT)



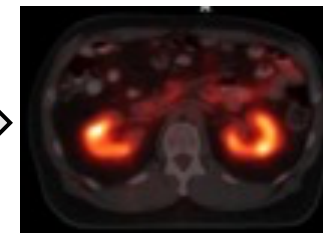
MC Simulation
of Phantom +
SPECT Camera

Simulated
Lu-177 SPECT
projections

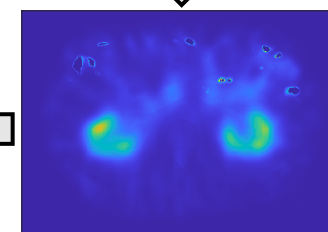


SPECT
Reconstruction

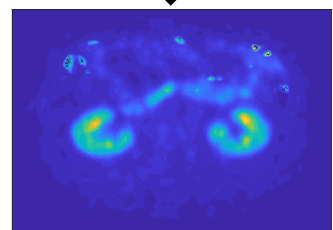
Virtual patient
Lu-177 SPECT/CT



DVK
Convolution
with Density
Correction

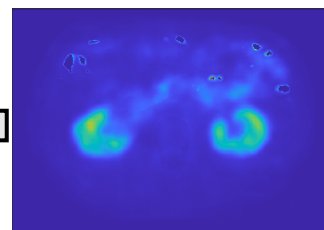


Monte Carlo
Dosimetry Code



True Dose-rate
map

Loss



CNN SPECT/CT
Dose-rate map

Residual Learning

Add
up

CNN
(DblurDoseNet)

Update

TRAINING

DVK SPECT/CT
Dose-rate map