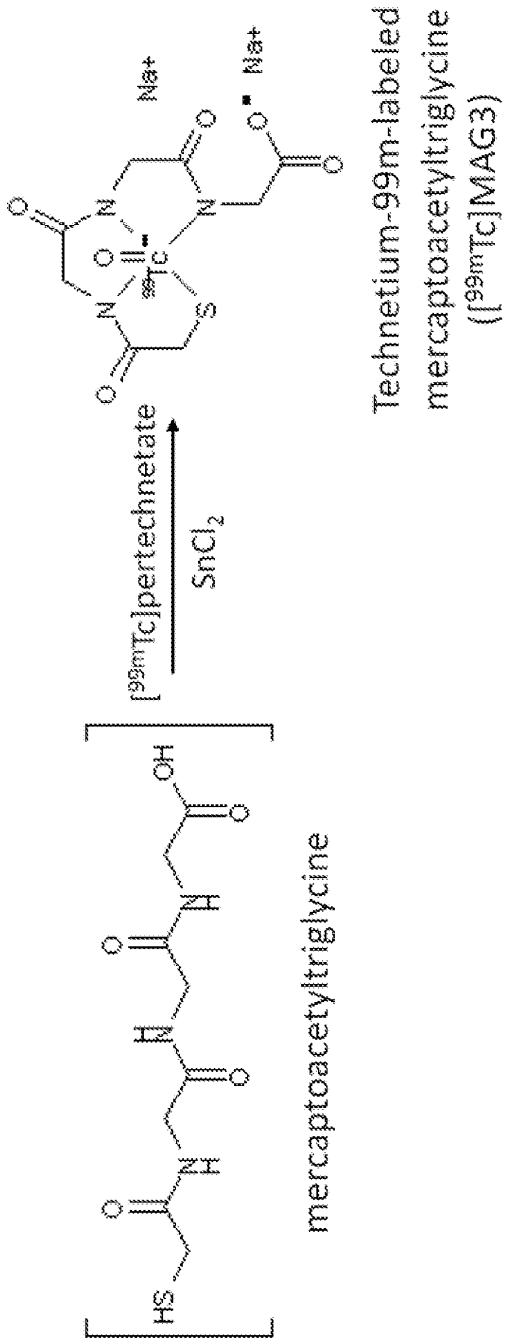

mercaptoacetyltriglycine
[99mTc]pertechnetate
SnCl2
Technetium-99m-labeled
mercaptoacetyltriglycine
([99mTc]MAG3)
Na+
Na+

FIG. 1

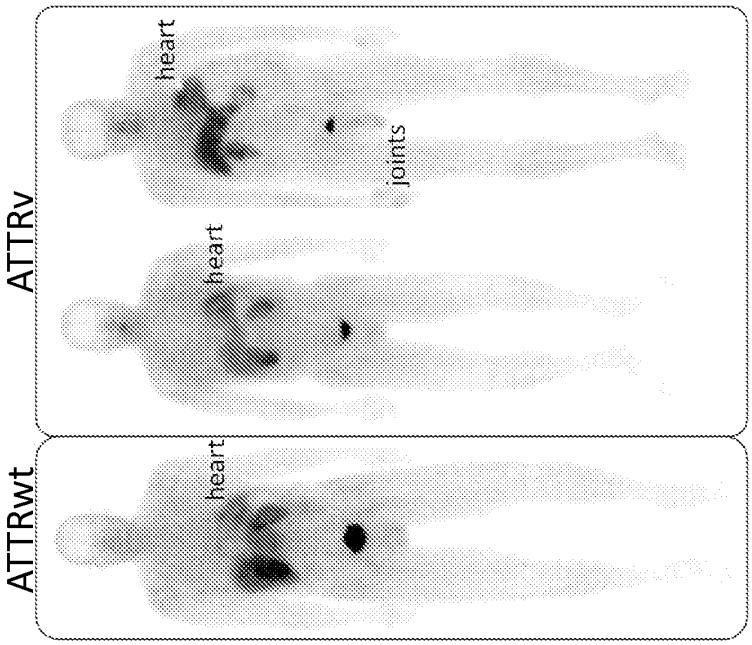

ATTRwt
heart
ATTRv
heart
heart
joints

FIG. 2B

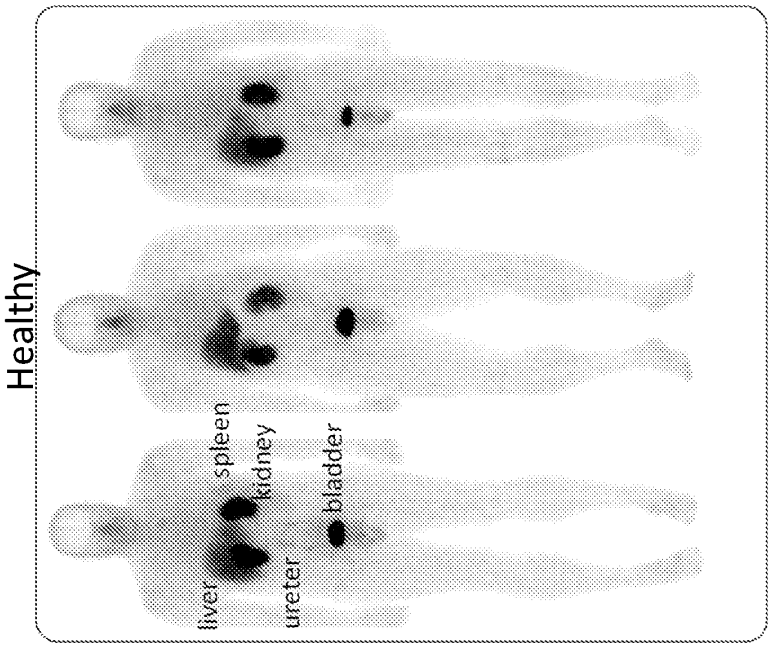

Healthy
liver
spleen
kidney
ureter
bladder

FIG. 2A

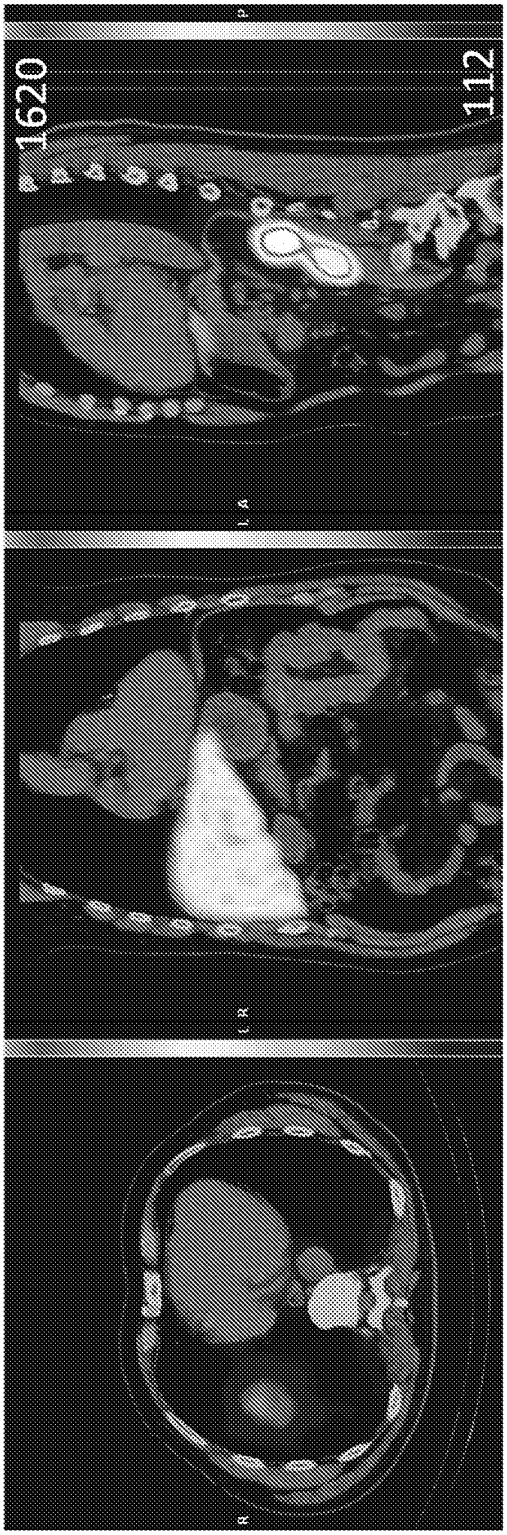


FIG. 3C

FIG. 3B

FIG. 3A



FIG. 4C

FIG. 4B

FIG. 4A

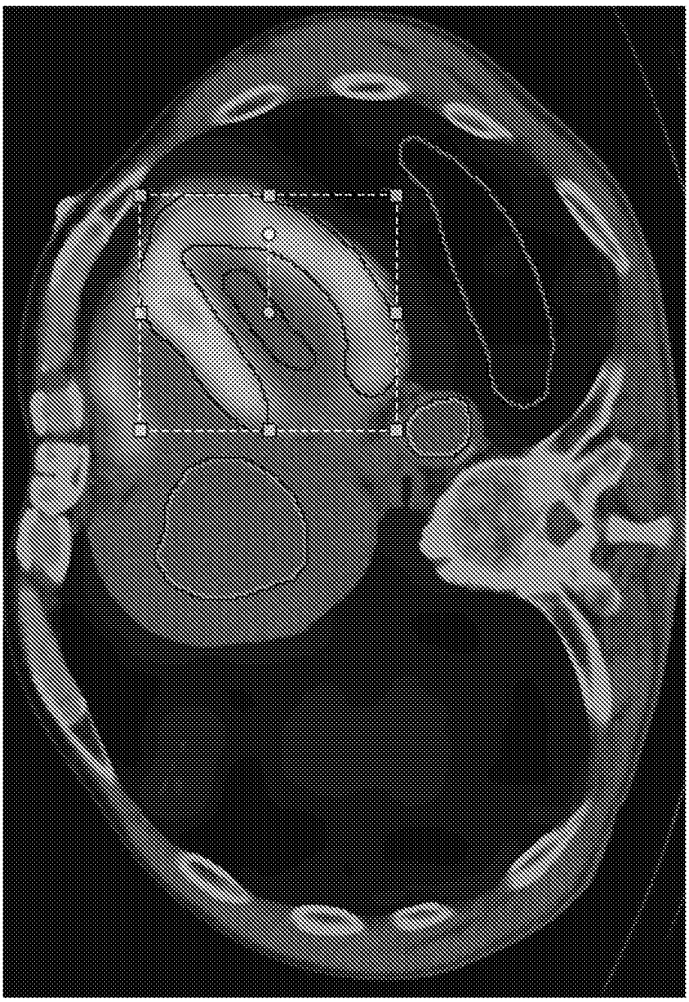


FIG. 5

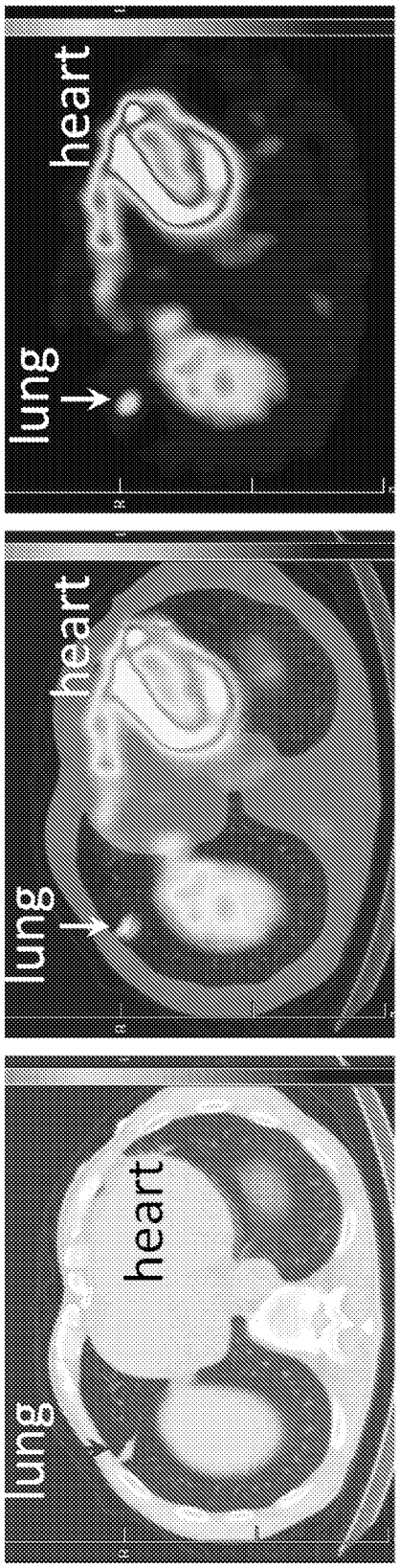


FIG. 6

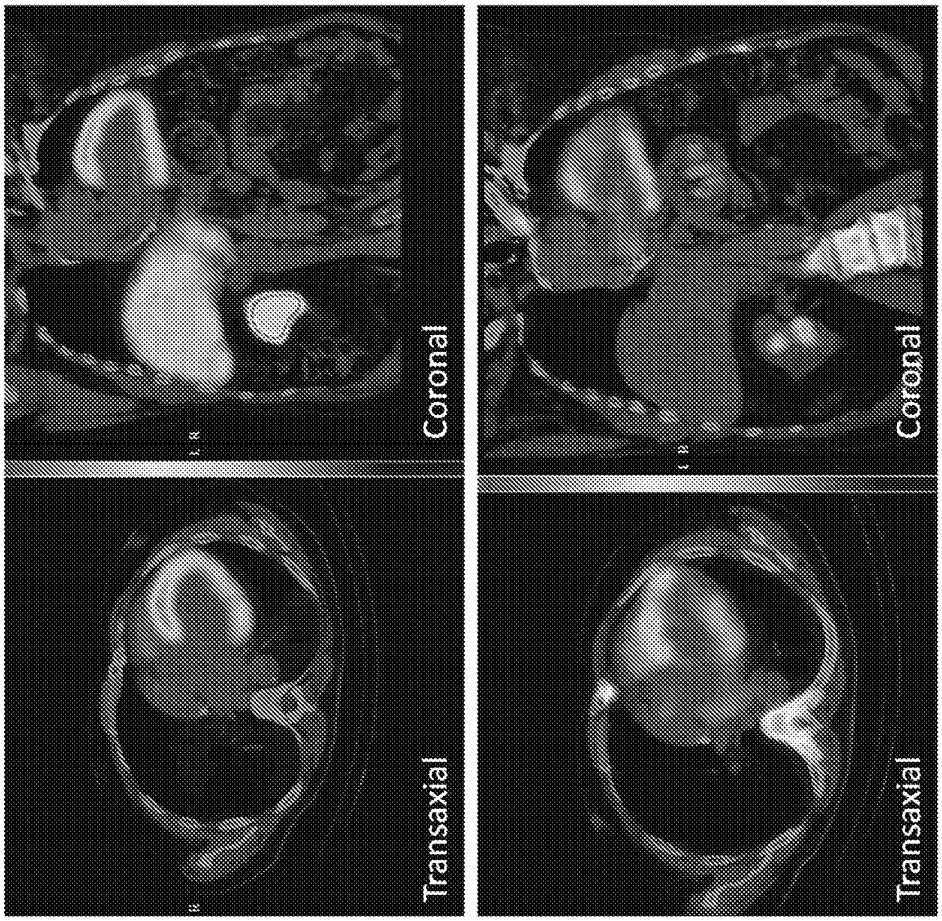

Transaxial
Coronal
Transaxial
Coronal
^{99m}Tc-p5+14
^{99m}Tc-PYP

FIG. 7

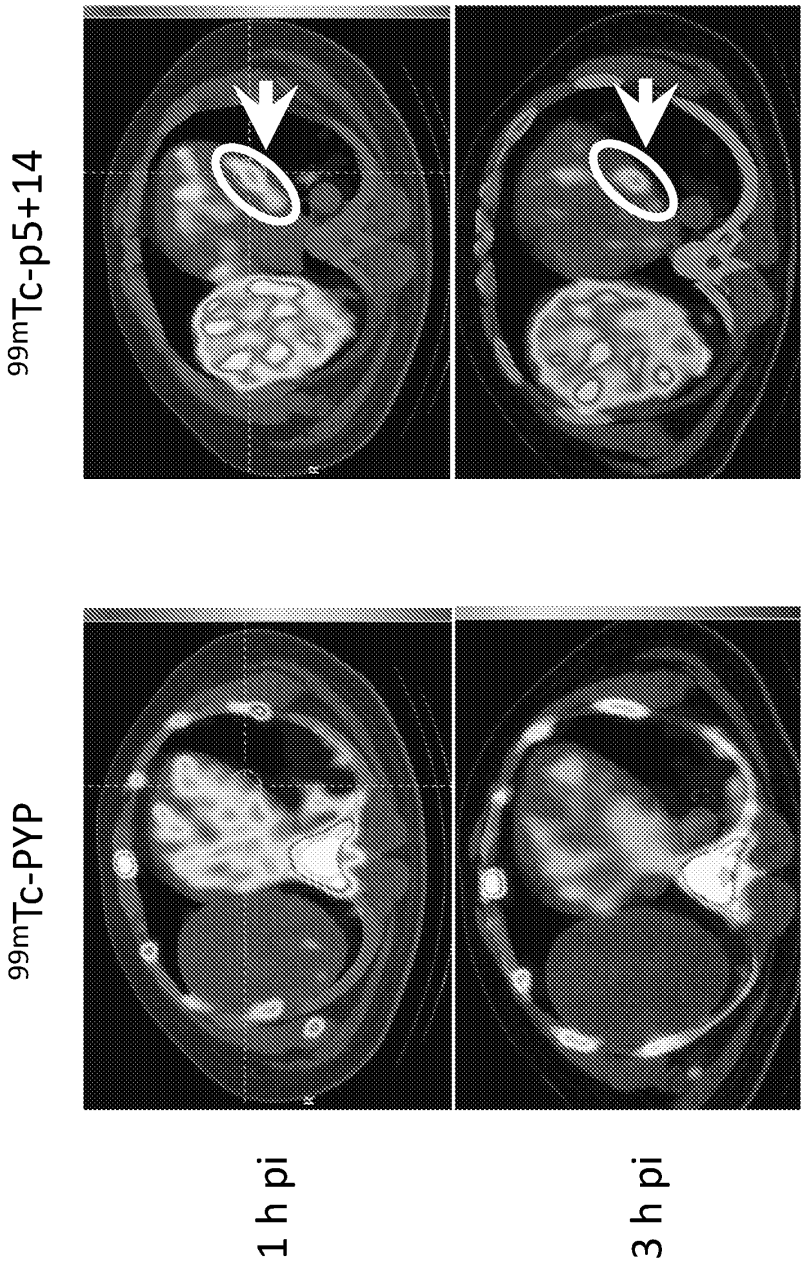


FIG. 8

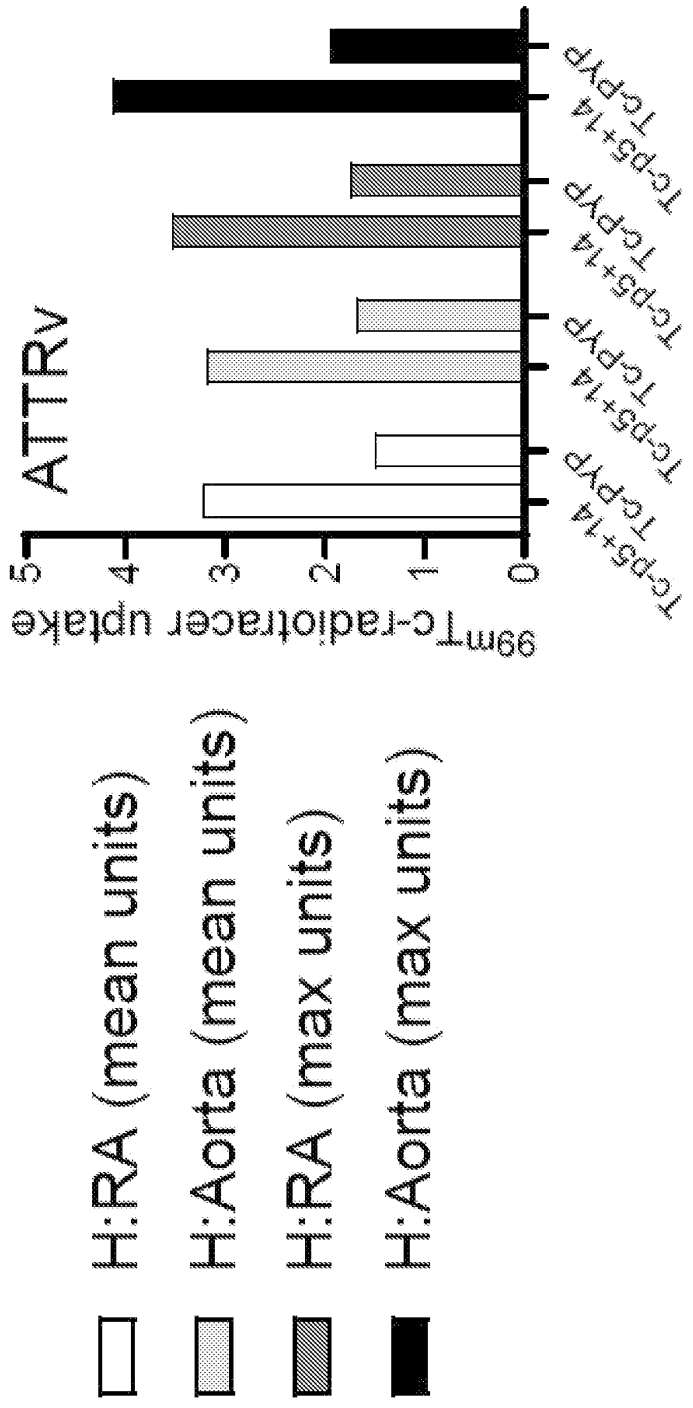

ATTRv
99mTc-radiotracer uptake
0
1
2
3
4
5
Tc-PD5+1A Tc-PYP
Tc-PD5+1A Tc-PYP
Tc-PD5+1A Tc-PYP
Tc-PD5+1A Tc-PYP
H:RA (mean units)
H:Aorta (mean units)
H:RA (max units)
H:Aorta (max units)

FIG. 9A

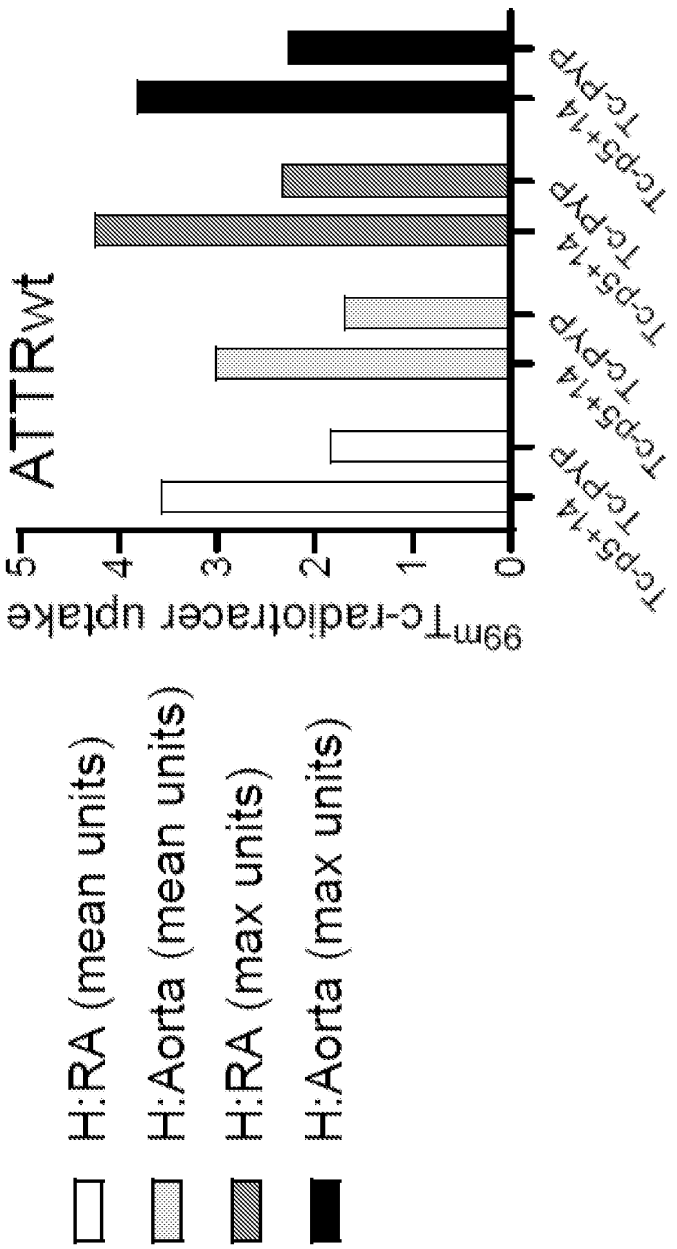

ATTRwt
99mTc-radiotracer uptake
0
1
2
3
4
5
Tc-PD5+1A Tc-PYP
Tc-PD5+1A Tc-PYP
Tc-PD5+1A Tc-PYP
Tc-PD5+1A Tc-PYP
H:RA (mean units)
H:Aorta (mean units)
H:RA (max units)
H:Aorta (max units)

FIG. 9B

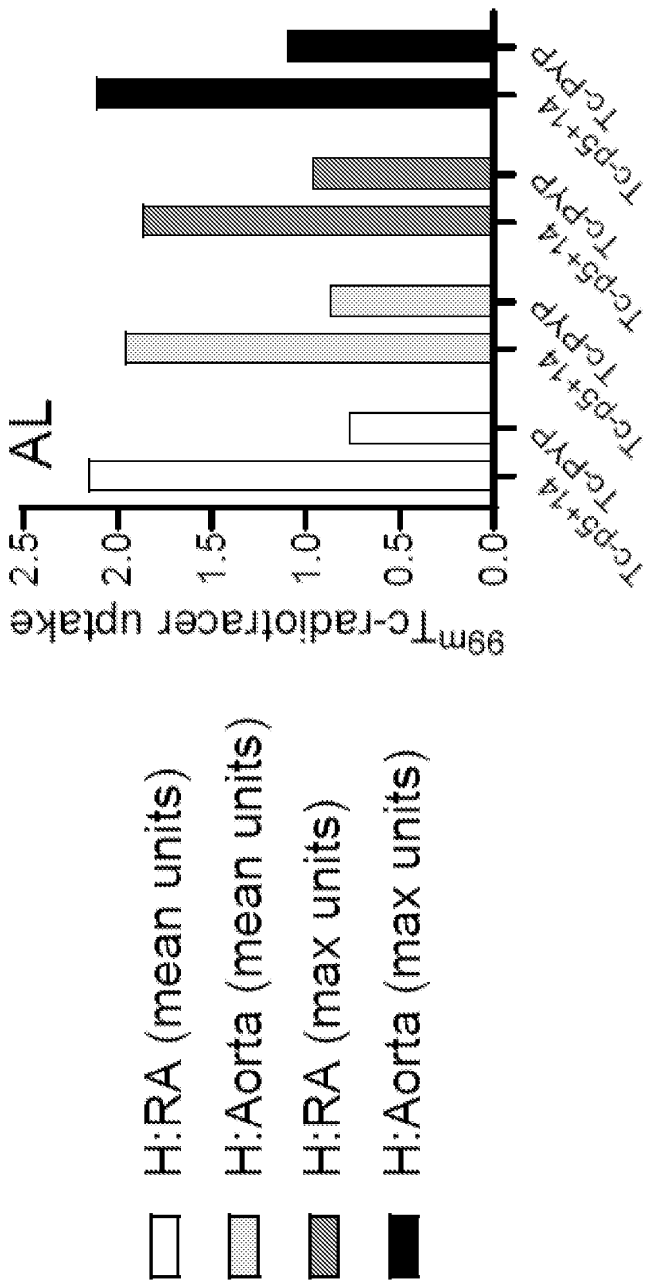

AL
99mTc-radiotracer uptake
2.5
2.0
1.5
1.0
0.5
0.0
TC-P5+14 TC-PYP
TC-P5+14 TC-PYP
TC-P5+14 TC-PYP
TC-P5+14 TC-PYP
H:RA (mean units)
H:Aorta (mean units)
H:RA (max units)
H:Aorta (max units)

FIG. 9C

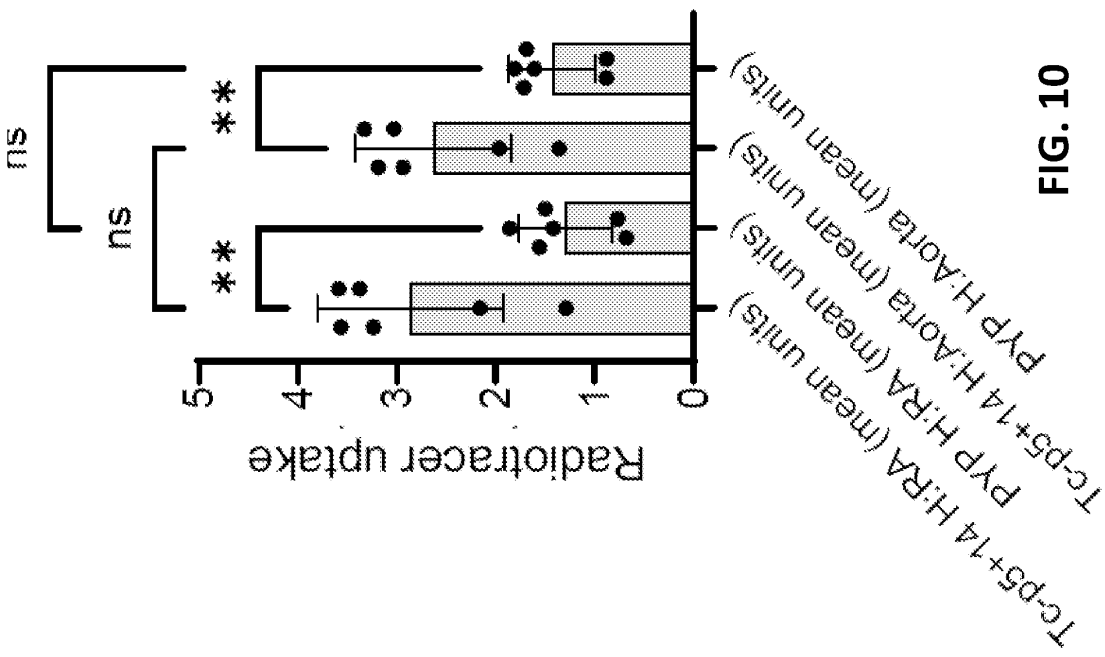

Radiotracer uptake
0
1
2
3
4
5
**
**
ns
ns
Tc-P5+14 H.RA (mean units)
PYP H.RA (mean units)
Tc-P5+14 H.Aorta (mean units)
PYP H.Aorta (mean units)

FIG. 10

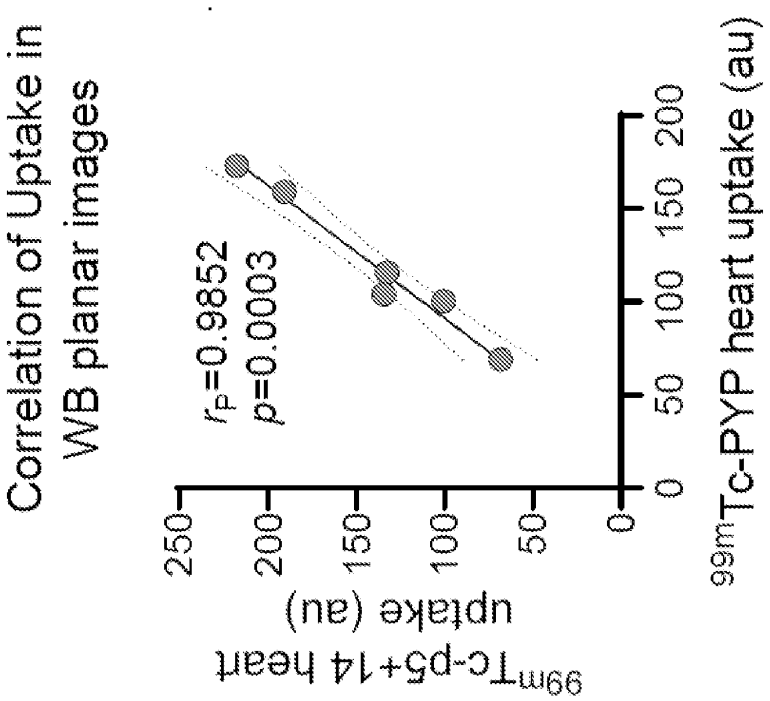

Correlation of Uptake in WB planar images
r_P=0.9852
p=0.0003
^{99m}Tc-p5+14 heart uptake (au)
^{99m}Tc-PYP heart uptake (au)
0
50
100
150
200
250

FIG. 11A

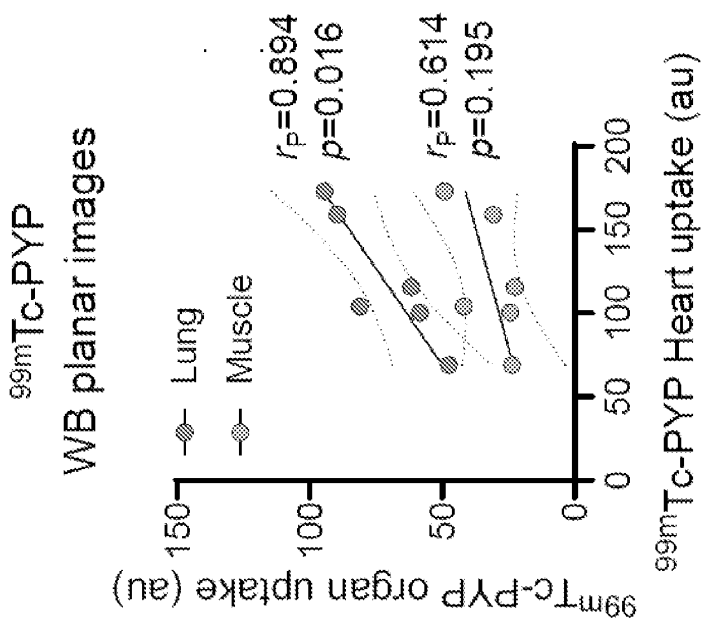


FIG. 11C

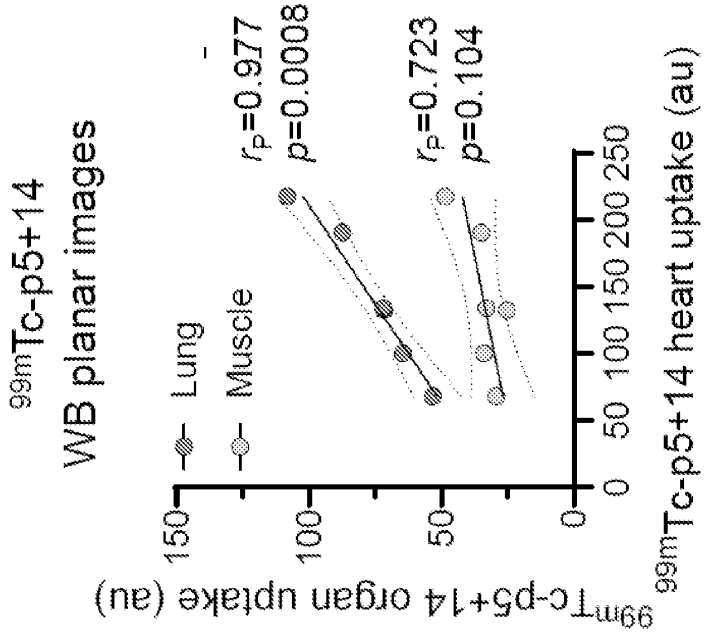


FIG. 11B

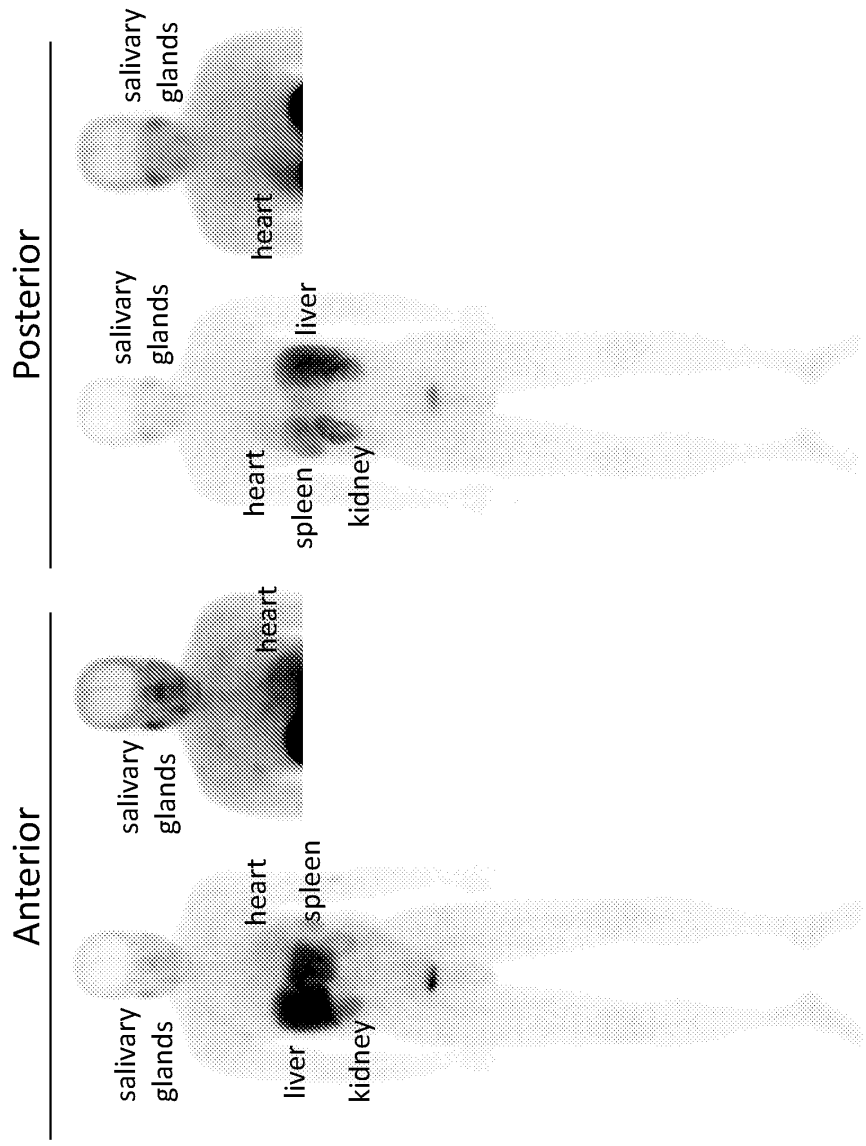

Anterior
Posterior
salivary glands
heart
liver
spleen
kidney
salivary glands
heart
liver
spleen
kidney
salivary glands
heart
salivary glands
heart

FIG. 12

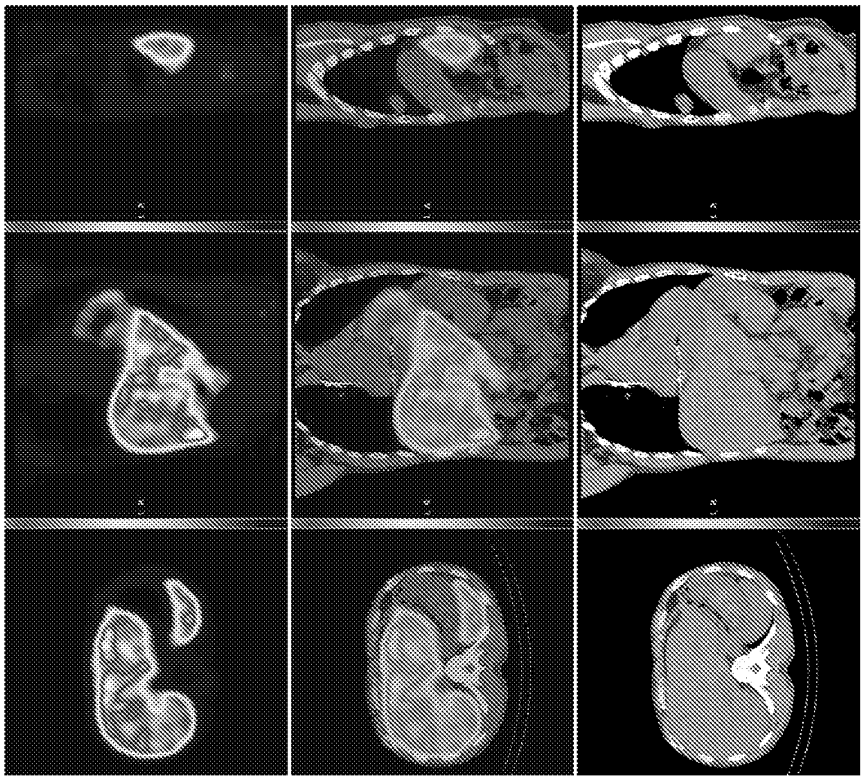


FIG. 13

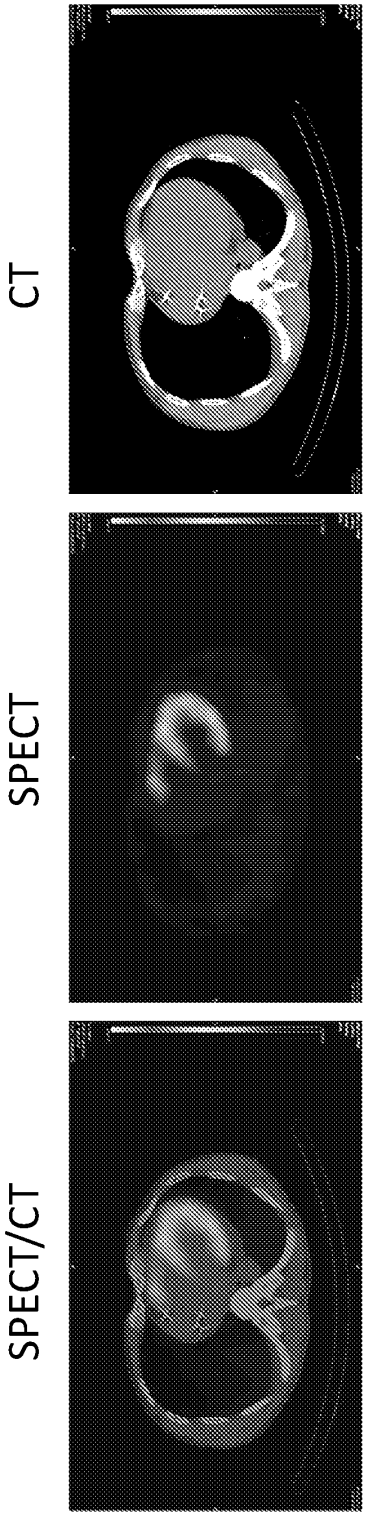


FIG. 14

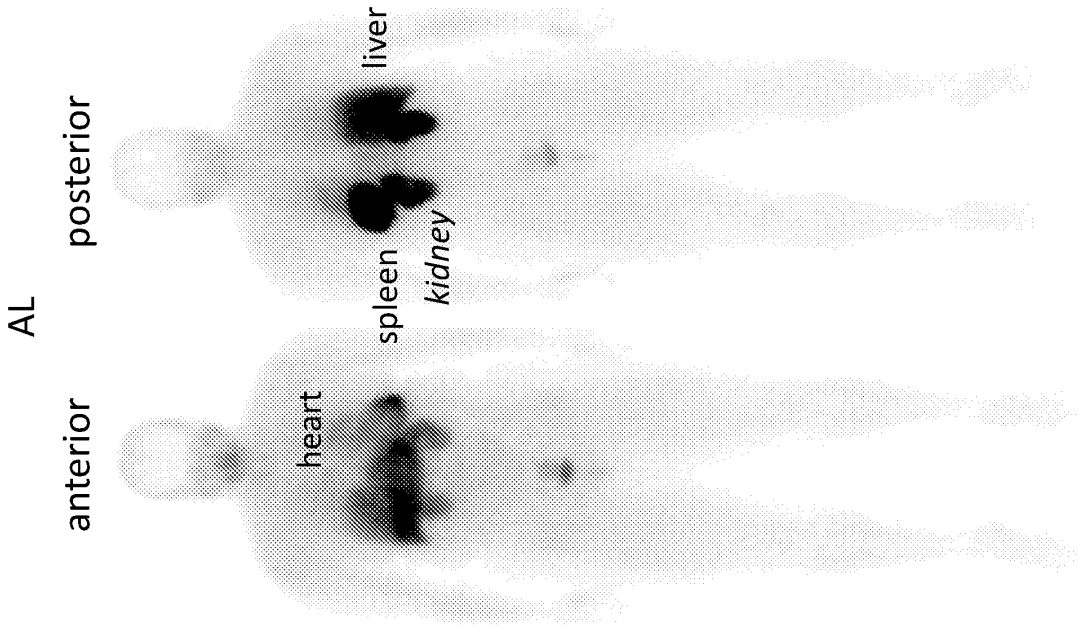


FIG. 15A

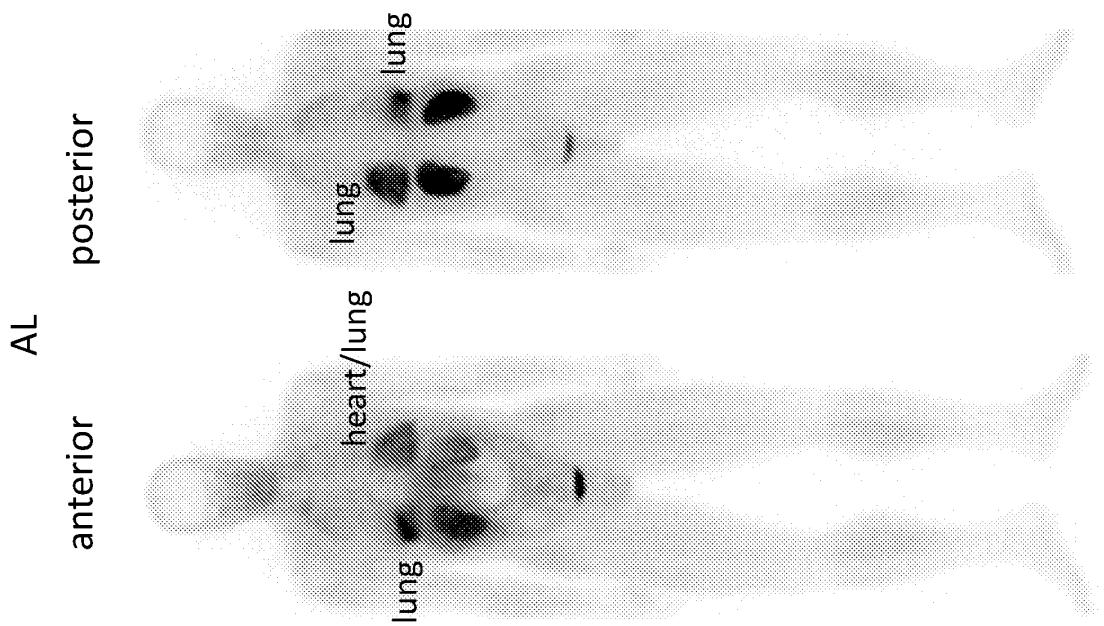


FIG. 15B

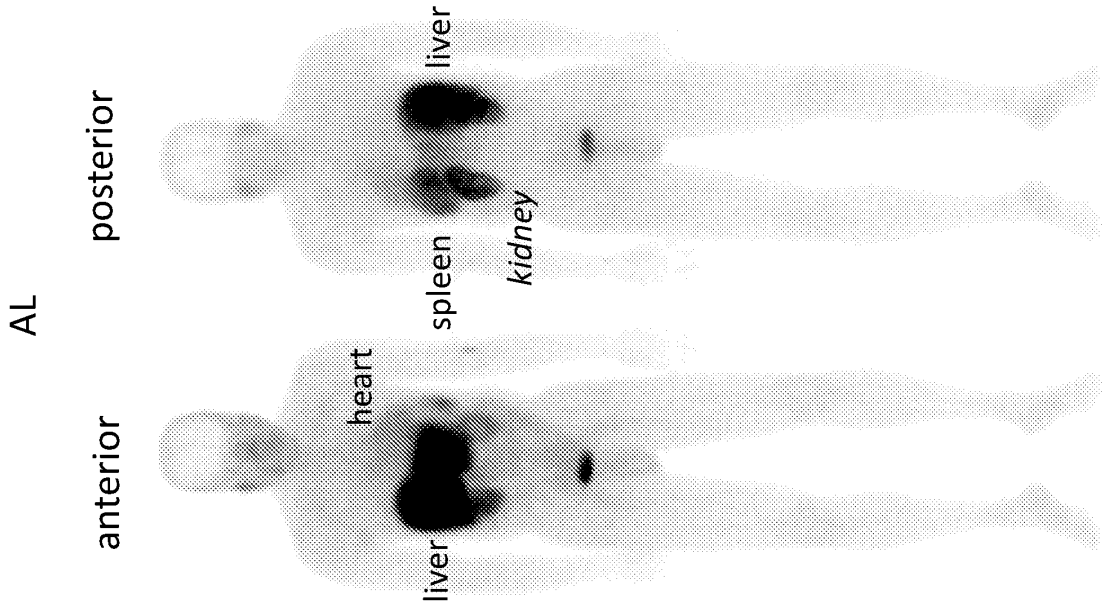


FIG. 15C

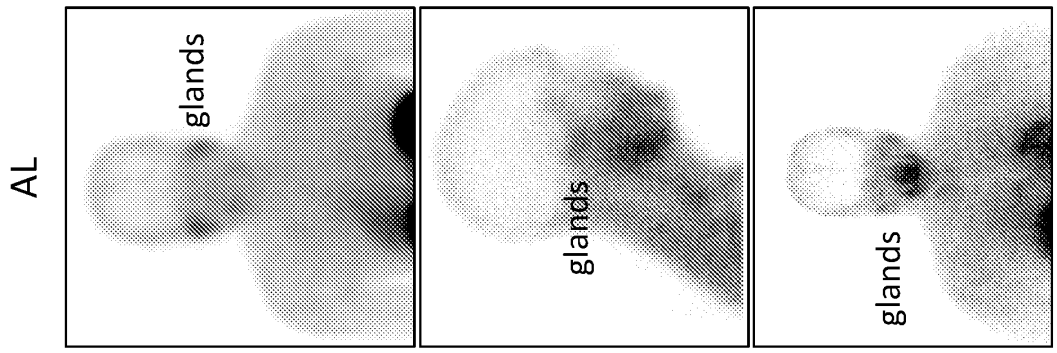


FIG. 15D

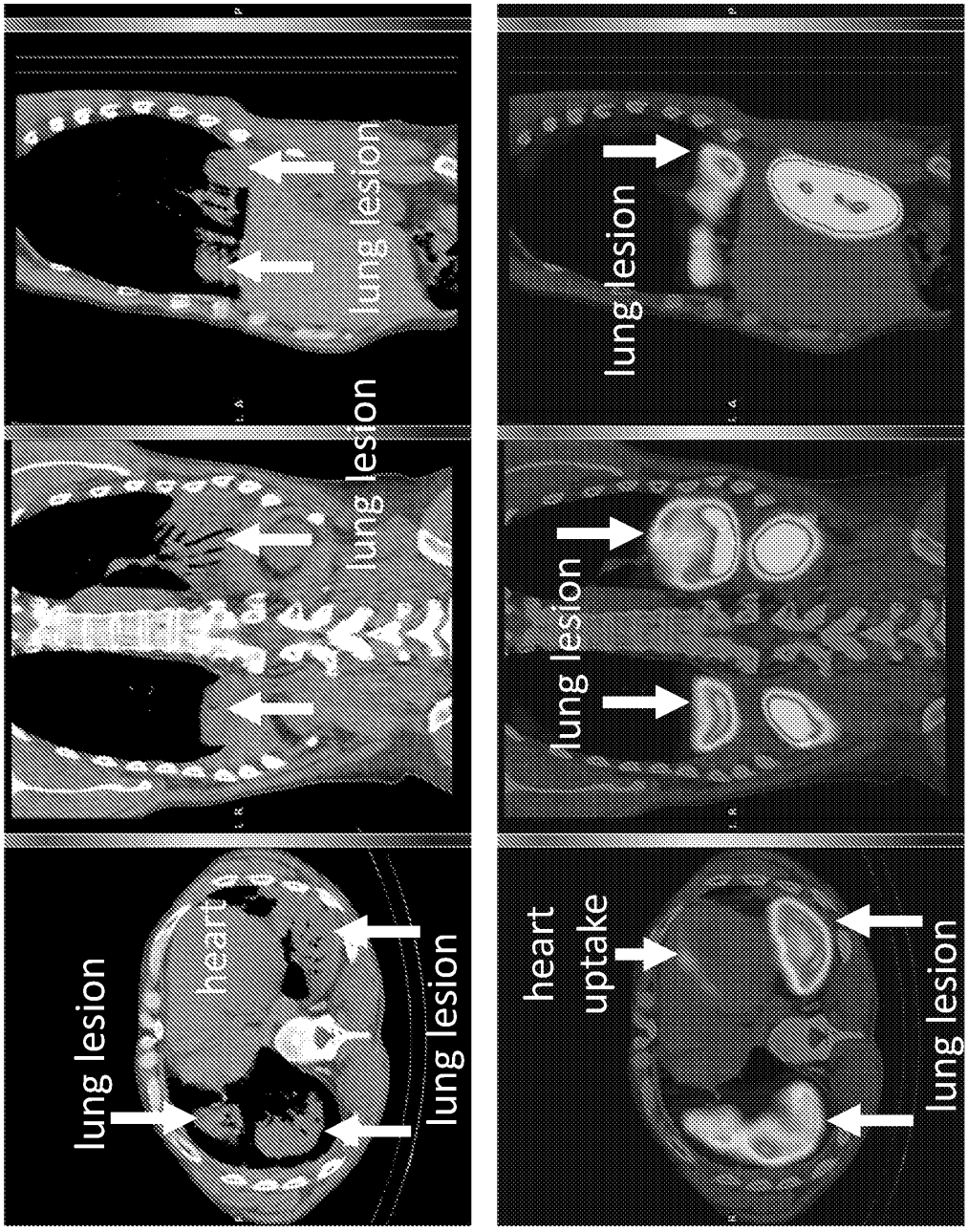

lung lesion
heart
lung lesion
lung lesion
lung lesion
lung lesion
heart uptake
lung lesion
lung lesion
CT
SPECT/CT

FIG. 16

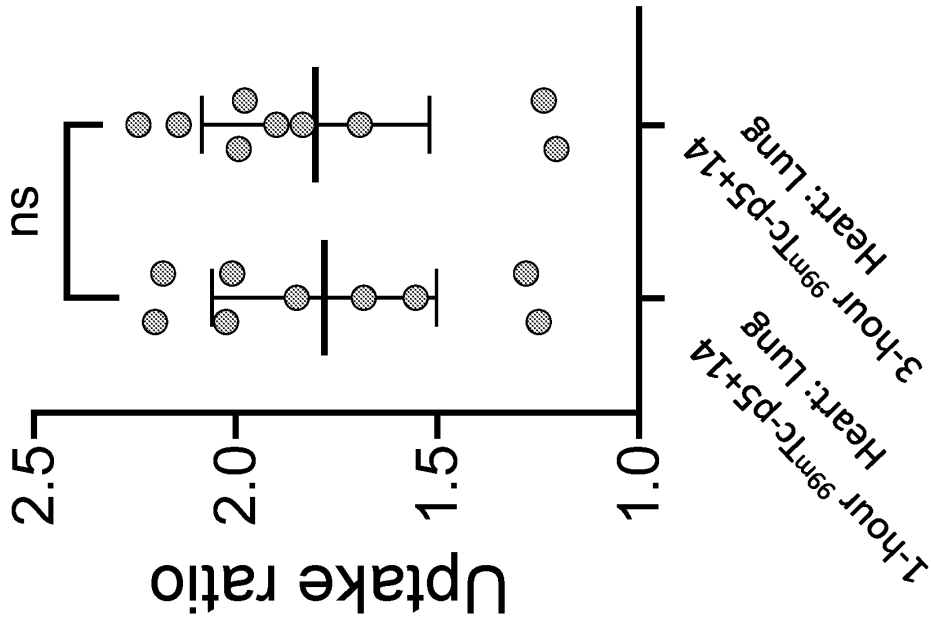

Uptake ratio
2.5
2.0
1.5
1.0
ns
1-hour 99mTc-p5+14
Heart: Lung
3-hour 99mTc-p5+14
Heart: Lung

FIG. 17

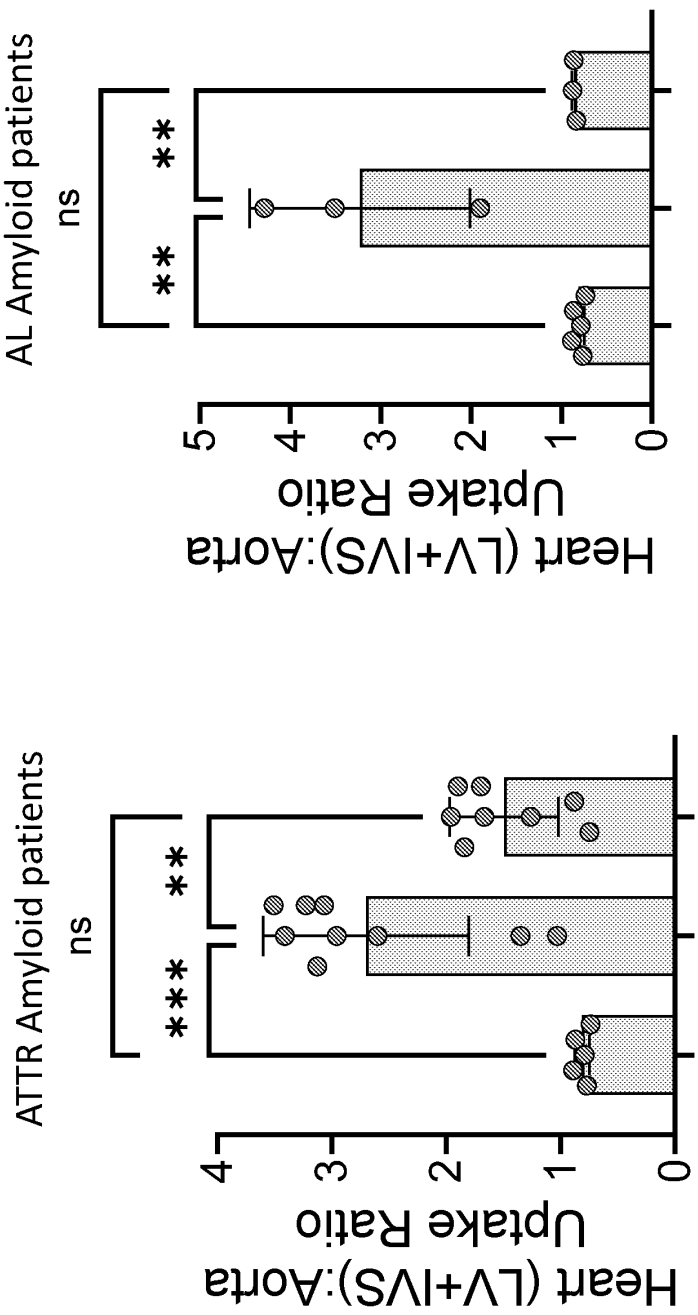


FIG. 18B

FIG. 18A

FIG. 19A

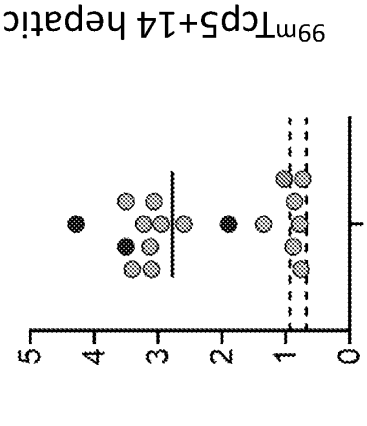


FIG. 19B

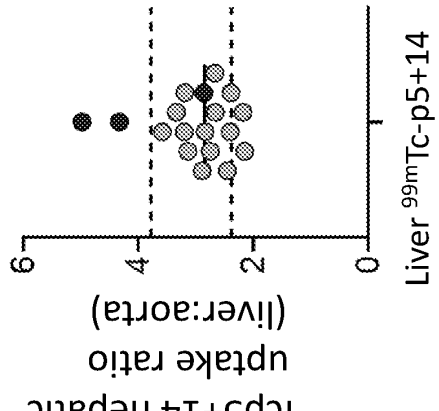


FIG. 19C

FIG. 19D

