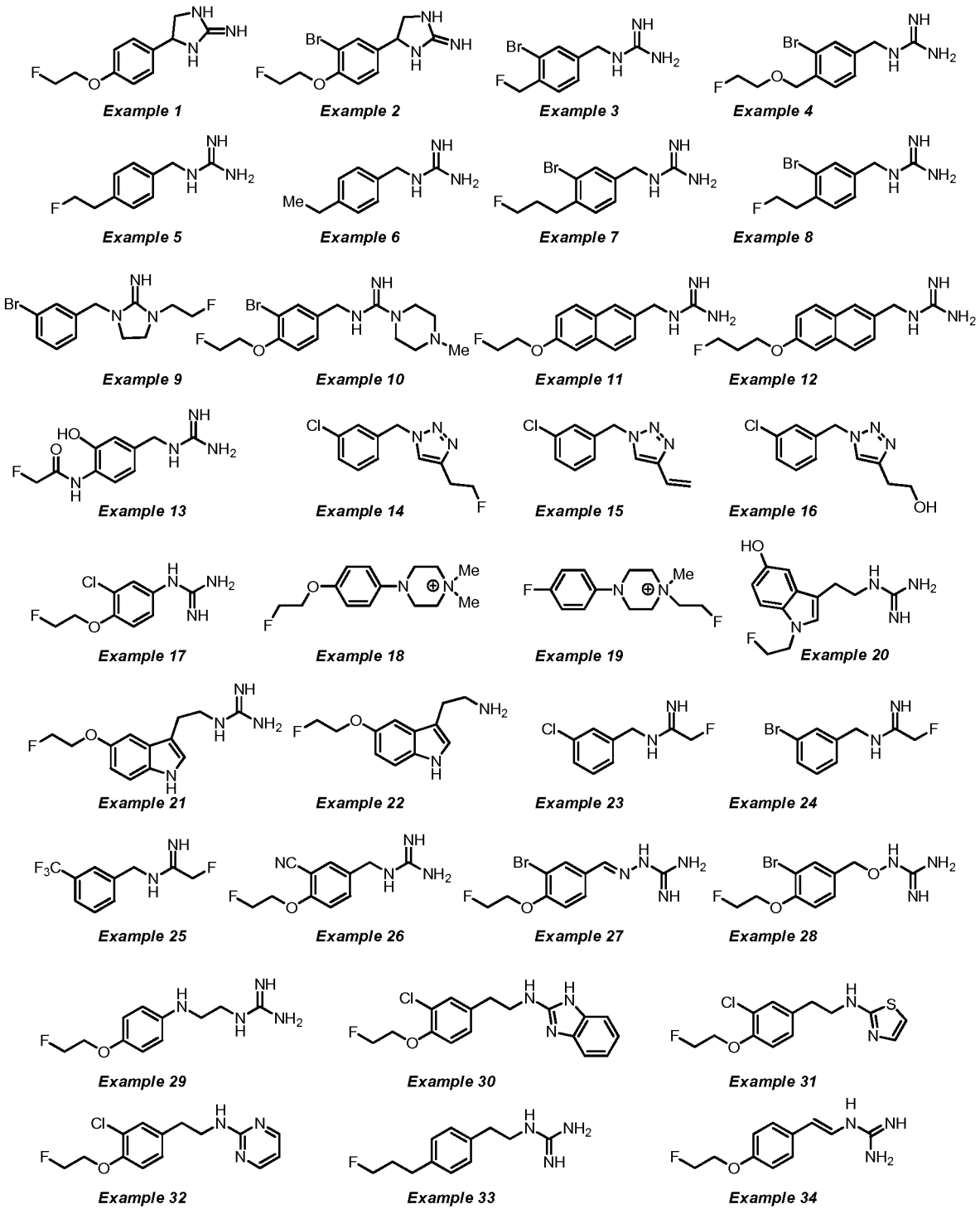

Example 1
Example 2
Example 3
Example 4
Example 5
Example 6
Example 7
Example 8
Example 9
Example 10
Example 11
Example 12
Example 13
Example 14
Example 15
Example 16
Example 17
Example 18
Example 19
Example 20
Example 21
Example 22
Example 23
Example 24
Example 25
Example 26
Example 27
Example 28
Example 29
Example 30
Example 31
Example 32
Example 33
Example 34

FIGURE 1

Example 1

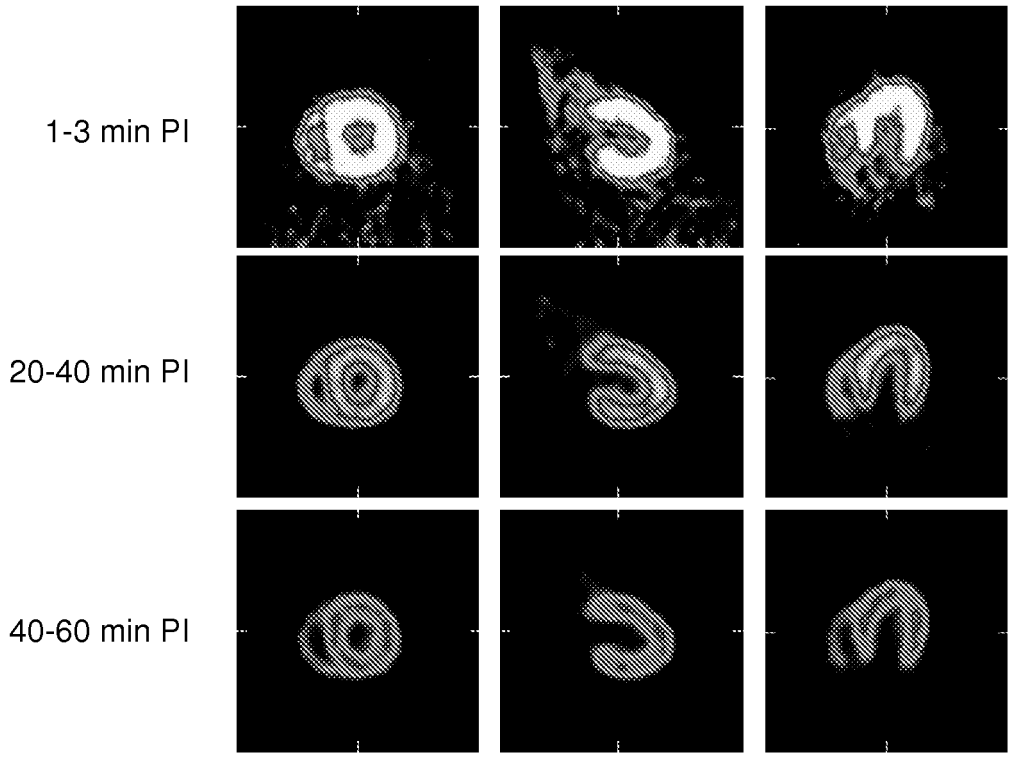


FIGURE 2

Example 2

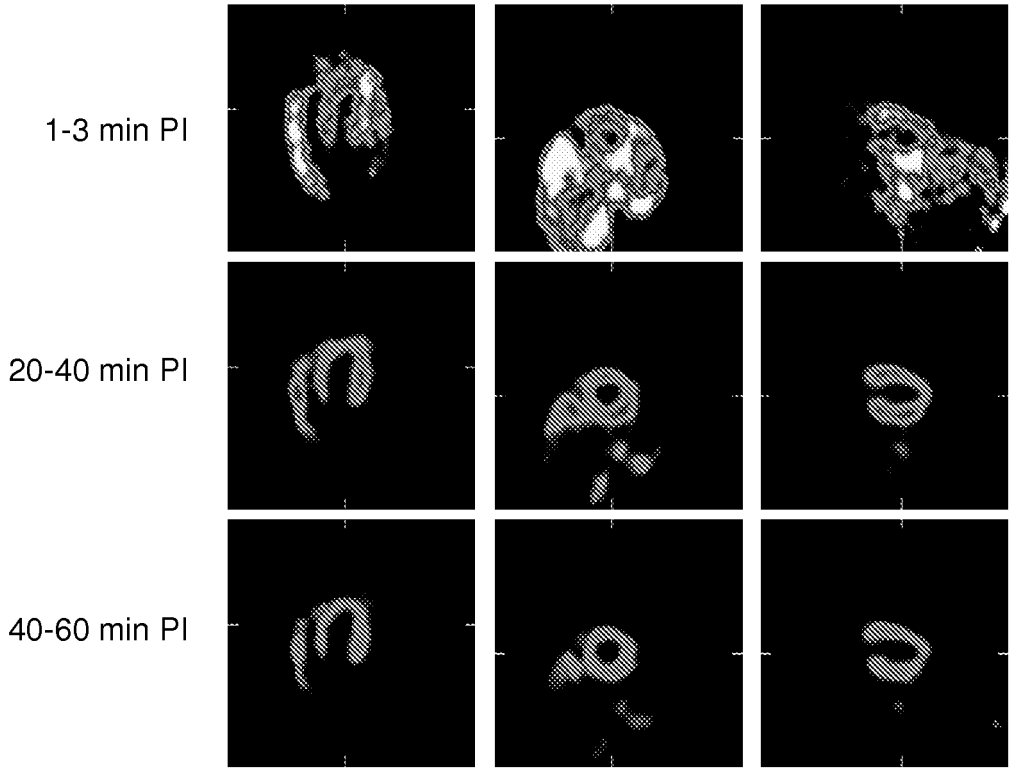


FIGURE 3

Example 3

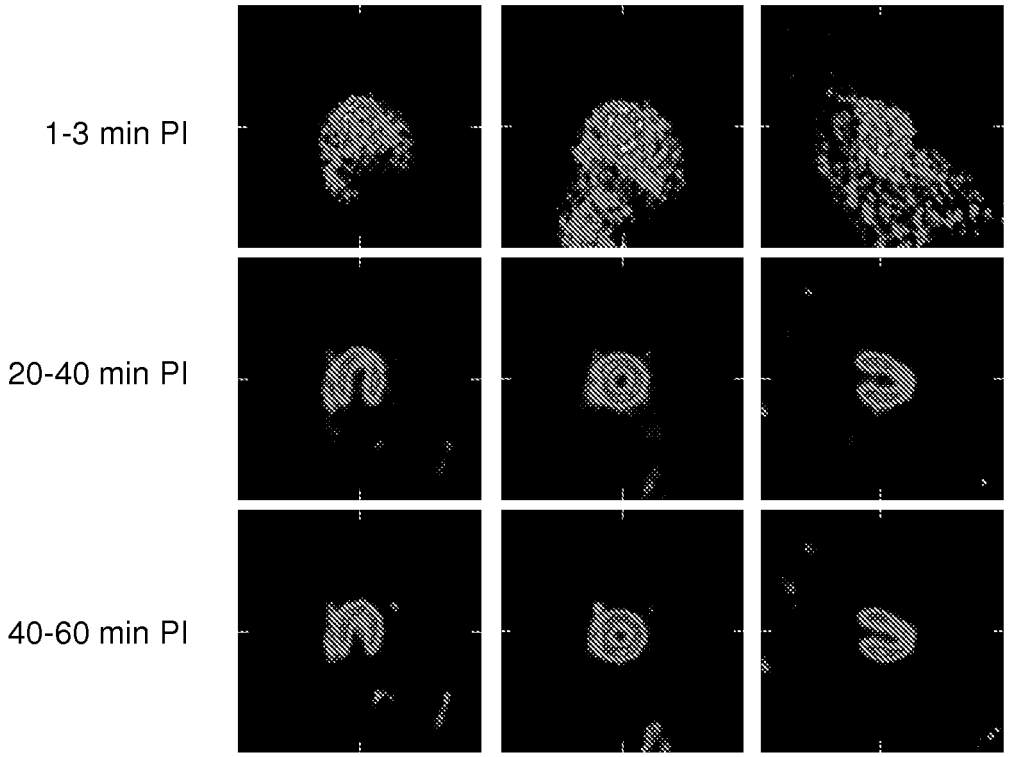


FIGURE 4

Example 5

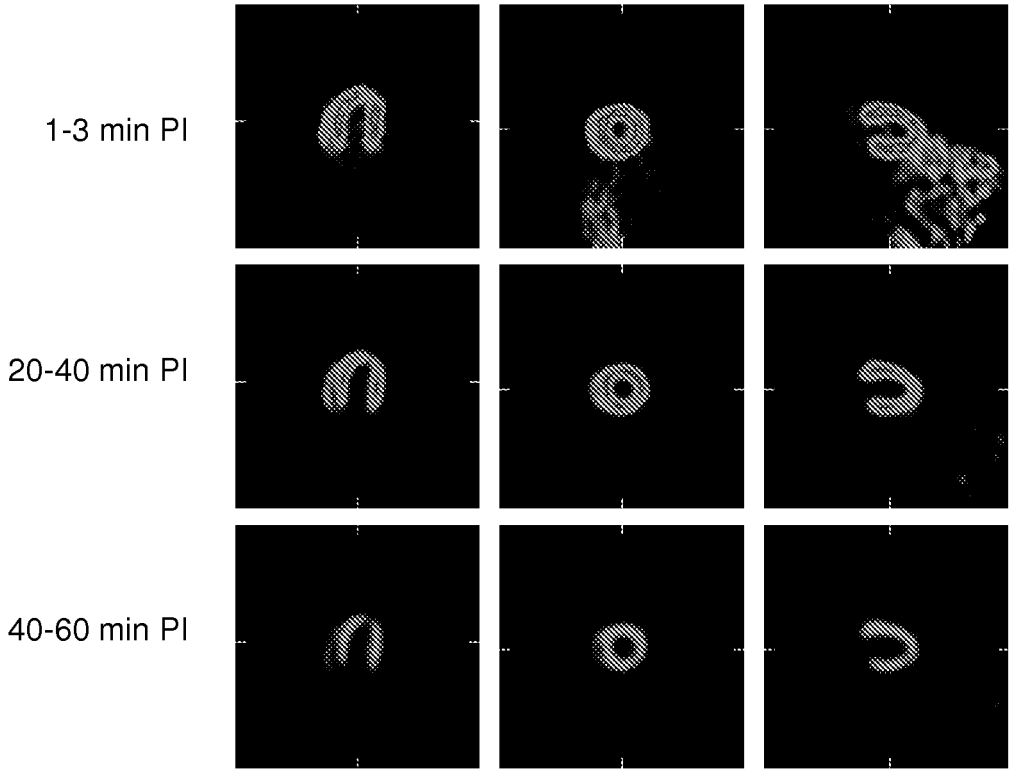


FIGURE 5

Example 8

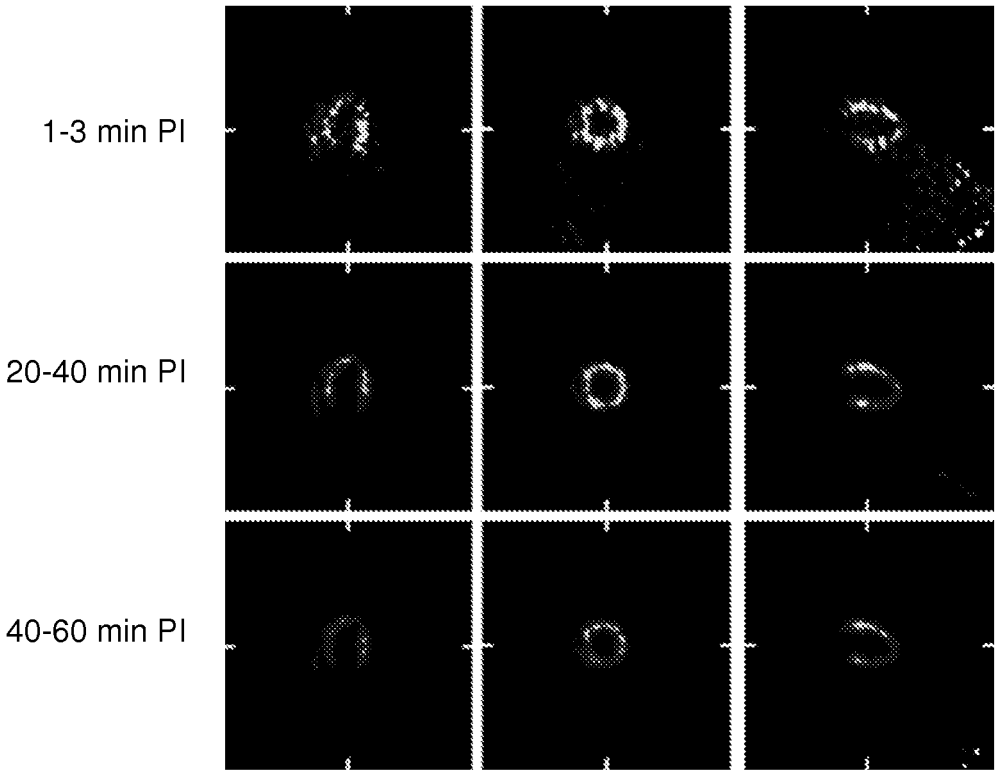


FIGURE 6

Example 11

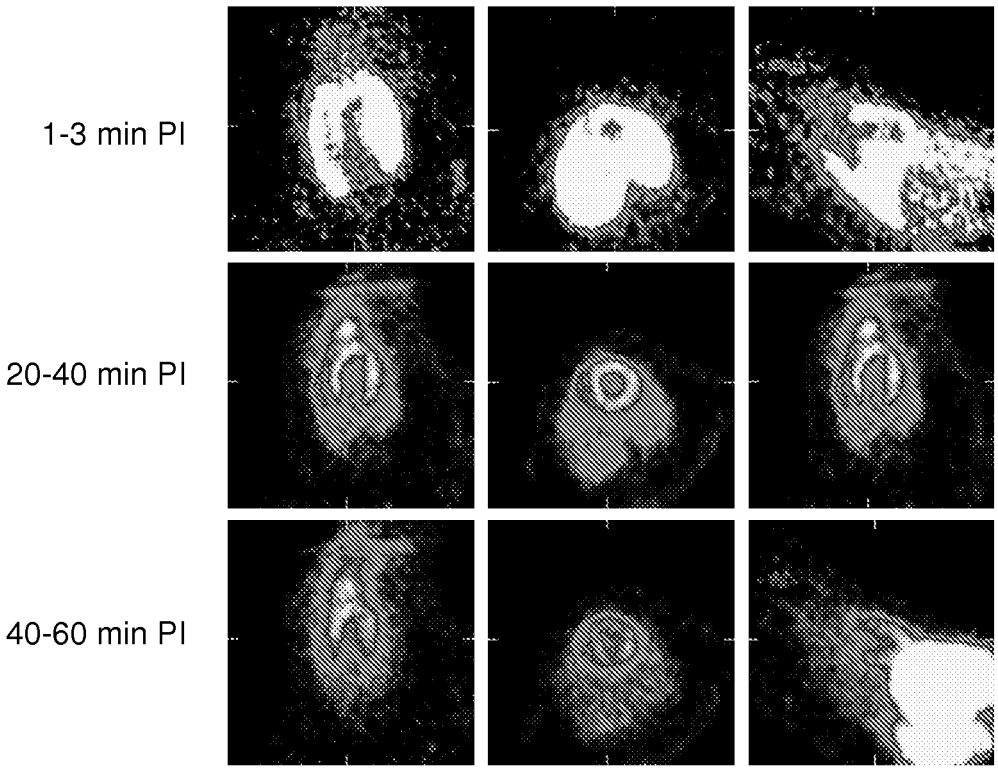


FIGURE 7

Example 12

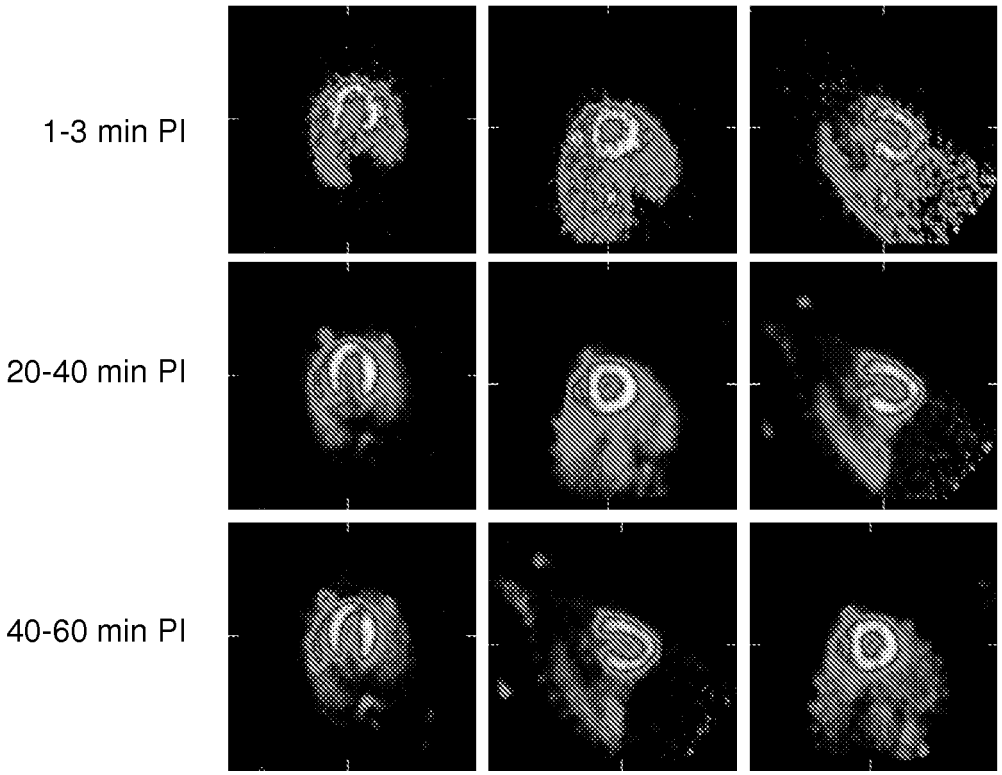


FIGURE 8

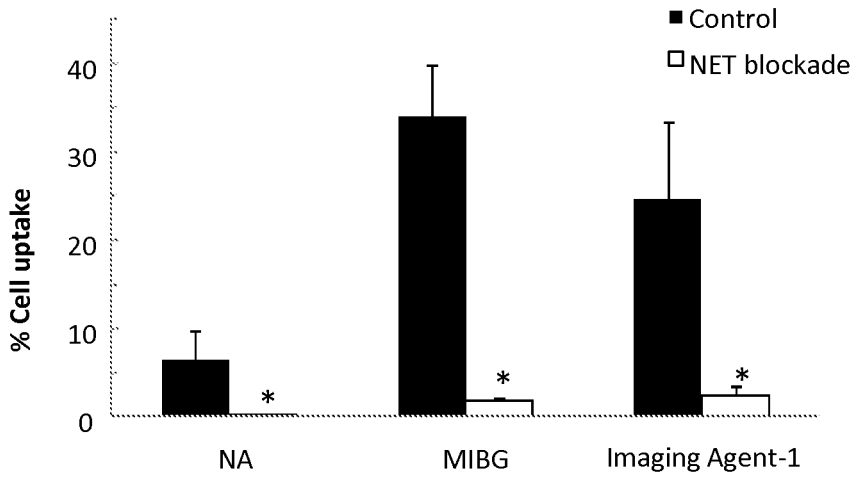


FIGURE 9

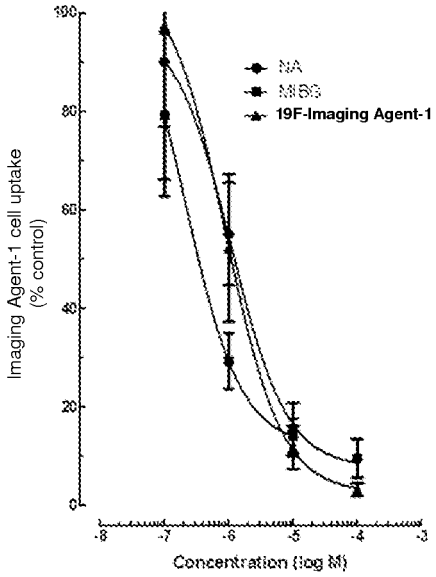


FIGURE 10

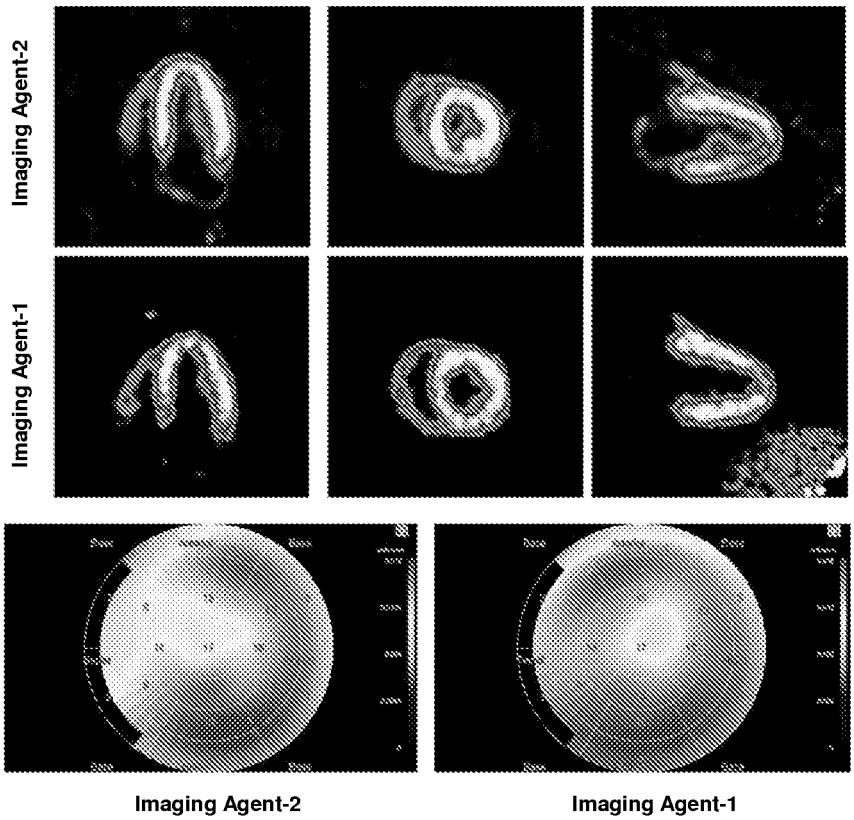
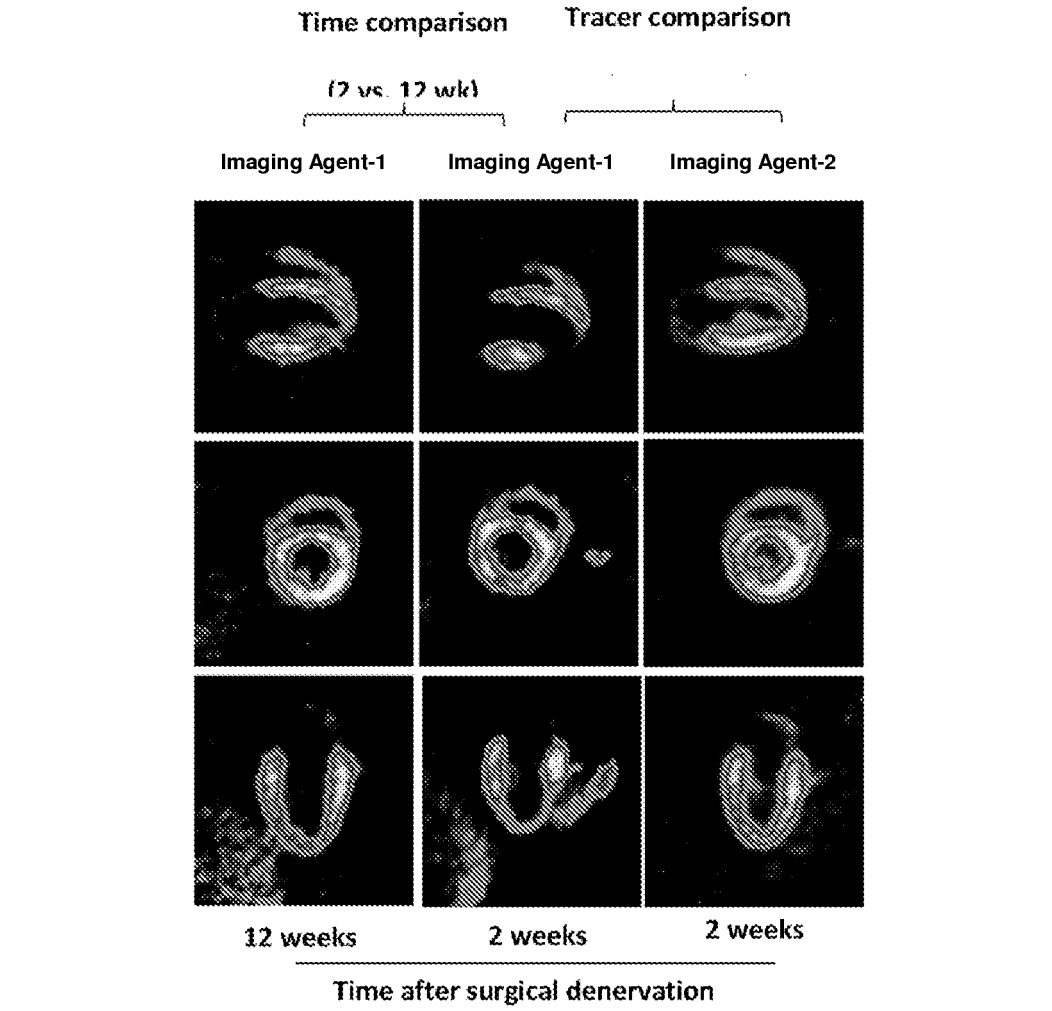


FIGURE 11


Time comparison
Tracer comparison
(2 vs. 12 wk)
Imaging Agent-1
Imaging Agent-1
Imaging Agent-2
12 weeks
2 weeks
2 weeks
Time after surgical denervation

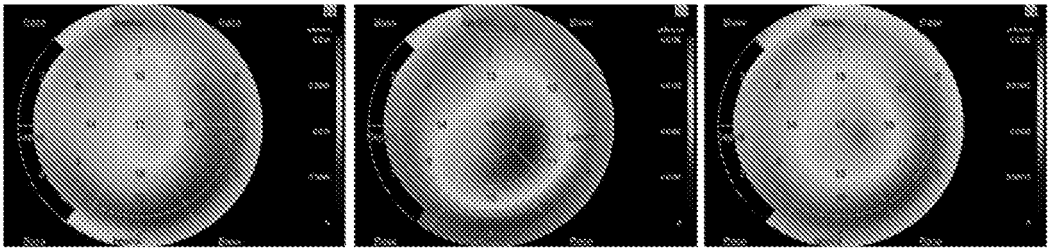

Imaging Agent-2
2 wk post denervation
Imaging Agent-1
2 wk post denervation
Imaging Agent-1
12 wk post denervation

FIGURE 12

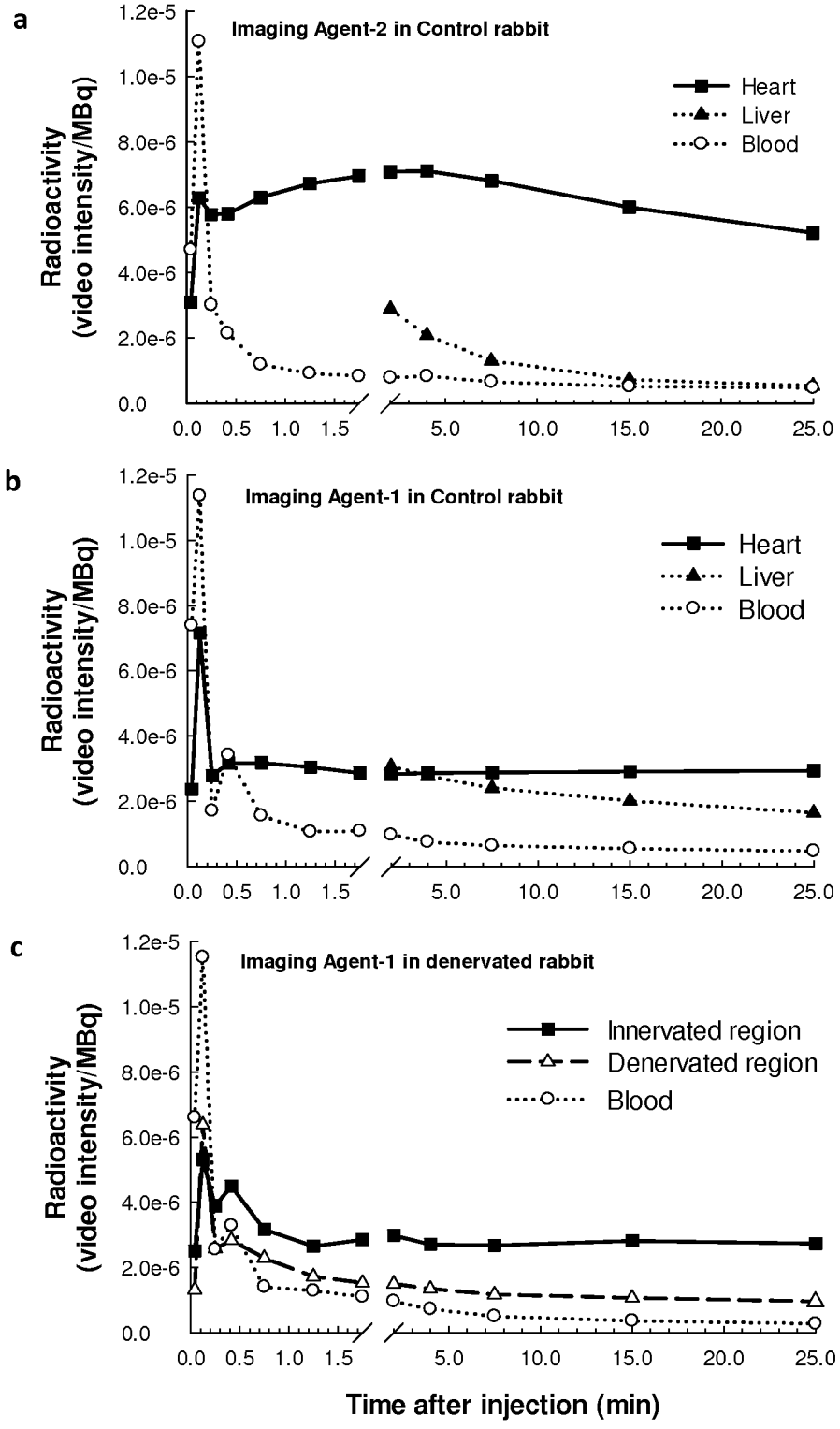

a
Imaging Agent-2 in Control rabbit
Radioactivity (video intensity/MBq)
1.2e-5
1.0e-5
8.0e-6
6.0e-6
4.0e-6
2.0e-6
0.0
Heart
Liver
Blood
0.0 0.5 1.0 1.5 5.0 10.0 15.0 20.0 25.0
b
Imaging Agent-1 in Control rabbit
Radioactivity (video intensity/MBq)
Heart
Liver
Blood
c
Imaging Agent-1 in denervated rabbit
Radioactivity (video intensity/MBq)
Innervated region
Denervated region
Blood
Time after injection (min)

FIGURE 13

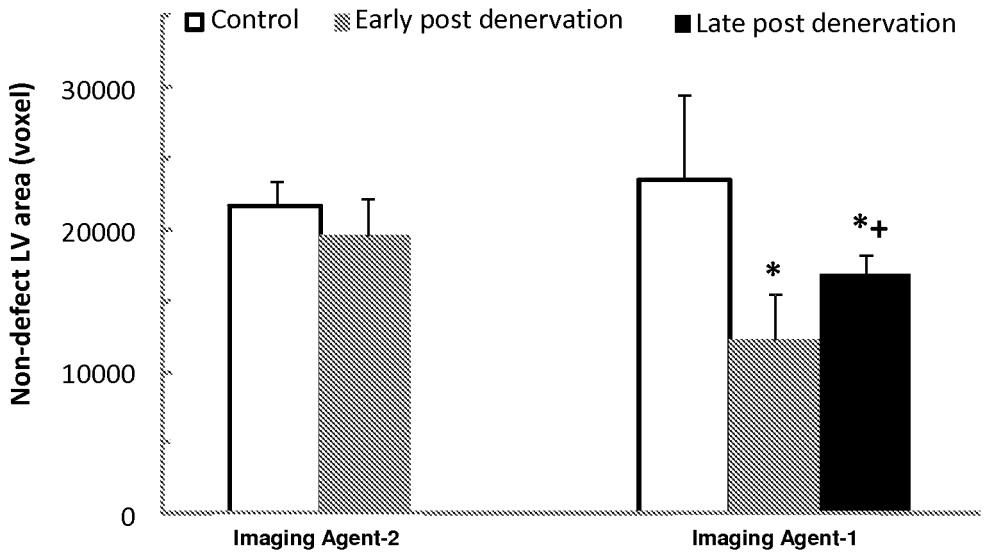

Control
Early post denervation
Late post denervation
Non-defect LV area (voxel)
30000
20000
10000
0
*
*+
Imaging Agent-2
Imaging Agent-1

FIGURE 14

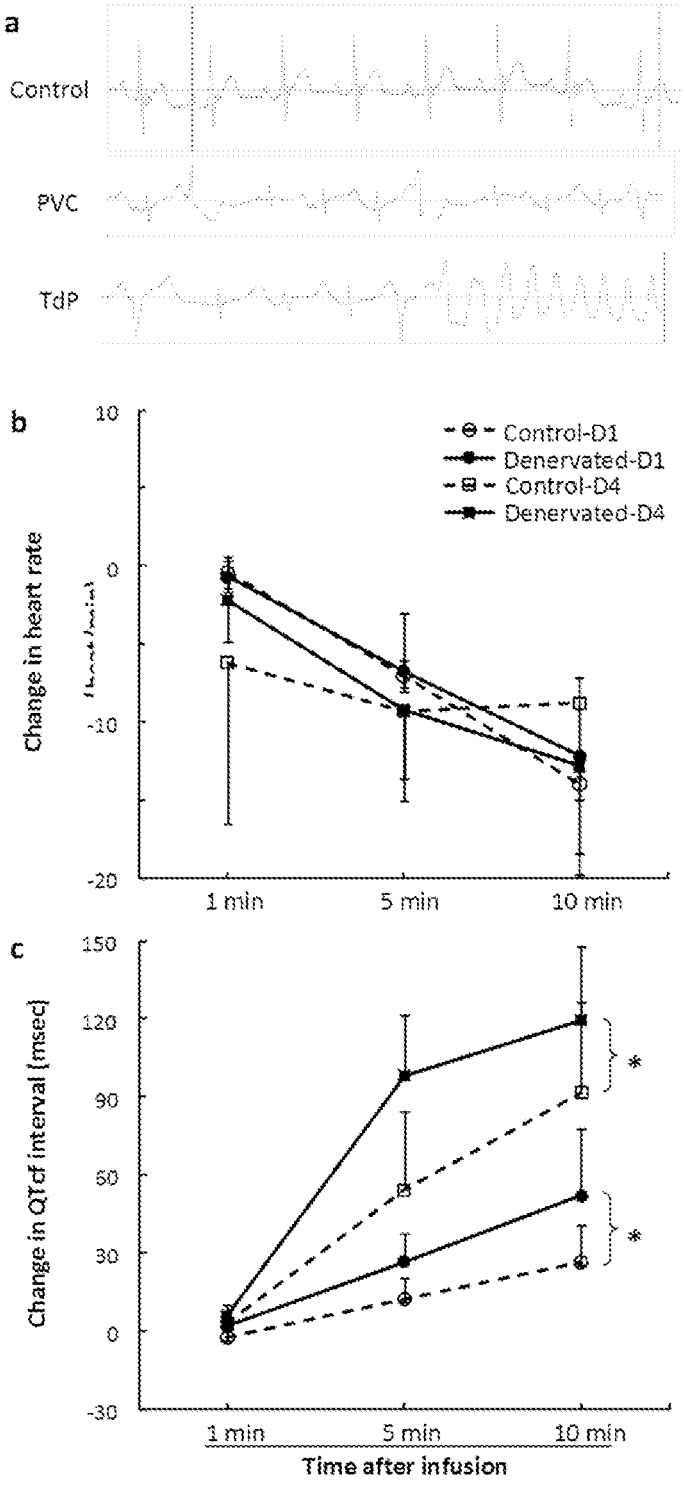

a
Control
PVC
TdP
b
Control-D1
Denervated-D1
Control-D4
Denervated-D4
Change in heart rate
10
0
-10
-20
1 min
5 min
10 min
c
Change in QTcf interval (msec)
150
120
90
60
30
0
-30
*
*
1 min
5 min
10 min
Time after infusion

FIGURE 15

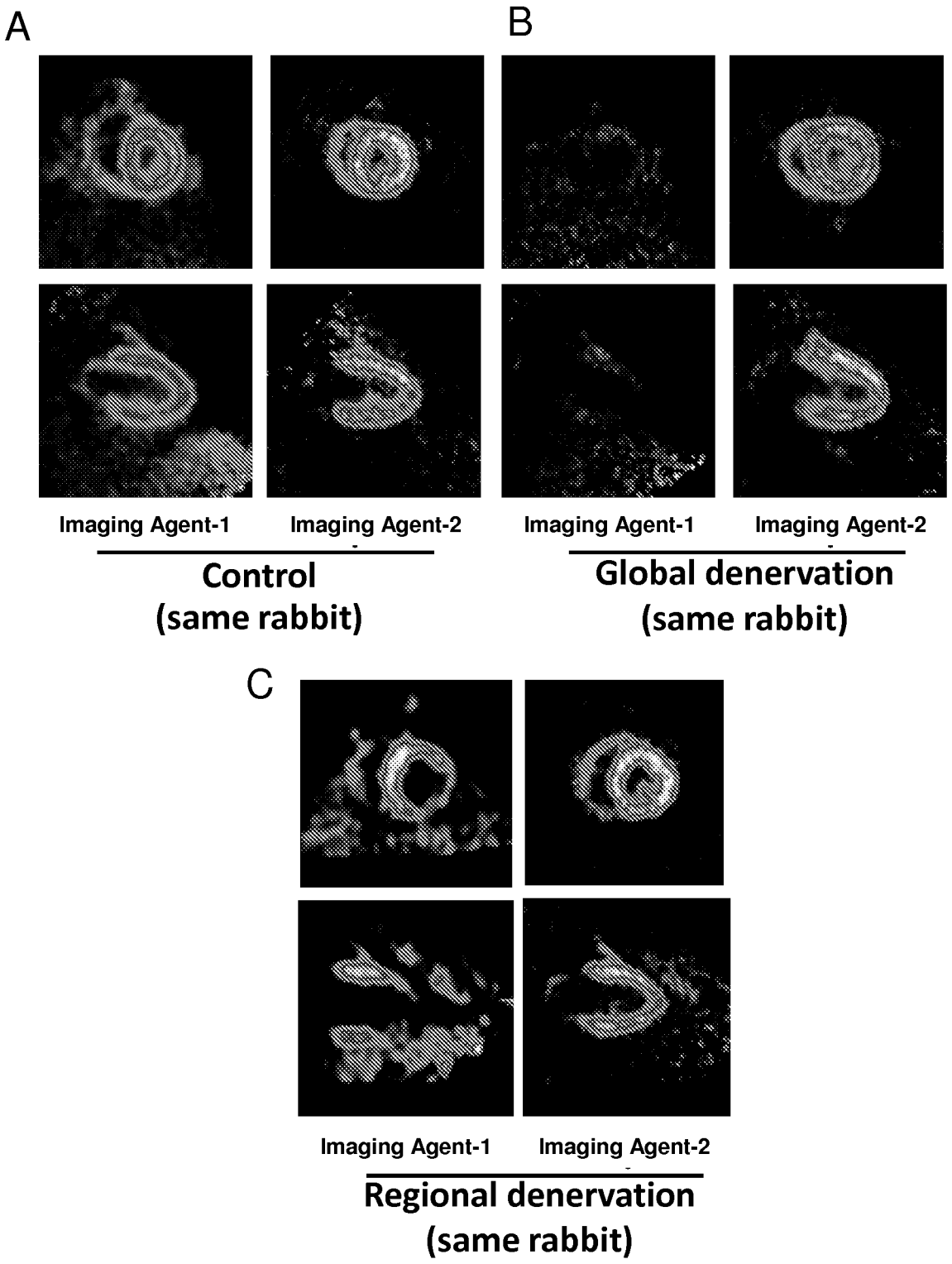

A
B
Imaging Agent-1
Imaging Agent-2
Imaging Agent-1
Imaging Agent-2
Control
(same rabbit)
Global denervation
(same rabbit)
C
Imaging Agent-1
Imaging Agent-2
Regional denervation
(same rabbit)

FIGURE 16

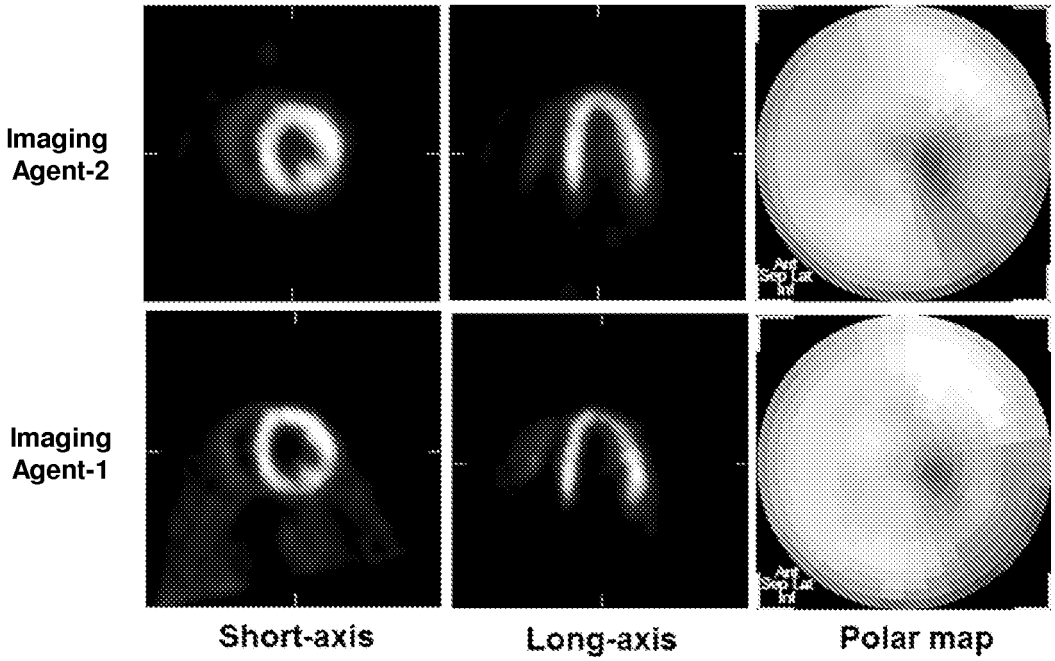


FIGURE 17

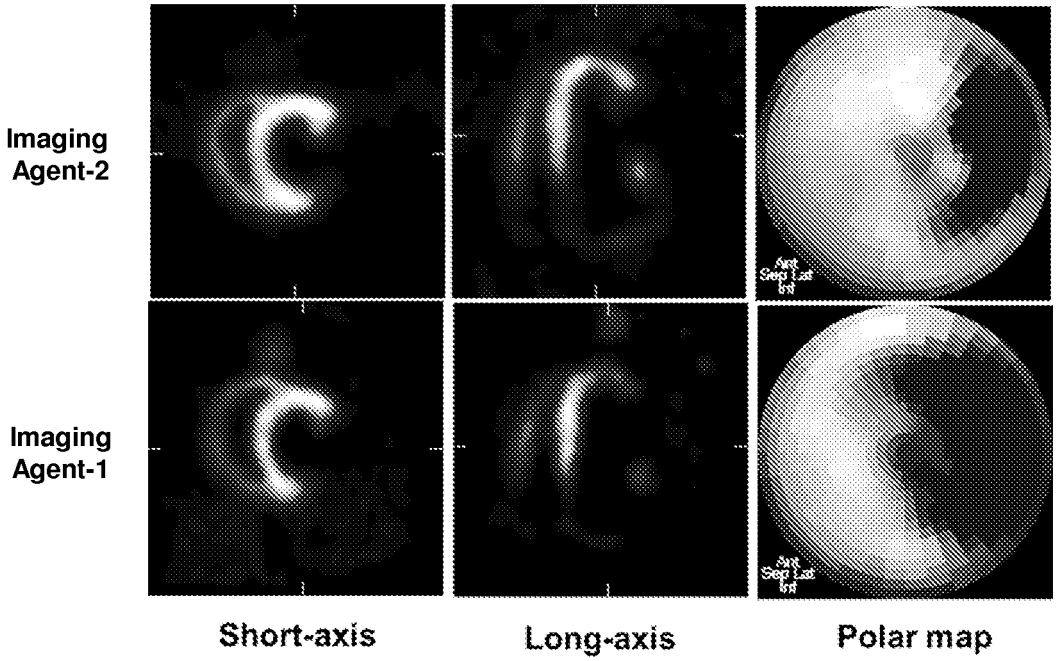


FIGURE 18A

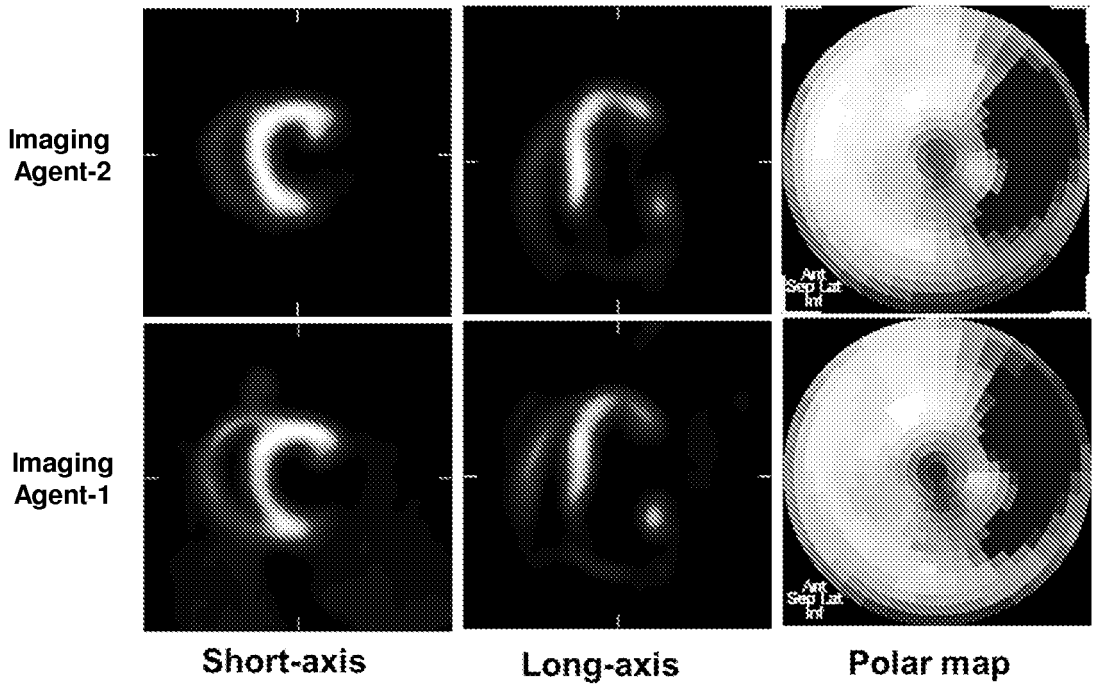


FIGURE 18B

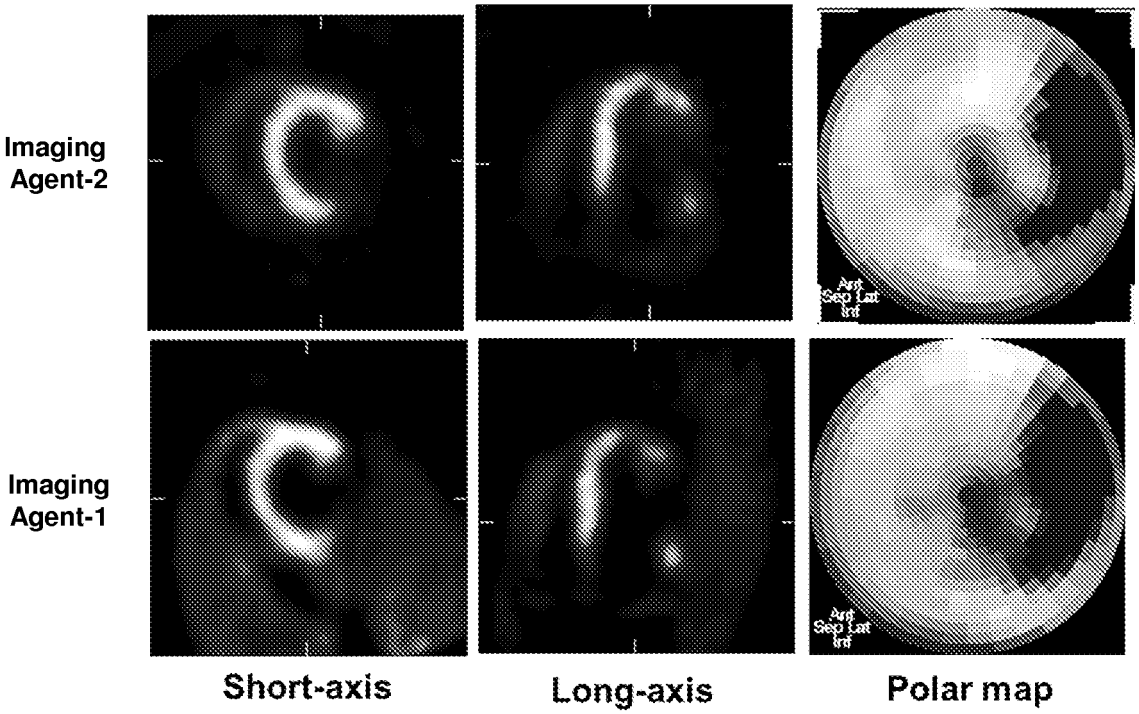


FIGURE 18C

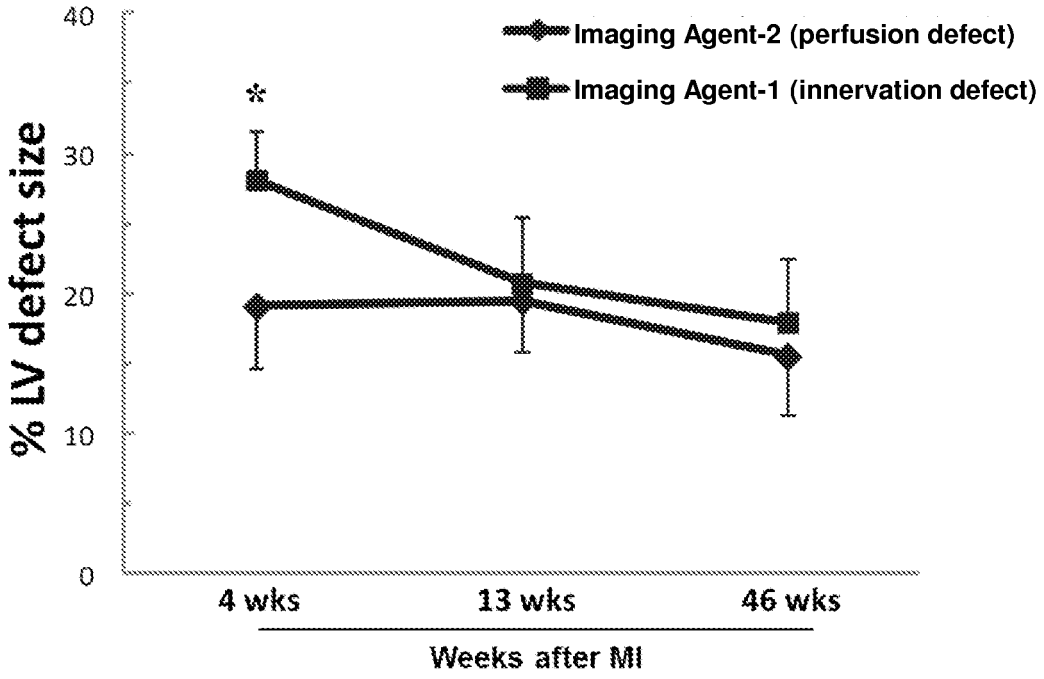

40
30
20
10
0
% LV defect size
*
Imaging Agent-2 (perfusion defect)
Imaging Agent-1 (innervation defect)
4 wks
13 wks
46 wks
Weeks after MI

FIGURE 18D