FIG. 1

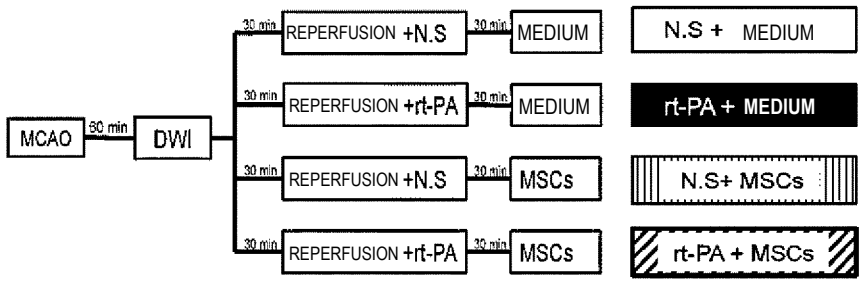

MCAO
90 min
DWI
30 min
REPERFUSION +N.S
30 min
MEDIUM
30 min
REPERFUSION +rt-PA
30 min
MEDIUM
30 min
REPERFUSION +N.S
30 min
MSCs
30 min
REPERFUSION +rt-PA
30 min
MSCs
N.S + MEDIUM
rt-PA + MEDIUM
N.S+ MSCs
rt-PA + MSCs

FIG. 2

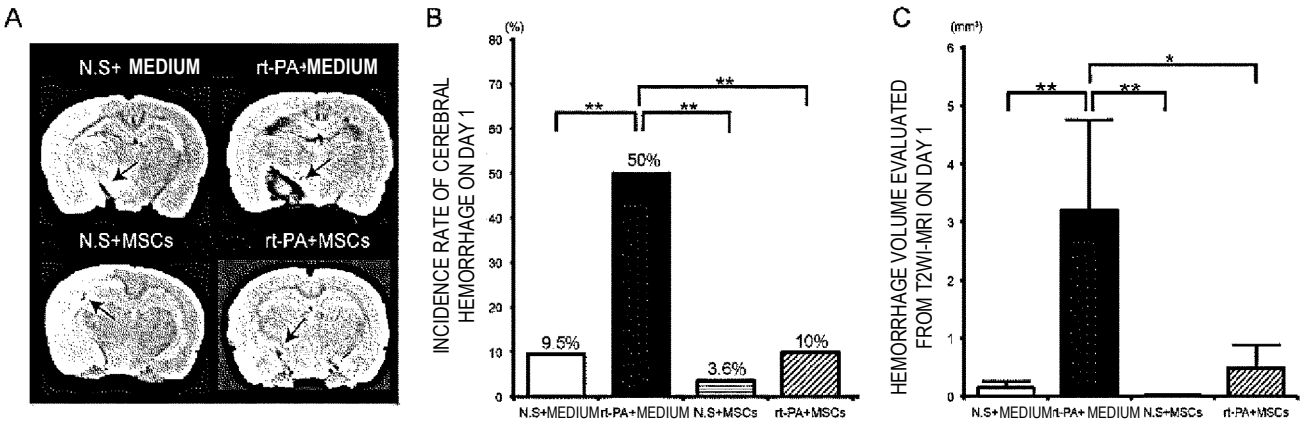

A
N.S+ MEDIUM
rt-PA+MEDIUM
N.S+MSCs
rt-PA+MSCs
B
INCIDENCE RATE OF CEREBRAL HEMORRHAGE ON DAY 1
(%)
80
70
60
50
40
30
20
10
0
**
**
**
50%
9.5%
3.6%
10%
N.S+MEDIUM
rt-PA+MEDIUM
N.S+MSCs
rt-PA+MSCs
C
HEMORRHAGE VOLUME EVALUATED FROM T2WI-MRI ON DAY 1
(mm³)
6
5
4
3
2
1
0
**
**
*
N.S+MEDIUM
rt-PA+ MEDIUM
N.S+MSCs
rt-PA+MSCs

FIG. 3

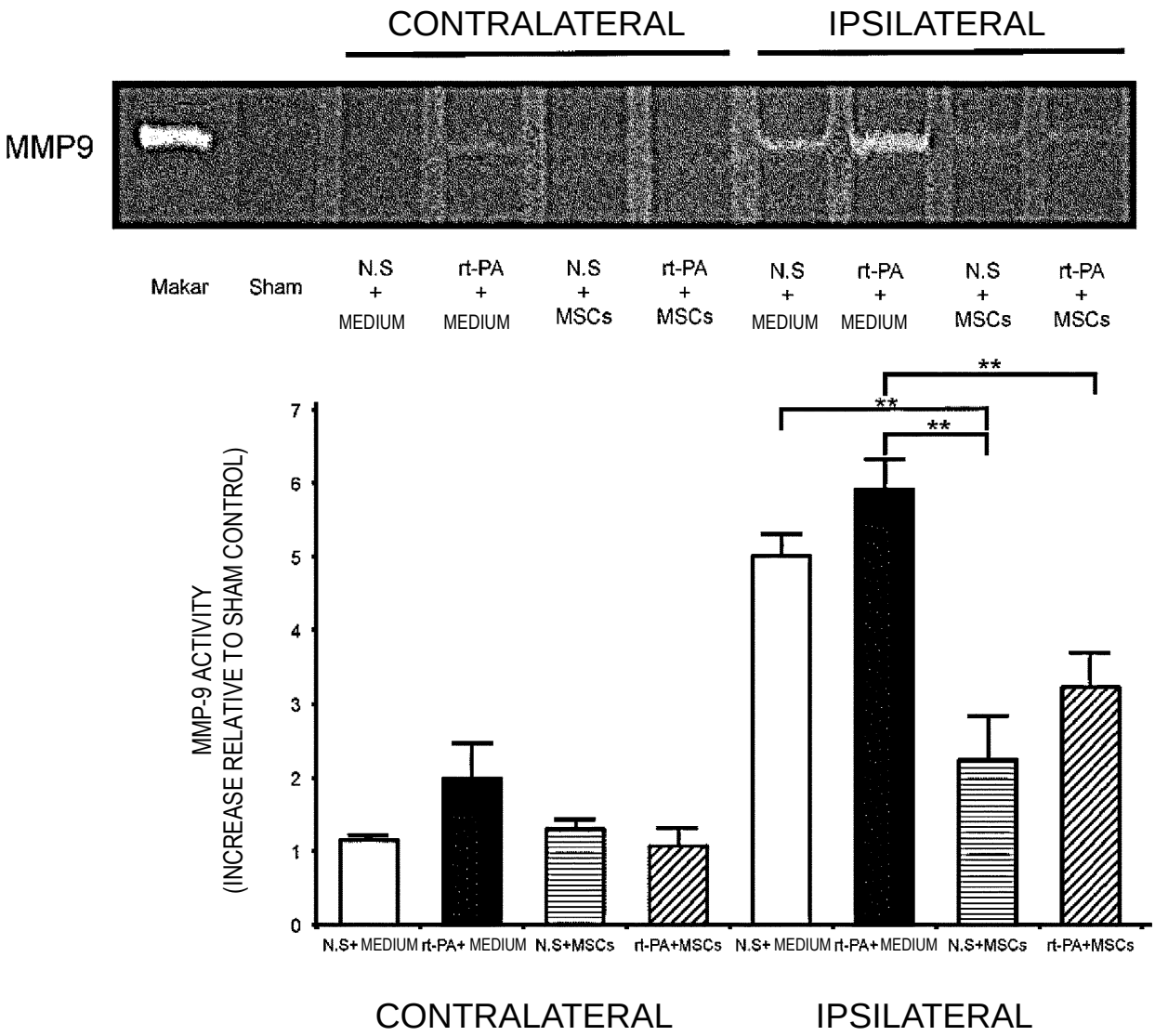

CONTRALATERAL
IPSILATERAL
MMP9
Makar
Sham
N.S + MEDIUM
rt-PA + MEDIUM
N.S + MSCs
rt-PA + MSCs
N.S + MEDIUM
rt-PA + MEDIUM
N.S + MSCs
rt-PA + MSCs
MMP-9 ACTIVITY (INCREASE RELATIVE TO SHAM CONTROL)
0
1
2
3
4
5
6
7
**
**
**
N.S+ MEDIUM
rt-PA+ MEDIUM
N.S+MSCs
rt-PA+MSCs
N.S+ MEDIUM
rt-PA+ MEDIUM
N.S+MSCs
rt-PA+MSCs
CONTRALATERAL
IPSILATERAL

FIG. 4

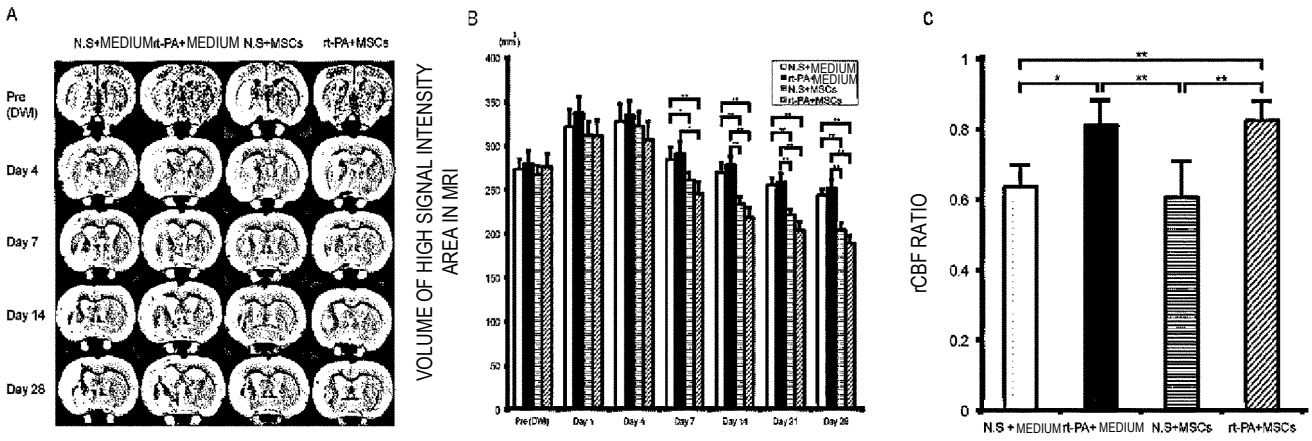
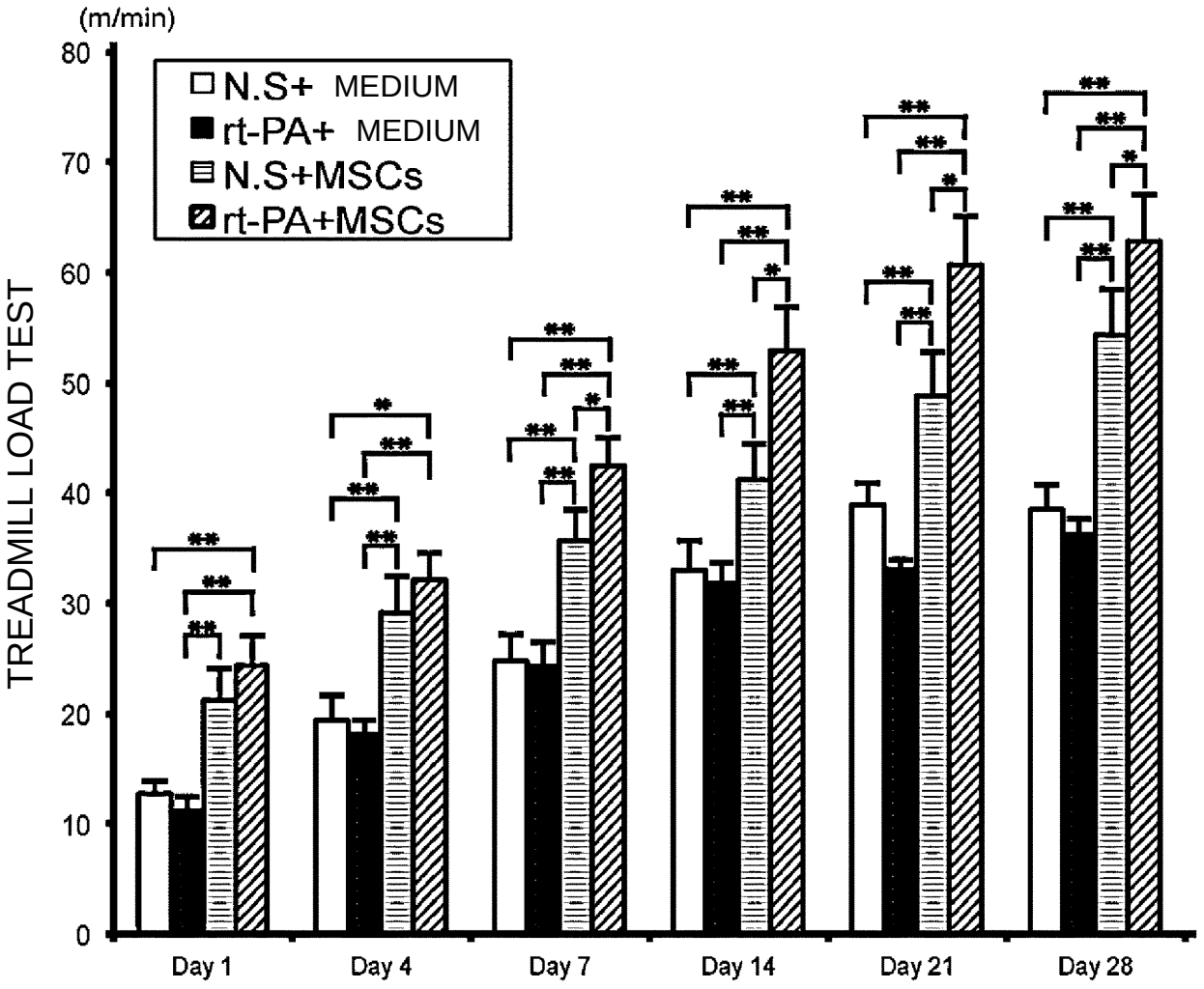

A
N.S+MEDIUM
rt-PA+MEDIUM
N.S+MSCs
rt-PA+MSCs
Pre (DWI)
Day 4
Day 7
Day 14
Day 28
B
VOLUME OF HIGH SIGNAL INTENSITY AREA IN MRI
N.S+MEDIUM
rt-PA+MEDIUM
N.S+MSCs
rt-PA+MSCs
Pre (DWI)
Day 1
Day 4
Day 7
Day 14
Day 21
Day 28
C
rCBF RATIO
N.S + MEDIUM
rt-PA+ MEDIUM
N.S+MSCs
rt-PA+MSCs

FIG. 5


(m/min)
TREADMILL LOAD TEST
N.S+ MEDIUM
rt-PA+ MEDIUM
N.S+MSCs
rt-PA+MSCs
0
10
20
30
40
50
60
70
80
Day 1
Day 4
Day 7
Day 14
Day 21
Day 28