FIG. 1

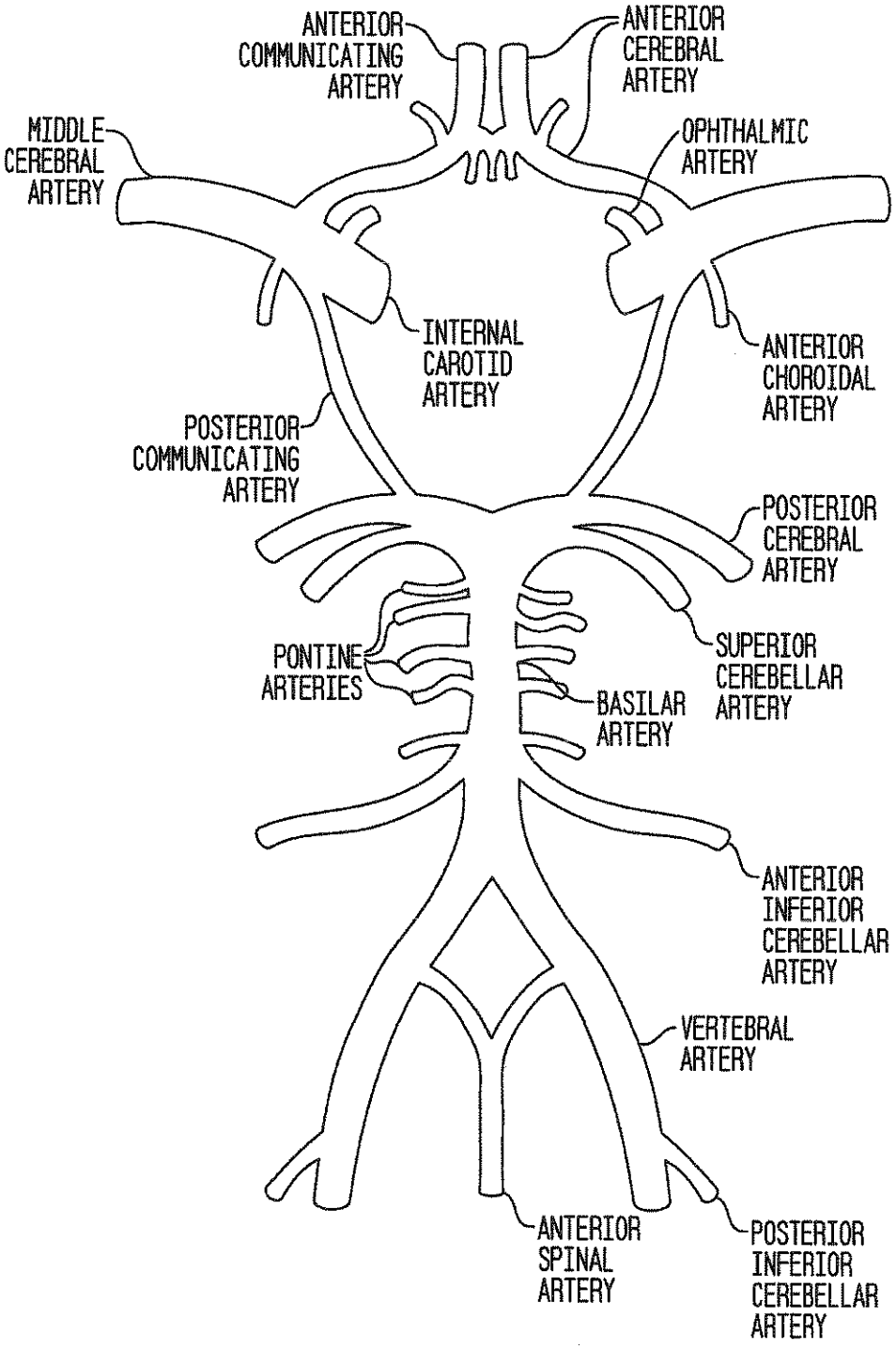

ANTERIOR COMMUNICATING ARTERY
ANTERIOR CEREBRAL ARTERY
MIDDLE CEREBRAL ARTERY
OPHTHALMIC ARTERY
INTERNAL CAROTID ARTERY
ANTERIOR CHOROIDAL ARTERY
POSTERIOR COMMUNICATING ARTERY
POSTERIOR CEREBRAL ARTERY
PONTINE ARTERIES
SUPERIOR CEREBELLAR ARTERY
BASILAR ARTERY
ANTERIOR INFERIOR CEREBELLAR ARTERY
VERTEBRAL ARTERY
ANTERIOR SPINAL ARTERY
POSTERIOR INFERIOR CEREBELLAR ARTERY

FIG. 2A

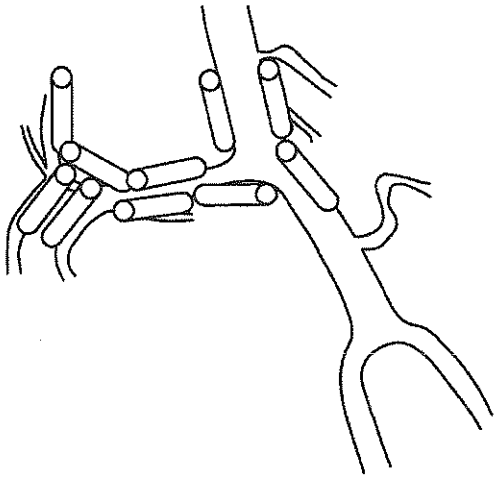


FIG. 2B

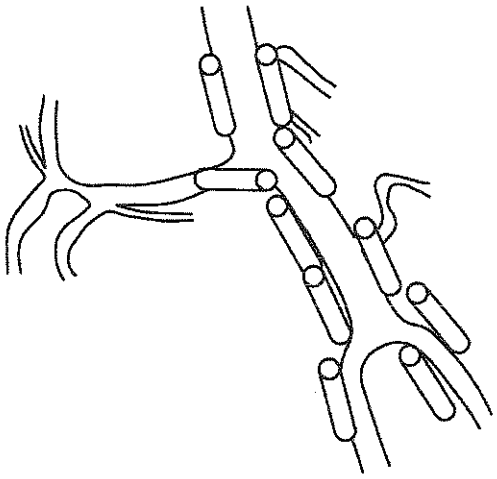


FIG. 2C

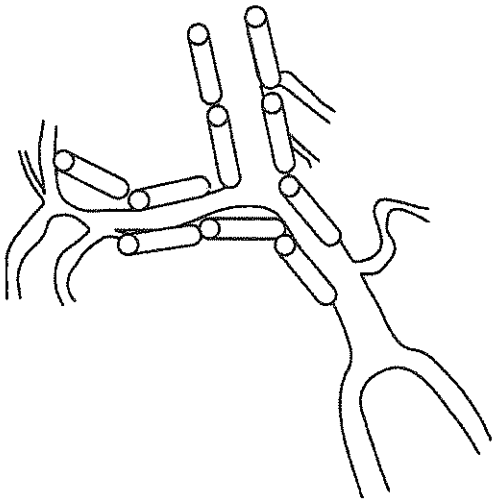
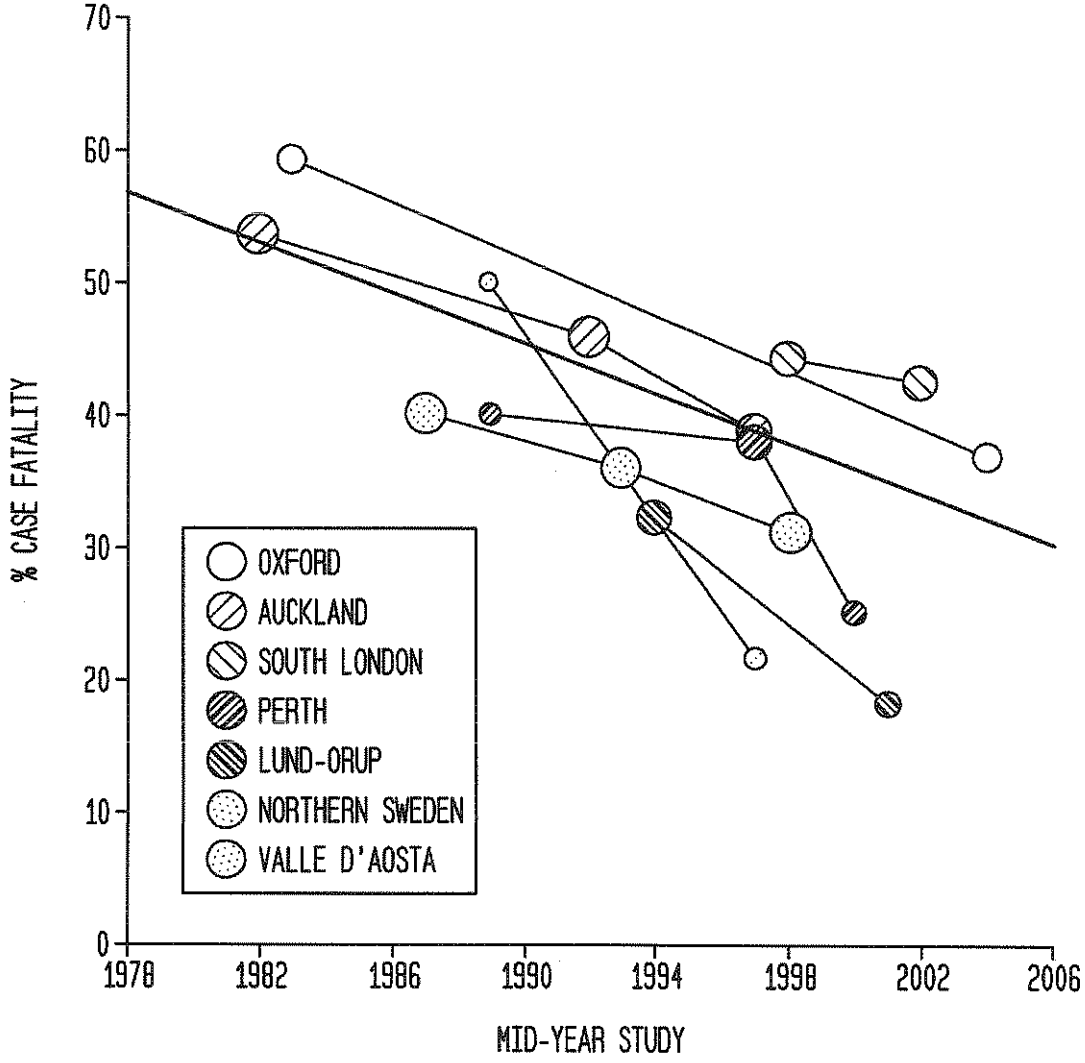


FIG. 3


70
60
50
40
30
20
10
0
% CASE FATALITY
1978
1982
1986
1990
1994
1998
2002
2006
MID-YEAR STUDY
OXFORD
AUCKLAND
SOUTH LONDON
PERTH
LUND-ORUP
NORTHERN SWEDEN
VALLE D'AOSTA

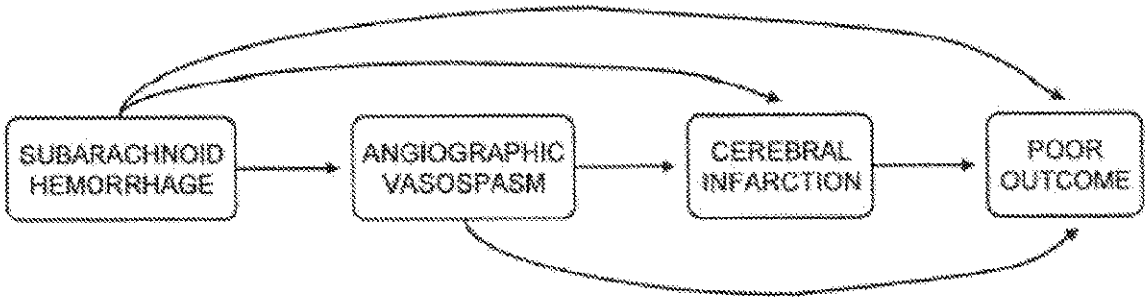

SUBARACHNOID HEMORRHAGE
ANGIOGRAPHIC VASOSPASM
CEREBRAL INFARCTION
POOR OUTCOME

FIG. 4A

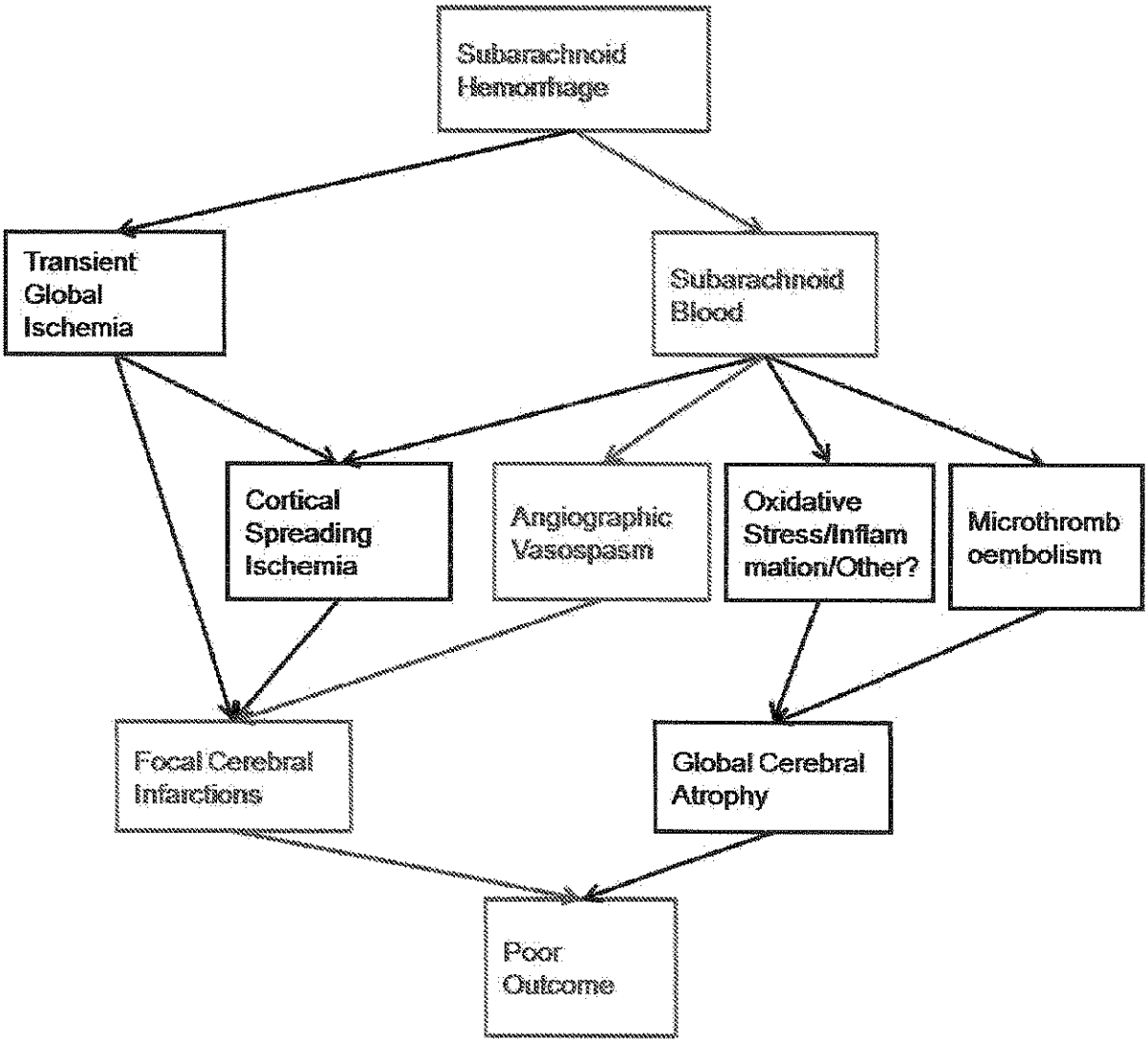

Subarachnoid Hemorrhage
Transient Global Ischemia
Subarachnoid Blood
Cortical Spreading Ischemia
Angiographic Vasospasm
Oxidative Stress/Inflammation/Other?
Microthromboembolism
Focal Cerebral Infarctions
Global Cerebral Atrophy
Poor Outcome

FIG. 4B

FIG. 5
ARTERIES OF BRAIN (FRONTAL VIEW AND SECTION)

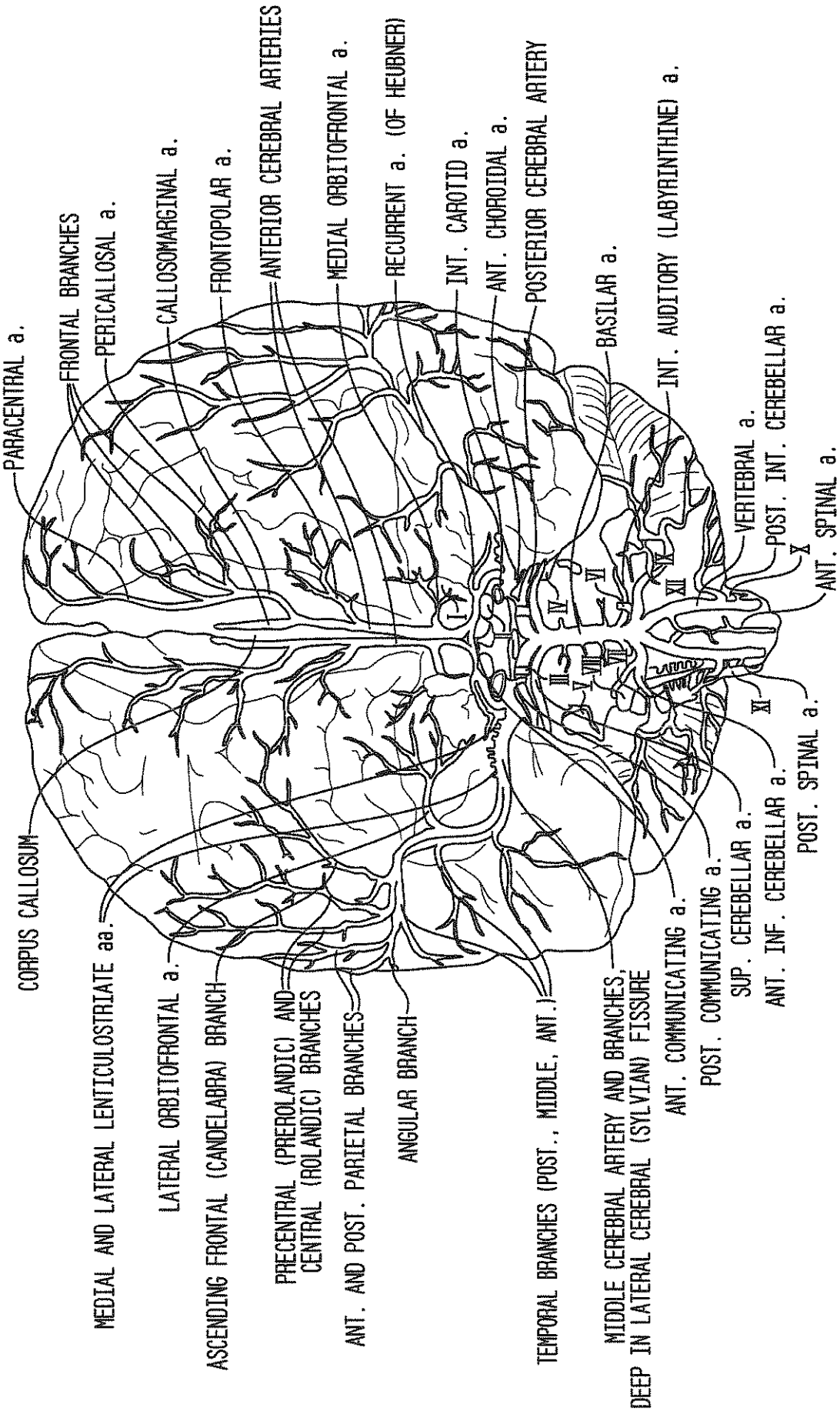


FIG. 6

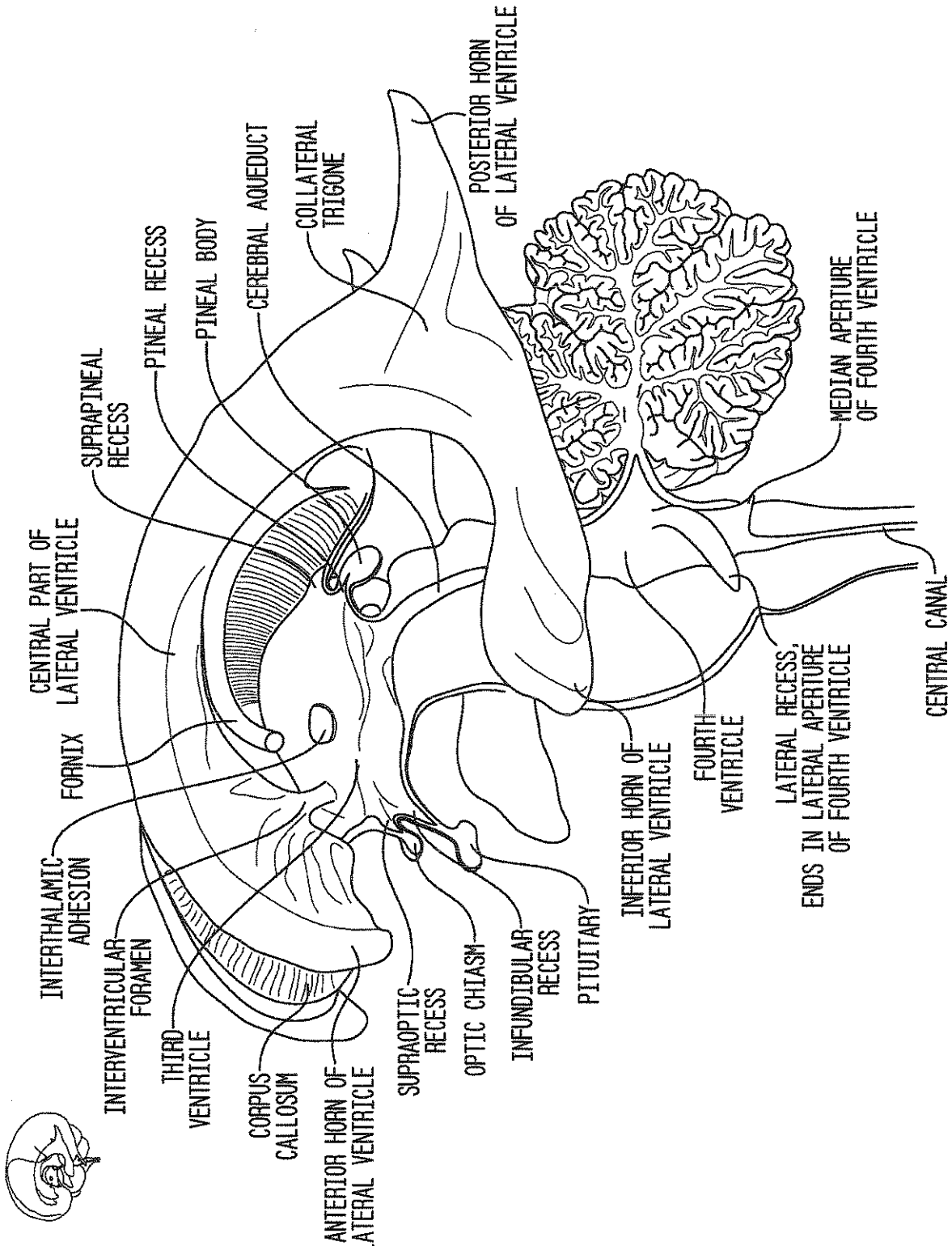

CENTRAL PART OF LATERAL VENTRICLE
SUPRAPINEAL RECESS
PINEAL RECESS
PINEAL BODY
CEREBRAL AQUEDUCT
COLLATERAL TRIGONE
POSTERIOR HORN OF LATERAL VENTRICLE
MEDIAN APERTURE OF FOURTH VENTRICLE
FORNIX
INTERTHALAMIC ADHESION
INTERVENTRICULAR FORAMEN
THIRD VENTRICLE
CORPUS CALLOSUM
ANTERIOR HORN OF LATERAL VENTRICLE
SUPRAOPTIC RECESS
OPTIC CHIASM
INFUNDIBULAR RECESS
PITUITARY
INFERIOR HORN OF LATERAL VENTRICLE
FOURTH VENTRICLE
LATERAL RECESS, ENDS IN LATERAL APERTURE OF FOURTH VENTRICLE
CENTRAL CANAL

FIG. 7

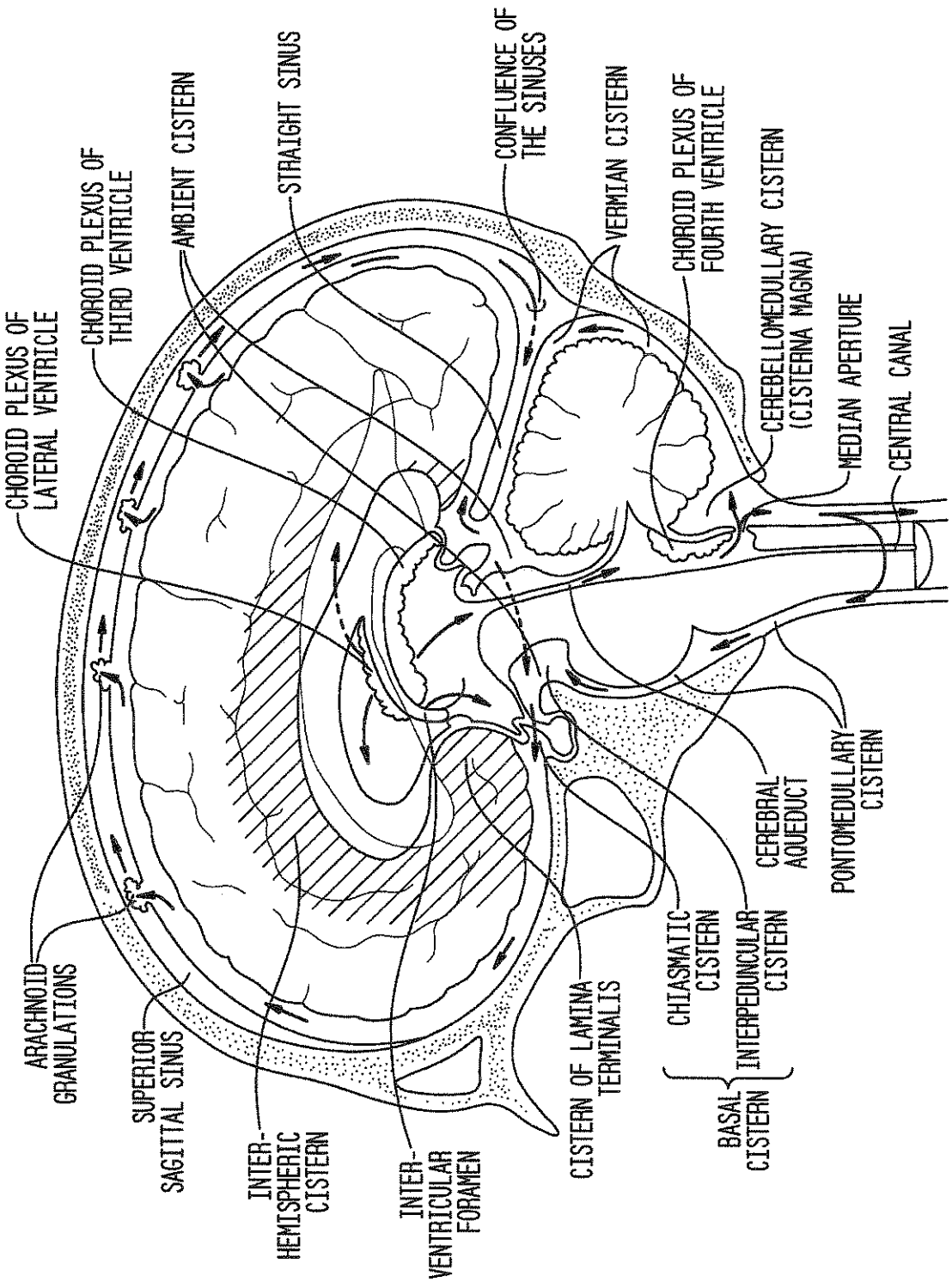

CHOROID PLEXUS OF LATERAL VENTRICLE
CHOROID PLEXUS OF THIRD VENTRICLE
AMBIENT CISTERN
STRAIGHT SINUS
CONFLUENCE OF THE SINUSES
VERMIAN CISTERN
CHOROID PLEXUS OF FOURTH VENTRICLE
CEREBELLOMEDULLARY CISTERN (CISTERNA MAGNA)
MEDIAN APERTURE
CENTRAL CANAL
ARACHNOID GRANULATIONS
SUPERIOR SAGITTAL SINUS
INTER-HEMISPHERIC CISTERN
INTER-VENTRICULAR FORAMEN
CISTERN OF LAMINA TERMINALIS
CHIASMATIC CISTERN
INTERPEDUNCULAR CISTERN
BASAL CISTERN
CEREBRAL AQUEDUCT
PONTOMEDULLARY CISTERN

FIG. 8A

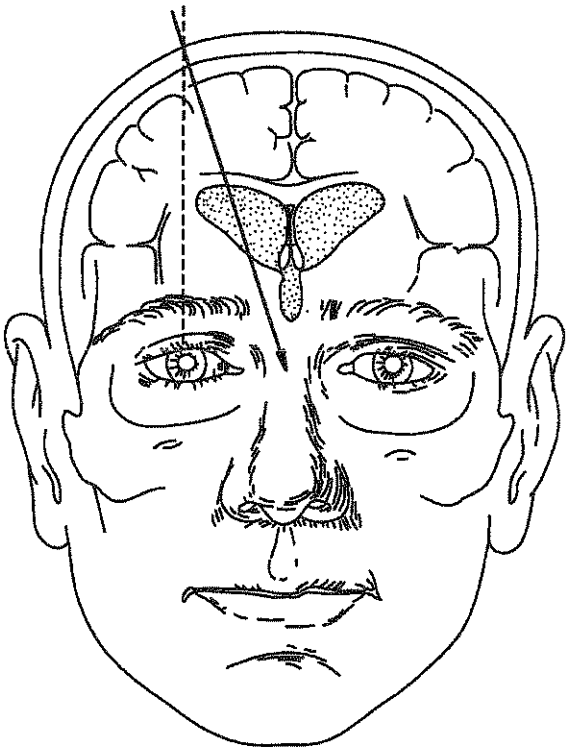


FIG. 8B

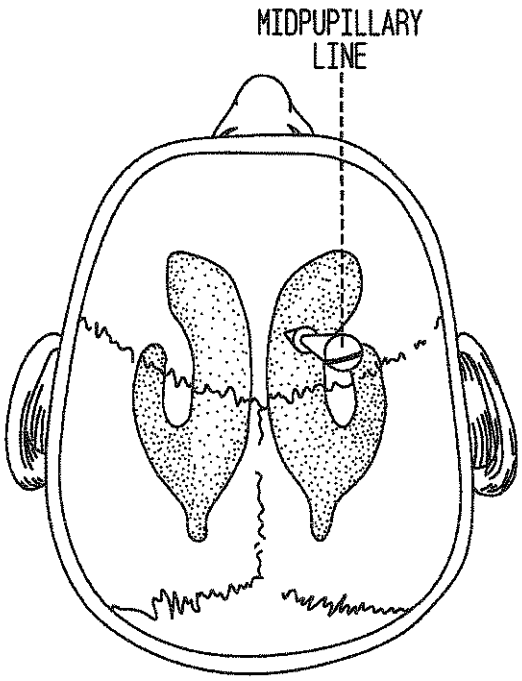


FIG. 8C

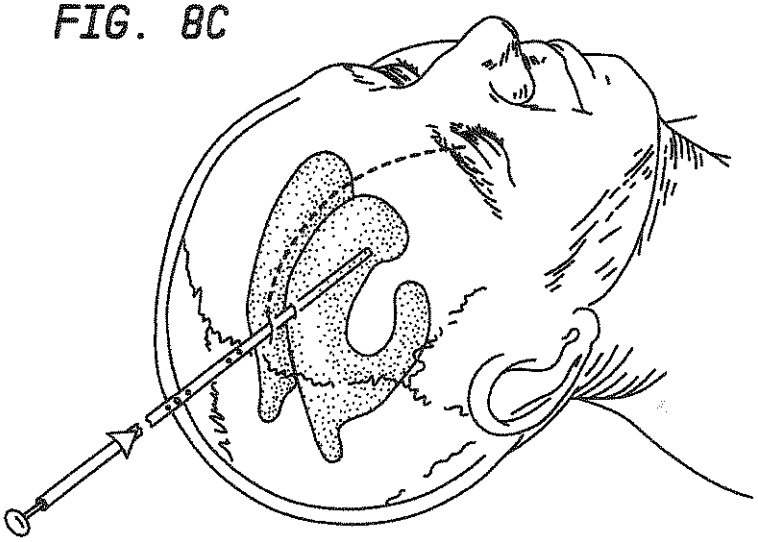


FIG. 9

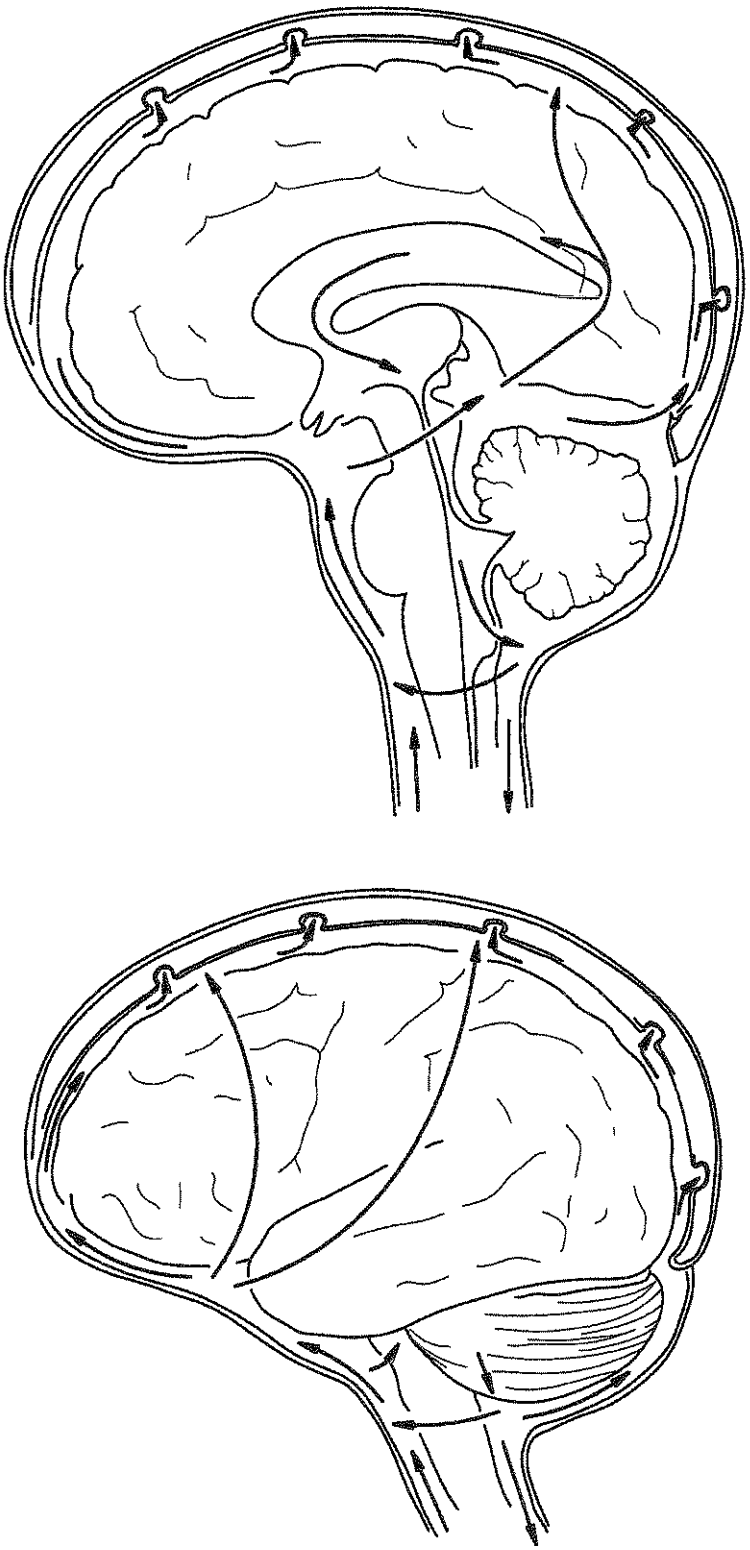


FIG. 10

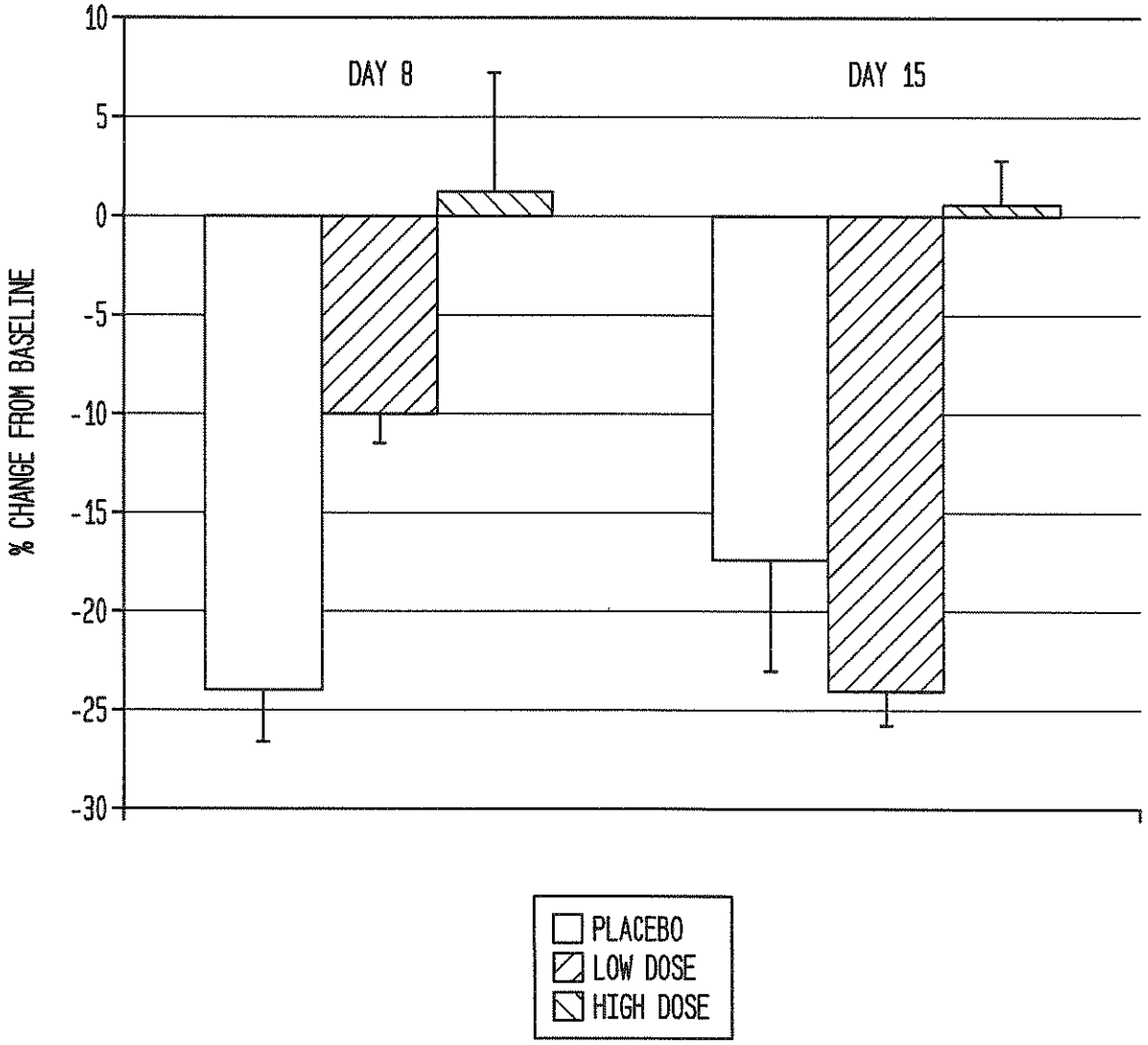

10
5
0
-5
-10
-15
-20
-25
-30
% CHANGE FROM BASELINE
DAY 8
DAY 15
PLACEBO
LOW DOSE
HIGH DOSE

FIG. 11

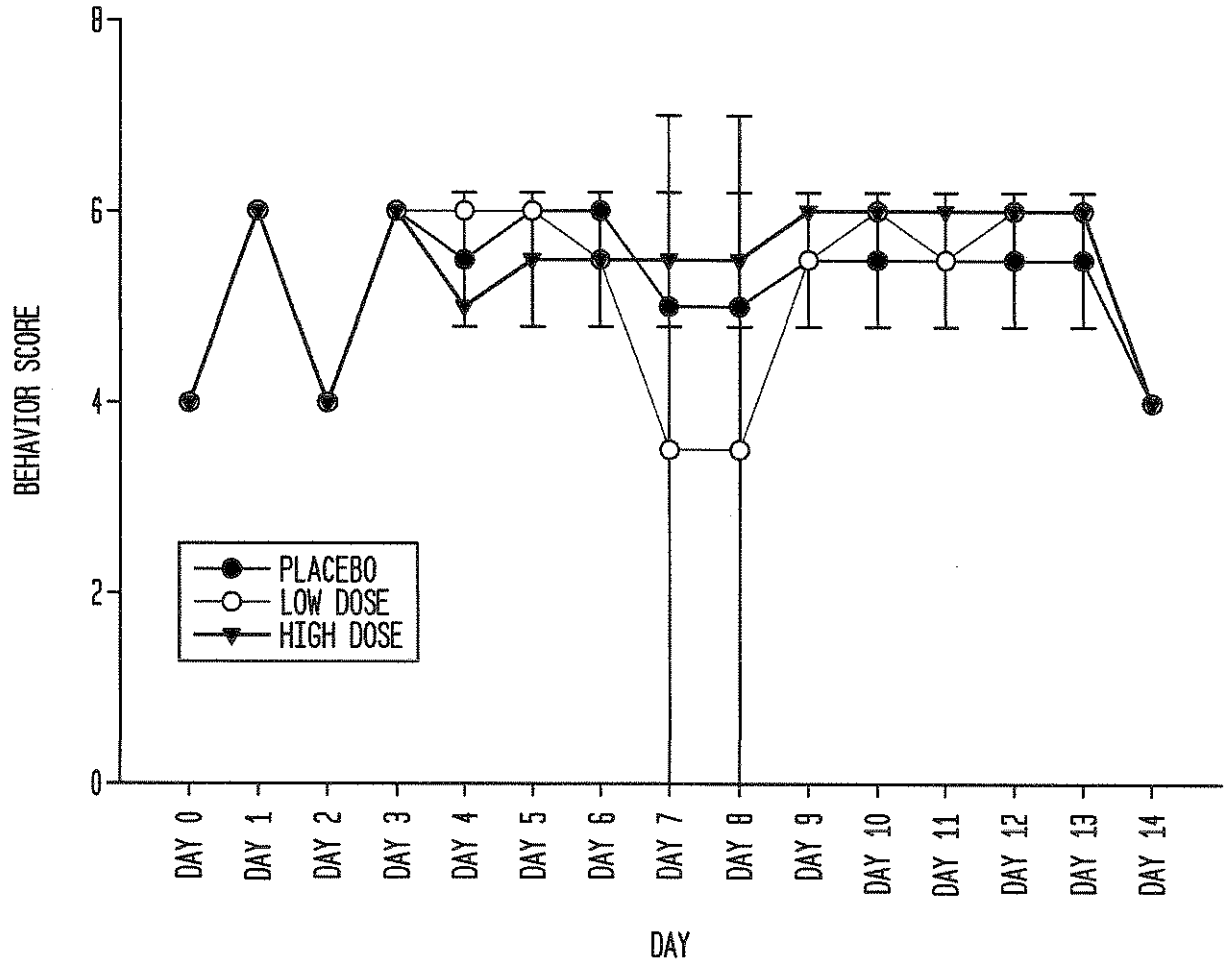
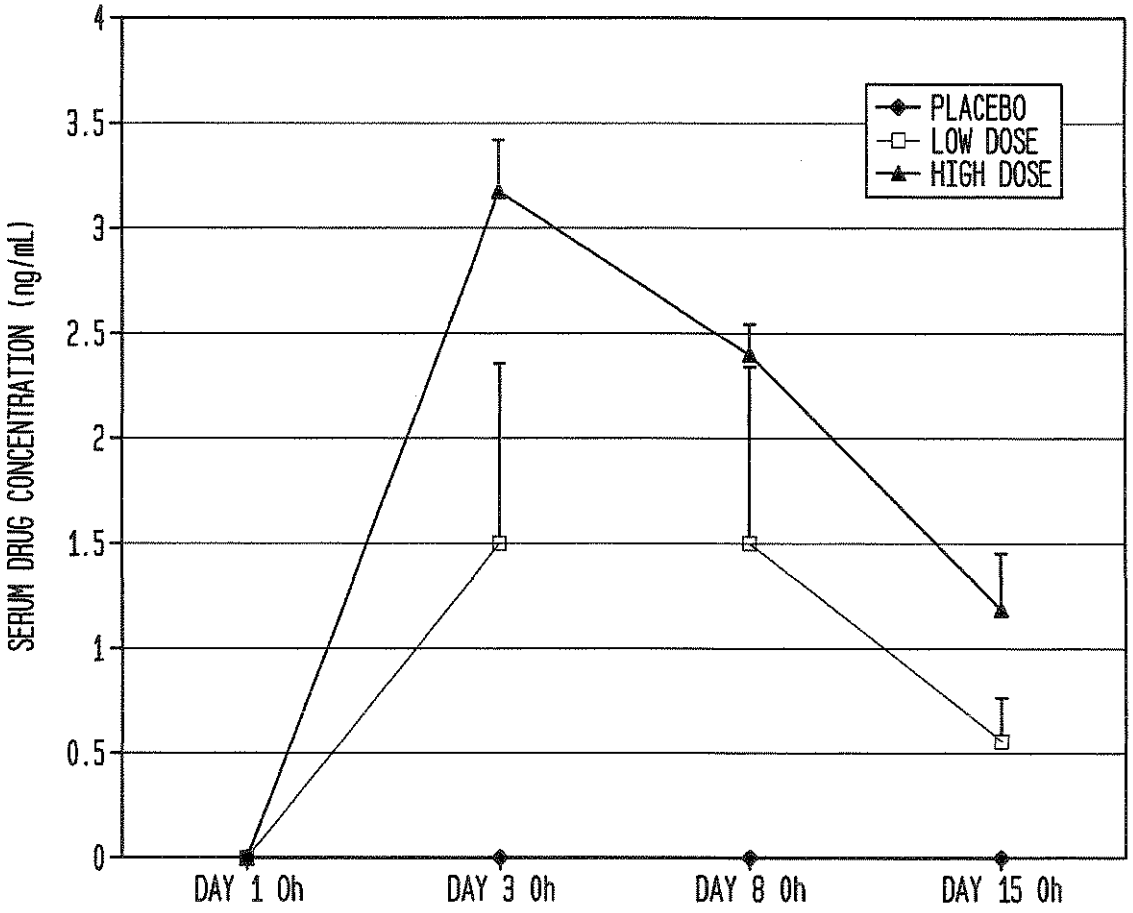
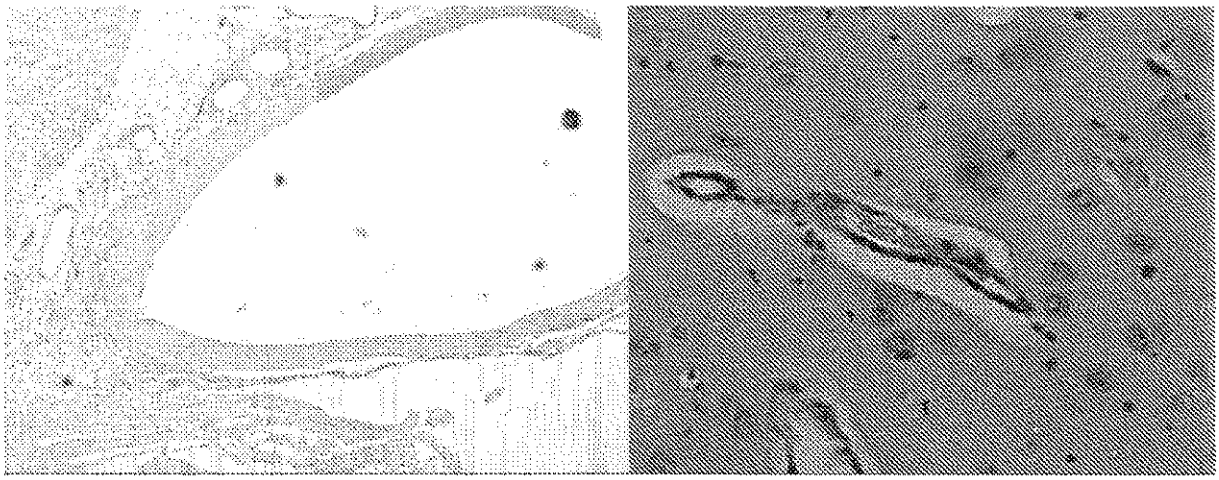

BEHAVIOR SCORE
8
6
4
2
0
BEHAVIOR SCORE
PLACEBO
LOW DOSE
HIGH DOSE
DAY 0
DAY 1
DAY 2
DAY 3
DAY 4
DAY 5
DAY 6
DAY 7
DAY 8
DAY 9
DAY 10
DAY 11
DAY 12
DAY 13
DAY 14
DAY

FIG. 12


SERUM DRUG CONCENTRATION (ng/mL)
4
3.5
3
2.5
2
1.5
1
0.5
0
PLACEBO
LOW DOSE
HIGH DOSE
DAY 1 0h
DAY 3 0h
DAY 8 0h
DAY 15 0h



A B

FIGURE 13

FIG. 14

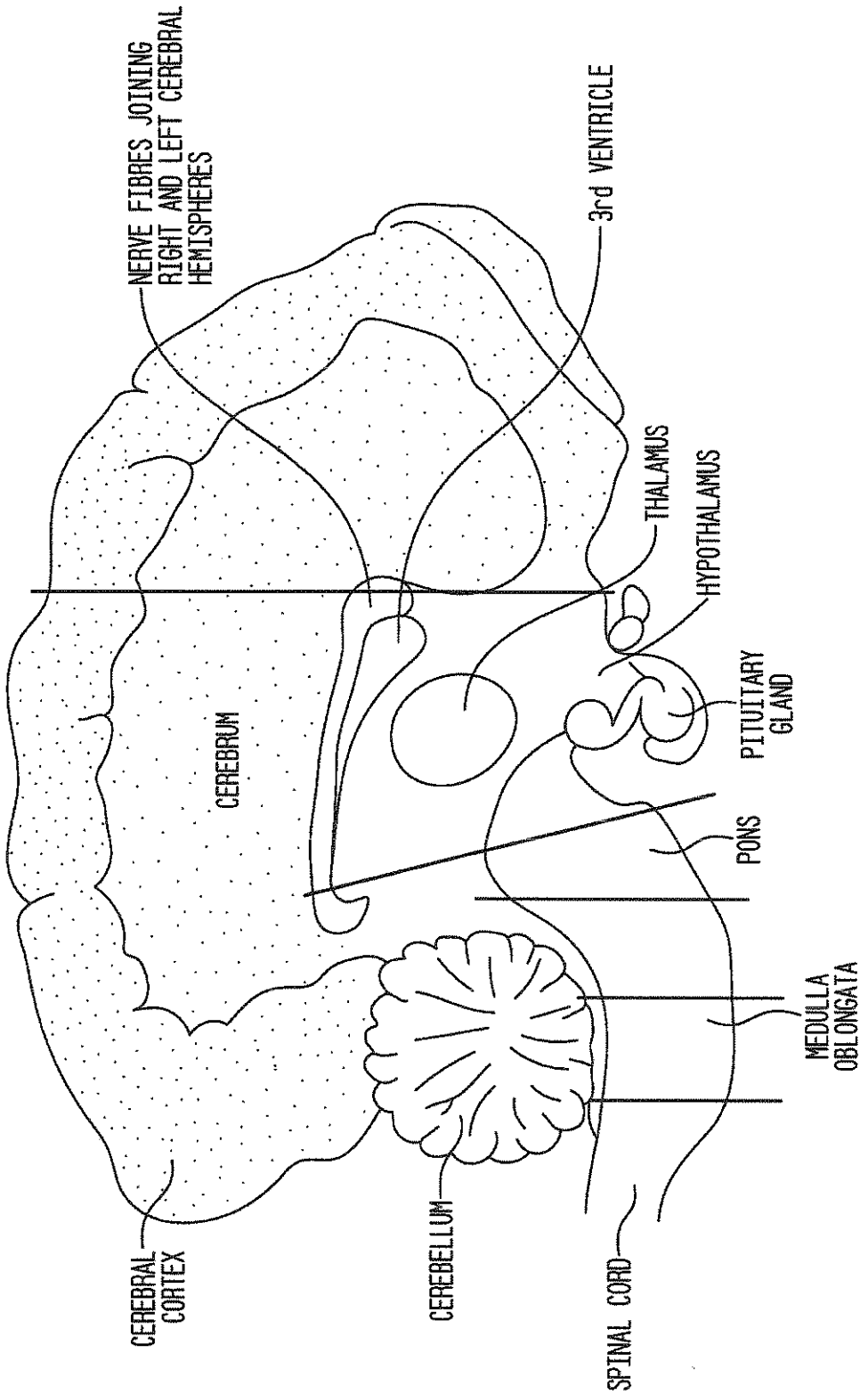

NERVE FIBRES JOINING RIGHT AND LEFT CEREBRAL HEMISPHERES
3rd VENTRICLE
THALAMUS
HYPOTHALAMUS
PITUITARY GLAND
PONS
MEDULLA OBLONGATA
CEREBRUM
CEREBRAL CORTEX
CEREBELLUM
SPINAL CORD

FIG. 15

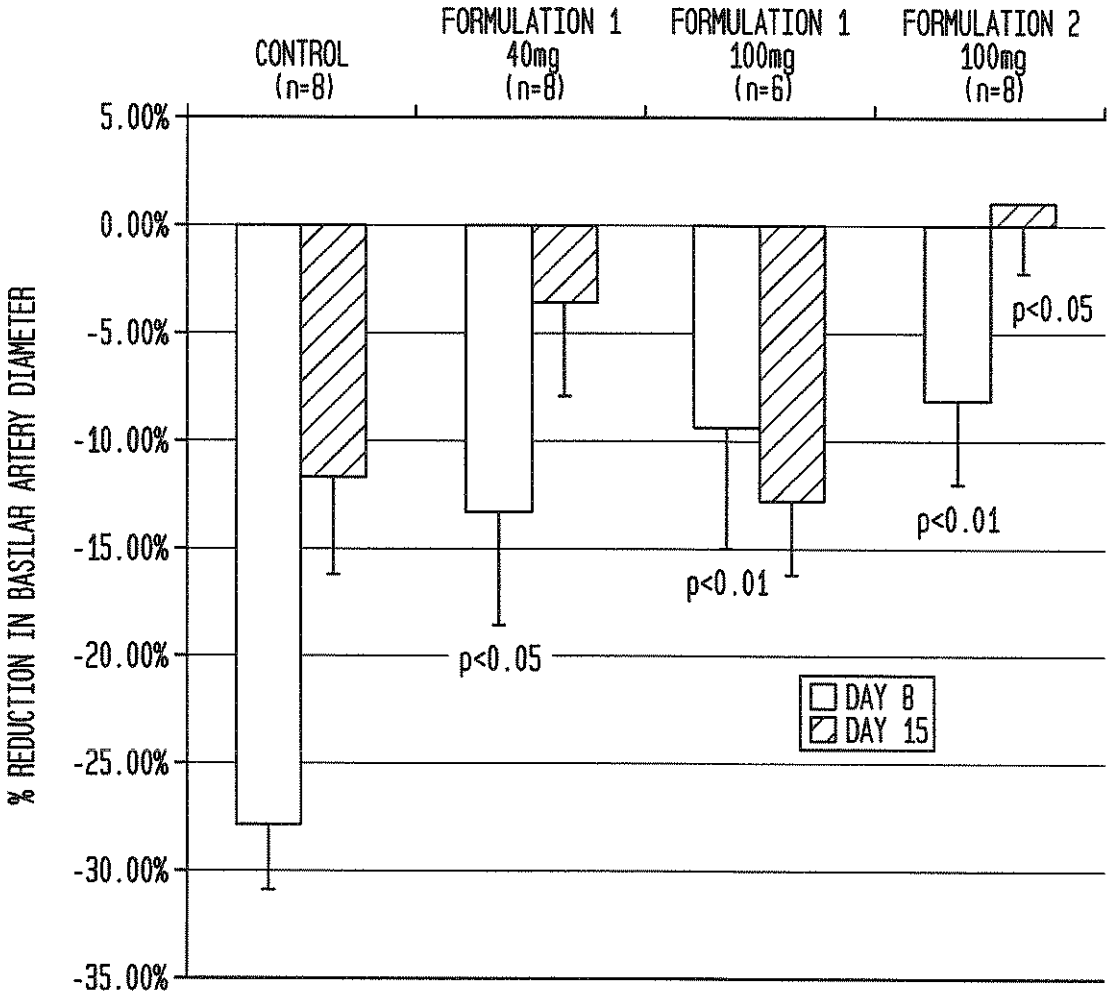

CONTROL
(n=8)
FORMULATION 1
40mg
(n=8)
FORMULATION 1
100mg
(n=6)
FORMULATION 2
100mg
(n=8)
% REDUCTION IN BASILAR ARTERY DIAMETER
5.00%
0.00%
-5.00%
-10.00%
-15.00%
-20.00%
-25.00%
-30.00%
-35.00%
p<0.05
p<0.01
p<0.01
p<0.05
DAY 8
DAY 15

FIG. 16

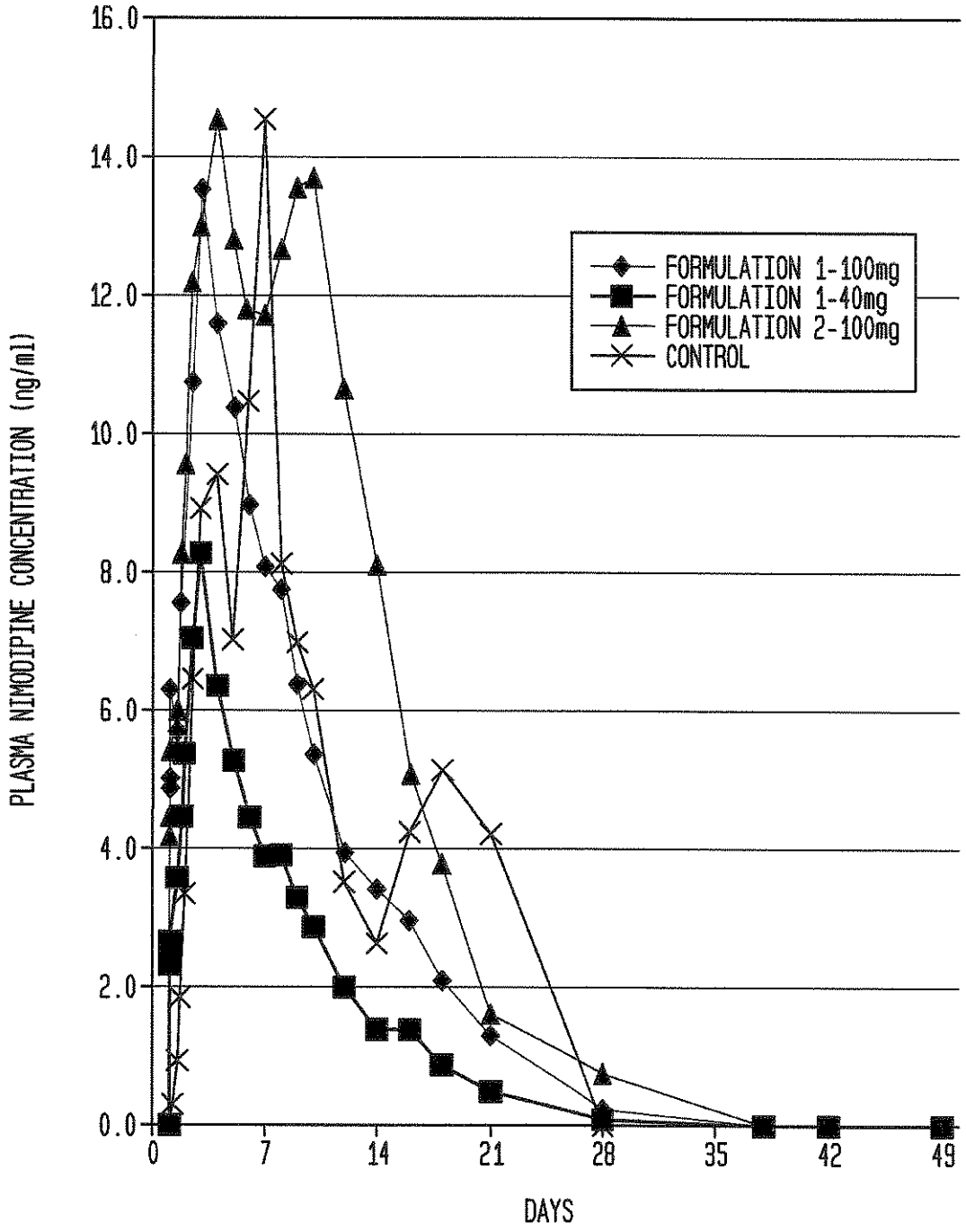
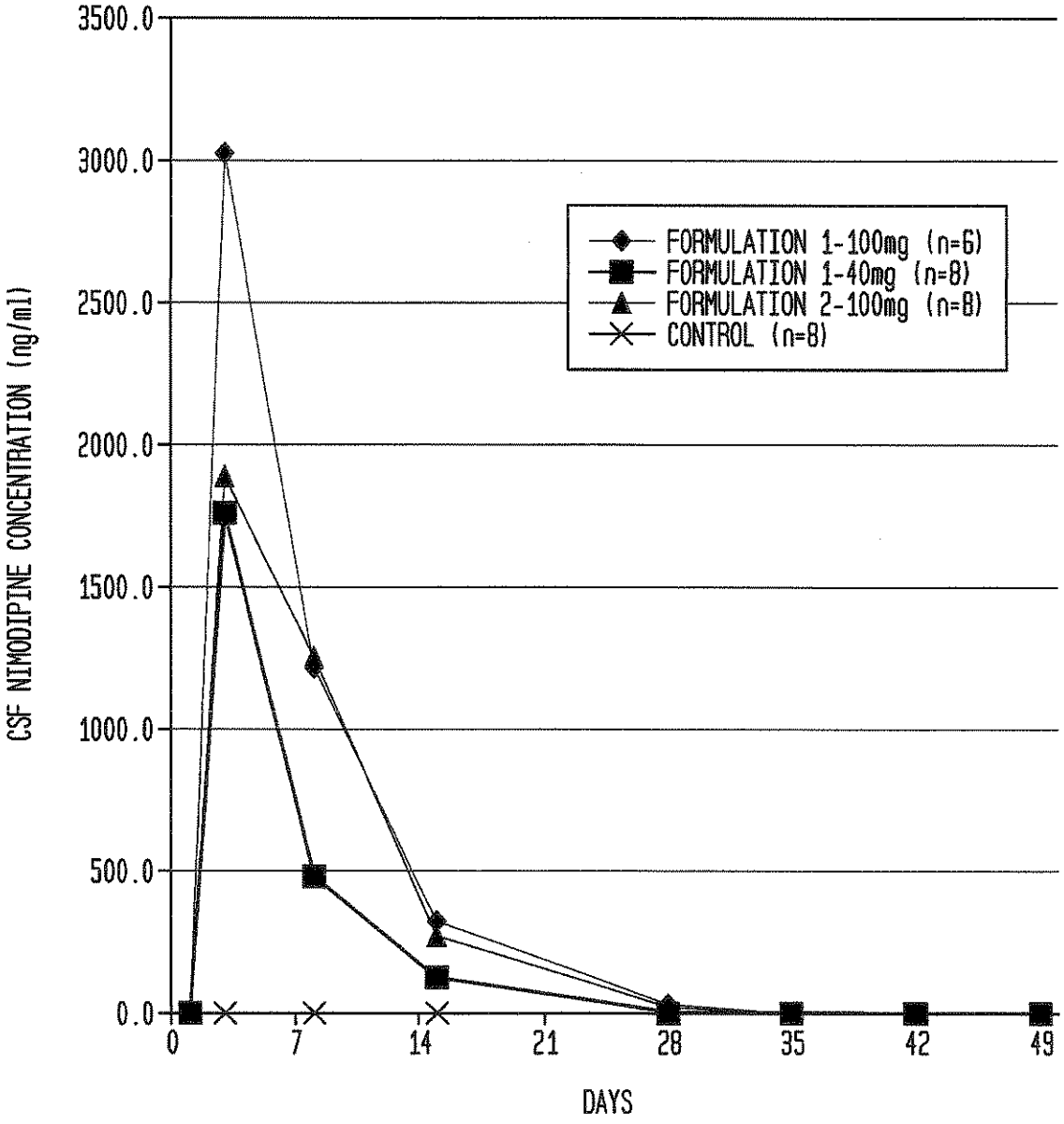

16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
PLASMA NIMODIPINE CONCENTRATION (ng/ml)
0
7
14
21
28
35
42
49
DAYS
FORMULATION 1-100mg
FORMULATION 1-40mg
FORMULATION 2-100mg
CONTROL

FIG. 17


3500.0
3000.0
2500.0
2000.0
1500.0
1000.0
500.0
0.0
CSF NIMODIPINE CONCENTRATION (ng/ml)
FORMULATION 1-100mg (n=6)
FORMULATION 1-40mg (n=8)
FORMULATION 2-100mg (n=8)
CONTROL (n=8)
0
7
14
21
28
35
42
49
DAYS