

Netter's Neuroscience Flash Cards – Section 1 – List 3rd Edition

<https://www.memrise.com/course/1560864/>

Section 1		Overview of the Nervous System (64 cards)
Plate 1-1	Neuronal Structure	
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8.6	Neuronal dysfunction and loss
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11.3	Initial segment
11.4	Nodes of Ranvier
11.5	Axon
11.6	Myelin sheath
11.7	Afferent axon ending on dendrite
11.8	Neurofilaments

11.9	Neurotubules
11.10	Axon (axoplasm)
11.11	Mitochondria
11.12	Glial process (astrocyte)
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13.3	Optic chiasm
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13.6	Acoustic area of temporal lobe cortex
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13.8	Lateral lemniscus
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13.10	Dorsal cochlear nucleus
13.11	Superior olivary complex
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14.3	Excitatory neurotransmitter
14.4	Presynaptic (auto) receptor
14.5	Postsynaptic neurotransmitter receptor
14.6	Excitatory neurotransmitter
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15.1	TrkB
15.2	NMDAR
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15.6	Calmodulin
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15.8	Active PKA
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16.1	Foramina of cribriform plate (olfactory nerve bundles)
16.2	Optic canal (optic nerve, ophthalmic artery)
16.3	Superior orbital fissure (CNs III, IV, VI), ophthalmic nerve (V1), superior ophthalmic vein
16.4	Foramen rotundum (maxillary nerve [V2])
16.5	Foramen ovale (mandibular nerve [V3], accessory meningeal artery, lesser petrosal artery (occasionally))
16.6	Foramen spinosum (middle meningeal artery and vein, meningeal branch of mandibular nerve)
16.7	Foramen lacerum (internal carotid artery, internal carotid nerve plexus)
16.8	Internal acoustic meatus (CNs VII and VIII, labyrinthine artery)
16.9	Jugular foramen (CNs IX, X, XI; inferior petrosal sinus, sigmoid sinus, posterior meningeal artery)
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16.11	Foramen magnum (medulla, meninges, vertebral arteries, spinal roots of CN XI)
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17.2	Falx cerebri
17.3	Inner and outer layers of dura mater
17.4	Arachnoid granulations
17.5	Superior sagittal sinus
17.6	Epidural space (a potential space)
17.7	Arachnoid membrane
17.8	Subarachnoid space
17.9	Pia mater
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18.2	Herniation of temporal lobe
18.3	Skull fracture affecting middle meningeal artery
18.4	Midline shift of falx cerebri and third ventricle
18.5	Compression of cerebral peduncle
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18.7	Compression of CN III
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19.3	Middle frontal gyrus
19.4	Superior frontal gyrus
19.5	Precentral gyrus
19.6	Central sulcus
19.7	Postcentral gyrus
19.8	Supramarginal gyrus
19.9	Angular gyrus
19.10	Parietooccipital sulcus
19.11	Calcarine fissure
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20.2	Visual association cortex
20.3	Primary visual cortex
20.4	Multisensory association areas of cortex
20.5	Primary auditory cortex
20.6	Wernicke's area
20.7	Secondary somatosensory cortex
20.8	Broca's area
20.9	Primary somatosensory cortex
20.10	Premotor cortex
20.11	Frontal eye fields
20.12	Primary motor cortex
20.13	Supplemental motor cortex
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21.1	Optic chiasm
21.2	Lamina terminalis
21.3	Anterior commissure
21.4	Thalamus
21.5	Fornix
21.6	Cingulate gyrus
21.7	Paracentral lobule
21.8	Corpus callosum
21.9	Cuneus
21.10	Calcarine cortex, upper bank
21.11	Calcarine sulcus (fissure)
21.12	Calcarine cortex, lower bank
21.13	Pineal gland
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22.1	Genu of corpus callosum
22.2	Olfactory tract
22.3	Pituitary gland

22.4	Optic tract
22.5	Mammillary bodies
22.6	Cerebral peduncles (crus cerebri)
22.7	Lateral geniculate body (nucleus)
22.8	Medial geniculate body (nucleus)
22.9	Pulvinar
22.10	Uncus
22.11	Parahippocampal gyrus
22.12	Medial occipitotemporal gyrus
22.13	Lateral (Sylvian) fissure
22.14	Orbital gyri
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23.1	Superior sagittal sinus
23.2	Cortical gyrus
23.3	Lateral ventricle
23.4	Thalamus
23.5	Third ventricle
23.6	Corpus callosum
23.7	Lateral ventricle
23.8	Thalamus
23.9	Occipital lobe
23.10	Midbrain
23.11	Pons
23.12	Cerebellum
23.13	Medulla
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24.1	Genu, corpus callosum
24.2	Head of caudate nucleus
24.3	Putamen
24.4	Columns of the fornix
24.5	Internal capsule
24.6	Thalamus
24.7	Hippocampal formation
24.8	Cingulate cortex
24.9	Lateral ventricle
24.10	Fornix
24.11	Colliculi
24.12	Hypothalamus
24.13	Cisterna magna
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25.1	Subarachnoid space
25.2	Frontal pole, lateral ventricles
25.3	Hippocampal formation
25.4	Temporal pole, lateral ventricle
25.5	Optic radiations
25.6	Site of lateral ventricle
25.7	Subarachnoid space
25.8	Cerebellum
25.9	Medulla
25.10	Cisterna magna
25.11	Subarachnoid space
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26.1	Genu of corpus callosum
26.2	Head of caudate nucleus
26.3	Columns of the fornix
26.4	Internal capsule (anterior limb, genu, posterior limb)
26.5	Insular cortex
26.6	Putamen
26.7	Globus pallidus
26.8	Clastrum

26.9	Tail of caudate nucleus
26.10	Choroid plexus of lateral ventricle
26.11	Occipital (posterior) horn of lateral ventricle
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27.1	Habenula
27.2	Stria medullaris
27.3	Stria terminalis
27.4	Fornix
27.5	Anterior nucleus of the thalamus
27.6	Anterior commissure
27.7	Cingulate cortex
27.8	Precommissural fornix
27.9	Septal nuclei
27.10	Olfactory tract
27.11	Mammillothalamic tract
27.12	Median forebrain bundle
27.13	Amygdala (nuclei)
27.14	Uncus
27.15	Parahippocampal gyrus
27.16	Hippocampus
27.17	Dentate gyrus
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28.1	Lateral fibers of the corpus callosum
28.2	Genu of the corpus callosum
28.3	Cortical association fibers
28.4	Splenium of the corpus callosum
28.5	Forceps minor
28.6	Genu of the corpus callosum
28.7	Body of the corpus callosum
28.8	Lateral fibers of the corpus callosum
28.9	Splenium of the corpus callosum
28.10	Forceps major
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29.1	Septum pellucidum
29.2	Head of caudate nucleus
29.3	Columns of fornix
29.4	Stria terminalis
29.5	Body of fornix
29.6	Thalamus
29.7	Crura of fornix
29.8	Parahippocampal gyrus
29.9	Dentate gyrus
29.10	Fimbria of hippocampus
29.11	Hippocampus
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30.1	Columns of fornix
30.2	Anterior tubercle
30.3	Stria terminalis
30.4	Stria medullaris
30.5	Pulvinar
30.6	Lateral geniculate body
30.7	Medial geniculate body
30.8	Inferior colliculus
30.9	Pineal
30.10	Habenular commissure
30.11	Hippocampus
30.12	Dentate gyrus
30.13	Third ventricle
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31.1	Anterior nuclei

31.2	Ventral anterior (VA) nucleus
31.3	Ventrolateral (VL) nucleus
31.4	Ventral posteromedial (VPM) nucleus
31.5	Ventral posterolateral (VPL) nucleus
31.6	Pulvinar
31.7	Lateral geniculate body (nucleus)
31.8	Medial geniculate body (nucleus)
31.9	Internal medullary lamina
31.10	Medial dorsal nucleus (MD)
31.11	Lateral posterior (LP) nucleus
31.12	Ventral posterolateral (VPL) nucleus
31.13	Reticular nucleus
31.14	Ventral posteromedial (VPM) nucleus
31.15	Centromedian (CM) nucleus
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32.1	Trochlear nerve (CN IV)
32.2	Facial nerve (CN VII)
32.3	Inferior cerebellar peduncle
32.4	Vestibular area
32.5	Olive
32.6	Hypoglossal trigone
32.7	Vagal trigone
32.8	Gracile tubercle
32.9	Cuneate tubercle
32.10	Facial colliculus
32.11	Medial eminence
32.12	Superior medullary velum
32.13	Inferior colliculus
32.14	Superior colliculus
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33.2	Trigeminal nerve (CN V)
33.3	Vestibulocochlear nerve (CN VIII)
33.4	Glossopharyngeal nerve (CN IX)
33.5	Hypoglossal nerve (CN XII)
33.6	Pyramidal decussation
33.7	Pyramid
33.8	Olive
33.9	Middle cerebellar peduncle
33.10	Lateral geniculate body
33.11	Cerebral peduncle
33.12	Infundibular stalk
33.13	Optic chiasm
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34.1	Superior cerebellar peduncle
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34.3	Vermis
34.4	Emboliform nucleus
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34.6	Globose nucleus
34.7	Fastigial nucleus
34.8	Fourth ventricle
34.9	Decussation of the superior cerebellar peduncles
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35.2	Axis (C2 vertebra)
35.3	C7 vertebra
35.4	T1 vertebra
35.5	L1 vertebra
35.6	L5 vertebra

35.7	Intervertebral disc
35.8	Vertebral body
35.9	Pedicle
35.10	Spinous process
35.11	Transverse process
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36.1	First cervical nerve
36.2	Cervical enlargement
36.3	C7 nerve
36.4	Lumbosacral enlargement
36.5	L1 nerve
36.6	Conus medullaris
36.7	Cauda equina
36.8	L5 nerve
36.9	S1 nerve
36.10	Filum terminale
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37.1	Rami communicans
37.2	Dura mater
37.3	Dorsal root
37.4	Dorsal root (spinal) ganglion
37.5	Arachnoid membrane
37.6	Filaments of a dorsal root
37.7	Denticulate ligament
37.8	Ventral root
37.9	Filaments of a ventral root
37.10	Anterior median fissure
37.11	Anterior funiculus
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38.1	Ventral ramus (intercostal nerve)
38.2	Spinal nerve
38.3	Dorsal root (spinal) ganglion
38.4	Dorsal root
38.5	Rami communicans
38.6	Ventral root
38.7	Sympathetic ganglion
38.8	Epidural space with epidural fat
38.9	Dura mater
38.10	Subarachnoid space
38.11	Filum terminale
38.12	Cauda equina
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39.5	Dorsolateral fasciculus (of Lissauer)
39.6	Fasciculus cuneatus
39.7	Fasciculus gracilis
39.8	Anterior white commissure
39.9	Lateral corticospinal tract
39.10	Vestibulospinal tracts
39.11	Anterior corticospinal tract
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40.1	Anterior horn of left lateral ventricle
40.2	Body of left lateral ventricle
40.3	Inferior (temporal) horn of left lateral ventricle
40.4	Posterior (occipital) horn of left lateral ventricle
40.5	Cerebral aqueduct
40.6	Fourth ventricle

40.7	Left lateral foramen of Luschka
40.8	Median foramen of Magendie
40.9	Third ventricle
40.10	Left interventricular foramen of Monro
40.11	Right lateral ventricle
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41.1	Lateral ventricle
41.2	Body of caudate nucleus
41.3	Choroid plexus of lateral ventricle
41.4	Body of fornix
41.5	Choroid plexus of third ventricle
41.6	Thalamus
41.7	Third ventricle
41.8	Hypothalamus
41.9	Choroid plexus of lateral ventricle
41.10	Temporal horn of lateral ventricle
41.11	Hippocampus
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42.1	Habenular commissure
42.2	Cerebral aqueduct
42.3	Superior medullary velum
42.4	Inferior medullary velum
42.5	Choroid plexus of fourth ventricle
42.6	Central canal of spinal cord
42.7	Median aperture (foramen of Magendie)
42.8	Fourth ventricle
42.9	Posterior commissure
42.10	Interventricular foramen of Monro
42.11	Choroid plexus of third ventricle
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43.1	Subarachnoid space
43.2	Frontal pole of lateral ventricle
43.3	Interventricular foramen of Monro
43.4	Third ventricle
43.5	Temporal pole of lateral ventricle
43.6	Frontal pole of lateral ventricle
43.7	Third ventricle
43.8	Cisterns around brain stem
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44.1	Arachnoid membrane
44.2	Dura mater
44.3	Bridging veins
44.4	Choroid plexus of lateral ventricle
44.5	Superior sagittal sinus
44.6	Subarachnoid space
44.7	Arachnoid granulations
44.8	Cistern of the great cerebral vein
44.9	Median foramen of Magendie
44.10	Subarachnoid space
44.11	Choroid plexus of fourth ventricle
44.12	Lateral foramen of Luschka
44.13	Interpeduncular cistern
44.14	Choroid plexus of third ventricle
Plate 1-45	Arterial Supply to the Brain and Meninges
45.1	Right and left middle cerebral arteries
45.2	Right and left anterior cerebral arteries
45.3	Right posterior communicating artery
45.4	Cavernous sinus
45.5	Right external carotid artery
45.6	Carotid body

45.7	Right vertebral artery
45.8	Right internal carotid artery
45.9	Basilar artery
45.10	Right and left posterior cerebral arteries
45.11	Left middle meningeal artery
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46.1	Middle cerebral artery origin
46.2	Anterior cerebral artery origin
46.3	Siphon portion of internal carotid artery
46.4	Basilar artery
46.5	Fourth segment of vertebral artery
46.6	Carotid bifurcation
46.7	First segment of vertebral artery
46.8	Proximal subclavian artery
Plate 1-47	Arterial Distribution to the Brain: Basal View
47.1	Anterior communicating artery
47.2	Anterior cerebral artery
47.3	Internal carotid artery
47.4	Medial and lateral lenticulostriate arteries
47.5	Middle cerebral artery
47.6	Posterior communicating artery
47.7	Posterior cerebral artery
47.8	Superior cerebellar artery
47.9	Internal auditory (labyrinthine) artery
47.10	Anterior inferior cerebellar artery
47.11	Vertebral artery
47.12	Anterior spinal artery
47.13	Posterior inferior cerebellar artery
47.14	Posterior spinal artery
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48.1	Anterior communicating artery
48.2	Anterior cerebral artery
48.3	Middle cerebral artery
48.4	Posterior communicating artery
48.5	Anterior choroidal artery
48.6	Posterior medial choroidal artery
48.7	Posterior lateral choroidal artery
48.8	Choroid plexus of lateral ventricle
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49.1	Pericallosal branches of anterior cerebral artery
49.2	Anterior cerebral arteries
49.3	Recurrent artery of Heubner
49.4	Anterior communicating artery
49.5	Temporal branches of middle cerebral artery
49.6	Precentral, central, and parietal branches of middle cerebral artery
49.7	Insula
49.8	Medial and lateral lenticulostriate arteries
49.9	Frontal pole (horn) of lateral ventricle
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50.1	Anterior cerebral artery
50.2	Anterior communicating artery
50.3	Internal carotid artery
50.4	Middle cerebral artery
50.5	Posterior communicating artery
50.6	Posterior cerebral artery
50.7	Basilar artery
50.8	Vertebral artery
50.9	Cavernous sinus
50.10	Adenohypophysis (anterior pituitary gland)
50.11	Neurohypophysis (posterior pituitary gland)

50.12	Inferior hypophyseal artery
50.13	Superior hypophyseal artery
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51.1	Left anterior cerebral artery
51.2	Left middle cerebral artery (MCA)
51.3	Lateral orbitofrontal branch of MCA
51.4	Ascending frontal (candelabra) branch of MCA
51.5	Precentral branch of MCA
51.6	Central branch of MCA
51.7	Anterior parietal branch of MCA
51.8	Posterior parietal branch of MCA
51.9	Angular branch of MCA
51.10	Posterior temporal branches of MCA
51.11	Anterior temporal branches of MCA
51.12	Right anterior cerebral artery (ACA)
51.13	Pericallosal branch of ACA
51.14	Right posterior cerebral artery (PCA)
51.15	Parietooccipital branch of PCA
51.16	Calcarine branch of PCA
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52.1	Middle cerebral artery
52.2	Anterior cerebral artery
52.3	Internal carotid artery
52.4	Basilar artery
52.5	Vertebral artery
52.6	Common carotid artery
52.7	Subclavian artery
52.8	Brachiocephalic trunk
52.9	Aortic arch
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53.1	Anterior cerebral artery
53.2	Middle cerebral artery
53.3	Posterior communicating artery
53.4	Left internal carotid artery
53.5	Superior cerebellar artery
53.6	Basilar artery
53.7	Internal auditory (labyrinthine) artery
53.8	Anterior inferior cerebellar artery
53.9	Anterior meningeal branch of vertebral artery
53.10	Anterior spinal artery
53.11	Left posterior cerebral artery
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54.1	Anterior spinal artery
54.2	Vertebral artery
54.3	Anterior radicular artery
54.4	Artery of Adamkiewicz (radicular artery)
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54.6	Posterior spinal arteries
54.7	Posterior radicular arteries
54.8	Posterior intercostal arteries
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55.1	Posterior spinal arteries
55.2	Anterior spinal artery
55.3	Anterior radicular artery
55.4	Posterior radicular arteries
55.5	Spinal branch of dorsal ramus of posterior intercostal artery
55.6	Dorsal ramus of posterior intercostal artery
55.7	Posterior intercostal arteries
55.8	Central branches to left side of the spinal cord
Plate 1-56	Meninges and Superficial Cerebral Veins

56.1	Arachnoid granulation
56.2	Superior sagittal sinus
56.3	Emissary vein
56.4	Subarachnoid space
56.5	Arachnoid membrane
56.6	Cerebral artery
56.7	Subdural space (potential space)
56.8	Dura mater
56.9	Diploid vein
56.10	Falx cerebri
56.11	Bridging cerebral vein
Plate 1-57	Venous Sinuses
57.1	Cavernous sinus
57.2	Superior and inferior petrosal sinuses
57.3	Tentorium cerebelli
57.4	Straight sinus
57.5	Falx cerebri
57.6	Confluence of sinuses
57.7	Superior sagittal sinus
57.8	Great cerebral vein (of Galen)
57.9	Transverse sinus
57.10	Sigmoid sinus
57.11	Inferior sagittal sinus
Plate 1-58	Venous Sinuses
58.1	Superior sagittal sinus
58.2	Transverse sinus
58.3	Sigmoid sinus
58.4	Internal jugular vein
58.5	Cerebral veins
58.6	Internal cerebral vein
58.7	Great cerebral vein of Galen
58.8	Basal vein of Rosenthal
58.9	Straight sinus
58.10	Confluence of sinuses
Plate 1-59	Neurulation
59.1	Neural plate of forebrain
59.2	Neural groove
59.3	Neural folds
59.4	Future neural crest
59.5	Neural plate
59.6	Fused neural folds
59.7	Caudal neuropore
59.8	Neural crest
Plate 1-60	Neural Tube Development and Neural Crest Formation
60.1	Fused neural folds
60.2	Caudal neuropore
60.3	Ectoderm
60.4	Neural crest
60.5	Neural tube
60.6	Sulcus limitans
60.7	Sensory neurons of dorsal root (spinal) ganglion
60.8	Visceral motor (autonomic) neuron of sympathetic ganglion
60.9	Chromaffin cells of adrenal medulla
Plate 1-61	Development of Peripheral Axons
61.1	Dorsal (sensory) root
61.2	Dorsal (sensory) ganglion
61.3	Ventral (motor) root
61.4	Dorsal ramus of spinal nerve
61.5	Ventral ramus of spinal nerve
61.6	White ramus communicans

61.7	Gray ramus communicans
61.8	Sympathetic chain (trunk) ganglion
61.9	Splanchnic nerve
61.10	Sympathetic collateral (trunk) ganglion
Plate 1-62	Early Brain Development: 36-Day-Old Embryo
62.1	Optic cup
62.2	Telencephalic vesicle
62.3	Diencephalon
62.4	Midbrain (mesencephalon)
62.5	Hindbrain (metencephalon)
62.6	Hindbrain (myelencephalon)
62.7	Spinal cord
62.8	Alar plate
62.9	Basal plate
62.10	Sulcus limitans
62.11	Lamina terminalis
Plate 1-63	Early Brain Development: 49-Day-Old Embryo and 3-Month-Old Embryo
63.1	Telencephalic vesicle (cerebral hemispheres, neocortex)
63.2	Diencephalon
63.3	Mesencephalon
63.4	Metencephalon (cerebellum, pons)
63.5	Myelencephalon (medulla oblongata)
63.6	Cervical flexure
63.7	Pontine flexure
63.8	Cerebellum
63.9	Cervical enlargement of spinal cord
63.10	Lumbosacral enlargement of spinal cord
63.11	Hypophysis (pituitary gland)
Plate 1-64	Development of the Ventricles
64.1	Lateral ventricle
64.2	Interventricular foramen of Monro
64.3	Third ventricle
64.4	Cerebral aqueduct
64.5	Fourth ventricle
64.6	Lateral aperture (foramen of Luschka) of the fourth ventricle
64.7	Median aperture (foramen of Magendie) of the fourth ventricle
64.8	Central canal of the spinal cord
64.9	Anterior horn of left lateral ventricle in frontal lobe
64.10	Inferior horn of left lateral ventricle in temporal lobe
64.11	Posterior horn of left lateral ventricle in occipital lobe