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Pocket Atlas of Sectional Anatomy

Computed Tomography and
Magnetic Resonance Imaging

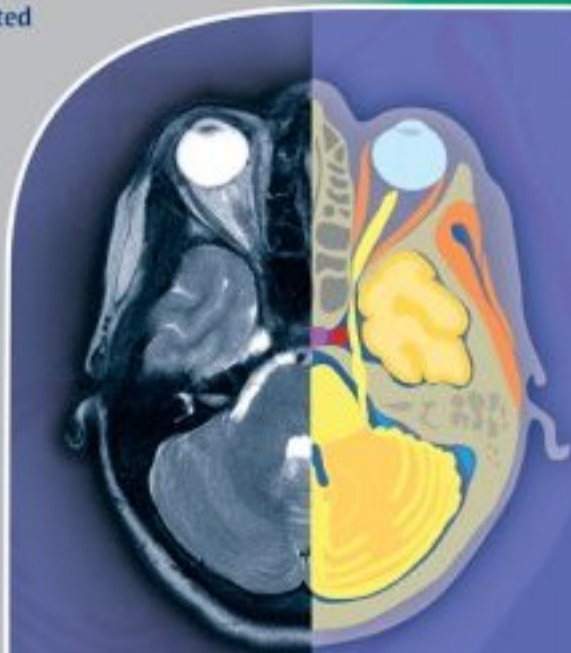
T. B. Moeller

E. Reif

Volume I: Head and Neck

3rd edition,
revised and updated

basic sciences



Thieme



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Pocket Atlas of Sectional Anatomy

**Computed Tomography
and Magnetic Resonance Imaging**

**Volume I
Head and Neck**

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Third edition, revised and updated

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**Dedicated in love and gratitude
to our parents,
Alfred and Friedel Moeller and
Emil and Edith Reif.**

Preface

This book presents the basic anatomy needed to interpret modern sectional images.

In making a diagnosis from sectional images, even experienced diagnosticians must adapt their thinking to the sectional portrayal of anatomic features. The *Pocket Atlas of Sectional Anatomy* aims to facilitate this process by presenting the two modalities that have the greatest practical importance in modern sectional imaging: computed tomography and magnetic resonance imaging.

The importance of these modalities rests partly on their high resolution. So many of the images were produced with 3-tesla instruments. We wish to express our gratitude to the manufacturers, Siemens and Philips.

We have attempted to provide vivid, comprehensive coverage of sectional anatomic details while still making the book compact and easy to use. The four-color illustrations were considered an essential part of this goal to maintain clarity despite the quantity of information.

The contents of the three volumes (I: Head and Neck, II: Chest and Abdomen, and III: Musculoskeletal System), which comprise a unit, follow a strict format in which each CT or MR image is accompanied by a correlative color diagram and a reduced-scale schematic drawing indicating the level of the section. This format conveys maximum information in a minimum of space.

All the images were obtained in patients or volunteers. We wish to express our special gratitude for the production of the images to our radiologic technologists, Monika Baumann, Silke Koehl, Sabine Mattil, Stefanie Mueller, Heike Philippi, Brigitte Schild, and Petra Weber, as well as to Birgit Reuter and Marion Hellinger from the Siemens manufacturing center. We sincerely thank our fellow physicians, Nadine Dillinger, Heike Ringling, Sigrid Roth, and especially Simone Zenner, for their helpful discussions and suggestions.

Torsten B. Moeller
Emil Reif

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Cranial CT—Axial

Cranial CT—Coronal

Cranial MRI—Axial

Cranial MRI—Sagittal

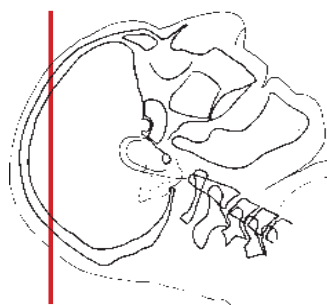
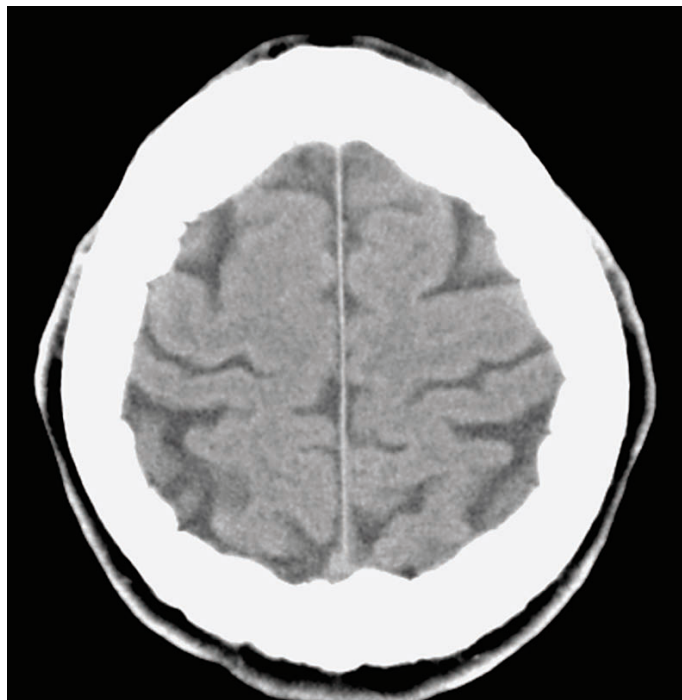
Cranial MRI—Coronal

Neck—Axial

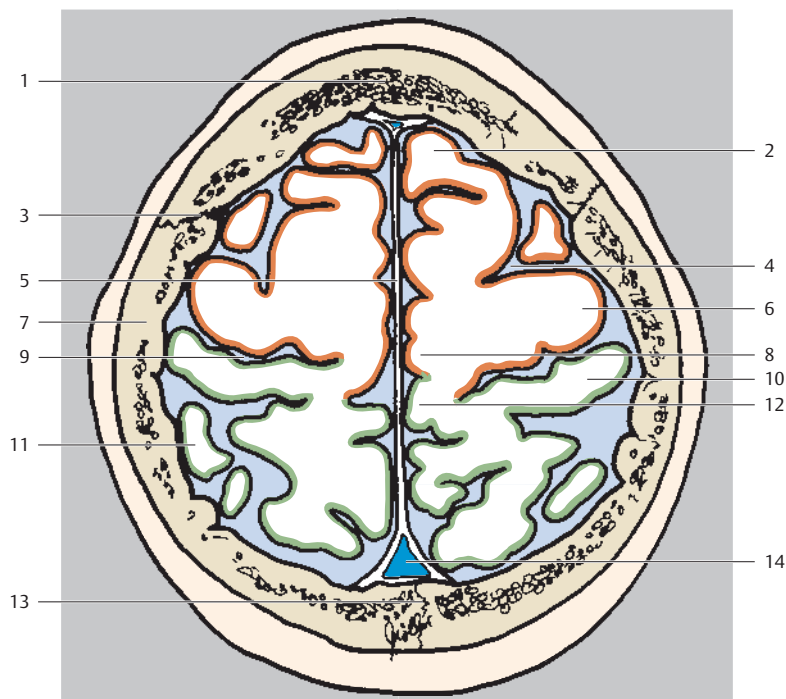
Neck—Sagittal

Neck—Coronal

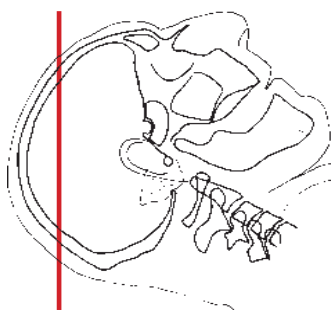




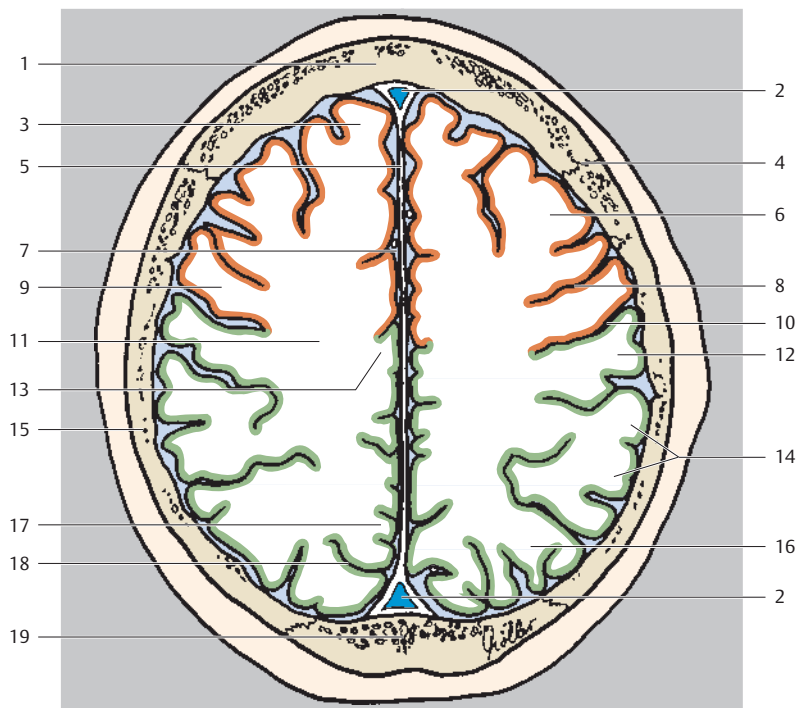
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-  Parietal lobe



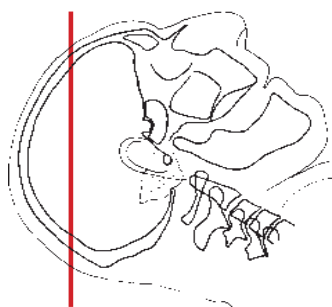
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|--------------------------|-----------------------------|
| 1 Frontal bone | 8 Paracentral lobule |
| 2 Superior frontal gyrus | 9 Central sulcus |
| 3 Coronal suture | 10 Postcentral gyrus |
| 4 Precentral sulcus | 11 Superior parietal lobule |
| 5 Falx cerebri | 12 Precuneus |
| 6 Precentral gyrus | 13 Sagittal suture |
| 7 Parietal bone | 14 Superior sagittal sinus |



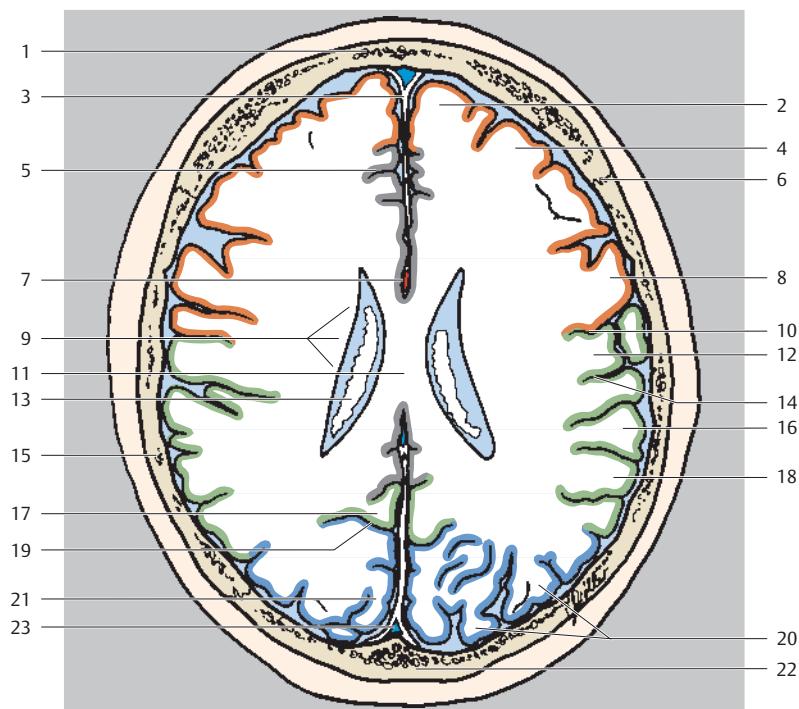
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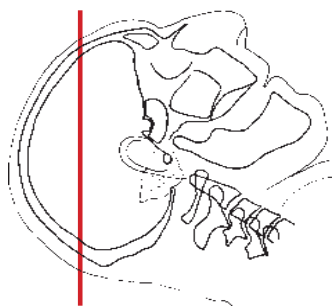
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| 1 Frontal bone | 11 Cerebral white matter (semioval center) |
| 2 Superior sagittal sinus | 12 Postcentral gyrus |
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| 8 Precentral sulcus | 18 Parieto-occipital sulcus |
| 9 Precentral gyrus | 19 Occipital bone |
| 10 Central sulcus | |



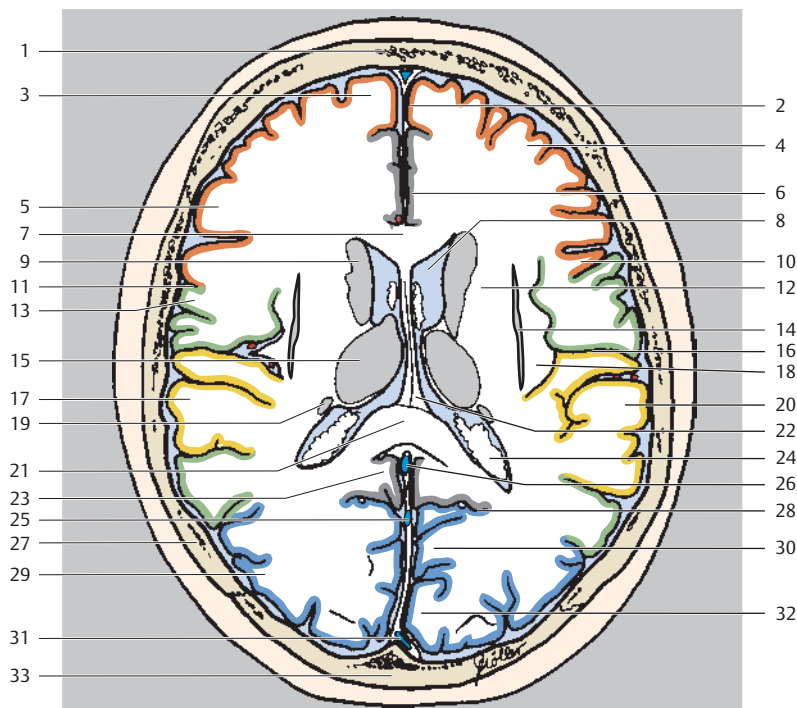
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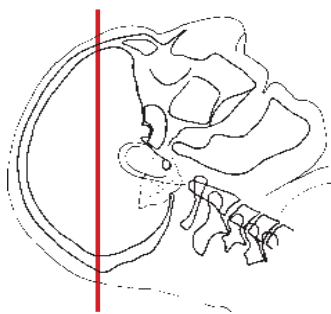
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|--------------------------|---------------------------------------|
| 1 Frontal bone | 12 Postcentral gyrus |
| 2 Superior frontal gyrus | 13 Lateral ventricle (choroid plexus) |
| 3 Falx cerebri | 14 Postcentral sulcus |
| 4 Middle frontal gyrus | 15 Parietal bone |
| 5 Cingulate sulcus | 16 Supramarginal gyrus |
| 6 Coronal suture | 17 Precuneus |
| 7 Pericallosal artery | 18 Angular gyrus |
| 8 Precentral gyrus | 19 Parieto-occipital sulcus |
| 9 Corona radiata | 20 Occipital gyri |
| 10 Central sulcus | 21 Cuneus |
| 11 Corpus callosum | 22 Occipital bone |
| | 23 Superior sagittal sinus |



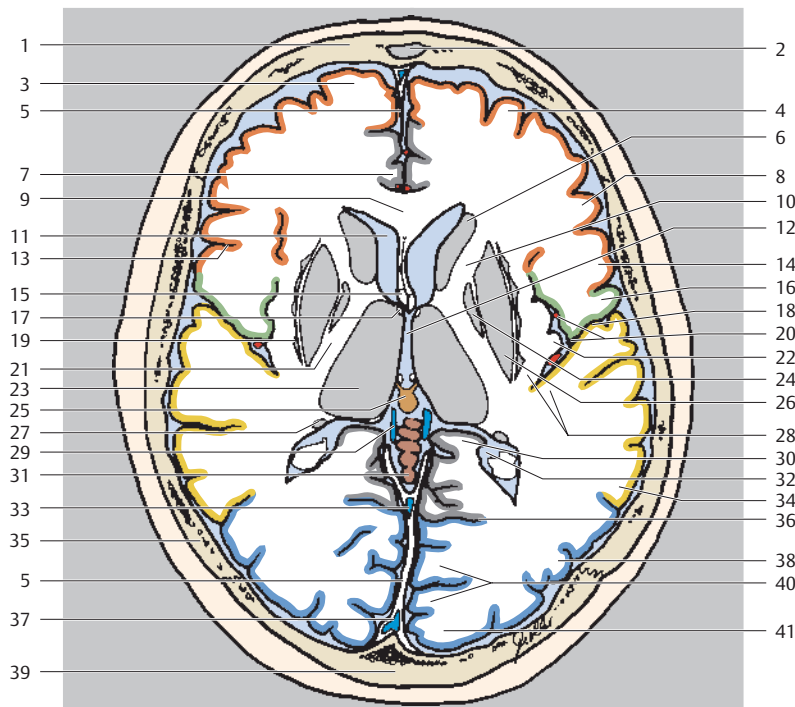
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- Occipital lobe



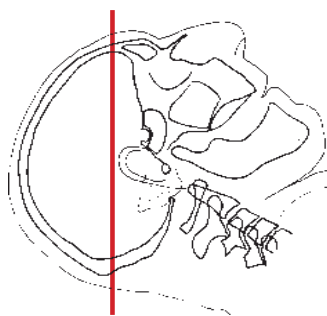
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|-------------------------------------|---|
| 1 Frontal bone | 18 Insula |
| 2 Falx cerebri | 19 Caudate nucleus (tail) |
| 3 Superior frontal gyrus | 20 Superior temporal gyrus |
| 4 Middle frontal gyrus | 21 Corpus callosum (splenium) |
| 5 Inferior frontal gyrus | 22 Fornix |
| 6 Cingulate gyrus | 23 Cingulum |
| 7 Corpus callosum (trunk) | 24 Lateral ventricle (collateral trigone, choroid plexus) |
| 8 Lateral ventricle (anterior horn) | 25 Straight sinus |
| 9 Caudate nucleus (head) | 26 Great cerebral vein (vein of Galen) |
| 10 Precentral gyrus | 27 Parietal bone |
| 11 Central sulcus | 28 Parieto-occipital sulcus |
| 12 Corona radiata | 29 Occipital gyri |
| 13 Postcentral gyrus | 30 Cuneus |
| 14 Claustrum | 31 Superior sagittal sinus |
| 15 Thalamus | 32 Striate cortex |
| 16 Lateral sulcus | 33 Occipital bone |
| 17 Temporal operculum | |



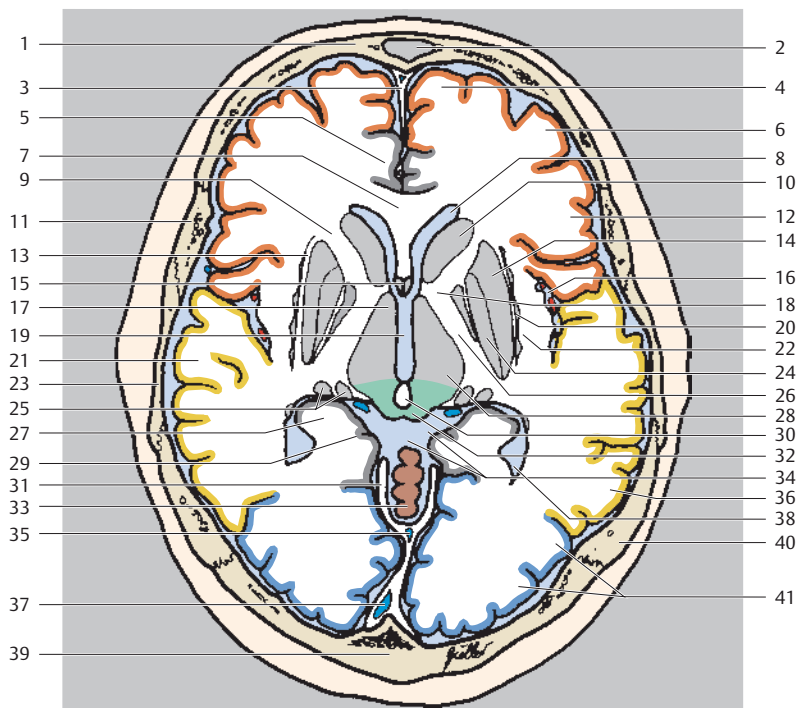
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- Temporal lobe
- Parietal lobe
- Occipital lobe
- Cerebellum



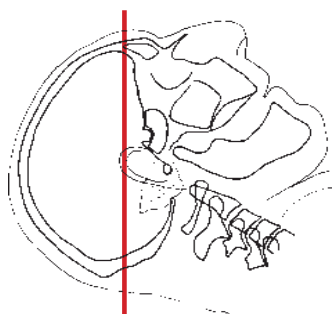
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|--|--|
| 1 Frontal bone | 21 Internal capsule (posterior limb) |
| 2 Frontal sinus | 22 Insula |
| 3 Superior frontal gyrus | 23 Thalamus |
| 4 Middle frontal gyrus | 24 Globus pallidus (pallidum) |
| 5 Falx cerebri | 25 Pineal gland |
| 6 Caudate nucleus (head) | 26 Putamen |
| 7 Cingulate gyrus | 27 Caudate nucleus (tail) |
| 8 Inferior frontal gyrus | 28 Transverse temporal gyrus |
| 9 Corpus callosum (genu) | 29 Internal cerebral vein |
| 10 Internal capsule (anterior limb) | 30 Hippocampus |
| 11 Lateral ventricle (anterior horn) | 31 Vermis of cerebellum |
| 12 Third ventricle | 32 Lateral ventricle (trigone with choroid plexus) |
| 13 Central sulcus | 33 Straight sinus |
| 14 Precentral gyrus | 34 Middle temporal gyrus |
| 15 Fornix | 35 Parietal bone |
| 16 Postcentral gyrus | 36 Parieto-occipital sulcus |
| 17 Interventricular foramen (foramen of Monro) | 37 Superior sagittal sinus |
| 18 Lateral sulcus | 38 Occipital gyri |
| 19 Claustrum | 39 Occipital bone |
| 20 Insular arteries in the cistern of lateral cerebral fossa (insular) | 40 Striate cortex |
| | 41 Occipital pole |



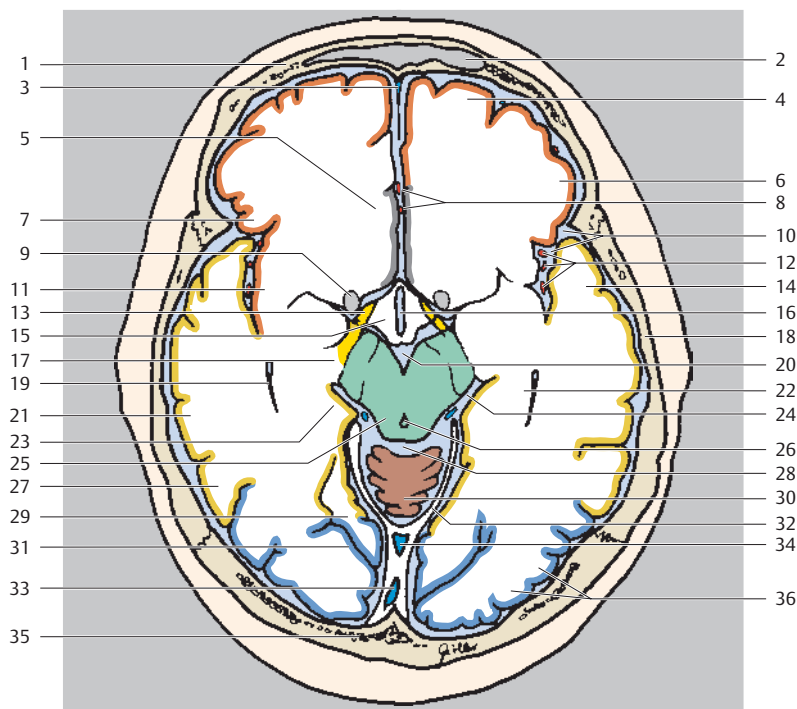
- Frontal lobe
- Temporal lobe
- Occipital lobe
- Cerebellum
- Mesencephalon



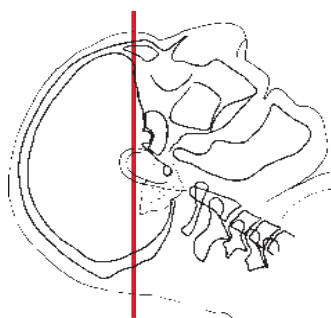
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|--|---------------------------------------|
| 1 Frontal bone | 21 Superior temporal gyrus |
| 2 Frontal sinus | 22 Extreme capsule |
| 3 Falx cerebri | 23 Temporal bone |
| 4 Superior frontal gyrus | 24 Globus pallidus (pallidum) |
| 5 Cingulate gyrus | 25 Geniculate body |
| 6 Middle frontal gyrus | 26 Internal capsule (posterior limb) |
| 7 Corpus callosum (genu) | 27 Hippocampus |
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| 9 Internal capsule (anterior limb) | 29 Parahippocampal gyrus |
| 10 Caudate nucleus (head) | 30 Pineal gland (calcified) |
| 11 Parietal bone | 31 Tentorium cerebelli |
| 12 Inferior frontal gyrus | 32 Quadrigeminal plate (colliculus) |
| 13 External capsule | 33 Vermis of cerebellum |
| 14 Putamen | 34 Quadrigeminal and ambient cisterns |
| 15 Septum verum (precommissural septum) | 35 Straight sinus |
| 16 Cistern of lateral cerebral fossa (insular cistern) | 36 Middle temporal gyrus |
| 17 Hypothalamus | 37 Superior sagittal sinus |
| 18 Internal capsule (genu) | 38 Lateral ventricle (trigone) |
| 19 Third ventricle | 39 Occipital bone |
| 20 Claustrum | 40 Parietal bone |
| | 41 Occipital gyri |



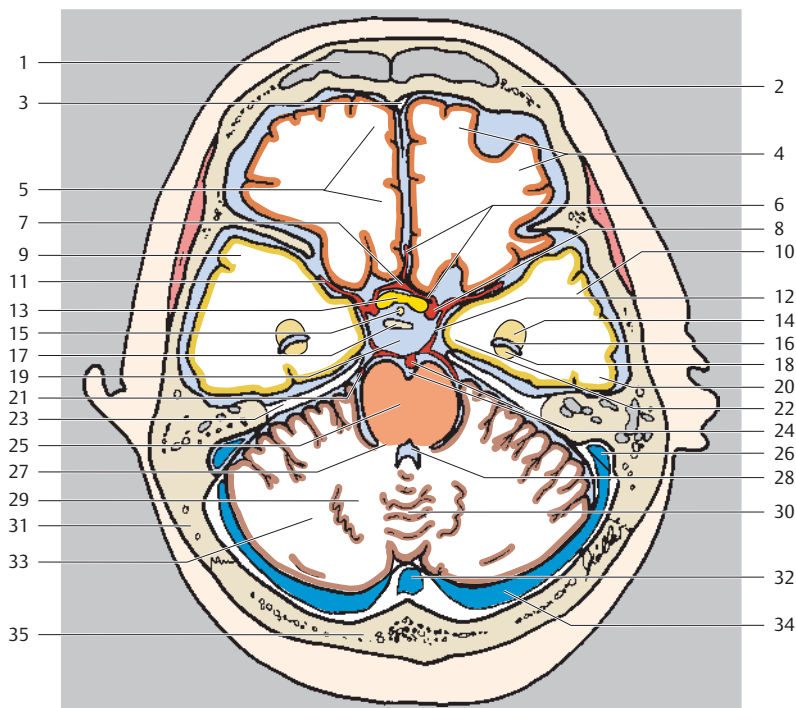
- Frontal lobe
- Temporal lobe
- Occipital lobe
- Cerebellum
- Mesencephalon



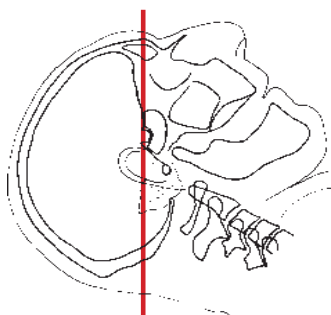
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|--------------------------------------|--|
| 1 Frontal bone | 20 Interpeduncular cistern |
| 2 Frontal sinus | 21 Middle temporal gyrus |
| 3 Falx cerebri | 22 Hippocampus |
| 4 Superior frontal gyrus | 23 Parahippocampal gyrus |
| 5 Cingulate gyrus | 24 Ambient cistern |
| 6 Middle frontal gyrus | 25 Mesencephalon (quadrigeminal plate) |
| 7 Inferior frontal gyrus | 26 Aqueduct |
| 8 Anterior cerebral artery | 27 Inferior temporal gyrus |
| 9 Striatum (inferior portion) | 28 Quadrigeminal cistern |
| 10 Lateral sulcus (insular cistern) | 29 Lateral occipitotemporal gyrus |
| 11 Insula | 30 Vermis of cerebellum (superior portion) |
| 12 Insular arteries | 31 Parieto-occipital sulcus |
| 13 Optic tract | 32 Tentorium cerebelli |
| 14 Superior temporal gyrus | 33 Superior sagittal sinus |
| 15 Hypothalamus | 34 Straight sinus |
| 16 Third ventricle | 35 Occipital bone |
| 17 Cerebral peduncle | 36 Occipital gyri |
| 18 Parietal bone | |
| 19 Lateral ventricle (temporal horn) | |



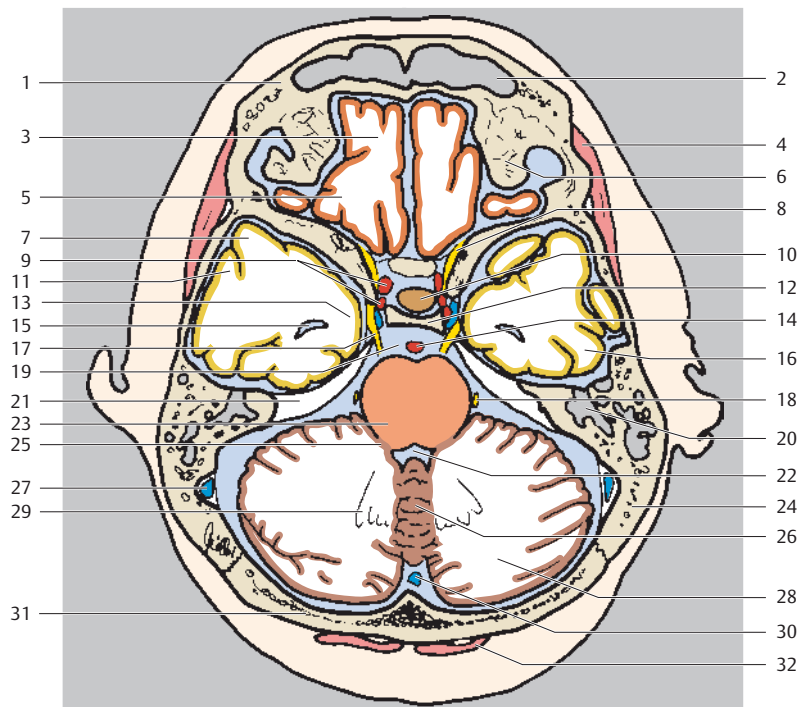
-  Frontal lobe
-  Temporal lobe
-  Cerebellum
-  Pons

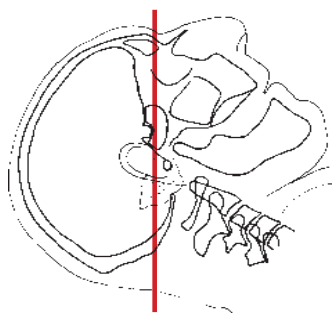


- | | |
|--------------------------------------|---|
| 1 Frontal sinus | 18 Hippocampus |
| 2 Frontal bone | 19 Pentagon of basal cisterns |
| 3 Falx cerebri | 20 Inferior temporal gyrus |
| 4 Orbital gyri | 21 Posterior cerebral artery |
| 5 Straight gyrus | 22 Parahippocampal gyrus |
| 6 Anterior cerebral artery | 23 Tentorium cerebelli |
| 7 Anterior communicating artery | 24 Basilar artery and basal sulcus |
| 8 Internal carotid artery | 25 Pons |
| 9 Superior temporal gyrus | 26 Sigmoid sinus |
| 10 Middle temporal gyrus | 27 Cerebellar peduncle (middle) |
| 11 Middle cerebral artery | 28 Fourth ventricle |
| 12 Posterior communicating artery | 29 Dentate nucleus |
| 13 Optic chiasm | 30 Vermis of cerebellum (superior part) |
| 14 Amygdaloid body | 31 Temporal bone |
| 15 Pituitary stalk | 32 Confluence of the sinuses |
| 16 Lateral ventricle (temporal horn) | 33 Cerebellar hemisphere |
| 17 Dorsum sellae | 34 Transverse sinus |
| | 35 Occipital bone |

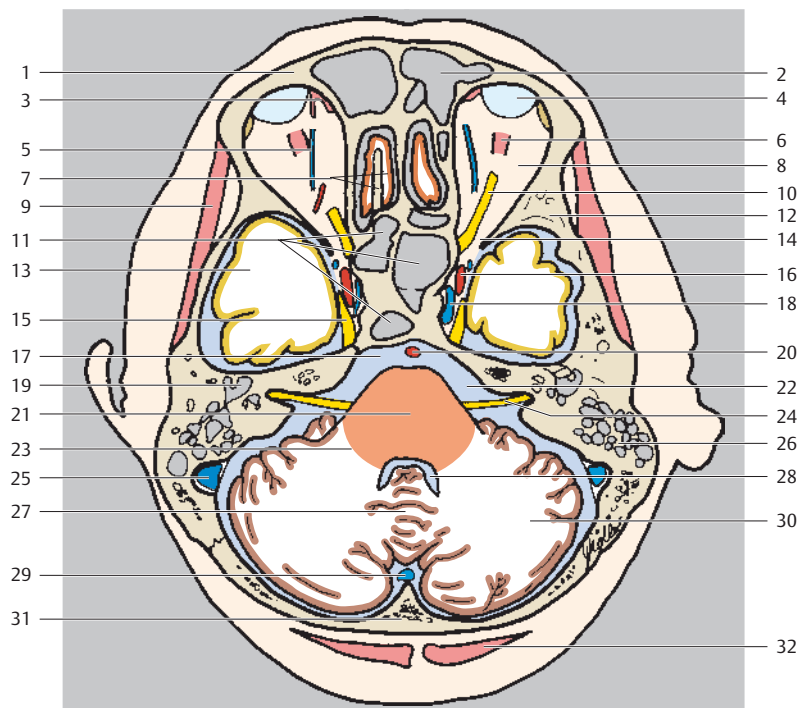


- Frontal lobe
- Temporal lobe
- Cerebellum
- Pons

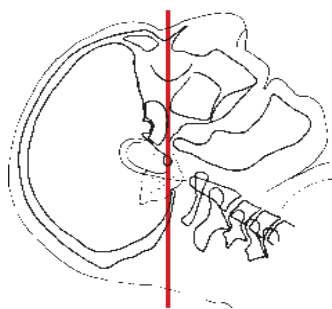




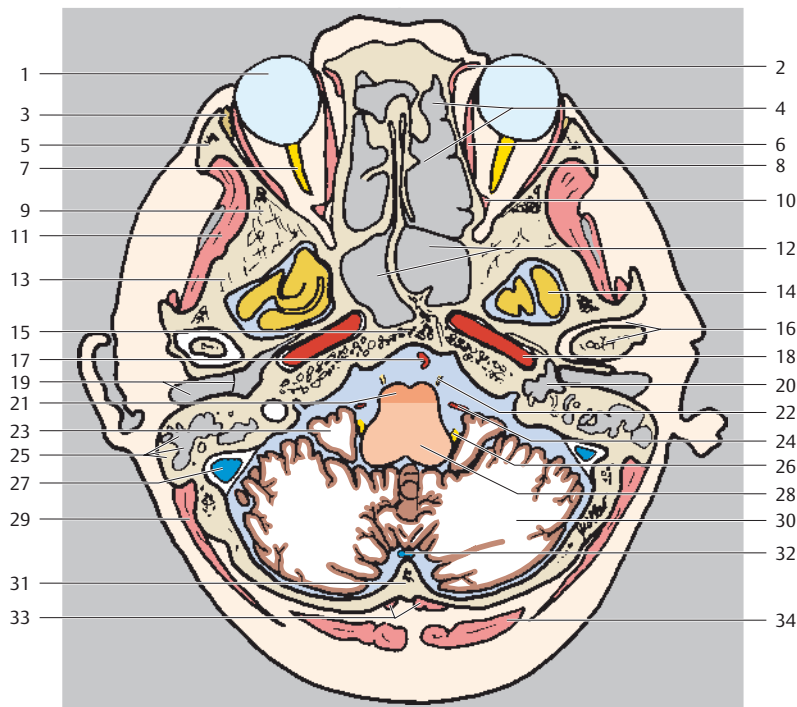
- Frontal lobe
- Temporal lobe
- Cerebellum
- Pons



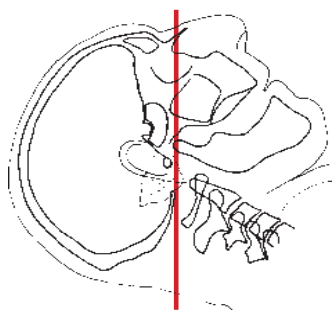
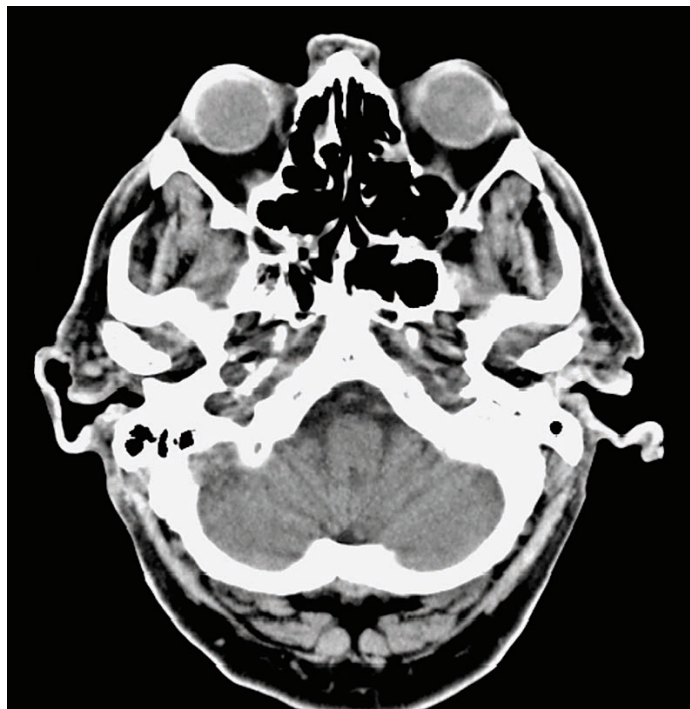
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|-------------------------------------|--|
| 1 Frontal bone | 18 Cavernous sinus |
| 2 Frontal sinus | 19 Mastoid antrum |
| 3 Superior oblique muscle | 20 Basilar artery |
| 4 Eyeball | 21 Pons |
| 5 Ophthalmic vein | 22 Pontocerebellar cistern |
| 6 Superior rectus muscle | 23 Middle and inferior cerebellar peduncle |
| 7 Straight gyrus and olfactory bulb | 24 Internal auditory meatus with facial (VII) and vestibulocochlear/acoustic (VIII) nerves |
| 8 Retro-orbital fatty tissue | 25 Sigmoid sinus |
| 9 Temporal muscle | 26 Mastoid process with mastoid cells |
| 10 Optic nerve | 27 Vermis of cerebellum |
| 11 Sphenoidal sinus | 28 Fourth ventricle |
| 12 Sphenoidal bone | 29 Occipital sinus |
| 13 Inferior temporal gyrus | 30 Cerebellar hemisphere |
| 14 Superior orbital fissure | 31 Occipital bone |
| 15 Trigeminal nerve (ganglion) | 32 Semispinalis capitis muscle |
| 16 Internal carotid artery | |
| 17 Pontine cistern | |



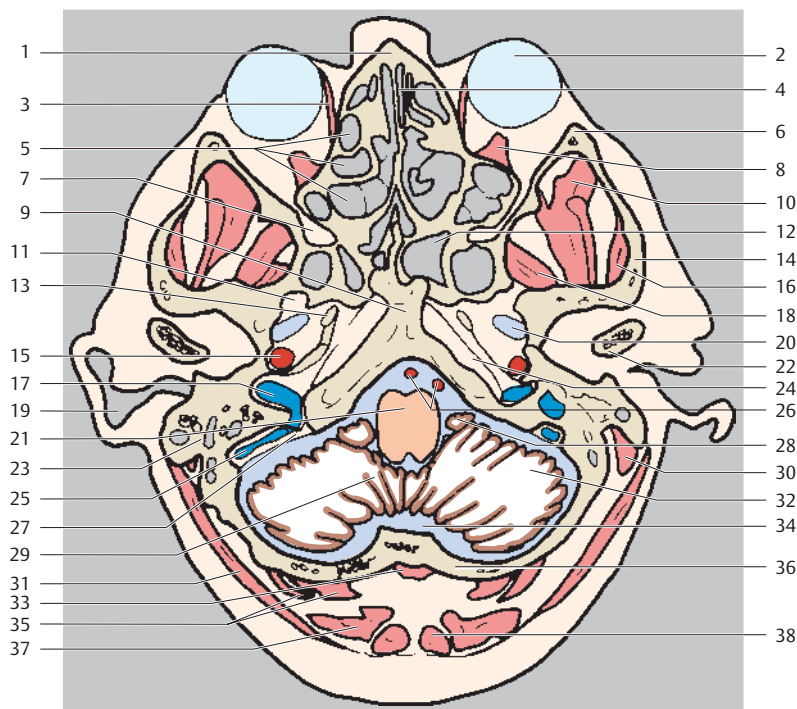
- Frontal lobe
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- Cerebellum
- Pons



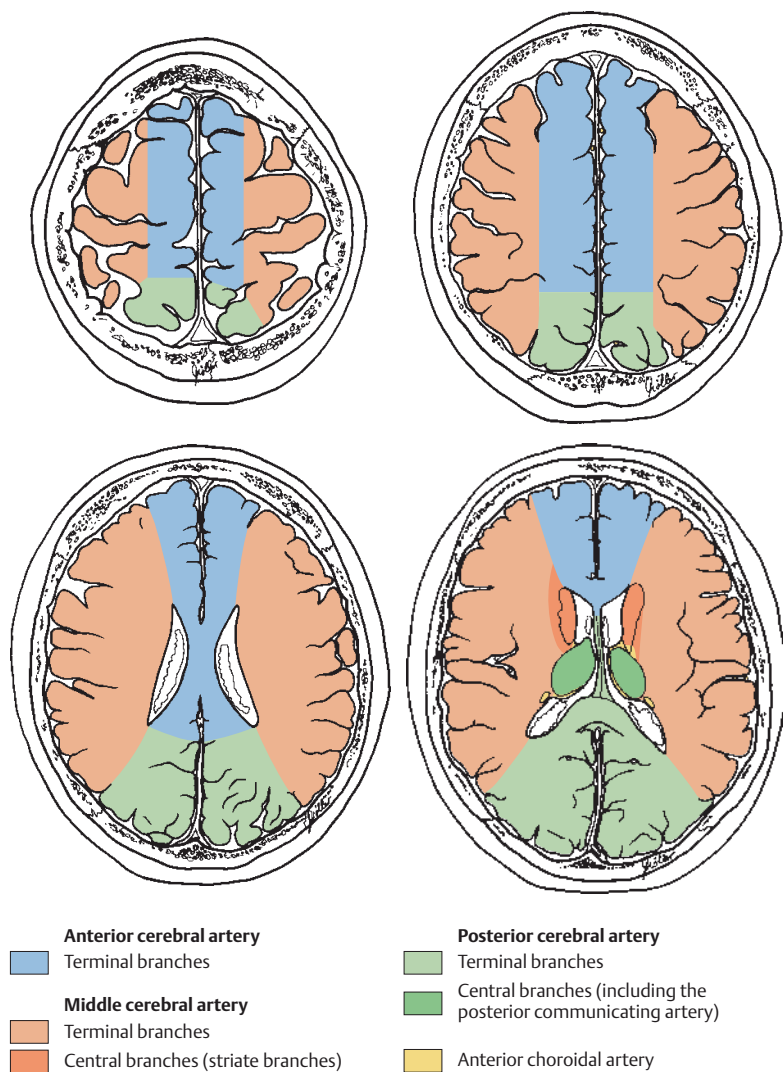
- | | |
|---|---|
| 1 Eyeball | 19 External auditory meatus and eardrum (tympanic membrane) |
| 2 Superior oblique muscle | 20 Tympanic cavity |
| 3 Lacrimal gland | 21 Pons |
| 4 Ethmoidal cells | 22 Abducent nerve (VI) |
| 5 Zygomatic bone | 23 Flocculus |
| 6 Medial rectus muscle | 24 Anterior inferior cerebellar artery |
| 7 Optic nerve | 25 Mastoid process and mastoid cells |
| 8 Lateral rectus muscle of eyeball | 26 Glossopharyngeal (IX) and vagus (X) nerves |
| 9 Sphenoidal bone | 27 Sigmoid sinus |
| 10 Superior rectus muscle | 28 Medulla oblongata (myelencephalon) |
| 11 Temporal muscle | 29 Splenius capitis muscle |
| 12 Sphenoidal sinus | 30 Cerebellar hemisphere |
| 13 Temporal bone | 31 Occipital bone |
| 14 Temporal lobe (base) | 32 Occipital sinus |
| 15 Clivus | 33 Rectus capitis posterior minor muscle |
| 16 Temporomandibular joint and head of mandible | 34 Semispinalis capitis muscle |
| 17 Basilar artery | |
| 18 Internal carotid artery | |

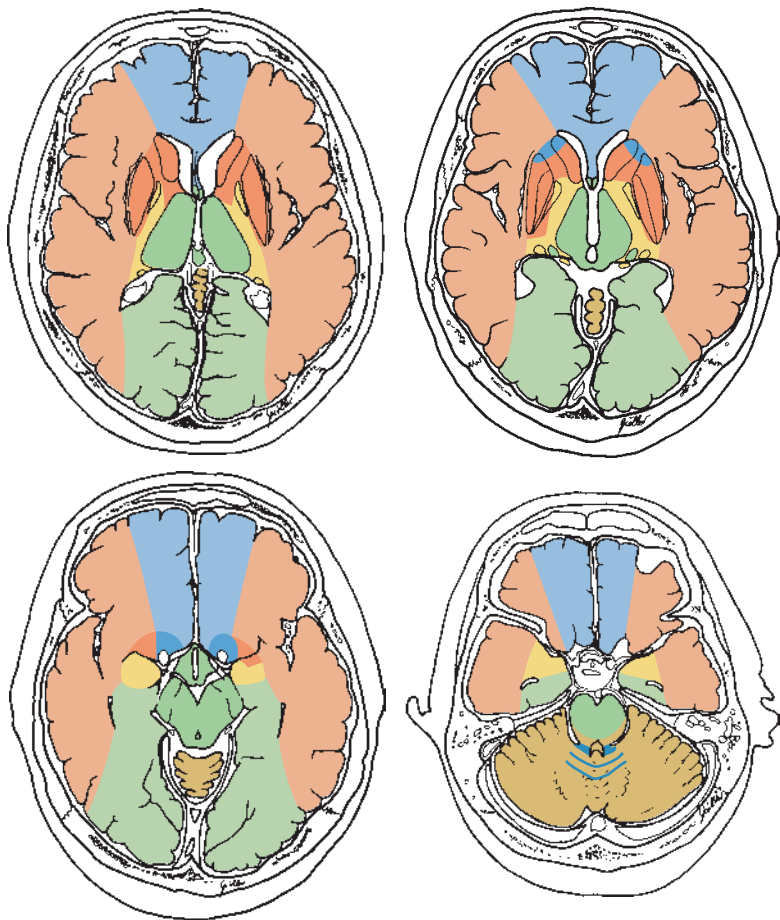


- Cerebellum
- Medulla oblongata



- | | |
|--|---|
| 1 Nasal bone | 19 External auditory meatus |
| 2 Eyeball | 20 Auditory tube |
| 3 Medial rectus muscle | 21 Medulla oblongata |
| 4 Nasal septum | 22 Head of mandible |
| 5 Ethmoidal cells | 23 Mastoid process |
| 6 Zygomatic bone | 24 Foramen lacerum |
| 7 Pterygopalatine fossa | 25 Sigmoid sinus |
| 8 Inferior rectus muscle | 26 Vertebral arteries |
| 9 Occipital bone (basilar part) | 27 Petro-occipital fissure |
| 10 Temporal muscle | 28 Flocculus |
| 11 Foramen ovale with mandibular nerve | 29 Cerebellar tonsil |
| 12 Sphenoidal sinus | 30 Digastric muscle |
| 13 Temporal bone (apex of the petrous pyramid) | 31 Splenius capitis muscle |
| 14 Zygomatic arch | 32 Cerebellar hemisphere (caudal lobe) |
| 15 Internal carotid artery | 33 Rectus capitis posterior minor muscle |
| 16 Masseter muscle | 34 Cisterna magna (posterior cerebello-medullary cistern) |
| 17 Jugular vein (bulb) | 35 Rectus capitis posterior major muscle |
| 18 Lateral pterygoid muscle (superior head) | 36 Occipital bone |
| | 37 Semispinalis capitis muscle |
| | 38 Trapezius muscle |





Anterior cerebral artery

- Terminal branches
- Central branches (striate branches)

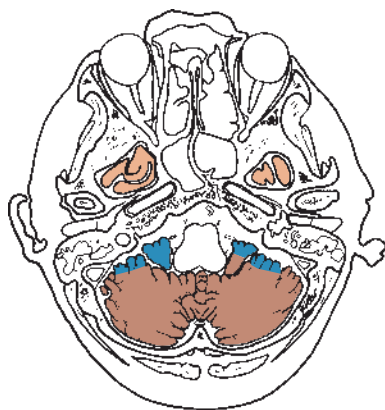
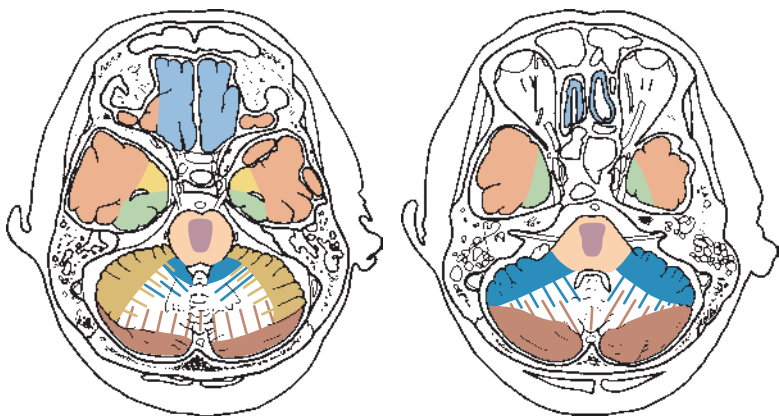
Middle cerebral artery

- Terminal branches
- Central branches (striate branches)

Posterior cerebral artery

- Terminal branches
- Central branches (including the posterior communicating artery)

- Anterior choroidal artery
- Superior cerebellar artery
- Anterior inferior cerebellar artery
- Border region

**Anterior cerebral artery**

Terminal branches

Middle cerebral artery

Terminal branches

Posterior cerebral artery

Terminal branches

Anterior choroidal artery

Basilar artery

Anteromedial and anterolateral paramedian branches

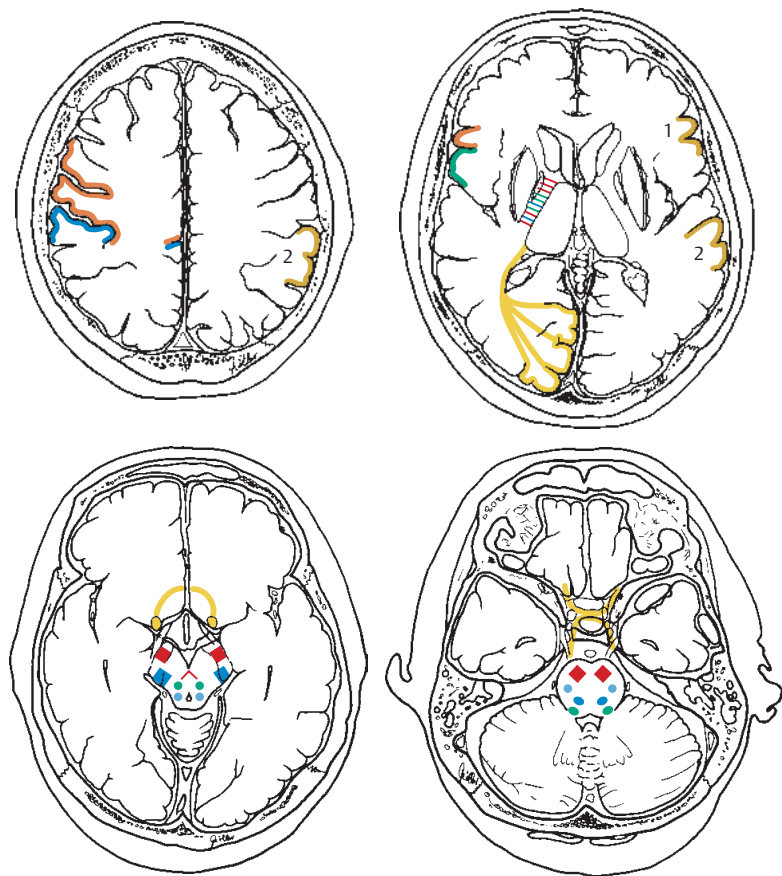
Circumferential arteries and Lateral and dorsal paramedian branches

Superior cerebellar artery

Anterior superior cerebellar artery

Border region

Posterior inferior cerebellar artery



Motor system

Sensory system



Medial lemniscal tract



Spinothalamic tract



Mesencephalic nucleus of trigeminal nerve



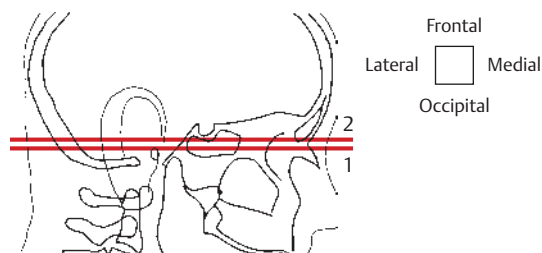
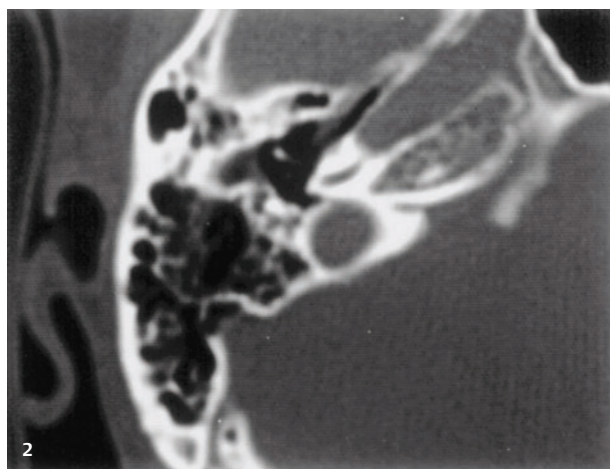
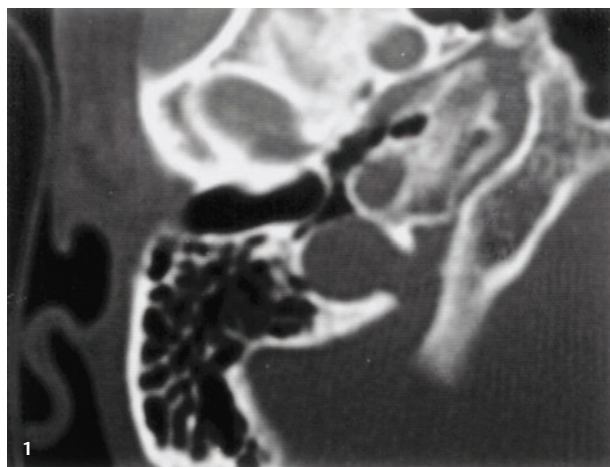
Oculomotor nucleus and pathways

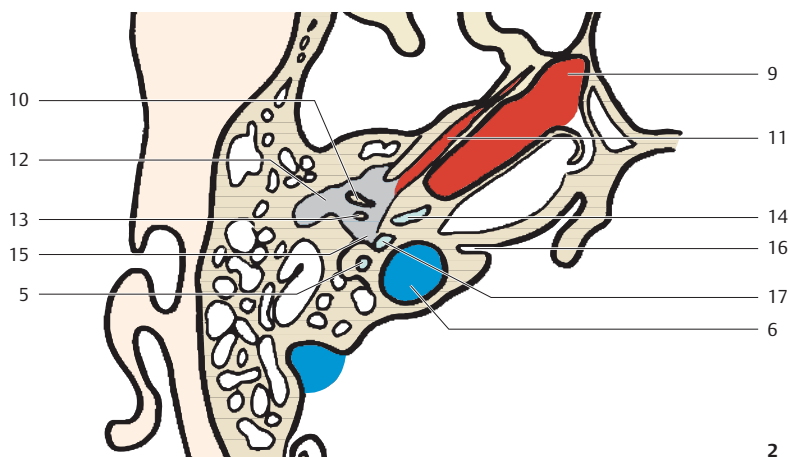
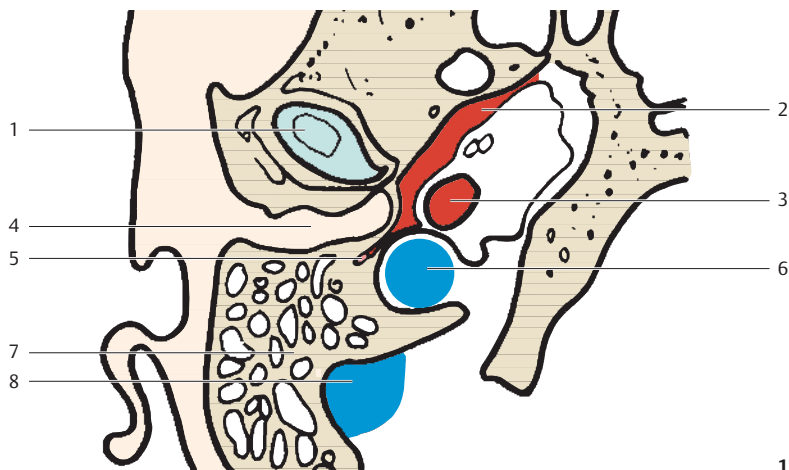


Optic tract

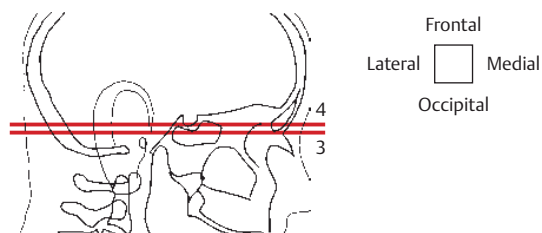
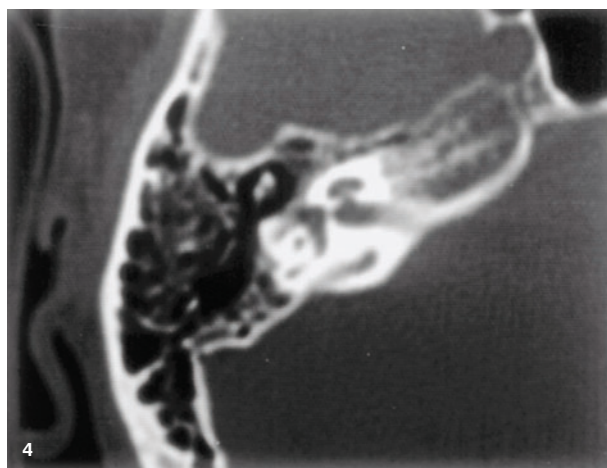
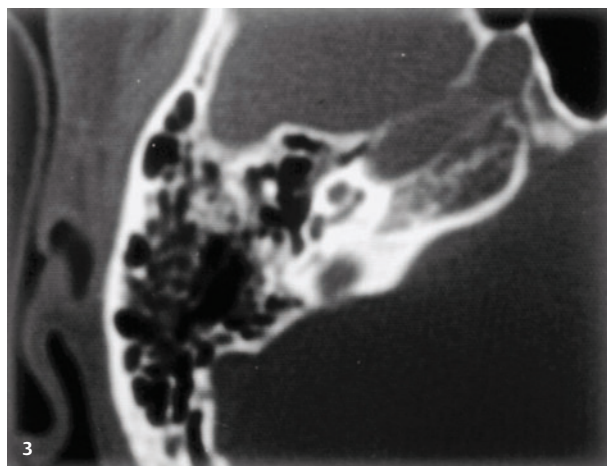


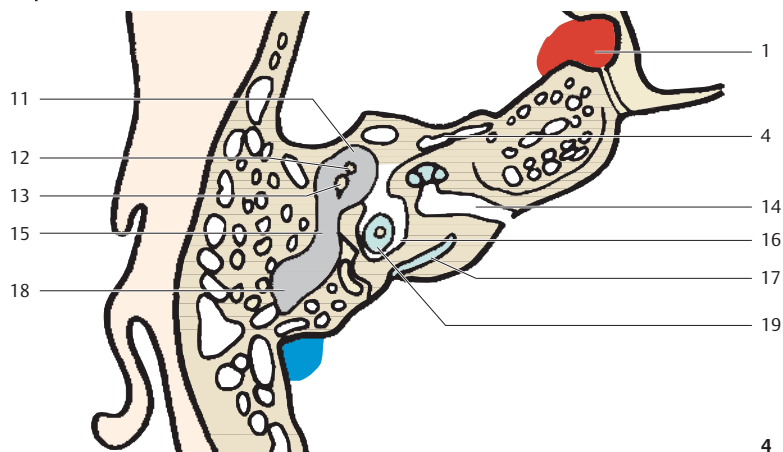
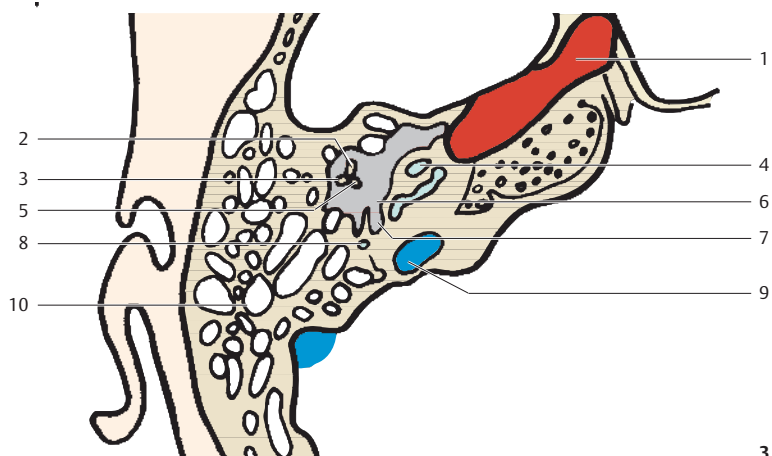
Speech center
(1 = motor, 2 = sensory)





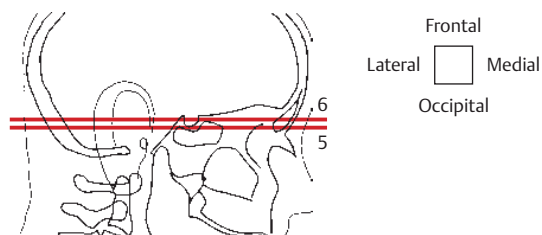
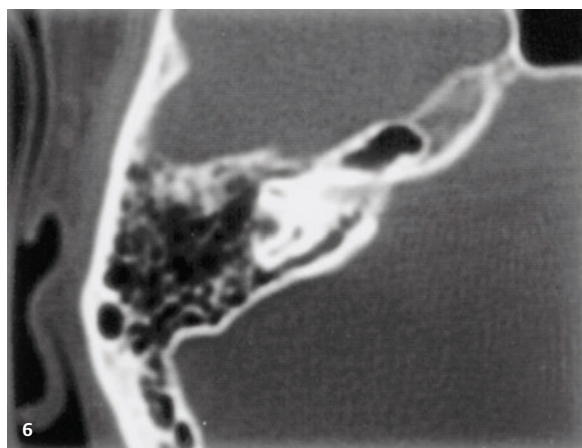
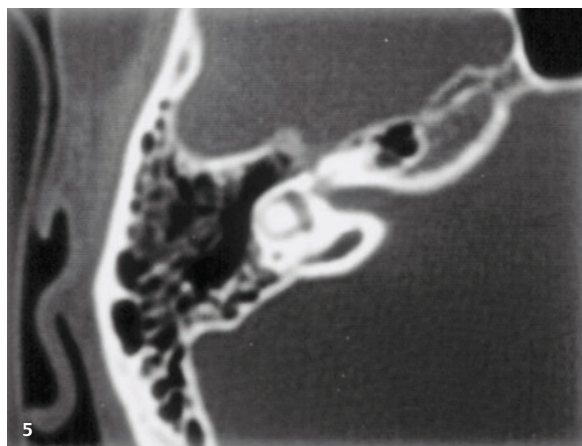
- | | |
|---|----------------------------------|
| 1 Temporomandibular joint (glenoid roof and articular disc) | 9 Carotid canal |
| 2 Pharyngotympanic tube (auditory tube) | 10 Malleus (handle) |
| 3 Internal carotid artery | 11 Tensor tympani muscle (canal) |
| 4 External acoustic meatus | 12 Middle ear |
| 5 Facial canal | 13 Incus (long limb) |
| 6 Internal jugular vein | 14 Cochlea (basal turn) |
| 7 Mastoid process | 15 Sinus tympani |
| 8 Sigmoid sinus | 16 Vestibular aqueduct |
| | 17 Round window |

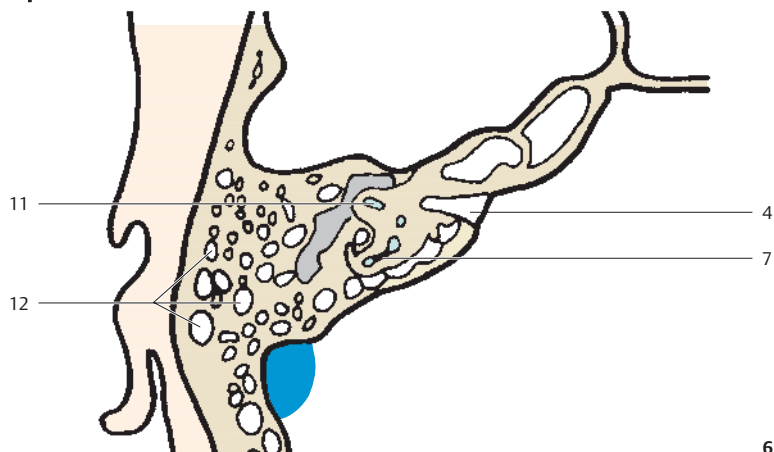
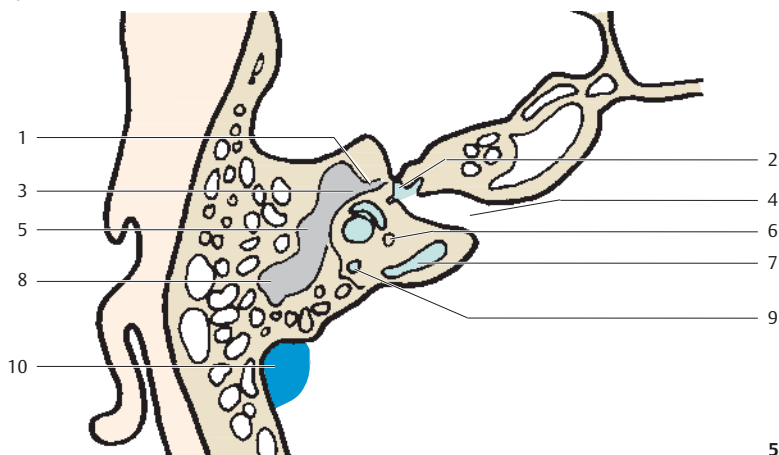




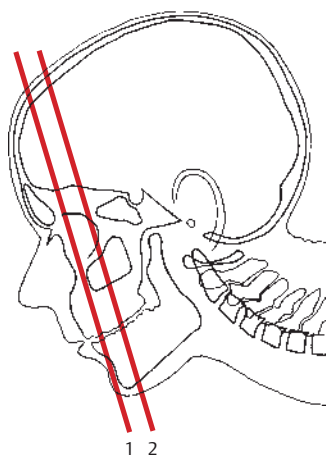
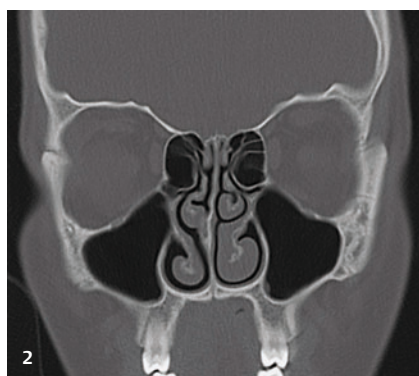
- 1 Internal carotid artery (canal)
- 2 Malleus (handle)
- 3 Incus (long limb)
- 4 Cochlea
- 5 Stapes
- 6 Oval window
- 7 Sinus tympani
- 8 Facial canal
- 9 Internal jugular vein (bulb)
- 10 Mastoid

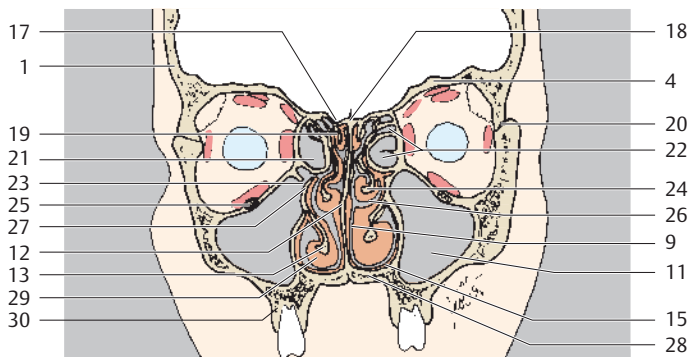
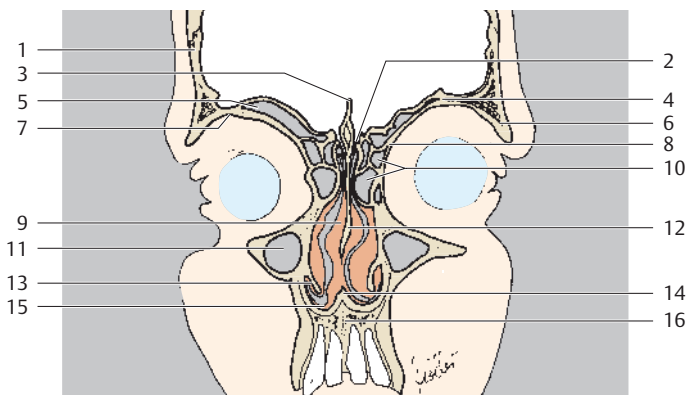
- 11 Epitympanic recess
- 12 Malleus (head)
- 13 Incus (short limb)
- 14 Internal acoustic meatus
- 15 Aditus to mastoid antrum
- 16 Vestibule
- 17 Posterior semicircular canal
- 18 Mastoid antrum
- 19 Lateral semicircular canal



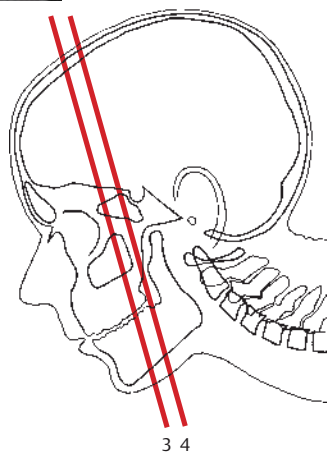


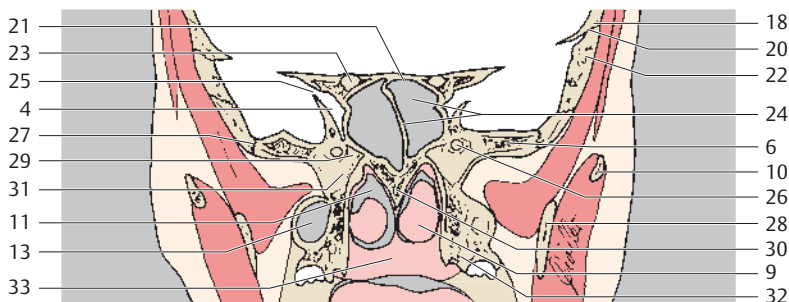
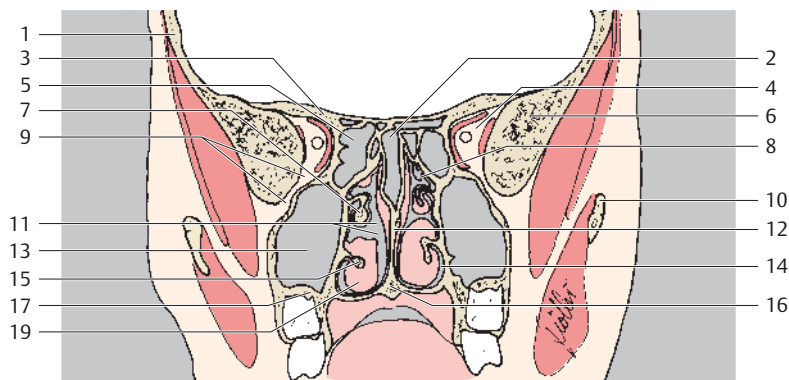
- | | |
|------------------------------|---|
| 1 Geniculate ganglion | 7 Posterior semicircular canal |
| 2 Facial nerve (first part) | 8 Mastoid antrum |
| 3 Facial nerve (second part) | 9 Lateral semicircular canal |
| 4 Internal acoustic meatus | 10 Sigmoid sinus |
| 5 Tympanic cavity | 11 Anterior (superior) semicircular canal |
| 6 Vestibule | 12 Mastoid cells |



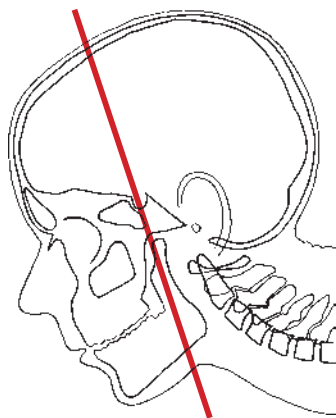
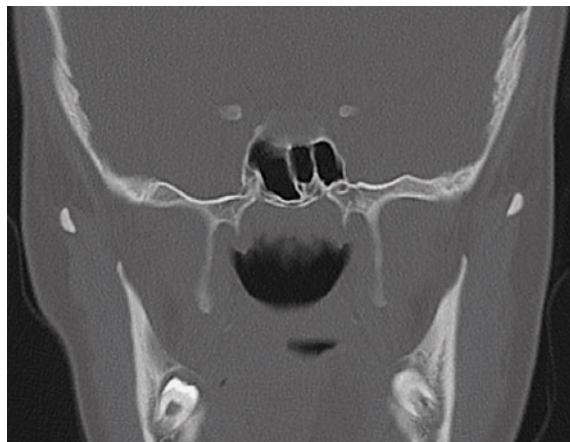


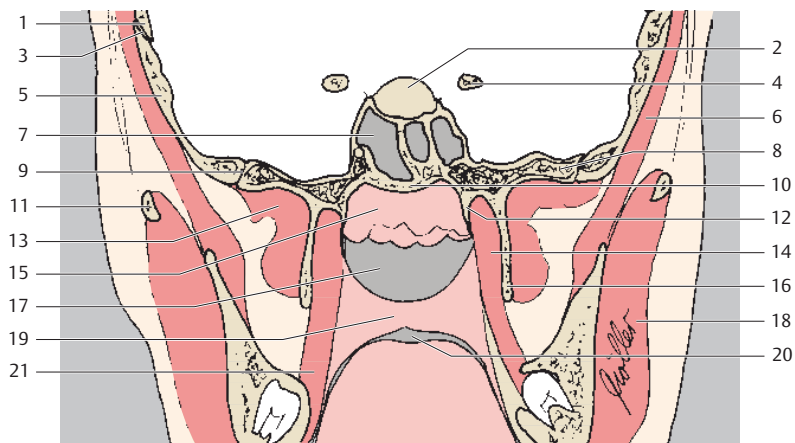
- | | |
|-----------------------------|---|
| 1 Frontal bone | 16 Alveolar process of maxilla |
| 2 Cribriform plate | 17 Ethmoidal notch |
| 3 Crista galli | 18 Ethmoidal bone (cribriform plate) |
| 4 Roof of orbit | 19 Superior nasal concha |
| 5 Frontal sinus | 20 Frontozygomatic suture |
| 6 Zygomatic process | 21 Orbital plate of ethmoidal labyrinth |
| 7 Supraorbital notch | 22 Ethmoidal cells (middle) |
| 8 Orbital plate | 23 Maxillary hiatus |
| 9 Nasal cavity | 24 Middle nasal concha |
| 10 Anterior ethmoidal cells | 25 Infraorbital foramen |
| 11 Maxillary sinus | 26 Middle nasal meatus |
| 12 Nasal septum | 27 Uncinate process |
| 13 Inferior nasal concha | 28 Hard palate |
| 14 Vomer | 29 Inferior nasal concha |
| 15 Inferior nasal meatus | 30 Maxilla (alveolar process) |



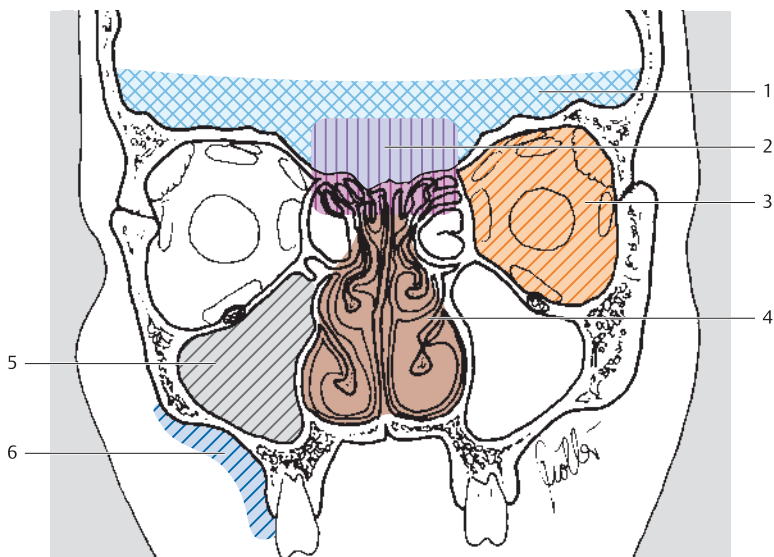


- | | |
|--|---|
| 1 Frontal bone | 18 Parietal bone |
| 2 Sphenoidal sinus (recess) | 19 Inferior nasal concha (cavernous body) |
| 3 Sphenoidal bone (lesser wing) | 20 Squamous suture |
| 4 Infundibulum of orbit | 21 Sphenoid bone (roof of sphenoid sinus) |
| 5 Ethmoidal cells (posterior) | 22 Temporal bone (squamous part) |
| 6 Sphenoidal bone (greater wing) | 23 Optic canal |
| 7 Middle nasal concha | 24 Sphenoidal sinus with septum |
| 8 Superior nasal concha | 25 Superior orbital fissure |
| 9 Inferior orbital fissure | 26 Foramen rotundum of sphenoidal bone |
| 10 Zygomatic bone | 27 Sphenosquamous suture |
| 11 Nasal cavity (common nasal meatus) | 28 Mandible (body and ramus) |
| 12 Nasal septum (perpendicular palate) | 29 Pterygoid canal |
| 13 Maxillary sinus | 30 Ethmoidal bone (nasal septum) |
| 14 Inferior nasal meatus | 31 Pterygopalatine fossa |
| 15 Inferior nasal concha | 32 Pterygoid process |
| 16 Palatine bone (horizontal plane) | 33 Soft palate |
| 17 Maxilla (alveolar process) | |

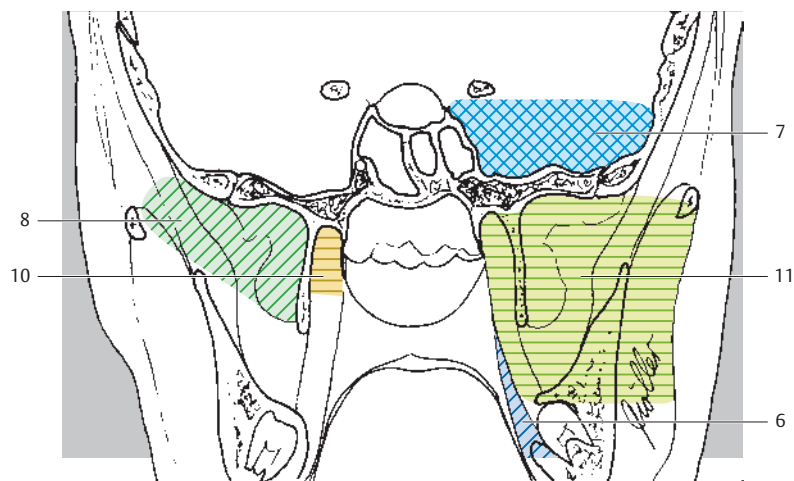




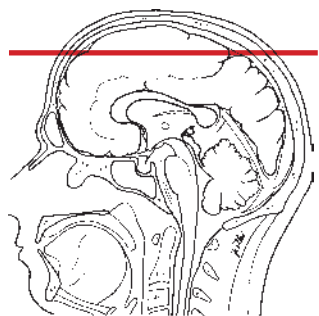
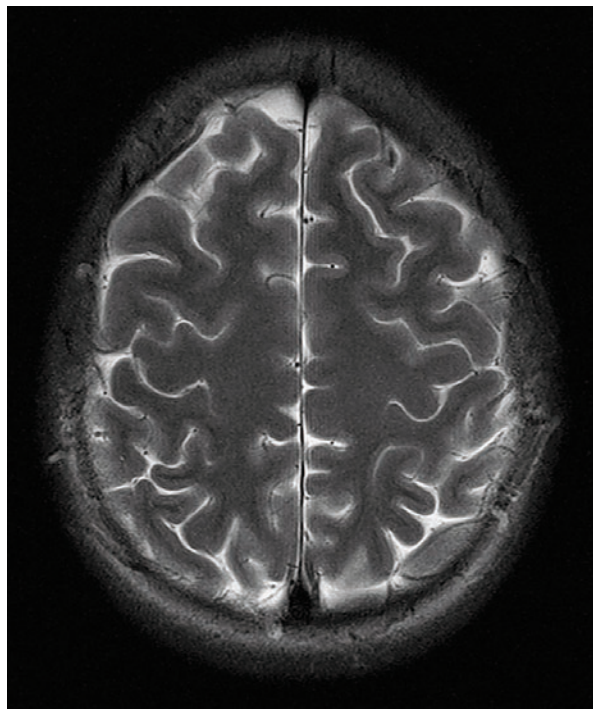
- | | |
|---|--------------------------------------|
| 1 Parietal bone | 10 Sphenoidal bone |
| 2 Sella turcica | 11 Zygomatic arch |
| 3 Squamous suture | 12 Pterygoid process (medial plate) |
| 4 Anterior clinoid process
(sphenoidal bone) | 13 Lateral pterygoid muscle |
| 5 Temporal bone (squamous
part) | 14 Pterygoid fossa |
| 6 Temporal muscle | 15 Pharyngeal tonsil |
| 7 Sphenoidal sinus | 16 Pterygoid process (lateral plate) |
| 8 Temporal bone (with articular
tubercle) | 17 Nasopharynx |
| 9 Sphenosquamous suture | 18 Masseter muscle |
| | 19 Soft palate |
| | 20 Oropharynx (isthmus of fauces) |
| | 21 Medial pterygoid muscle |



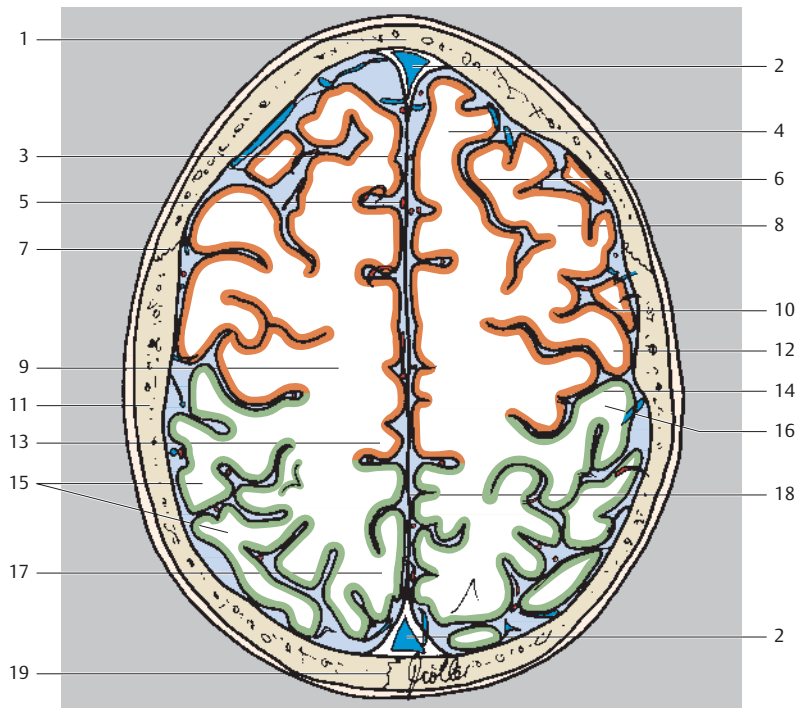
-  1 Anterior cranial fossa
-  2 Base of the nose
-  3 Orbital cavity
-  4 Nasal cavity
-  5 Maxillary sinus
-  6 Buccal space



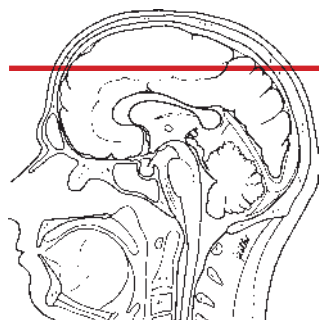
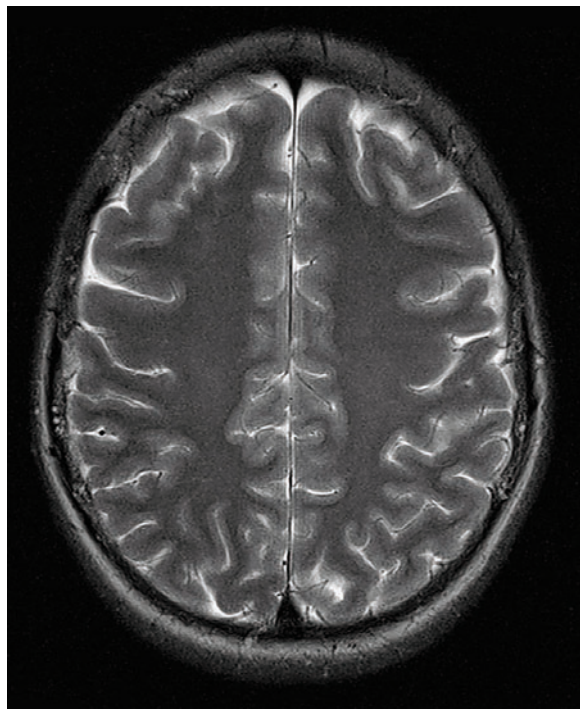
-  6 Buccal space
-  7 Middle cranial fossa
-  8 Infratemporal fossa
-  9 Pterygopalatine fossa
-  10 Pterygoid fossa
-  11 Masticatory space



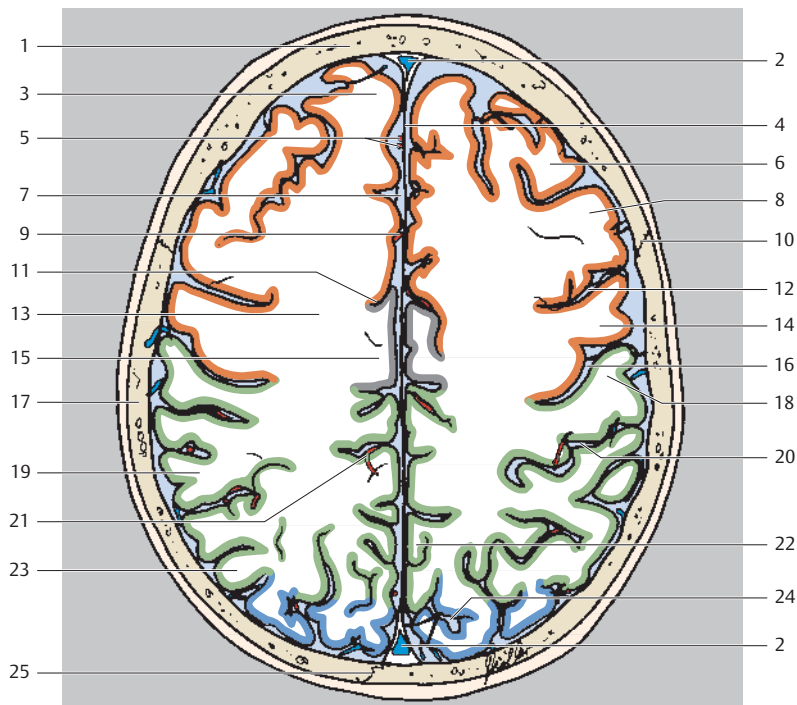
- Frontal lobe
- Parietal lobe



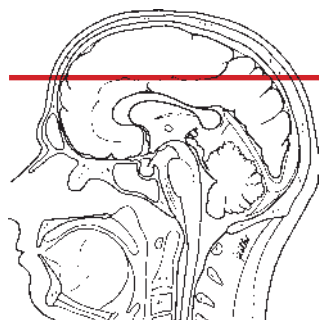
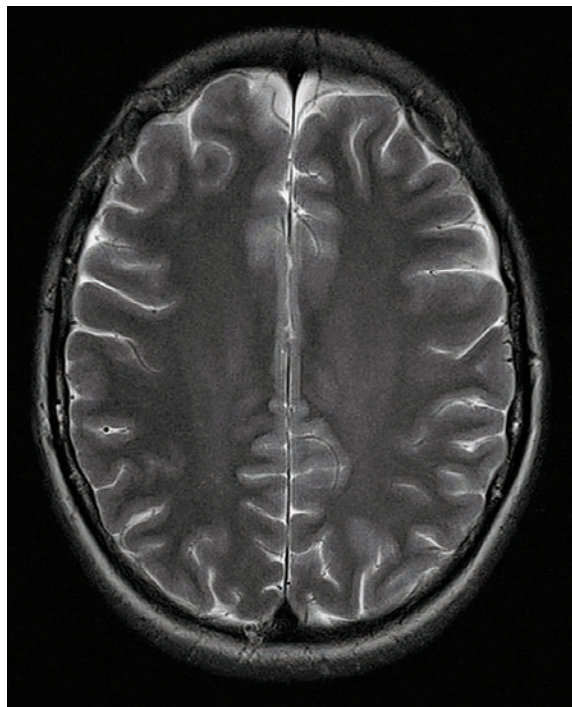
- | | |
|---|-----------------------------|
| 1 Frontal bone | 10 Precentral sulcus |
| 2 Superior sagittal sinus | 11 Parietal bone |
| 3 Longitudinal cerebral fissure | 12 Precentral gyrus |
| 4 Superior frontal gyrus | 13 Paracentral lobule |
| 5 Supratrochlear artery (postero-medial) | 14 Central sulcus |
| 6 Superior frontal sulcus | 15 Superior parietal lobule |
| 7 Coronal suture | 16 Postcentral gyrus |
| 8 Middle frontal gyrus | 17 Precuneus |
| 9 Cerebral white matter (semioval center) | 18 Falx cerebri |
| | 19 Sagittal suture |



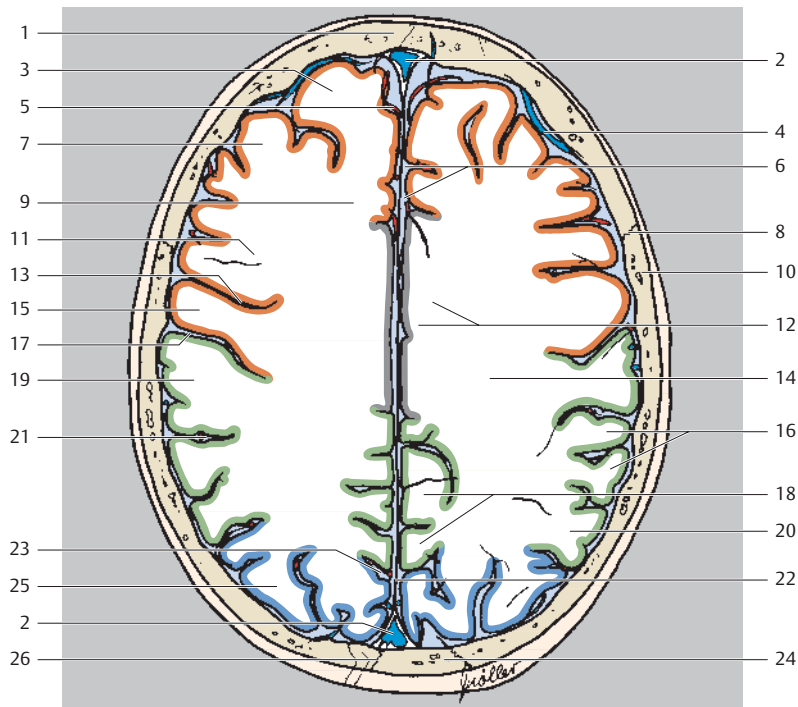
- Frontal lobe
- Parietal lobe
- Occipital lobe



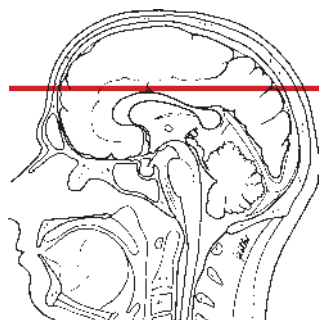
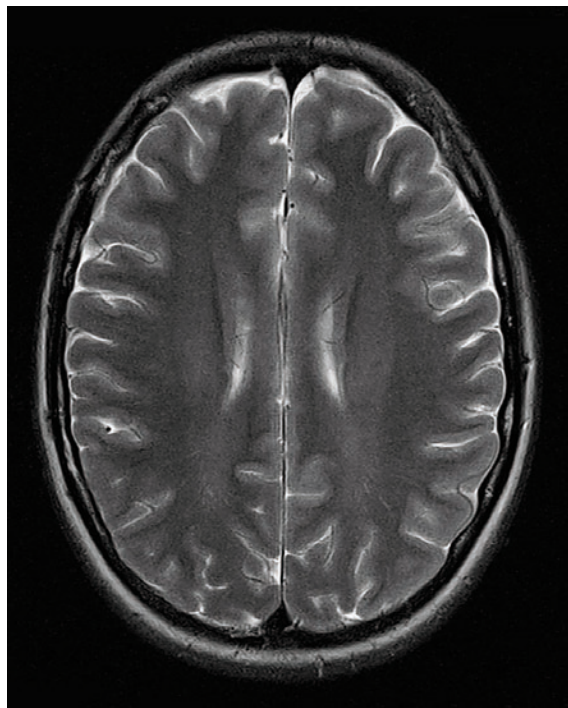
- | | |
|--|---|
| 1 Frontal bone | 14 Precentral gyrus |
| 2 Superior sagittal sinus | 15 Cingulate gyrus and cingulum |
| 3 Superior frontal gyrus | 16 Central sulcus (fissure of Rolando) |
| 4 Falx cerebri | 17 Parietal bone |
| 5 Supratrochlear artery (mediomedial) | 18 Postcentral gyrus |
| 6 Middle frontal gyrus | 19 Supramarginal gyrus |
| 7 Longitudinal cerebral fissure | 20 Postcentral sulcus |
| 8 Inferior frontal gyrus | 21 Paracentral branches of callosomarginal artery |
| 9 Callosomarginal artery | 22 Precuneus |
| 10 Coronal suture | 23 Angular gyrus |
| 11 Cingulate sulcus | 24 Parieto-occipital sulcus |
| 12 Precentral sulcus | 25 Sagittal suture |
| 13 Cerebral white matter (semioval center) | |



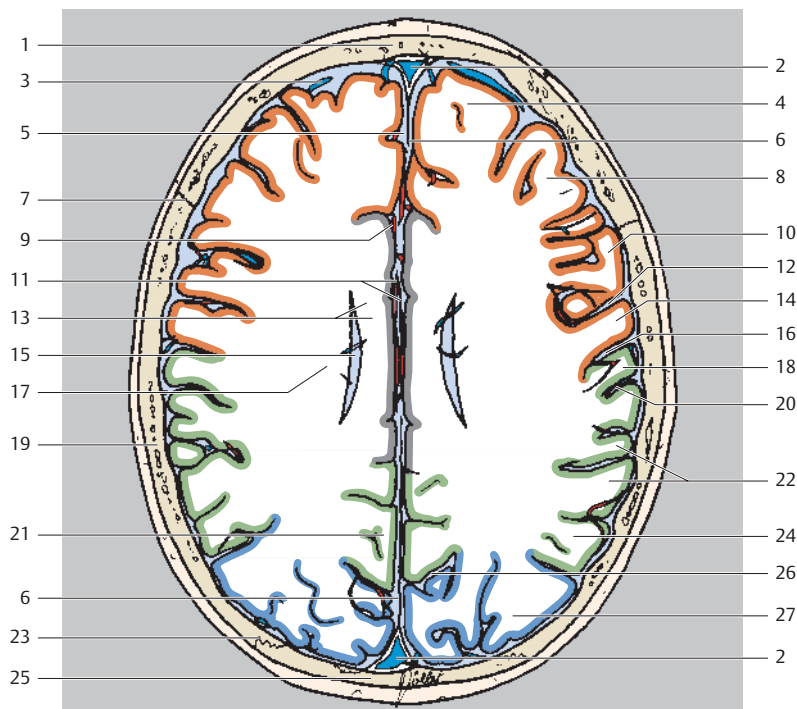
- Frontal lobe
- Parietal lobe
- Occipital lobe



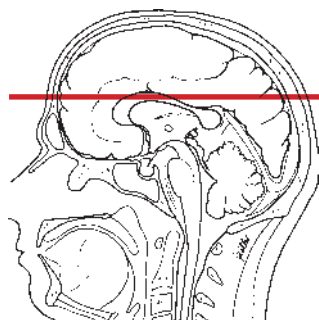
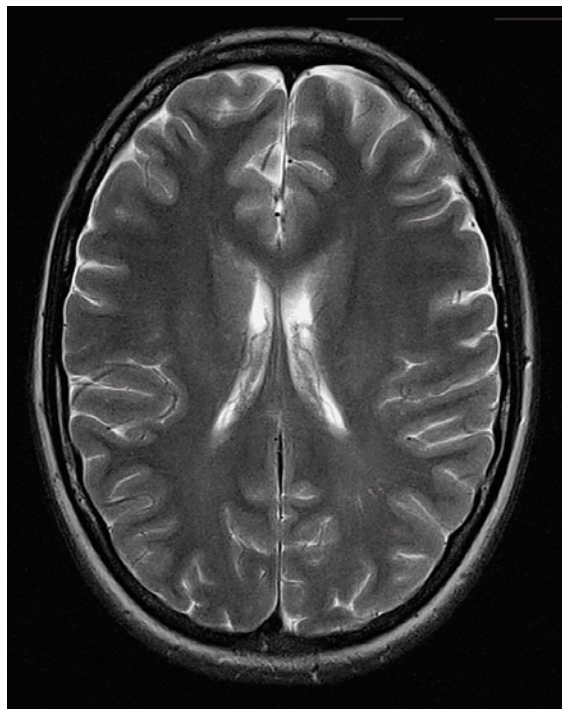
- | | |
|---------------------------------------|--|
| 1 Frontal bone | 14 Cerebral white matter (semioval center) |
| 2 Superior sagittal sinus | 15 Precentral gyrus |
| 3 Superior frontal gyrus | 16 Supramarginal gyrus |
| 4 Superior cerebral vein | 17 Central sulcus |
| 5 Supratrochlear (mediomedial) artery | 18 Precuneus |
| 6 Longitudinal cerebral fissure | 19 Postcentral gyrus |
| 7 Middle frontal gyrus | 20 Angular gyrus |
| 8 Coronal suture | 21 Postcentral sulcus |
| 9 Callosomarginal artery | 22 Falx cerebri |
| 10 Parietal bone | 23 Parieto-occipital sulcus |
| 11 Inferior frontal gyrus | 24 Occipital bone |
| 12 Cingulate gyrus and cingulum | 25 Occipital gyri |
| 13 Precentral sulcus | 26 Lambdoid suture |



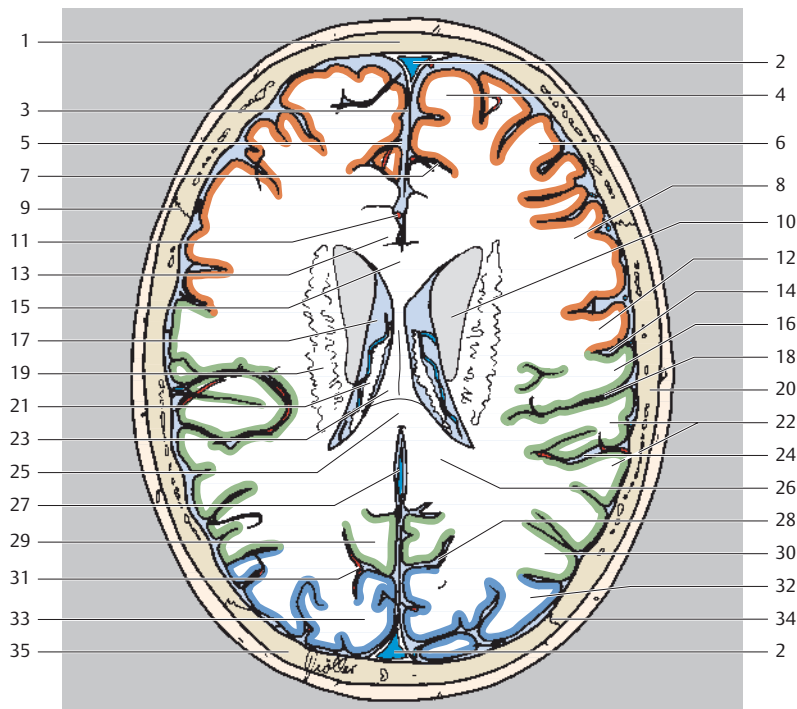
-  Frontal lobe
-  Parietal lobe
-  Occipital lobe



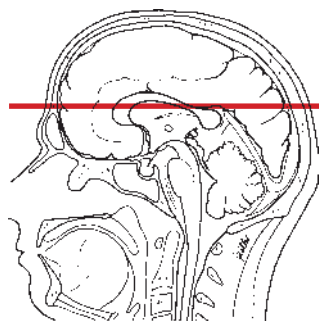
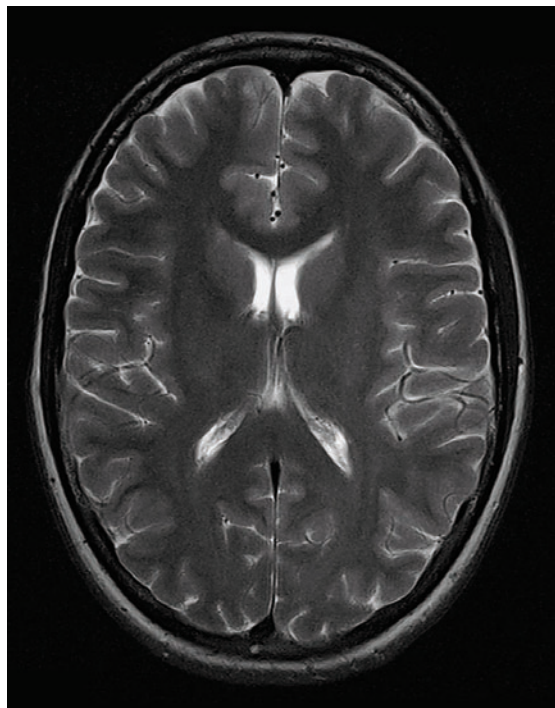
- | | |
|---------------------------------|-------------------------------------|
| 1 Frontal bone | 15 Lateral ventricle (central part) |
| 2 Superior sagittal sinus | 16 Central sulcus |
| 3 Superior cerebral vein | 17 Corona radiata |
| 4 Superior frontal gyrus | 18 Postcentral gyrus |
| 5 Longitudinal cerebral fissure | 19 Parietal bone |
| 6 Falx cerebri | 20 Postcentral sulcus |
| 7 Coronal suture | 21 Precuneus |
| 8 Middle frontal gyrus | 22 Supramarginal gyrus |
| 9 Callosomarginal artery | 23 Lambdoid suture |
| 10 Inferior frontal gyrus | 24 Angular gyrus |
| 11 Pericallosal artery | 25 Occipital bone |
| 12 Precentral sulcus | 26 Parieto-occipital sulcus |
| 13 Cingulate gyrus and cingulum | 27 Occipital gyri |
| 14 Precentral gyrus | |



- Frontal lobe
- Parietal lobe
- Occipital lobe

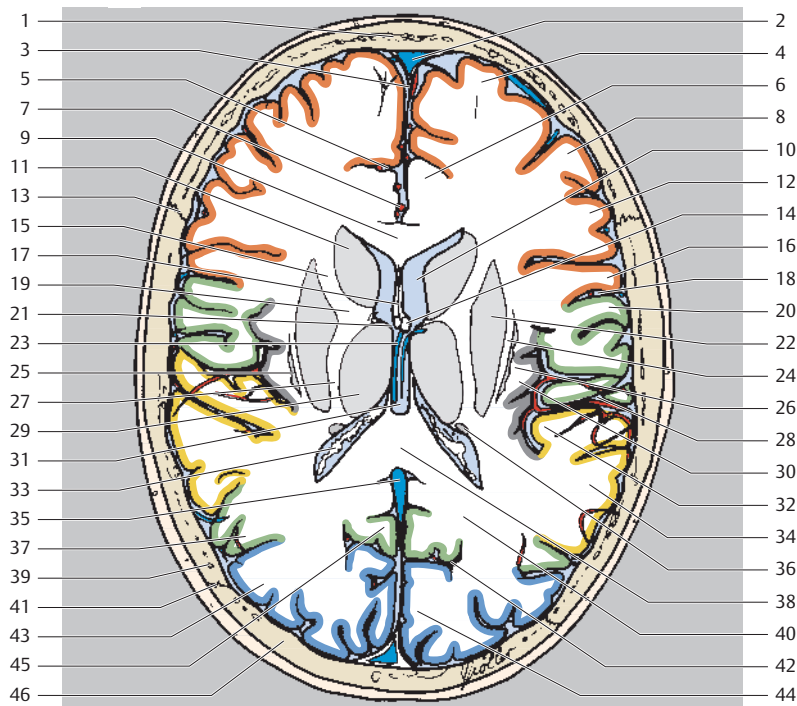


- | | |
|----------------------------|--------------------------------------|
| 1 Frontal bone | 19 Corona radiata |
| 2 Superior sagittal sinus | 20 Parietal bone |
| 3 Falx cerebri | 21 Choroid plexus |
| 4 Superior frontal gyrus | 22 Supramarginal gyrus |
| 5 Longitudinal cerebral | 23 Fornix |
| 6 Middle frontal gyrus | 24 Lateral sulcus (posterior ramus) |
| 7 Cingulate sulcus | 25 Corpus callosum, splenium |
| 8 Inferior frontal gyrus | 26 Major forceps (occipital forceps) |
| 9 Coronal suture | 27 Inferior sagittal sinus |
| 10 Head of caudate nucleus | 28 Parieto-occipital sulcus |
| 11 Pericallosal artery | 29 Precuneus |
| 12 Precentral gyrus | 30 Angular gyrus |
| 13 Cingulate gyrus | 31 Parieto-occipital artery |
| 14 Central sulcus | 32 Occipital gyri |
| 15 Corpus callosum (genu) | 33 Cuneus |
| 16 Postcentral gyrus | 34 Lambdoid suture |
| 17 Lateral ventricle | 35 Occipital bone |
| 18 Lateral sulcus | |

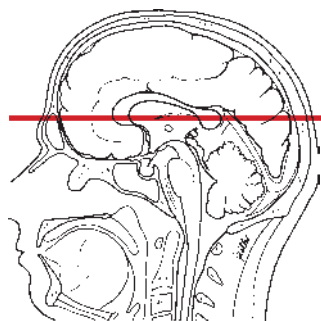
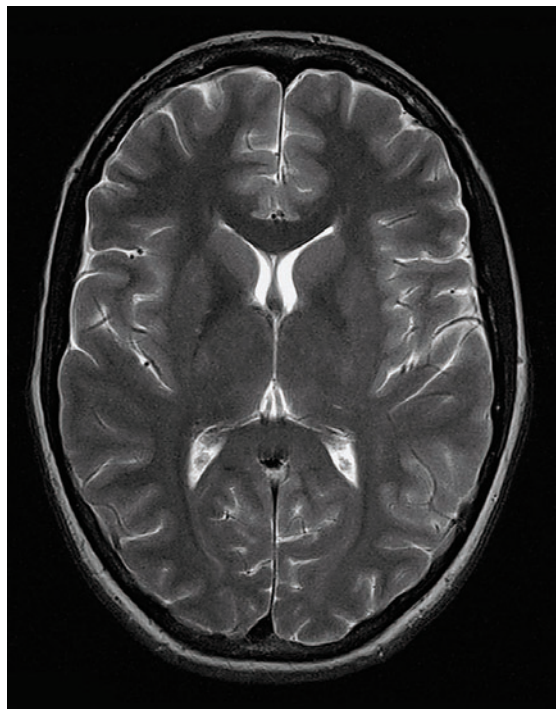


- Frontal lobe
- Temporal lobe
- Parietal lobe
- Occipital lobe

- 1 Frontal bone
- 2 Superior sagittal sinus
- 3 Falx cerebri
- 4 Superior frontal gyrus
- 5 Cingulate sulcus
- 6 Cingulate gyrus
- 7 Pericallosal artery
- 8 Middle frontal gyrus
- 9 Corpus callosum (genu)
- 10 Lateral ventricle (frontal horn)
- 11 Head of caudate nucleus
- 12 Inferior frontal gyrus



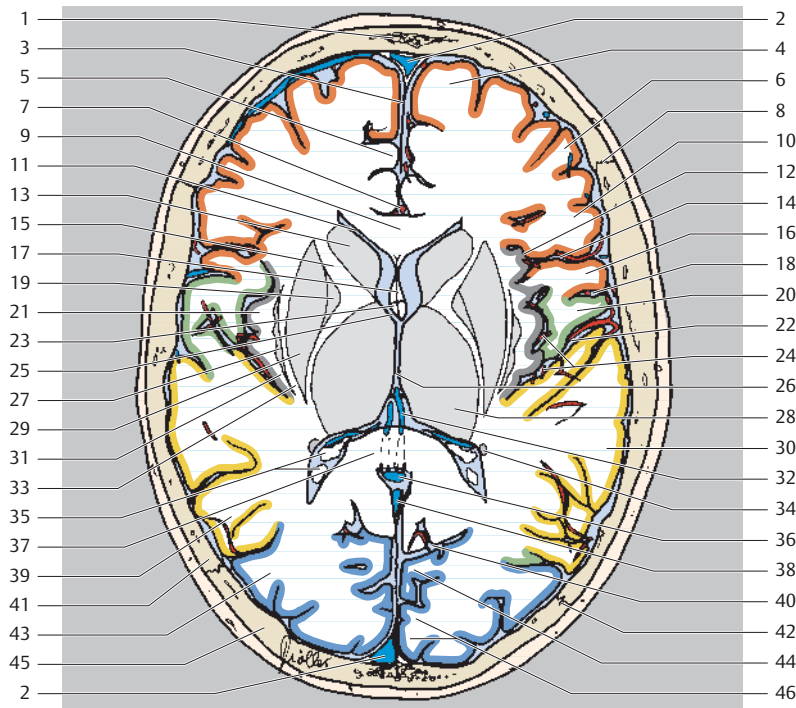
- | | |
|--|---|
| 13 Coronal suture | 30 Insula |
| 14 Fornix (column) | 31 Third ventricle (suprapineal recess) |
| 15 Internal capsule (anterior limb) | 32 Transverse temporal gyrus |
| 16 Precentral gyrus | 33 Choroid plexus in trigone of posterior horn of lateral ventricle |
| 17 Cave of septum pellucidum | 34 Superior temporal gyrus |
| 18 Central sulcus | 35 Great cerebral vein |
| 19 Internal capsule (genu) | 36 Tail of caudate nucleus |
| 20 Postcentral gyrus | 37 Angular gyrus |
| 21 Interventricular foramen (foramen of Monro) | 38 Corpus callosum, splenium |
| 22 Putamen | 39 Parietal bone |
| 23 Internal cerebral vein | 40 Major forceps (occipital forceps) |
| 24 External capsule | 41 Lambdoid suture |
| 25 Claustrum | 42 Parieto-occipital sulcus |
| 26 Extreme capsule | 43 Occipital gyri |
| 27 Internal capsule (posterior limb) | 44 Cuneus |
| 28 Lateral sulcus | 45 Precuneus |
| 29 Thalamus | 46 Occipital bone |



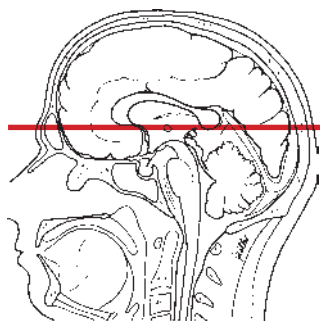
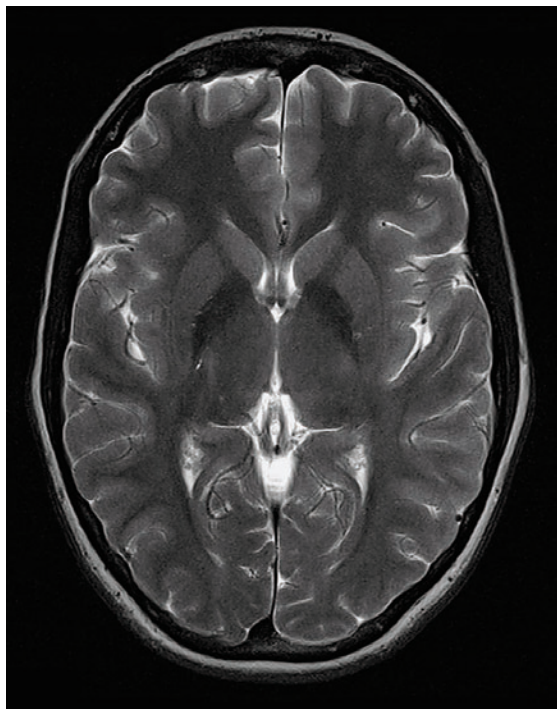
- Frontal lobe
- Temporal lobe
- Parietal lobe
- Occipital lobe

- 1 Frontal bone
- 2 Superior sagittal sinus
- 3 Falx cerebri
- 4 Superior frontal gyrus
- 5 Cingulate gyrus

- 6 Middle frontal gyrus
- 7 Pericallosal artery
- 8 Coronal suture
- 9 Corpus callosum (genu)
- 10 Inferior frontal gyrus

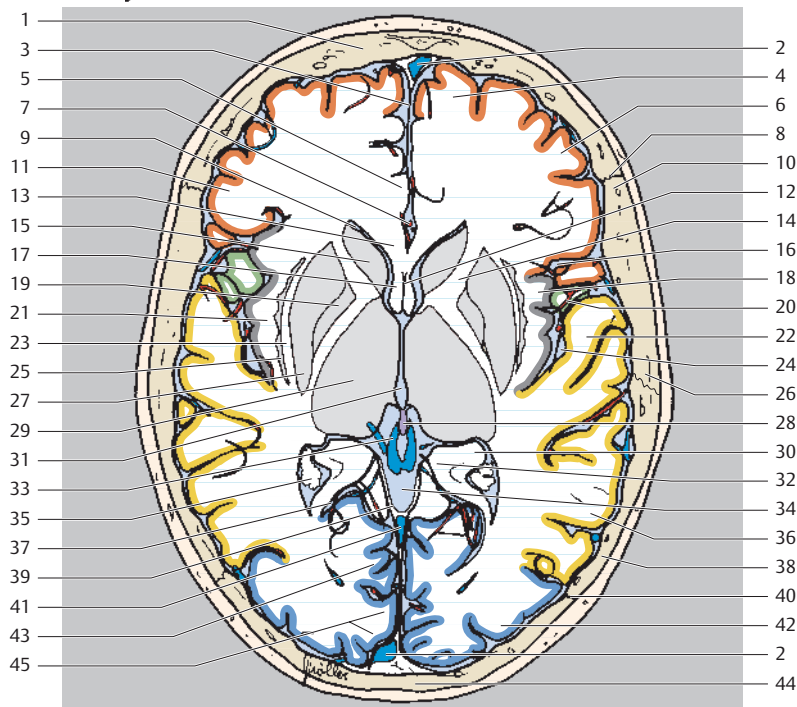


- | | |
|--|---|
| 11 Lateral ventricle (frontal horn) | 29 Putamen |
| 12 Circular sulcus of insula | 30 Superior temporal gyrus |
| 13 Head of caudate nucleus | 31 Extreme capsule |
| 14 Lateral sulcus | 32 Internal cerebral vein |
| 15 Internal capsule (anterior limb) | 33 External capsule |
| 16 Precentral gyrus | 34 Tail of caudate nucleus |
| 17 Cuneus | 35 Choroid plexus in trigone of posterior horn of lateral ventricle |
| 18 Central sulcus | 36 Great cerebral vein |
| 19 Globus pallidus | 37 Corpus callosum, splenium |
| 20 Postcentral gyrus | 38 Straight sinus |
| 21 Insula | 39 Middle temporal gyrus |
| 22 Cistern of lateral cerebral fossa (insular cistern) | 40 Parieto-occipital sulcus |
| 23 Fornix (column) | 41 Parietal bone |
| 24 Insular arteries | 42 Lambdoid suture |
| 25 Interventricular foramen (foramen of Monro) | 43 Occipital gyri |
| 26 Third ventricle | 44 Cuneus |
| 27 Claustrum | 45 Occipital bone |
| 28 Thalamus | 46 Striate cortex |

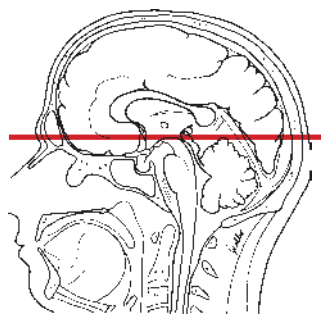
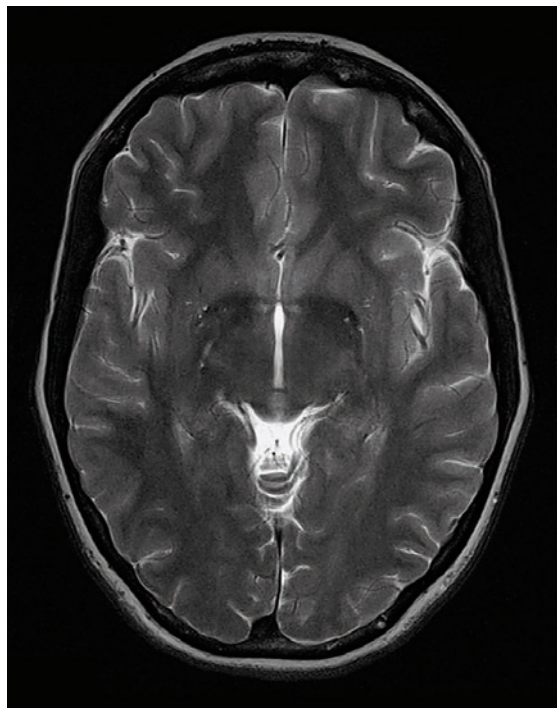


- Frontal lobe
- Temporal lobe
- Parietal lobe
- Occipital lobe

- 1 Frontal bone
- 2 Superior sagittal sinus
- 3 Falx cerebri
- 4 Superior frontal gyrus
- 5 Cingulate gyrus
- 6 Middle frontal gyrus
- 7 Anterior cerebral artery
- 8 Coronal suture
- 9 Lateral ventricle (frontal horn)

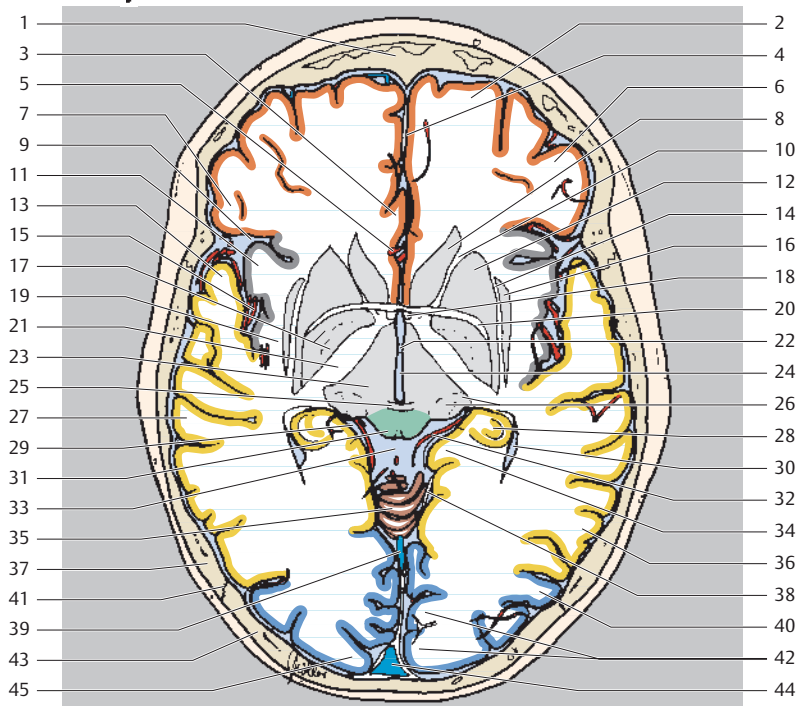


- | | |
|-------------------------------------|---|
| 10 Parietal bone | 29 Thalamus |
| 11 Inferior frontal gyrus | 30 Hippocampus |
| 12 Cune of septum pellucidum | 31 Third ventricle |
| 13 Corpus callosum | 32 Uncus of parahippocampal gyrus |
| 14 Internal capsule (anterior limb) | 33 Internal cerebral vein and great cerebral vein |
| 15 Head of caudate nucleus | 34 Superior cerebellar cistern |
| 16 Lateral sulcus | 35 Choroid plexus in trigone of posterior horn of lateral ventricle |
| 17 Fornix | 36 Middle temporal gyrus |
| 18 Insula | 37 Parieto-occipital artery |
| 19 Pallidum | 38 Parietal bone |
| 20 Insular arteries | 39 Tentorium cerebelli |
| 21 Extreme capsule | 40 Lambdoid suture |
| 22 Superior temporal gyrus | 41 Straight sinus |
| 23 External capsule | 42 Occipital gyri |
| 24 Insular cistern | 43 Cuneus |
| 25 Claustrum | 44 Occipital bone |
| 26 Temporal bone | 45 Striate cortex |
| 27 Putamen | |
| 28 Epiphysis of cerebrum | |

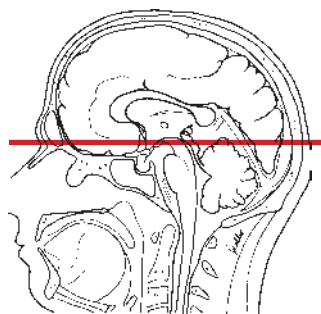
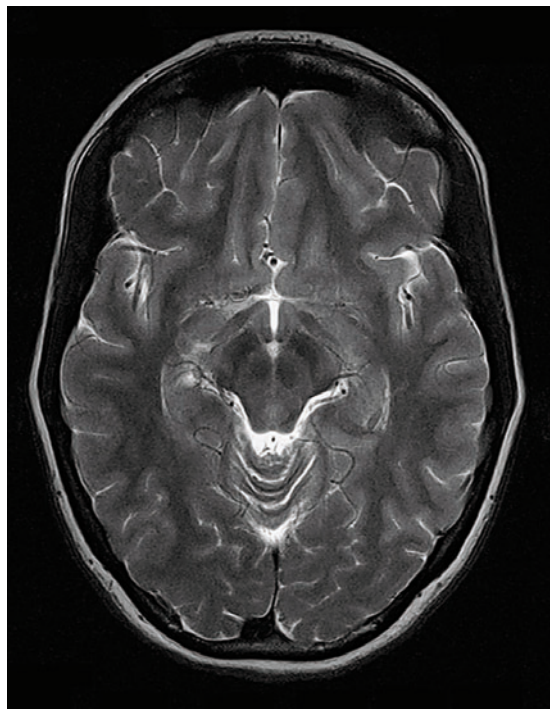


- Frontal lobe
- Temporal lobe
- Occipital lobe
- Cerebellum
- Mesencephalon

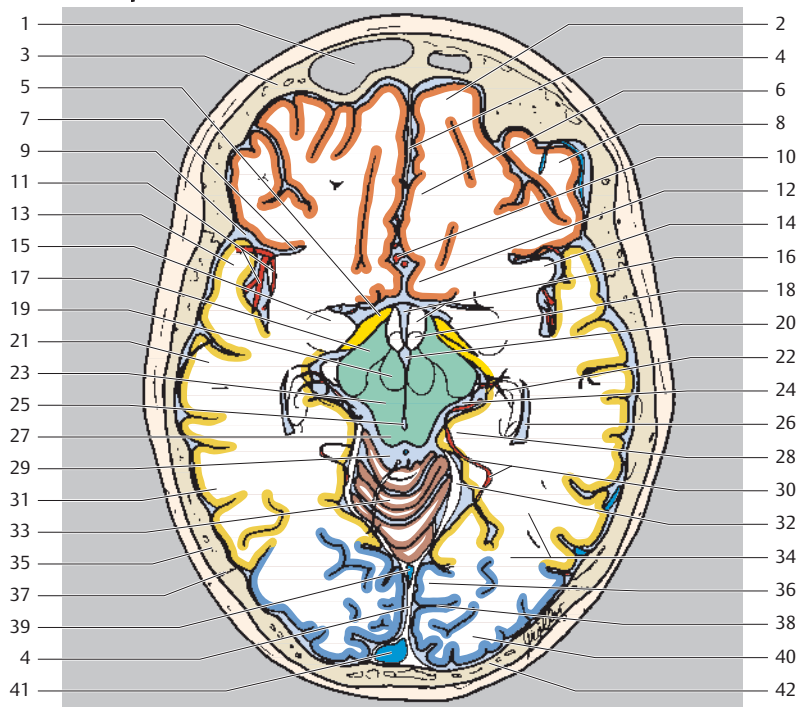
- 1 Frontal bone
- 2 Superior frontal gyrus
- 3 Cingulate gyrus
- 4 Falx cerebri
- 5 Anterior cerebral artery
- 6 Middle frontal gyrus
- 7 Inferior frontal gyrus
- 8 Head of caudate nucleus
- 9 Lateral sulcus
- 10 Internal capsule (anterior limb)



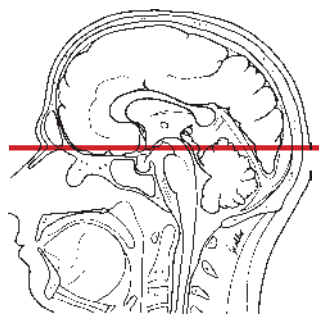
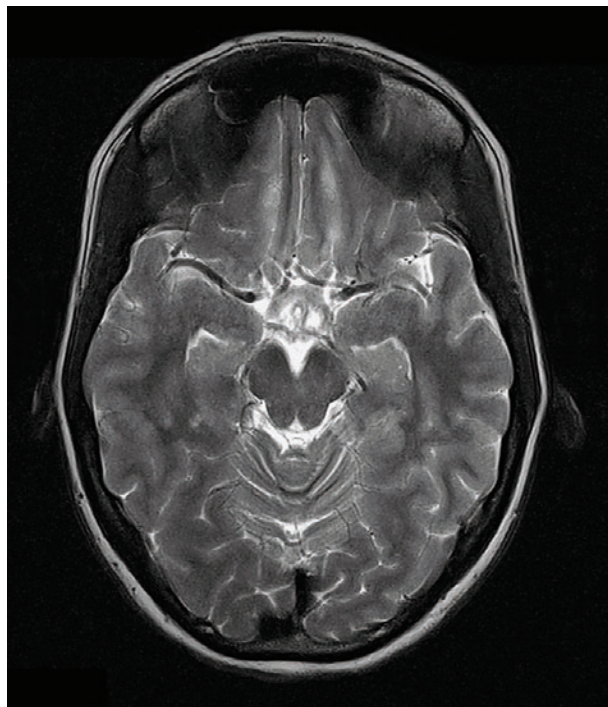
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|--|---------------------------------------|
| 11 Insula | 27 Middle temporal gyrus |
| 12 Putamen | 28 Hippocampus |
| 13 Superior temporal gyrus | 29 Ambient cistern |
| 14 External capsule | 30 Lateral ventricle (temporal horn) |
| 15 Insular arteries | 31 inferior colliculus |
| 16 Claustrum | 32 Basal vein |
| 17 Globus pallidus (lateral and medial segments) | 33 Quadrigeminal cistern |
| 18 Fornix | 34 Uncus of parahippocampal gyrus |
| 19 Extreme capsule | 35 Vermis of superior cerebellar lobe |
| 20 Anterior commissure | 36 Inferior temporal gyrus |
| 21 Internal capsule (posterior limb) | 37 Temporal bone |
| 22 Interthalamic adhesion | 38 Tentorium cerebelli |
| 23 Thalamus | 39 Straight sinus |
| 24 Third ventricle | 40 Occipital gyri |
| 25 Posterior commissure | 41 Lambdoid suture |
| 26 Medial and lateral geniculate body | 42 Striate cortex |
| | 43 Occipital bone |
| | 44 Superior sagittal sinus |
| | 45 Occipital pole |



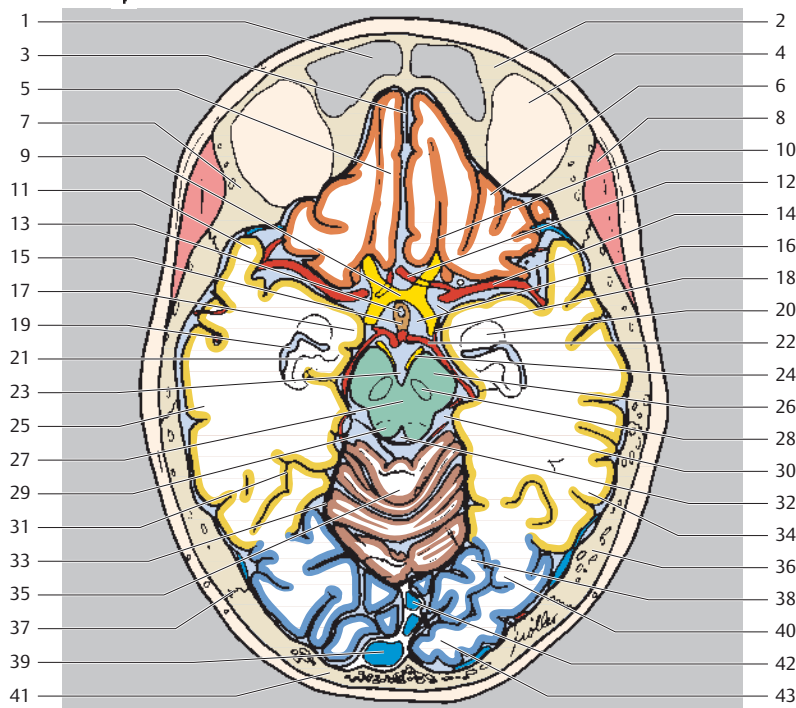
-  Frontal lobe
-  Temporal lobe
-  Occipital lobe
-  Cerebellum
-  Mesencephalon



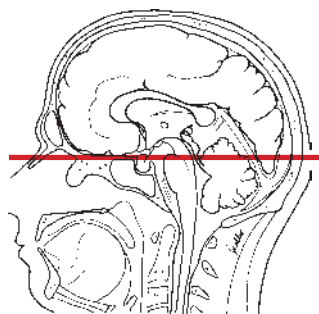
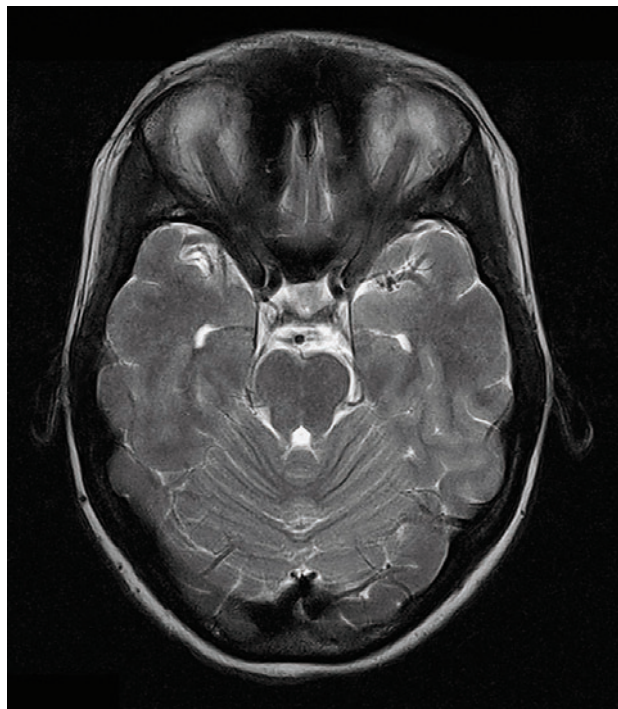
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|--|--|
| 1 Frontal sinus | 21 Middle temporal gyrus |
| 2 Superior frontal gyrus | 22 Hippocampus |
| 3 Frontal bone | 23 Tegmentum of midbrain |
| 4 Falx cerebri | 24 Ambient cistern |
| 5 Optic tract | 25 Aqueduct of mesencephalon |
| 6 Cingulate gyrus | 26 Lateral ventricle (temporal horn) |
| 7 Circular sulcus of insula | 27 Inferior colliculus |
| 8 Middle frontal gyrus | 28 Uncus of parahippocampal gyrus |
| 9 Lateral sulcus | 29 Quadrigeminal cistern |
| 10 Anterior cerebral artery | 30 Posterior cerebral artery |
| 11 Insular arteries | 31 Inferior temporal gyrus |
| 12 Subcallosal cortex | 32 Tentorium cerebelli |
| 13 Superior temporal gyrus | 33 Anterior cerebellar lobule (Vermis) |
| 14 Insula | 34 Optic radiation |
| 15 Amygdaloid body | 35 Temporal bone |
| 16 Third ventricle (optic recess) and hypothalamus | 36 Striate cortex |
| 17 Cerebral peduncle | 37 Lambdoid suture |
| 18 Mammillary body | 38 Calcarine sulcus |
| 19 Red nucleus | 39 Straight sinus |
| 20 Interpeduncular fossa | 40 Occipital pole |
| | 41 Superior sagittal sinus |
| | 42 Occipital bone |



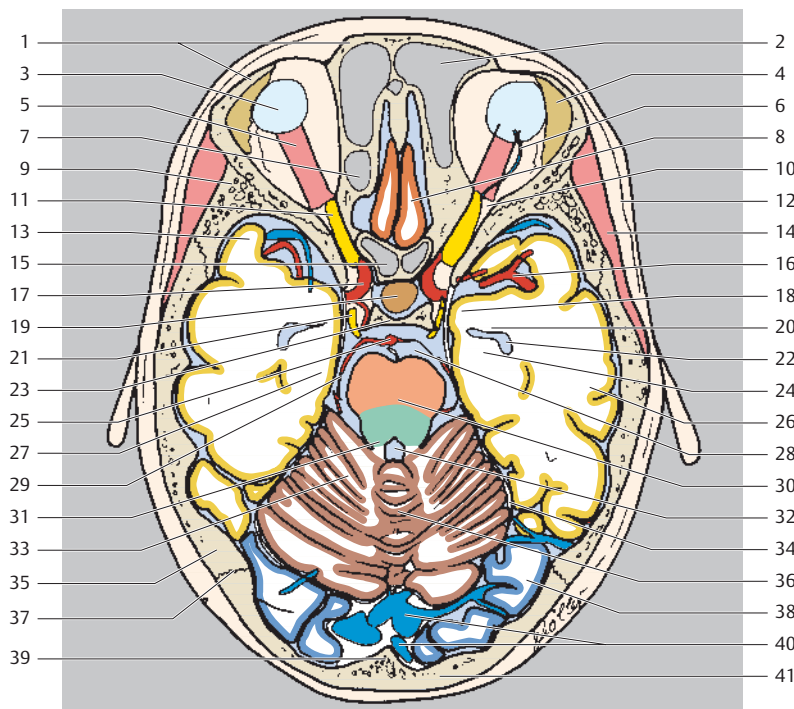
- Frontal lobe
- Temporal lobe
- Cerebellum
- Mesencephalon



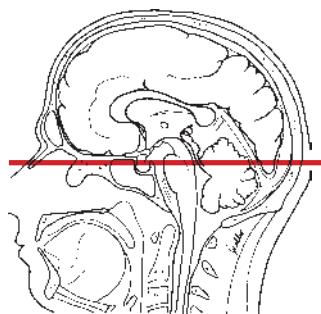
- | | |
|--------------------------------------|-----------------------------------|
| 1 Frontal sinus | 21 Hippocampus |
| 2 Frontal bone | 22 Posterior cerebral artery |
| 3 Falx cerebri | 23 Interpeduncular cistern |
| 4 Orbital roof | 24 Oculomotor nerve (III) |
| 5 Straight gyrus | 25 Middle temporal gyrus |
| 6 Orbital gyrus | 26 Cerebral peduncle |
| 7 Sphenoidal bone | 27 Tegmentum of midbrain |
| 8 Temporal muscle | 28 Substantia nigra |
| 9 Optic chiasm | 29 Inferior colliculus |
| 10 Olfactory sulcus | 30 Ambient cistern |
| 11 Superior temporal gyrus | 31 Collateral sulcus |
| 12 Anterior cerebral artery | 32 Aqueduct of midbrain |
| 13 Infundibular recess | 33 Tentorium cerebelli |
| 14 Middle cerebral artery | 34 Inferior temporal gyrus |
| 15 Hypothalamus | 35 Anterior cerebellar lobulus |
| 16 Chiasmatic cistern | 36 Temporal bone |
| 17 Uncus of parahippocampal gyrus | 37 Lambdoid suture |
| 18 Posterior communicating artery | 38 Medial occipitotemporal gyrus |
| 19 Lateral ventricle (temporal horn) | 39 Superior sagittal sinus |
| | 40 Lateral occipitotemporal gyrus |
| | 41 Occipital bone |
| | 42 Straight sinus |



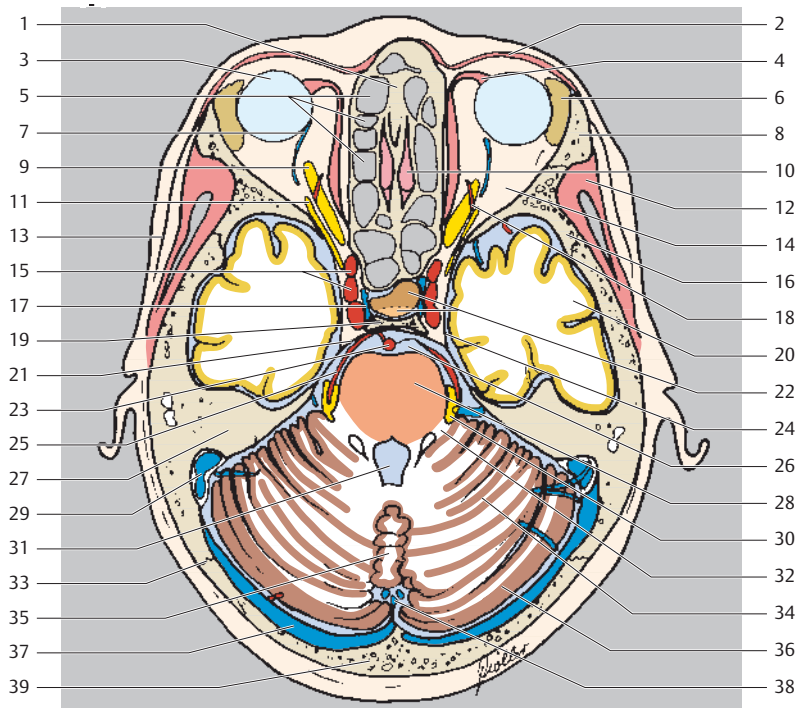
- Temporal lobe
- Occipital lobe
- Cerebellum
- Mesencephalon
- Pons



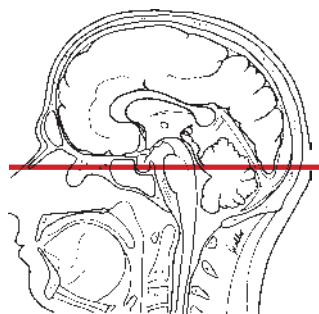
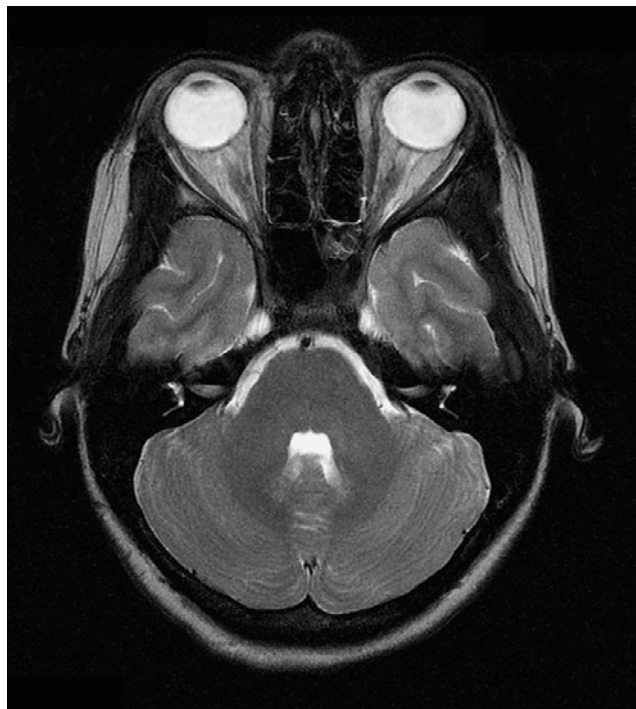
- | | |
|-----------------------------------|--------------------------------------|
| 1 Frontal bone | 21 Abducent nerve |
| 2 Frontal sinus | 22 Lateral ventricle (temporal horn) |
| 3 Eyeball | 23 Dorsum sellae |
| 4 Lacrimal gland | 24 Hippocampus |
| 5 Superior rectus muscle | 25 Basilar artery |
| 6 Ophthalmic vein | 26 Middle temporal gyrus |
| 7 Ethmoidal cells | 27 Parahippocampal gyrus |
| 8 Straight gyrus | 28 Prepontine cistern |
| 9 Sphenoidal bone | 29 Posterior cerebral artery |
| 10 Superior orbital fissure | 30 Pons |
| 11 Optic nerve | 31 Superior cerebellar peduncle |
| 12 Temporo-parietal muscle | 32 Fourth ventricle |
| 13 Superior temporal gyrus | 33 Anterior lobe of cerebellum |
| 14 Temporal muscle | 34 Tentorium cerebelli |
| 15 Sphenoidal sinus | 35 Temporal bone |
| 16 Middle cerebral artery | 36 Vermis of cerebellum |
| 17 Internal carotid artery | 37 Lambdoid suture |
| 18 Uncus of parahippocampal gyrus | 38 Occipital gyri |
| 19 Pituitary gland | 39 Internal occipital protuberance |
| 20 Amygdaloid body | 40 Confluence of sinuses |
| | 41 Occipital bone |



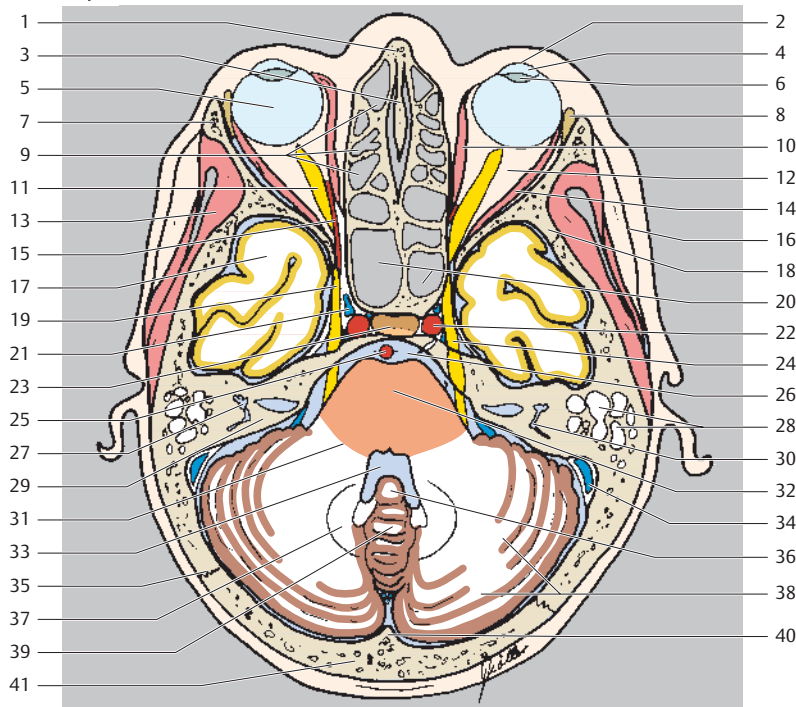
-  Temporal lobe
-  Occipital lobe
-  Cerebellum
-  Pons



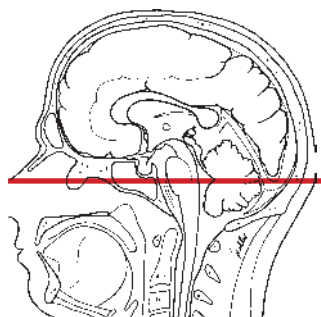
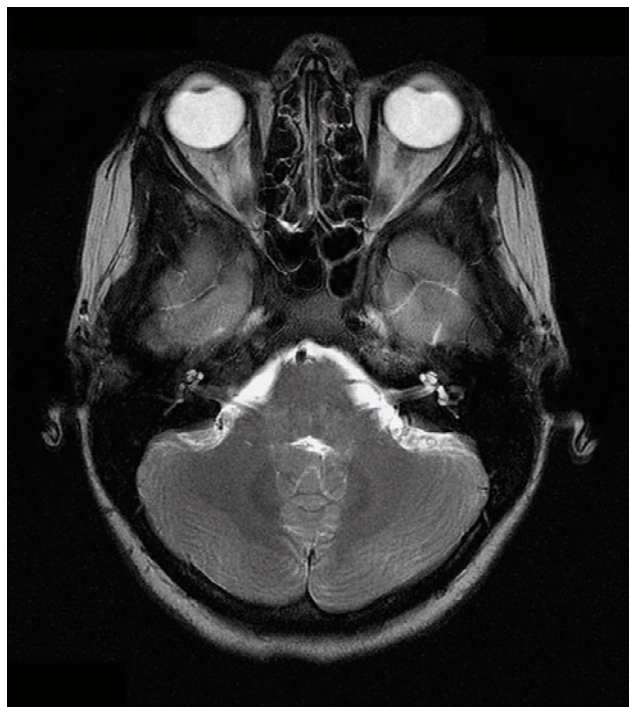
- | | |
|--|--|
| 1 Ethmoidal bone | 20 Inferior temporal gyrus |
| 2 Orbicularis oris muscle and occipitofrontal muscle | 21 Posterior petroclinoid ligament |
| 3 Eyeball | 22 Pituitary gland (neurohypophysis and adenohypophysis) |
| 4 Medial rectus muscle | 23 Basilar artery |
| 5 Ethmoidal cells | 24 Anterior petroclinoid ligament |
| 6 Lacrimal gland | 25 Posterior cerebral artery |
| 7 Superior ophthalmic vein | 26 Prepontine cistern |
| 8 Zygomatic bone | 27 Petrous part of temporal bone |
| 9 Optic nerve | 28 Pons |
| 10 Olfactory bulb | 29 Sigmoid sinus |
| 11 Oculomotor (III) and abducent (VI) nerves | 30 Trigeminal nerve (V) |
| 12 Temporal muscle | 31 Fourth ventricle |
| 13 Temporoparietal muscle | 32 Middle cerebellar peduncle |
| 14 Retro-orbital fatty tissue | 33 Lambdoid suture |
| 15 Internal carotid artery | 34 Anterior lobe of cerebellum |
| 16 Sphenoidal bone | 35 Vermis of cerebellum |
| 17 Cavernous sinus | 36 Posterior lobe of cerebellum |
| 18 Ophthalmic artery | 37 Transverse sinus |
| 19 Dorsum sellae | 38 Occipital sinus |
| | 39 Occipital bone |



-  Temporal lobe
-  Cerebellum
-  Pons

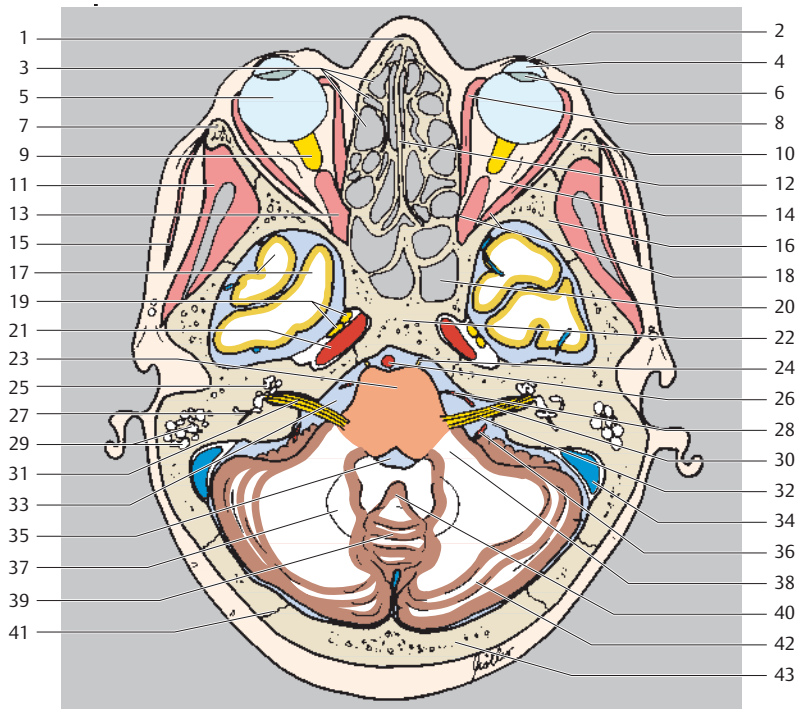


- | | |
|----------------------------------|------------------------------------|
| 1 Nasal bone | 22 Internal carotid artery |
| 2 Cornea | 23 Pituitary gland |
| 3 Nasal septum | 24 Trigeminal ganglion |
| 4 Anterior chamber of eyeball | 25 Basilar artery |
| 5 Eyeball | 26 Prepontine cistern |
| 6 Lens | 27 Cochlea |
| 7 Zygomatic bone | 28 Mastoid cells |
| 8 Lacrimal gland | 29 Petrous part of temporal bone |
| 9 Ethmoidal cells | 30 Semicircular canal |
| 10 Medial rectus muscle | 31 Middle cerebellar peduncle |
| 11 Optic nerve | 32 Pons |
| 12 Retro-orbital fatty tissue | 33 Fourth ventricle |
| 13 Temporal muscle | 34 Sigmoid sinus |
| 14 Lateral rectus muscle | 35 Lambdoid suture |
| 15 Ophthalmic artery | 36 Uvula of vermis |
| 16 Temporoparietal muscle | 37 Dentate nucleus |
| 17 Temporal lobe (temporal pole) | 38 Posterior lobe of cerebellum |
| 18 Sphenoidal bone | 39 Vermis of cerebellum |
| 19 Oculomotor nerve | 40 Internal occipital protuberance |
| 20 Sphenoidal sinus | 41 Occipital bone |
| 21 Cavernous sinus | |

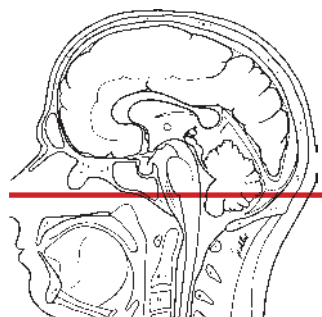
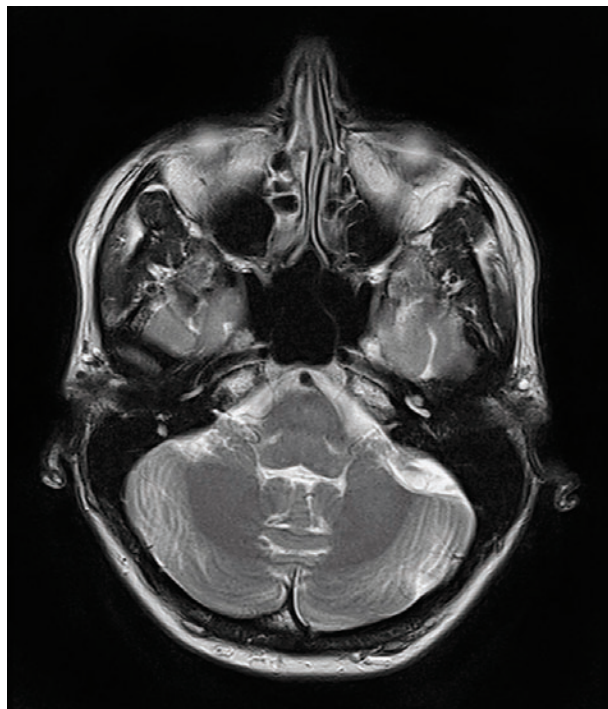


-  Temporal lobe
-  Cerebellum
-  Pons

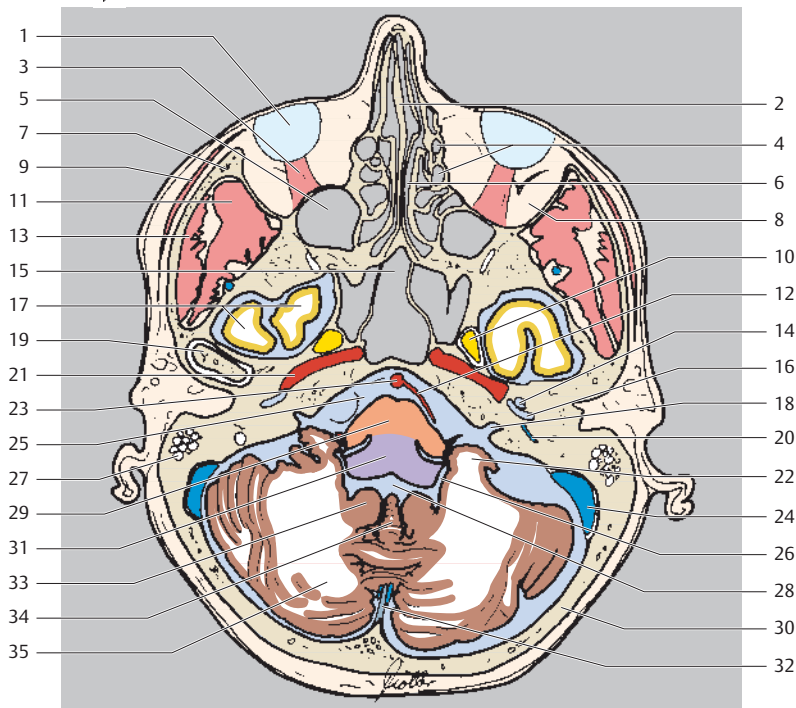
- 1 Nasal bone
- 2 Cornea
- 3 Ethmoidal cells
- 4 Anterior chamber of eyeball
- 5 Eyeball
- 6 Lens
- 7 Zygomatic bone
- 8 Medial rectus muscle
- 9 Optic nerve
- 10 Lateral rectus muscle



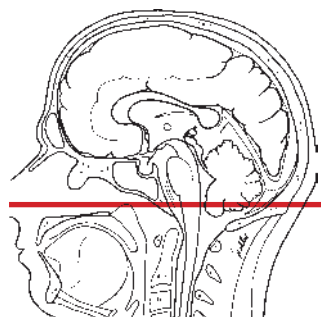
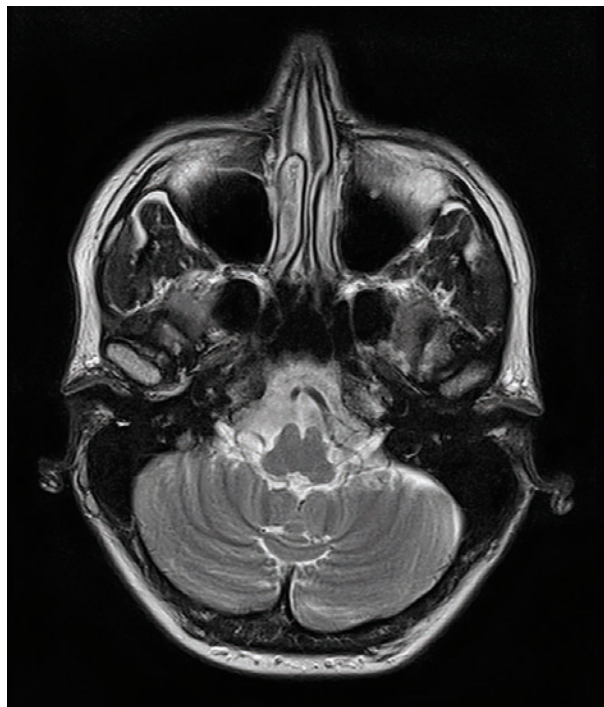
- | | |
|---|--|
| 11 Temporal muscle | 27 Posterior semicircular canal |
| 12 Nasal septum | 28 Superior cerebellar artery |
| 13 Superior rectus muscle and levator palpebrae superioris muscle | 29 Mastoid cells |
| 14 Retro-orbital fatty tissue | 30 Facial nerve (VII) and intermediate nerve |
| 15 Temporoparietal muscle | 31 Internal acoustic meatus |
| 16 Sphenoidal bone | 32 Vestibulocochlear (auditory) nerve (VIII) |
| 17 Temporal pole | 33 Pontocerebellar cistern |
| 18 Superior orbital fissure | 34 Sigmoid sinus |
| 19 Maxillary and mandibular nerves | 35 Fourth ventricle |
| 20 Sphenoidal sinus | 36 Anterior inferior cerebellar artery |
| 21 Internal carotid artery | 37 Dentate nucleus |
| 22 Clivus | 38 Middle cerebellar peduncle |
| 23 Pons | 39 Vermis of cerebellum |
| 24 Abducent nerve (VI) | 40 Uvula of vermis |
| 25 Cochlea | 41 Lambdoid suture |
| 26 Basilar artery | 42 Caudal lobule of cerebellum |
| | 43 Occipital bone |



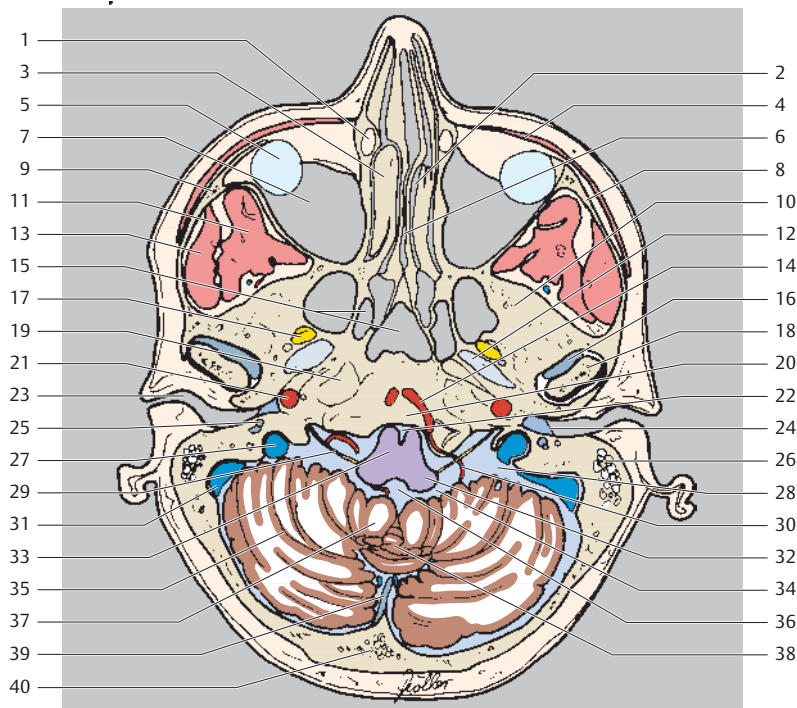
-  Cerebellum
-  Pons
-  Medulla oblongata



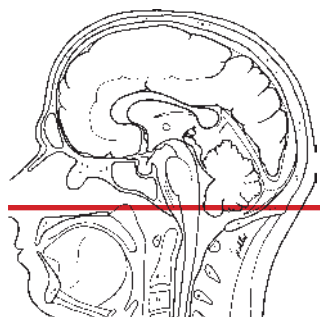
- | | |
|--|--|
| 1 Eyeball | 19 Head of mandible |
| 2 Nasal septum | 20 Posterior semicircular canal |
| 3 Inferior rectus muscle | 21 Internal carotid artery |
| 4 Ethmoidal cells | 22 Flocculus |
| 5 Maxillary sinus | 23 Basilar artery |
| 6 Nasal sinus | 24 Transverse sinus |
| 7 Zygomatic bone | 25 Pontocerebellar cistern |
| 8 Retrobulbar fat | 26 Lateral aperture of fourth ventricle (foramen of Luschka) |
| 9 Orbicularis oris muscle | 27 Mastoid cells |
| 10 Trigeminal nerve (V) | 28 Fourth ventricle |
| 11 Temporal muscle | 29 Pons |
| 12 Anterior inferior cerebellar artery | 30 Occipital bone |
| 13 Masseter muscle | 31 Medulla oblongata |
| 14 Cochlea | 32 Falx cerebelli |
| 15 Sphenoidal sinus | 33 Tonsil of cerebellum |
| 16 Vestibule | 34 Vermis of cerebellum |
| 17 Inferior temporal gyrus | 35 Cerebellum |
| 18 Internal acoustic meatus | |



- Cerebellum
- Medulla oblongata

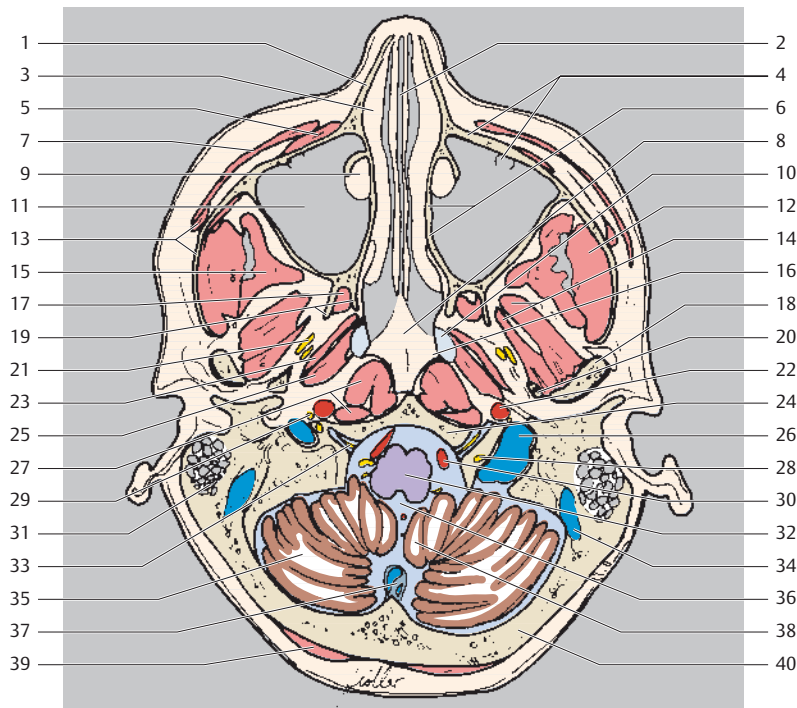


- | | |
|--|--|
| 1 Nasolacrimal duct | 22 Ventral median fissure |
| 2 Nasal cavity | 23 External acoustic meatus |
| 3 Nasal concha | 24 Tympanic membrane |
| 4 Orbicularis oris muscle | 25 Cochlea |
| 5 Eyeball | 26 Mastoid cells |
| 6 Nasal septum | 27 Internal jugular vein |
| 7 Maxillary sinus | 28 Pontocerebellar cistern |
| 8 Sphenoidal bone | 29 Glossopharyngeal nerve (IX) and vagus nerve (X) |
| 9 Zygomatic bone | 30 Anterior inferior cerebellar artery |
| 10 Temporal bone | 31 Sigmoid sinus |
| 11 Temporal muscle | 32 Medulla oblongata (caudal cerebellar peduncle) |
| 12 Pharyngotympanic tube (auditory tube) | 33 Medulla oblongata (olivary nucleus) |
| 13 Masseter muscle | 34 Lateral aperture of fourth ventricle (foramen of Luschka) |
| 14 Vertebral artery | 35 Cerebellum (posterior lobe) |
| 15 Sphenoidal bone | 36 Fourth ventricle |
| 16 Articular disc | 37 Tonsil of cerebellum |
| 17 Trigeminal nerve (V) | 38 Vermis of cerebellum |
| 18 Head of mandible | 39 Falx cerebelli |
| 19 Foramen lacerum | 40 Occipital bone |
| 20 Clivus | |
| 21 Internal carotid artery | |

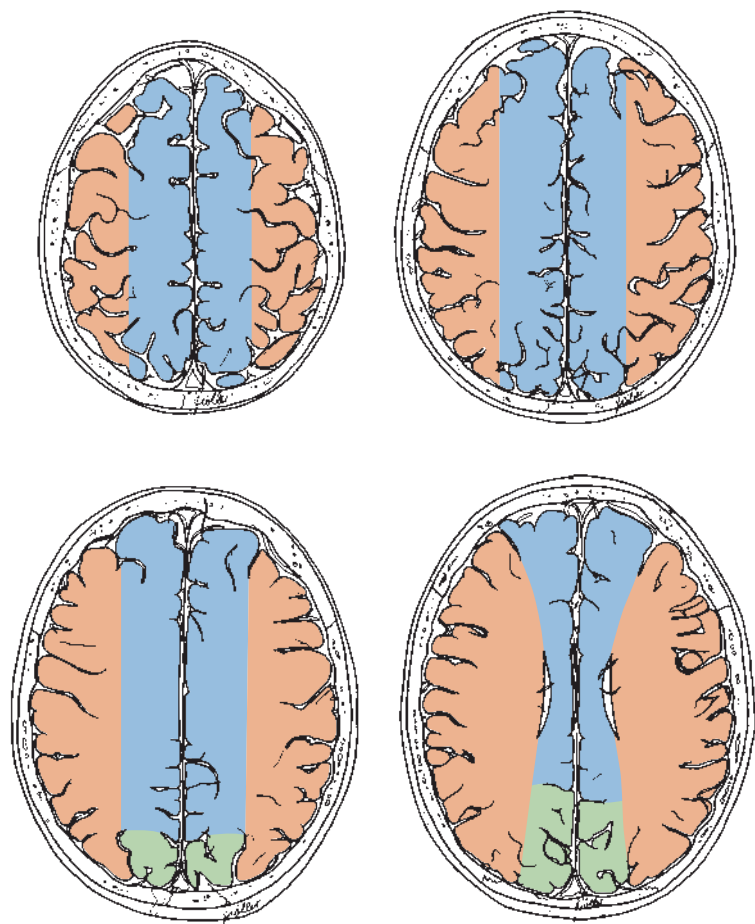


- Cerebellum
- Medulla oblongata

- | | |
|--------------------------------------|-----------------------------------|
| 1 Nasal bone | 5 Levator labii superioris muscle |
| 2 Nasal septum | 6 Medial wall of maxillary sinus |
| 3 Superior nasal concha | (with maxillary hiatus) |
| 4 Maxilla (with infra-orbital canal) | 7 Orbicularis oris muscle |
| | 8 Vomer (sphenoidal bone) |



- | | |
|---|--|
| 9 Nasolacrimal duct | 23 Tensor veli palatini muscle |
| 10 Pharyngotympanic tube (auditory tube) | 24 Clivus |
| 11 Maxillary sinus | 25 Levator veli palatini muscle |
| 12 Masseter muscle | 26 Internal jugular vein (bulb) |
| 13 Zygomatic bone and zygomaticus muscles | 27 Longus capitis muscle |
| 14 Lateral pterygoid muscle (superior and inferior heads) | 28 Vagus (X) and accessory (XI) nerves |
| 15 Temporal muscles | 29 Glossopharyngeal nerve (IX) |
| 16 Pharyngeal recess | 30 Vertebral artery |
| 17 Medial pterygoid muscle | 31 Mastoid cells |
| 18 Head of mandible | 32 Medulla oblongata |
| 19 Pterygoid process (medial and lateral plates) | 33 Hypoglossal nerve (XII) |
| 20 Sphenoidal bone (tip) | 34 Sigmoid sinus |
| 21 Mandibular nerve and auriculotemporal nerve | 35 Hemisphere of cerebellum (posterior lobe) |
| 22 Internal carotid artery | 36 Fourth ventricle (medial aperture) |
| | 37 Falx cerebelli with occipital sinus |
| | 38 Tonsil of cerebellum |
| | 39 Semispinalis capitis muscle |
| | 40 Occipital bone |

**Anterior cerebral artery**

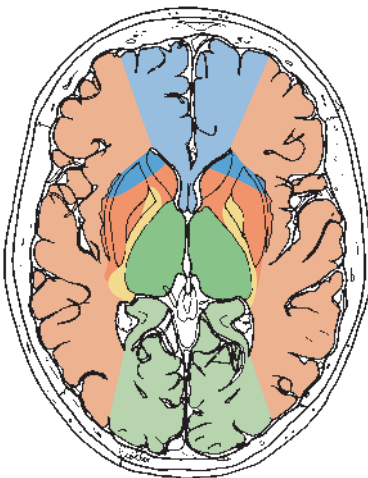
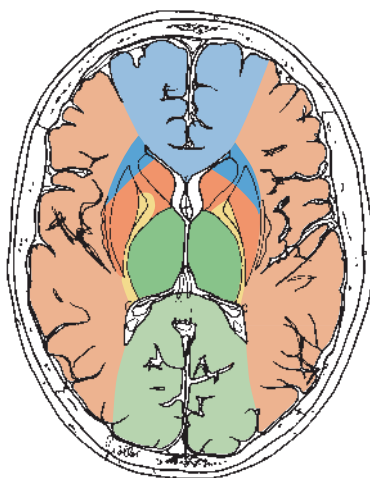
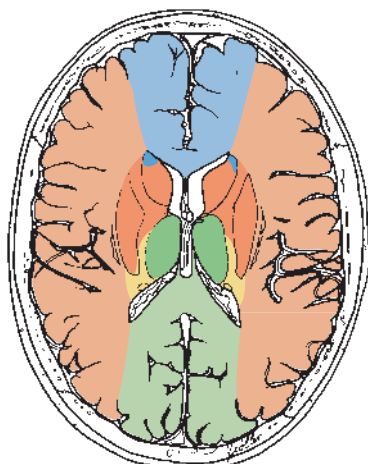
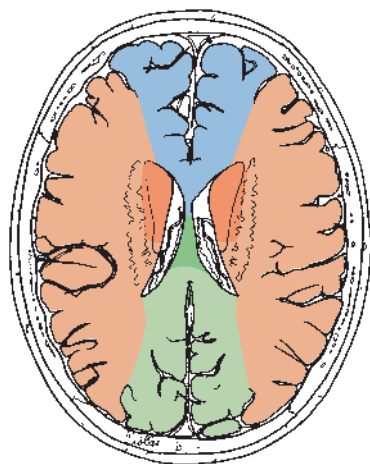
Terminal branches

Middle cerebral artery

Terminal branches

Posterior cerebral artery

Terminal branches

**Anterior cerebral artery**

- Terminal branches
- Central branches (striated branches arteries and Huebner's recurrent including distal medial striate artery)

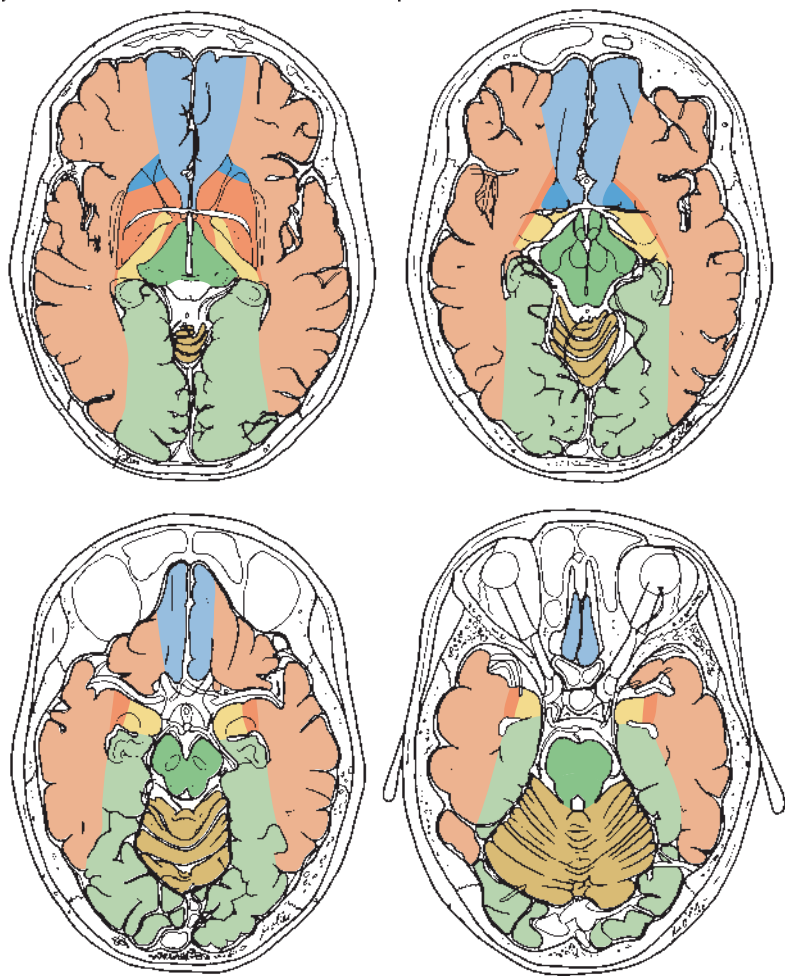
Middle cerebral artery

- Terminal branches
- Central branches (striated branches)

Posterior cerebral artery

- Terminal branches
- Central branches (including the posterior communicating artery)

- Anterior choroidal artery

**Anterior cerebral artery**

- Terminal branches
- Central branches (striated branches)

Middle cerebral artery

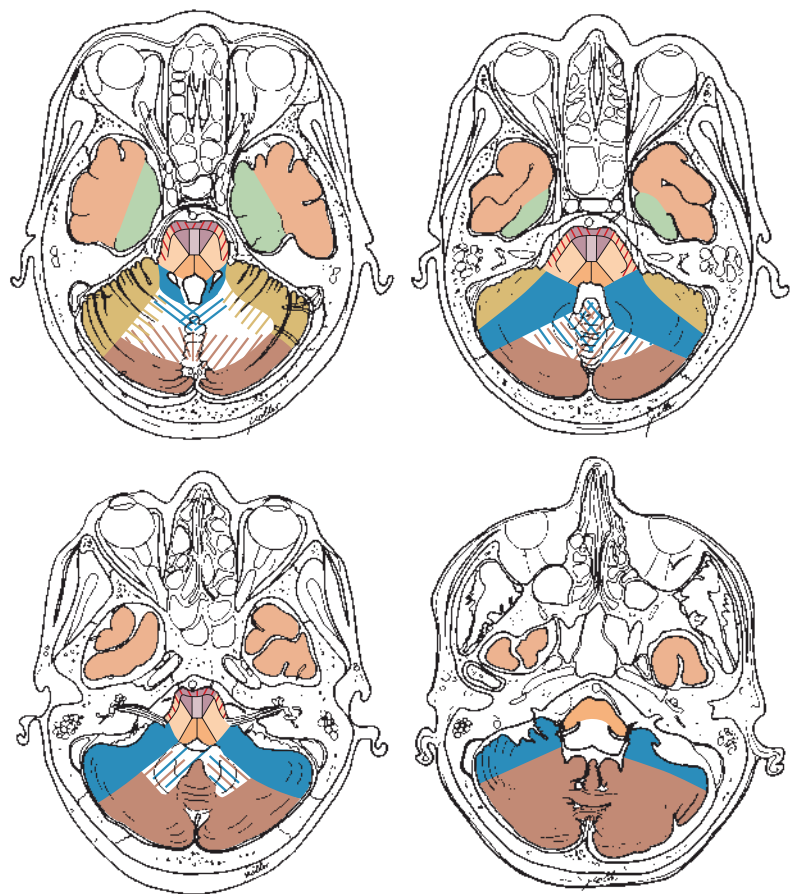
- Terminal branches
- Central branches (striated branches)

Posterior cerebral artery

- Terminal branches
- Central branches (including the posterior communicating artery)

- Anterior choroidal artery

- Superior cerebellar artery

**Middle cerebral artery**

Terminal branches

Posterior cerebral artery

Terminal branches

Basilar artery: superficial arteries

Median brain-stem arteries

Short circumferential artery

Long circumferential artery

Basilar artery: central arteries

Anteromedial

Anterolateral

Lateral

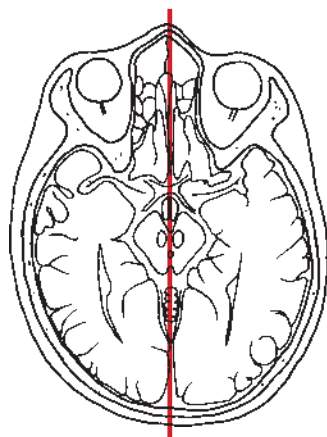
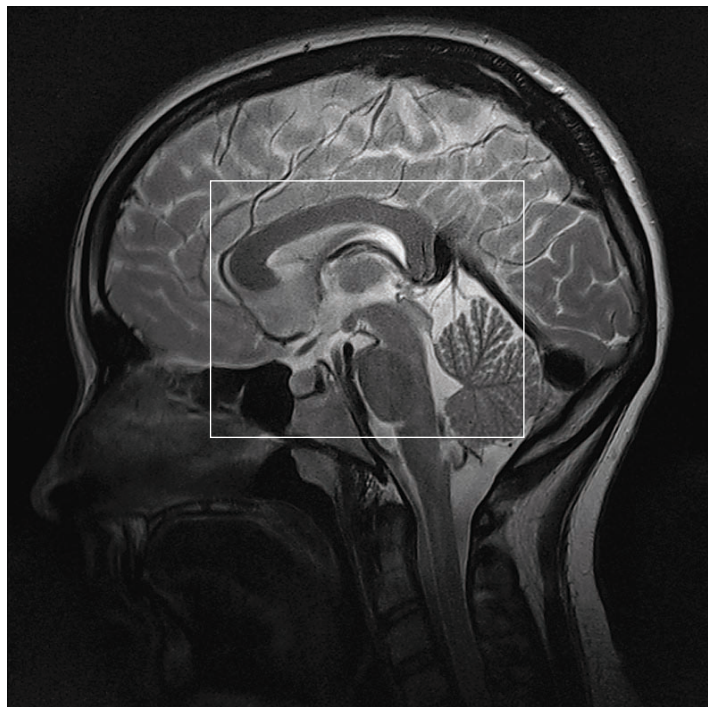
Dorsal

Superior cerebellar artery

Anterior inferior cerebellar artery

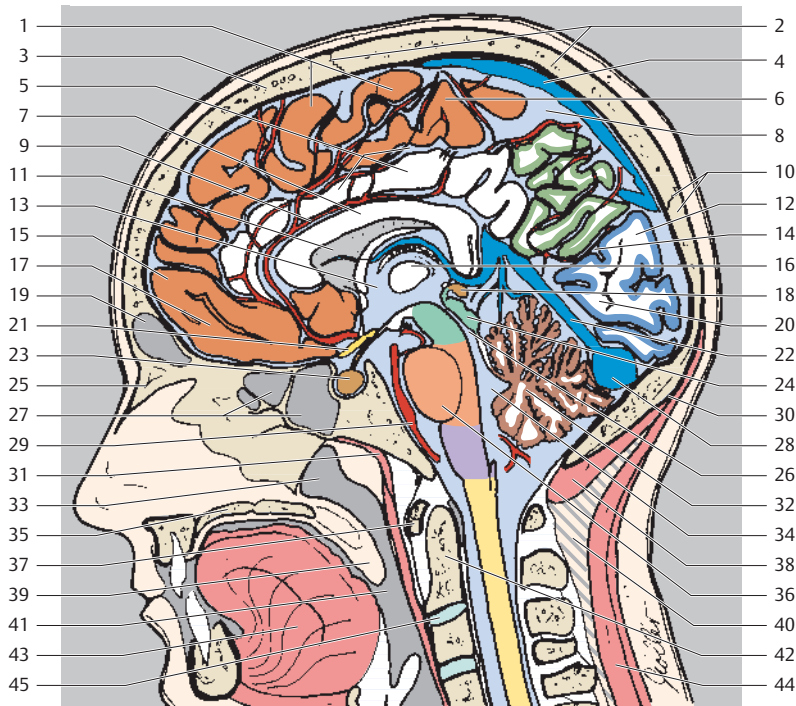
Border region

Posterior inferior cerebellar artery

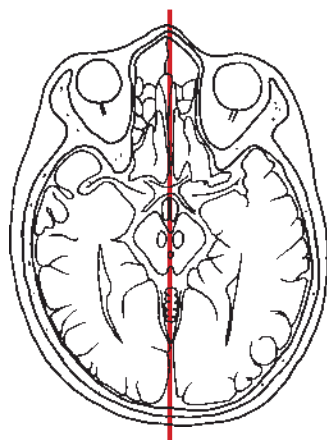
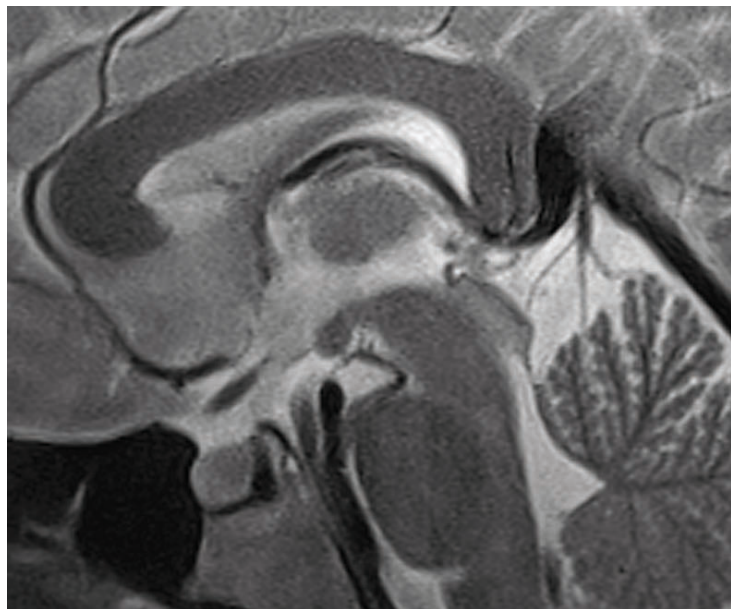


- Frontal lobe
- Parietal lobe
- Occipital lobe
- Cerebellum
- Mesencephalon
- Pons
- Medulla oblongata

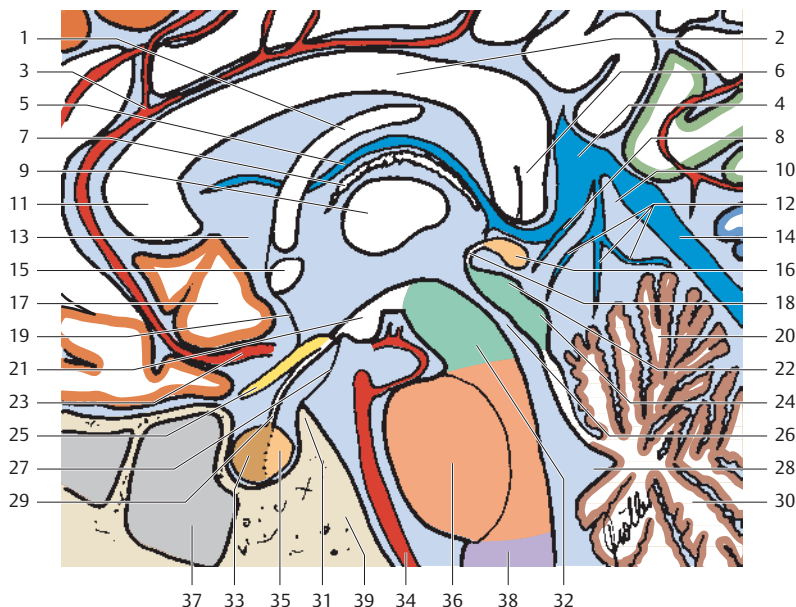
- 1 Superior frontal gyrus
- 2 Parietal bone and coronal suture
- 3 Frontal bone
- 4 Superior sagittal sinus
- 5 Cingulate gyrus and sulcus
- 6 Precentral gyrus
- 7 Corpus callosum (genu)



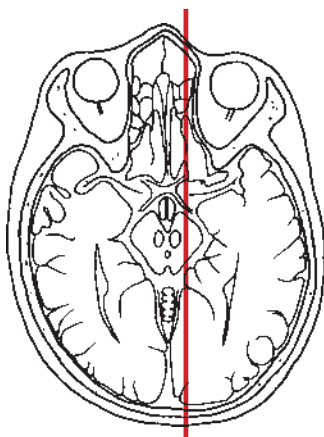
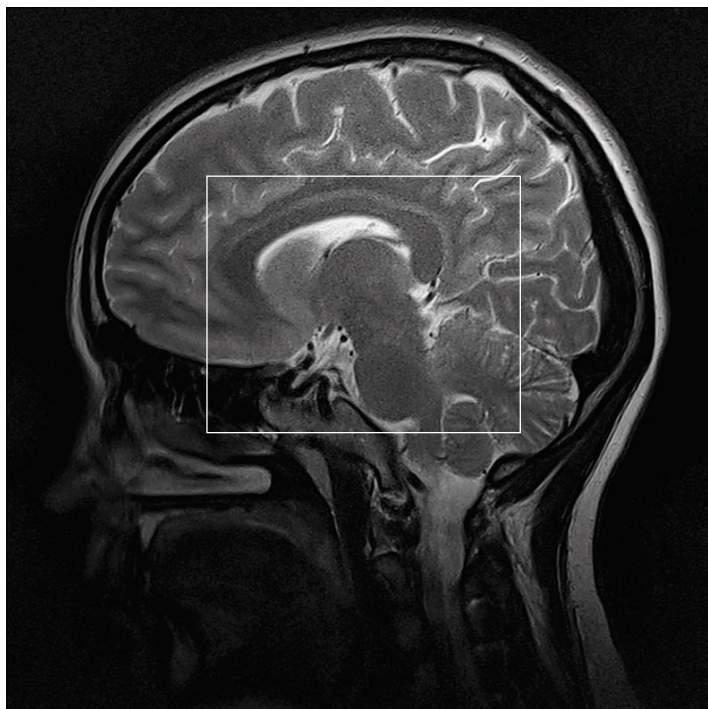
- | | |
|---|---|
| 8 Falx cerebri in Longitudinal cerebral fissure | 27 Ethmoid sinus and sphenoidal sinus |
| 9 Pericallosal artery | 28 Confluence of sinuses |
| 10 Occipital bone and lambdoid suture | 29 Basilar artery |
| 11 Septum pellucidum | 30 External occipital protuberance |
| 12 Cuneus | 31 Superior constrictor muscle of pharynx |
| 13 Third ventricle | 32 Cerebellum |
| 14 Parieto-occipital sulcus | 33 Nasopharynx |
| 15 Frontal pole | 34 Fourth ventricle |
| 16 Interthalamic adhesion | 35 Hard palate |
| 17 Straight gyrus | 36 Pons |
| 18 Cerebral epiphysis | 37 Atlas, anterior arch |
| 19 Frontal sinus | 38 Rectus capitis posterior minor muscle |
| 20 Lingual gyrus | 39 Uvula |
| 21 Optic nerve (II) | 40 Ligamentum nuchae (nuchal ligament) |
| 22 Straight sinus | 41 Oropharynx |
| 23 Pituitary gland | 42 Dens of axis |
| 24 Quadrigeminal plate | 43 Tongue |
| 25 Nasal bone | 44 Semispinalis capitis muscle |
| 26 Aqueduct | 45 Intervertebral disc (C2/C3) |



- Frontal lobe
- Parietal lobe
- Occipital lobe
- Cerebellum
- Mesencephalon
- Pons
- Medulla oblongata

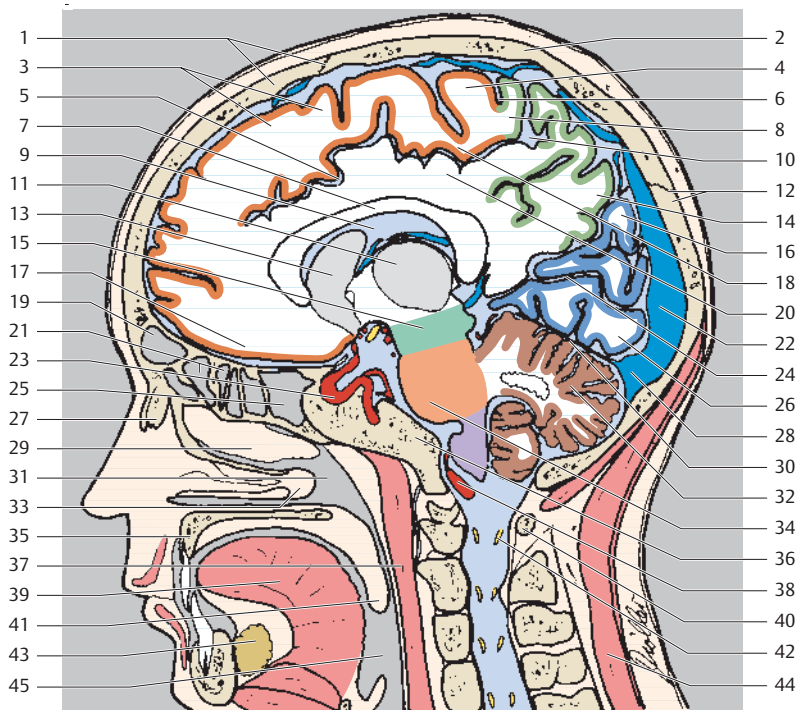


- | | |
|---|--|
| 1 Fornix (body) | 22 Tectal (quadrigeminal) plate (superior colliculus) |
| 2 Corpus callosum (trunk) | 23 Anterior cerebral artery |
| 3 Pericallosal artery | 24 Tectal (quadrigeminal) plate (posterior colliculus) |
| 4 Great cerebral vein | 25 Optic nerve (II) |
| 5 Internal cerebral vein | 26 Aqueduct |
| 6 Corpus callosum (splenium) | 27 Lilliequist's membrane |
| 7 Choroid plexus | 28 Fourth ventricle (roof) |
| 8 Basal vein | 29 Infundibulum of pituitary gland |
| 9 Interthalamic adhesion | 30 Hemisphere of cerebellum (posterior lobe) |
| 10 Cistern of great cerebral vein | 31 Dorsum sellae |
| 11 Corpus callosum (genu) | 32 Mesencephalon (midbrain) |
| 12 Cerebellar veins | 33 Anterior lobe of pituitary gland (adenohypophysis) |
| 13 Third ventricle | 34 Basilar artery |
| 14 Straight sinus | 35 Posterior lobe of pituitary gland (neurohypophysis) |
| 15 Anterior commissure | 36 Pons |
| 16 Pineal body | 37 Sphenoidal sinus |
| 17 Paraterminal gyrus | 38 Medulla oblongata |
| 18 Posterior commissure | 39 Clivus |
| 19 Lamina terminalis | |
| 20 Hemisphere of cerebellum (anterior lobe) | |
| 21 Mammillary body | |

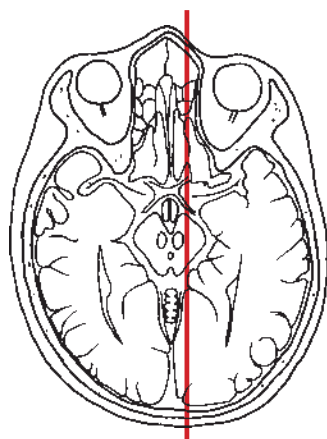
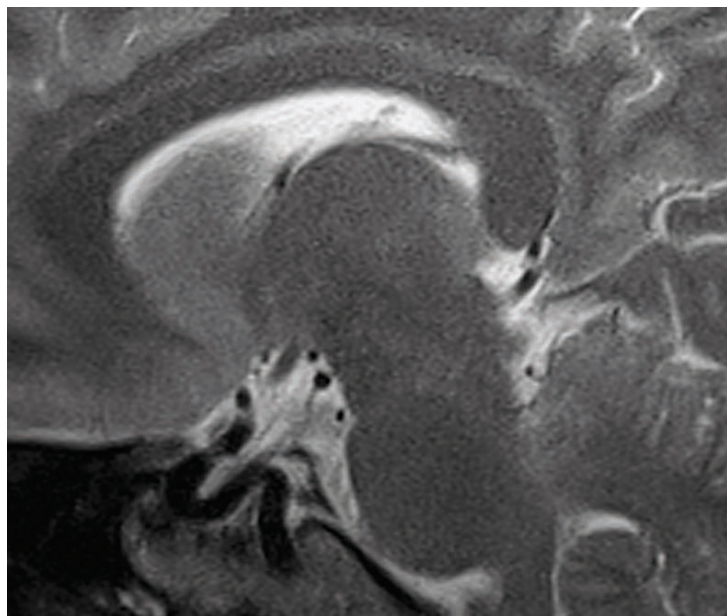


-  Frontal lobe
-  Parietal lobe
-  Occipital lobe
-  Cerebellum
-  Mesencephalon
-  Pons
-  Medulla oblongata

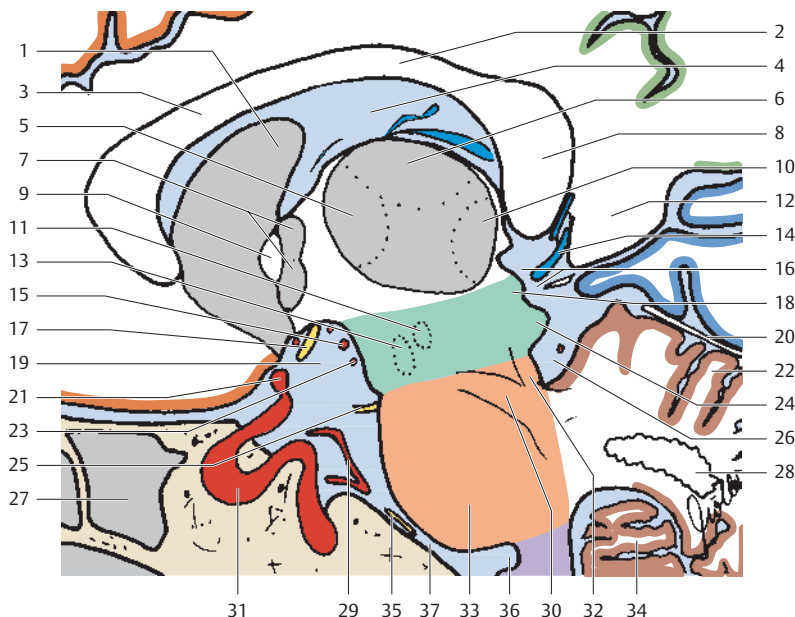
- 1 Frontal bone and coronal suture
- 2 Parietal bone
- 3 Superior frontal gyrus
- 4 Precentral gyrus
- 5 Cingulate gyrus
- 6 Central sulcus
- 7 Corpus callosum
- 8 Postcentral gyrus



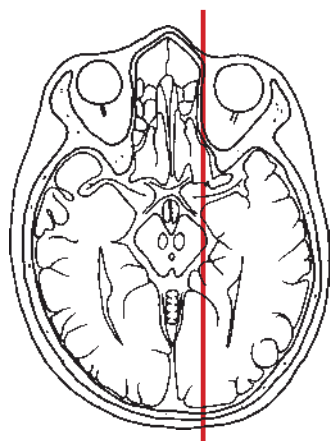
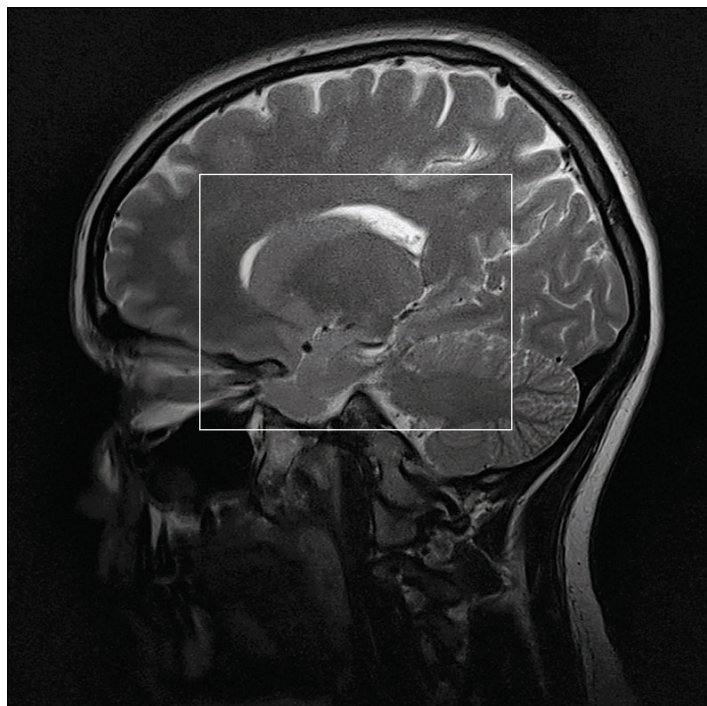
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|---------------------------------------|--------------------------------|
| 9 Lateral ventricle (central part) | 27 Nasal bone |
| 10 Postcentral sulcus | 28 Confluence of sinuses |
| 11 Thalamus | 29 Middle nasal concha |
| 12 Occipital bone and lambdoid suture | 30 Tentorium cerebelli |
| 13 Caudate nucleus (head) | 31 Nasopharynx |
| 14 Precuneus | 32 Cerebellum |
| 15 Cerebral peduncle | 33 Inferior nasal concha |
| 16 Cuneus | 34 Pons |
| 17 Straight gyrus | 35 Hard palate |
| 18 Precentral lobule | 36 Clivus |
| 19 Frontal sinus | 37 Longus capitis muscle |
| 20 Cingulate gyrus | 38 Vertebral artery |
| 21 Ethmoidal sinus | 39 Tongue |
| 22 Superior sagittal sinus | 40 Atlas, posterior arch |
| 23 Internal carotid artery (syphon) | 41 Uvula |
| 24 Calcarine sulcus | 42 Nerve roots |
| 25 Sphenoidal sinus | 43 Sublingual gland |
| 26 Medial occipitotemporal gyrus | 44 Semispinalis capitis muscle |
| | 45 Oropharynx |



- Frontal lobe
- Parietal lobe
- Occipital lobe
- Cerebellum
- Mesencephalon
- Pons
- Medulla oblongata

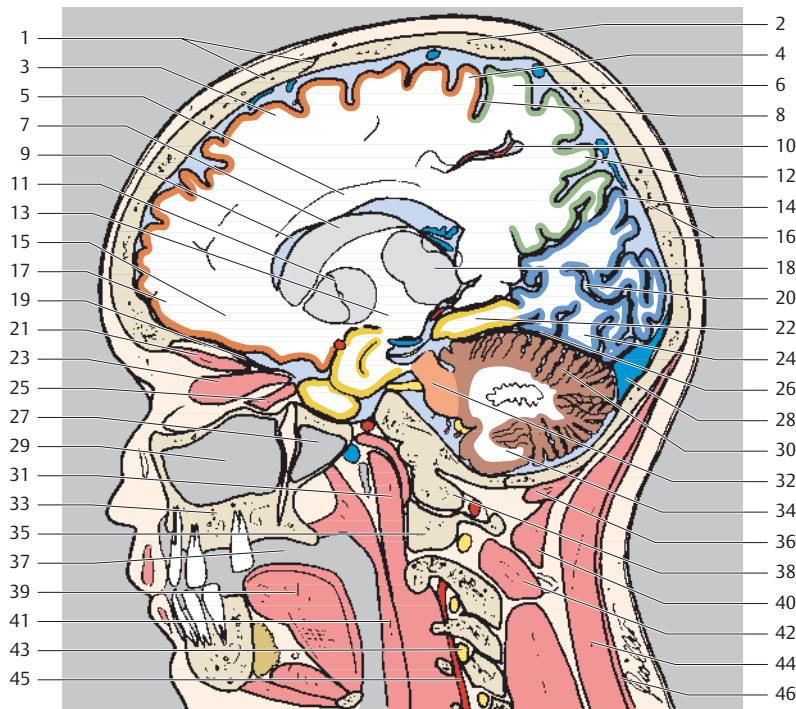


- | | |
|---|--|
| 1 Head of caudate nucleus | 19 Interpeduncular cistern |
| 2 Corpus callosum (trunk) | 20 Tentorium cerebelli |
| 3 Corpus callosum (genu) | 21 Anterior cerebral artery |
| 4 Lateral ventricle | 22 Hemisphere of cerebellum (anterior lobe) |
| 5 Thalamus (ventral lateral complex) | 23 Superior cerebellar artery |
| 6 Thalamus (posterior lateral complex) | 24 Tectal (quadrigeminal) plate (posterior colliculus) |
| 7 Globus pallidus (lateral and medial segments) | 25 Trigeminal nerve (V) |
| 8 Corpus callosum (splenium) | 26 Ambient cistern |
| 9 Anterior commissure | 27 Sphenoidal sinus |
| 10 Thalamus (pulvinar) | 28 Dentate nucleus |
| 11 Red nucleus | 29 Posterior communicating artery |
| 12 Parahippocampal gyrus | 30 Cerebellar peduncle |
| 13 Substantia nigra | 31 Internal carotid artery |
| 14 Great cerebral vein | 32 Lateral lemniscus |
| 15 Posterior cerebral artery | 33 Pons |
| 16 Quadrigeminal cistern | 34 Tonsil of cerebellum |
| 17 Optic tract | 35 Abducent nerve (VI) |
| 18 Tectal (quadrigeminal) plate (superior colliculus) | 36 Fourth ventricle (lateral aperture) |
| | 37 Pontocerebellar cistern |

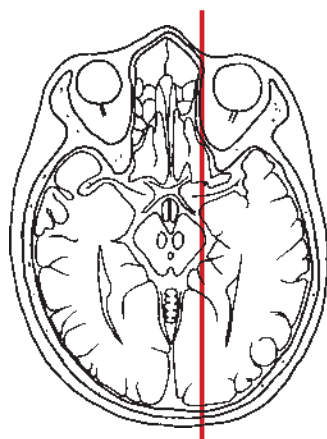
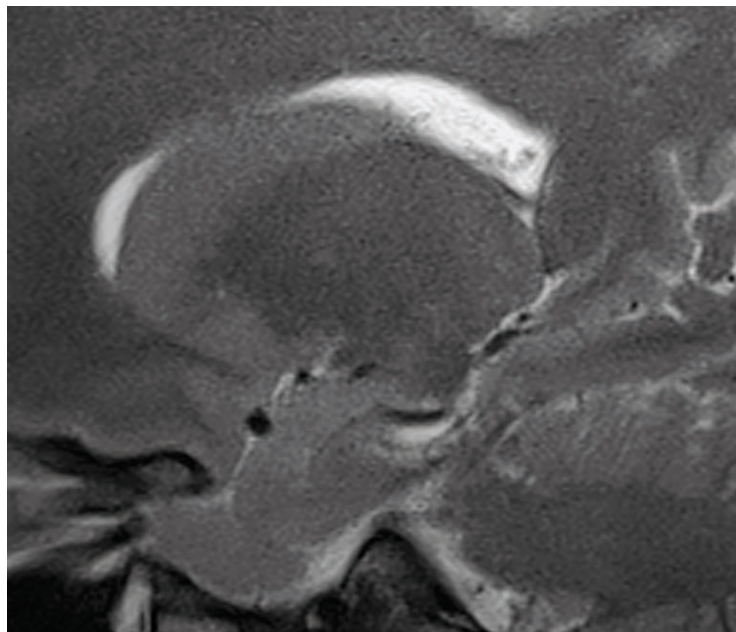


- Frontal lobe
- Temporal lobe
- Parietal lobe
- Occipital lobe
- Cerebellum
- Pons

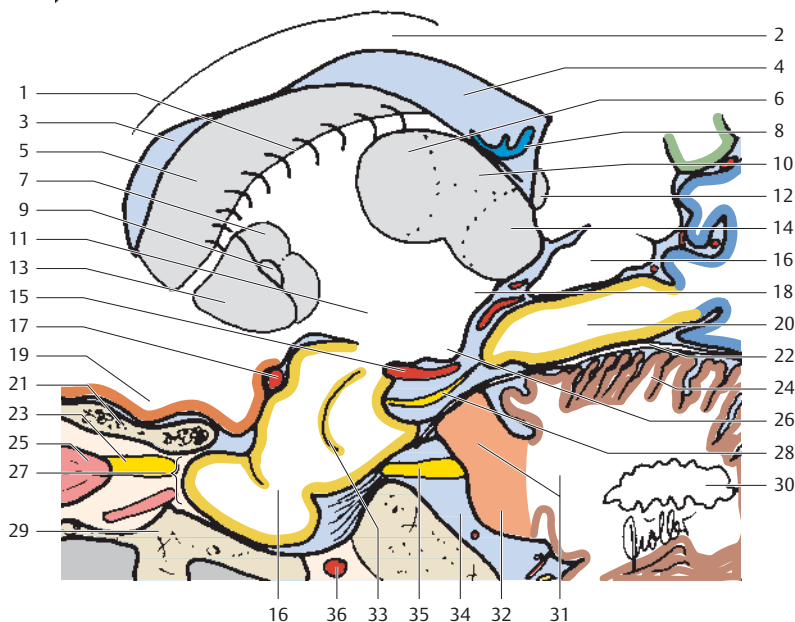
- 1 bone
- 2 Frontal bone and coronal suture
- 3 Parietal Superior frontal gyrus
- 4 Precentral gyrus
- 5 Corpus callosum
- 6 Postcentral gyrus
- 7 Caudate nucleus (body)
- 8 Central sulcus



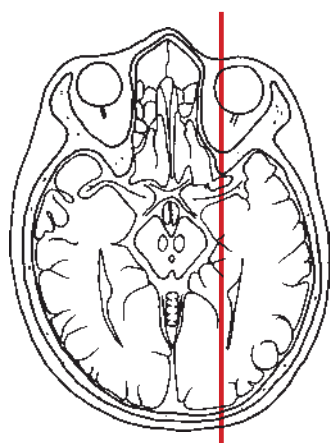
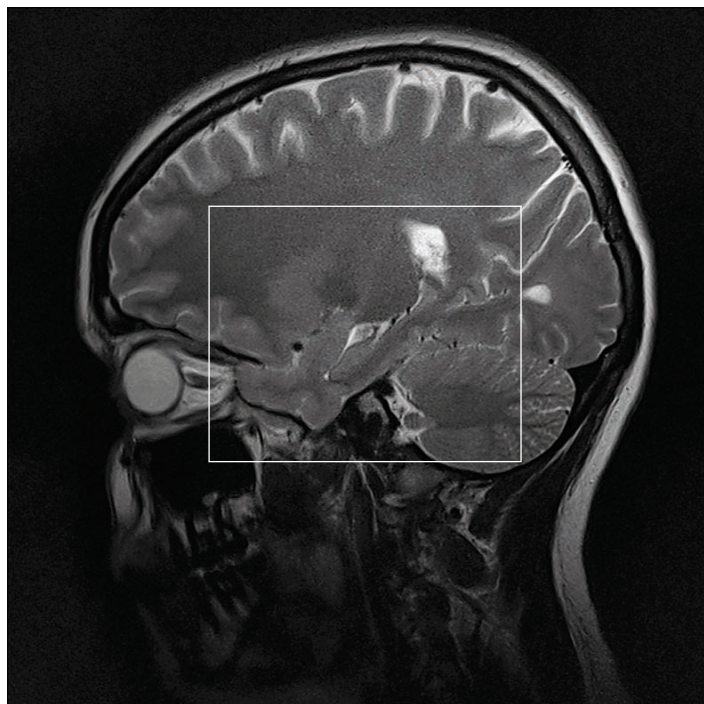
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|---------------------------------------|--|
| 9 Lateral ventricle (frontal horn) | 28 Transverse sinus |
| 10 Postcentral sulcus | 29 Maxillary sinus |
| 11 Basal nuclei | 30 Superior cerebellar lobe |
| 12 Precuneus | 31 Longus capitis muscle |
| 13 Cerebral peduncle | 32 Middle cerebral peduncle |
| 14 Cuneus | 33 Maxilla |
| 15 Orbital gyrus | 34 Inferior cerebellar lobe |
| 16 Occipital bone and lambdoid suture | 35 Atlas, lateral mass |
| 17 Inferior frontal gyrus | 36 Rectus capitis posterior minor muscle |
| 18 Thalamus | 37 Oropharynx |
| 19 Roof of orbit | 38 Occipital condyle |
| 20 Calcarine sulcus | 39 Tongue |
| 21 Superior rectus muscle | 40 Rectus capitis posterior major muscle |
| 22 Parahippocampal gyrus | 41 Middle constrictor muscle of pharynx |
| 23 Medial rectus muscle | 42 Obliquus capitis inferior muscle |
| 24 Medial occipitotemporal gyrus | 43 Spinal nerve root C4 |
| 25 Inferior rectus muscle | 44 Splenius capitis muscle |
| 26 Tentorium cerebelli | 45 Vertebral artery |
| 27 Sphenoidal sinus | 46 Trapezius muscle |



- Frontal lobe
- Temporal lobe
- Parietal lobe
- Occipital lobe
- Cerebellum
- Pons

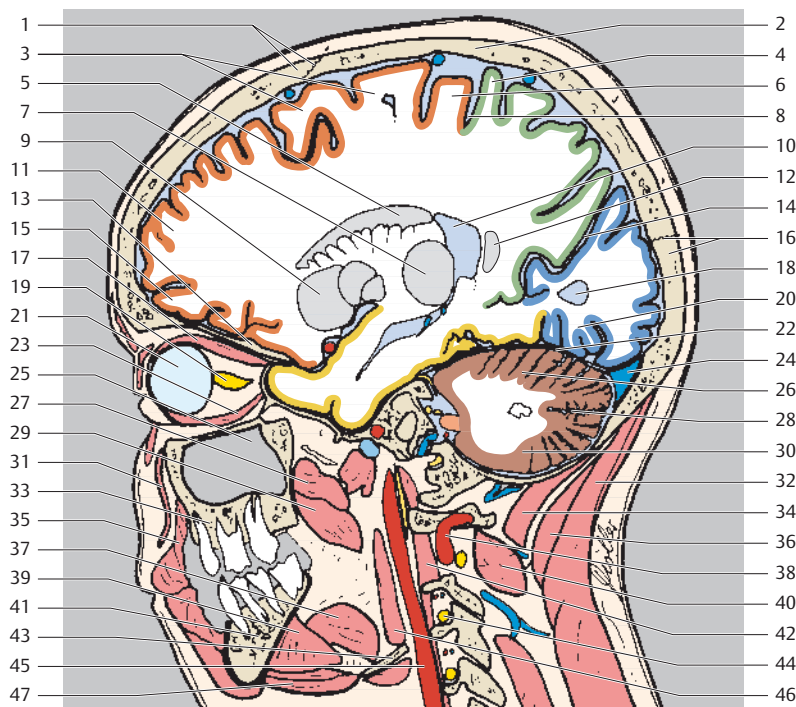


- | | |
|---|---|
| 1 Corpus striatum | 19 Orbital gyrus |
| 2 Corpus callosum (trunk) | 20 Lingual gyrus |
| 3 Lateral ventricle (frontal horn) | 21 Sphenoidal bone (lesser wing) |
| 4 Lateral ventricle | 22 Tentorium cerebelli |
| 5 Caudate nucleus (head) | 23 Optic nerve (II) |
| 6 Thalamus (ventral lateral complex) | 24 Hemisphere of cerebellum (anterior lobe) |
| 7 Globus pallidus | 25 Medial rectus muscle |
| 8 Choroid plexus | 26 Lateral geniculate body |
| 9 Anterior commissure | 27 Superior orbital fissure |
| 10 Thalamus (posterior lateral complex) | 28 Trochlear nerve (IV) |
| 11 Internal capsule | 29 Oculomotor nerve (III) |
| 12 Fornix (crus) | 30 Dentate nucleus |
| 13 Putamen | 31 Middle cerebellar peduncle |
| 14 Thalamus (pulvinar) | 32 Pons |
| 15 Posterior cerebral artery | 33 Lateral ventricle (temporal horn) |
| 16 Parahippocampal gyrus | 34 Pontocerebellar cistern |
| 17 Middle cerebral artery | 35 Trigeminal nerve (V) |
| 18 Medial geniculate body | 36 Internal carotid artery |



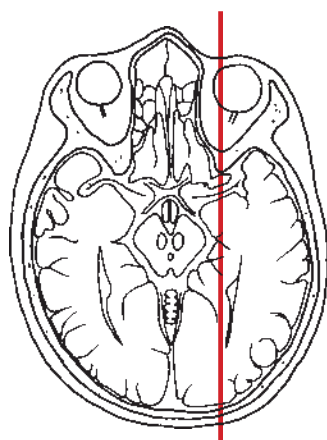
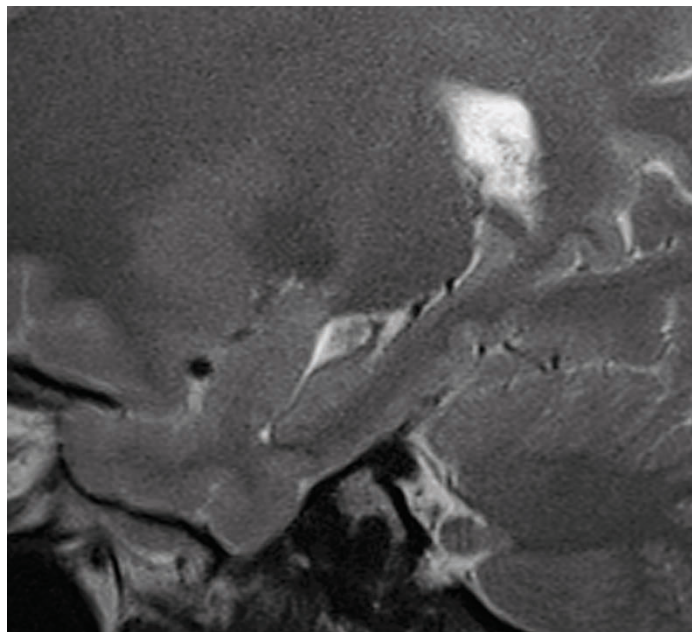
- Frontal lobe
- Temporal lobe
- Parietal lobe
- Occipital lobe
- Cerebellum

- 1 Frontal bone and coronal suture
- 2 Parietal bone
- 3 Superior frontal gyrus
- 4 Postcentral gyrus
- 5 Caudate nucleus (body)
- 6 Precentral gyrus
- 7 Thalamus
- 8 Central sulcus

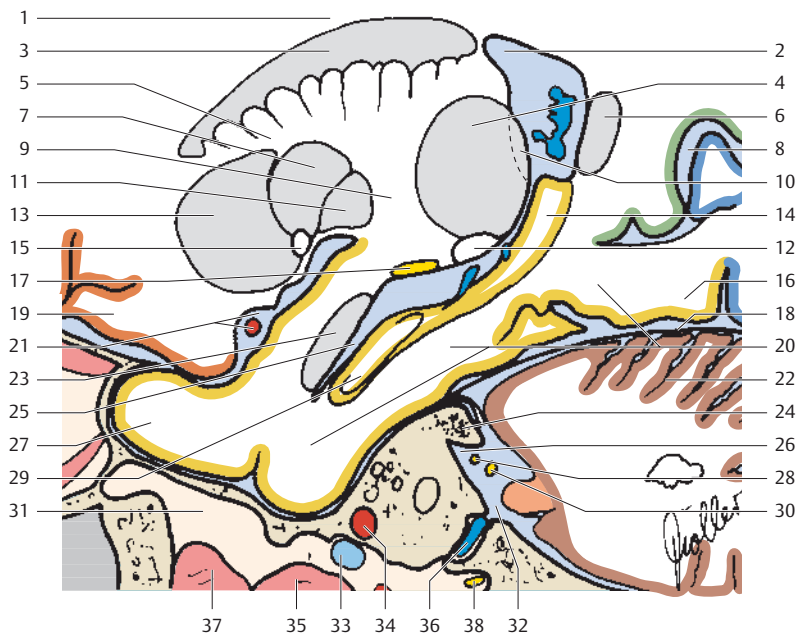


- 9 Basal nuclei
- 10 Lateral ventricle
- 11 Middle frontal gyrus
- 12 Corpus callosum (major forceps)
- 13 Roof of orbit
- 14 Parieto-occipital sulcus
- 15 Orbital gyrus
- 16 Occipital bone and lambdoid suture
- 17 Superior rectus muscle
- 18 Lateral ventricle (occipital horn)
- 19 Optic nerve (II)
- 20 Medial occipitotemporal gyrus
- 21 Eyeball
- 22 Tentorium cerebelli
- 23 Inferior rectus muscle
- 24 Transverse sinus
- 25 Maxillary sinus
- 26 Anterior lobe of cerebellum

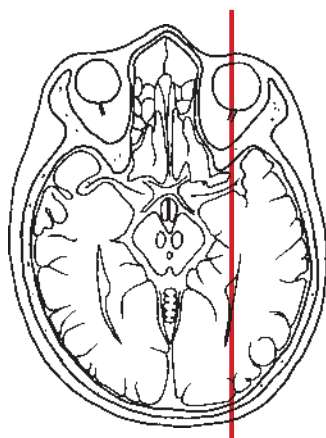
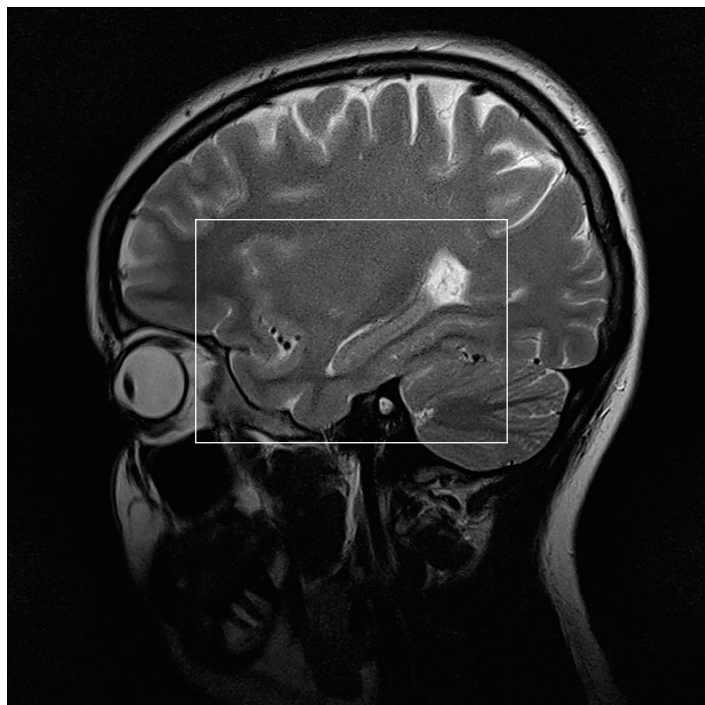
- 27 Levator veli palatini muscle
- 28 Horizontal fissure
- 29 Medial pterygoid muscle
- 30 Posterior lobe of cerebellum
- 31 Levator labii superioris muscle
- 32 Splenius capitis muscle
- 33 Maxilla
- 34 Rectus capitis posterior major muscle
- 35 Orbicularis oris muscle
- 36 Semispinalis capitis muscle
- 37 Hypoglossus muscle
- 38 Vertebral artery
- 39 Mylohyoid muscle
- 40 Obliquus capitis inferior muscle
- 41 Mandible
- 42 Longus capitis muscle
- 43 Hyoid bone
- 44 Spinal nerve root C3
- 45 Internal carotid artery
- 46 Middle constrictor muscle of pharynx
- 47 Digastric muscle



- Frontal lobe
- Temporal lobe
- Parietal lobe
- Occipital lobe
- Cerebellum

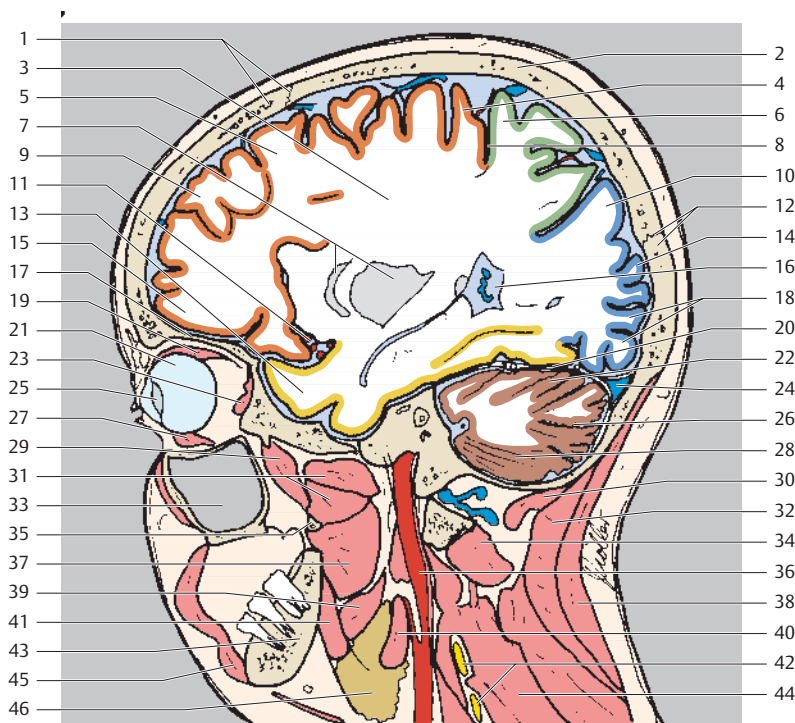


- | | |
|-------------------------------------|--|
| 1 Corpus callosum (trunk) | 21 Middle cerebral artery in cistern of lateral cerebral fossa |
| 2 Lateral ventricle (central part) | 22 Hemisphere of cerebellum (anterior lobe) |
| 3 Caudate nucleus (body) | 23 Amygdaloid nucleus |
| 4 Thalamus (pulvinar) | 24 Petrous pyramid |
| 5 Internal capsule (anterior limb) | 25 Lateral ventricle (temporal horn) |
| 6 Corpus callosum (major forceps) | 26 Internal acoustic meatus |
| 7 Globus pallidus (lateral segment) | 27 Temporal pole |
| 8 Parieto-occipital sulcus | 28 Facial nerve (VII) |
| 9 Internal capsule (posterior limb) | 29 Dentate gyrus |
| 10 Fornix (crus) | 30 Vestibulocochlear (acoustic) nerve (VIII) |
| 11 Globus pallidus (medial segment) | 31 Infratemporal fossa |
| 12 Lateral geniculate body | 32 Pontocerebellar cistern |
| 13 Putamen | 33 Pharyngotympanic tube (auditory tube) |
| 14 Subiculum of hippocampus | 34 Internal carotid artery (petrous part) |
| 15 Anterior commissure | 35 Elevator muscle of the soft palate |
| 16 Medial occipitotemporal gyrus | 36 Internal jugular vein in the jugular foramen |
| 17 Optic tract | 37 Medial pterygoid muscle |
| 18 Tentorium cerebelli | 38 Hypoglossal nerve (XII) in hypoglossal canal |
| 19 Orbital gyrus | |
| 20 Parahippocampal gyrus | |

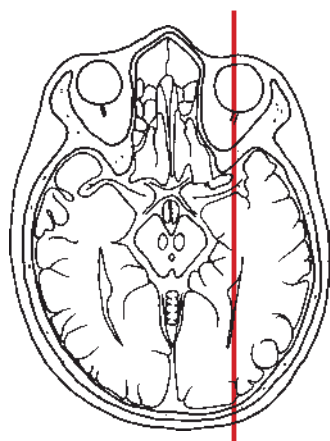
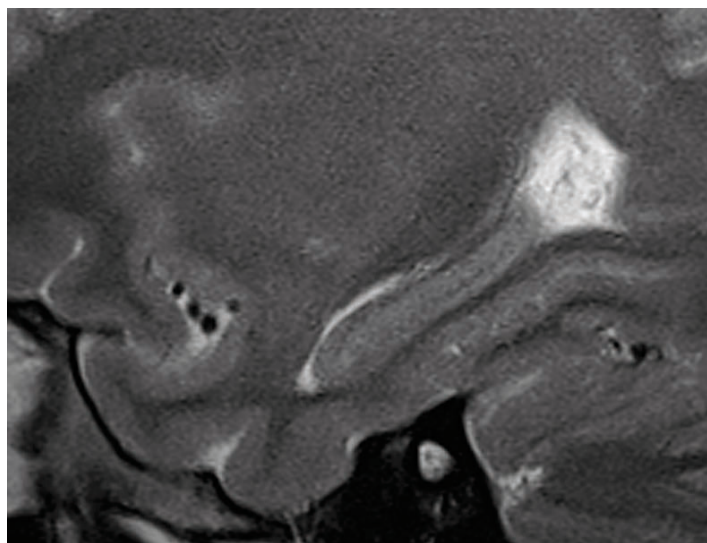


- Frontal lobe
- Temporal lobe
- Parietal lobe
- Occipital lobe
- Cerebellum

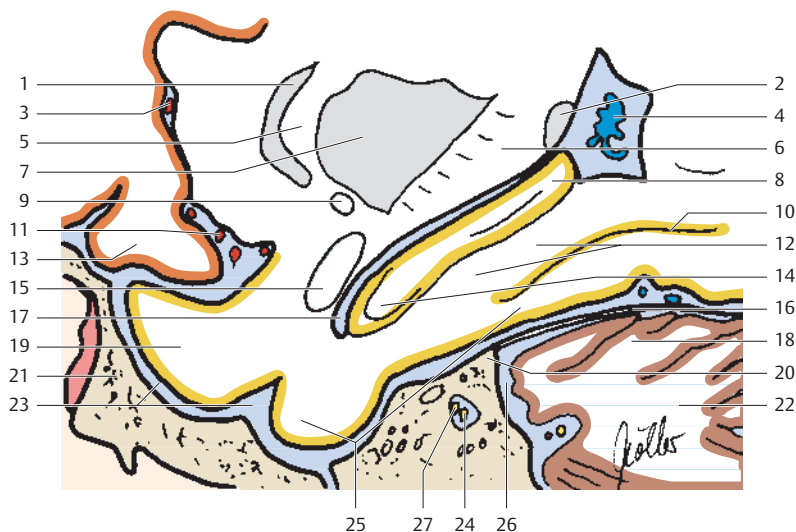
- 1 Frontal bone and coronal suture
- 2 Parietal bone
- 3 Cerebral white matter (semioval center)
- 4 Precentral gyrus
- 5 Superior frontal gyrus
- 6 Postcentral gyrus
- 7 Basal ganglia



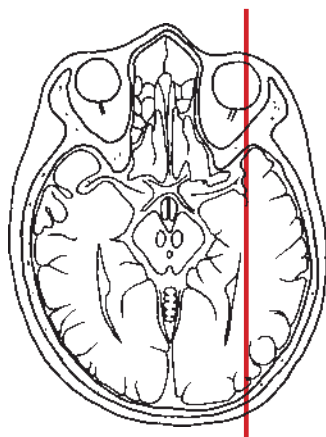
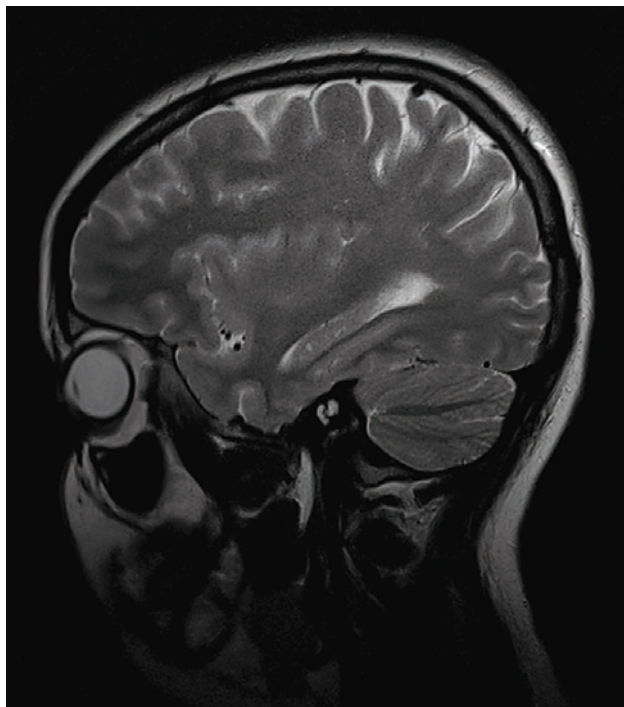
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|---------------------------------------|--|
| 8 Central sulcus | 27 Inferior rectus muscle |
| 9 Middle frontal gyrus | 28 Posterior lobe of cerebellum |
| 10 Precuneus | 29 Temporal muscle |
| 11 Insular arteries | 30 rectus capitis posterior major muscle |
| 12 Occipital bone and lambdoid suture | 31 Lateral pterygoid muscle |
| 13 Temporal pole | 32 Semispinalis capitis muscle |
| 14 Cuneus | 33 Maxillary sinus |
| 15 Orbital gyrus | 34 Obliquus capitis inferior muscle |
| 16 Lateral ventricle (occipital horn) | 35 Pterygoid process, lateral plate |
| 17 Roof of orbit | 36 Internal carotid artery |
| 18 Occipital gyri | 37 Medial pterygoid muscle |
| 19 Superior rectus muscle | 38 Trapezius muscle |
| 20 Tentorium cerebelli | 39 Styloglossus muscle |
| 21 Eyeball | 40 Digastric muscle |
| 22 Anterior lobe of cerebellum | 41 Mylohyoid muscle |
| 23 Lateral rectus muscle | 42 Spinal nerve roots (cervical plexus) |
| 24 Transverse sinus | 43 Mandible |
| 25 Lens | 44 Levator scapulae muscle |
| 26 Horizontal fissure | 45 Orbicularis oris muscle |
| | 46 Submandibular gland |



- Frontal lobe
- Temporal lobe
- Parietal lobe
- Occipital lobe
- Cerebellum

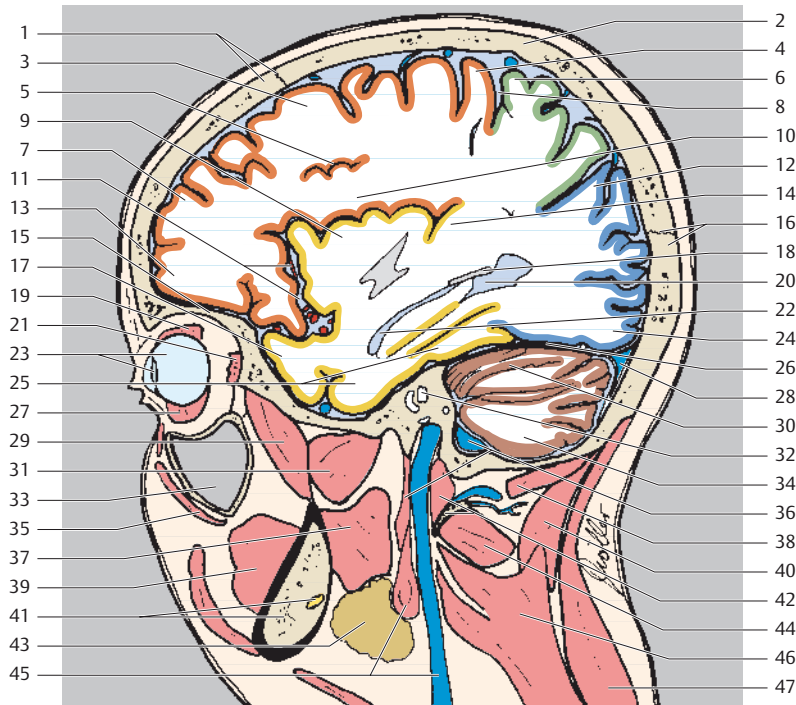


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|--|--|
| 1 Claustrum | 16 Tentorium cerebelli |
| 2 Caudate nucleus (tail) | 17 Lateral ventricle (temporal horn) |
| 3 Insular arteries | 18 Anterior lobe of cerebellum |
| 4 Lateral ventricle (central part) with choroid plexus | 19 Temporal lobe (temporal pole) |
| 5 External capsule | 20 Petrous part of temporal bone (superior margin) |
| 6 Internal capsule | 21 Sphenoidal bone (greater wing) |
| 7 Putamen | 22 Cerebellum (cerebellar white matter) |
| 8 Subiculum of hippocampus | 23 Middle cranial fossa |
| 9 Anterior commissure | 24 Vestibulocochlear (acoustic) nerve (VIII) in Internal auditory meatus |
| 10 Collateral sulcus | 25 Medial occipitotemporal gyrus |
| 11 Middle cerebral artery | 26 Pontocerebellar cistern |
| 12 Parahippocampal gyrus | 27 Facial nerve (VII) in Internal auditory meatus |
| 13 Orbital gyrus | |
| 14 Dentate gyrus | |
| 15 Amygdaloid nucleus | |

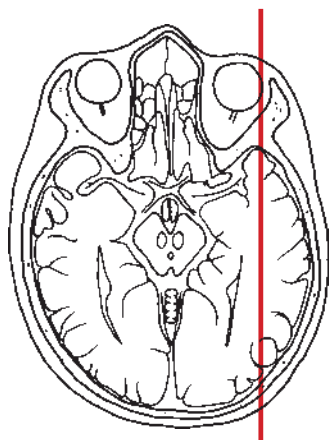
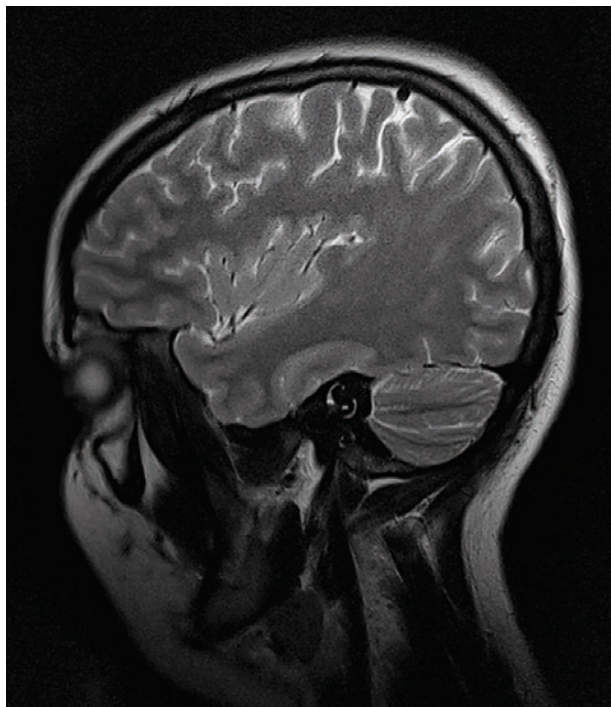


- Frontal lobe
- Temporal lobe
- Parietal lobe
- Occipital lobe
- Cerebellum

- 1 Frontal bone and coronal suture
- 2 Parietal bone
- 3 Middle frontal gyrus
- 4 Precentral gyrus
- 5 Inferior frontal sulcus
- 6 Postcentral gyrus
- 7 Inferior frontal gyrus
- 8 Central sulcus
- 9 Insular gyri
- 10 Frontal operculum
- 11 Cistern of lateral cerebral fossa (insular cistern) and insular arteries

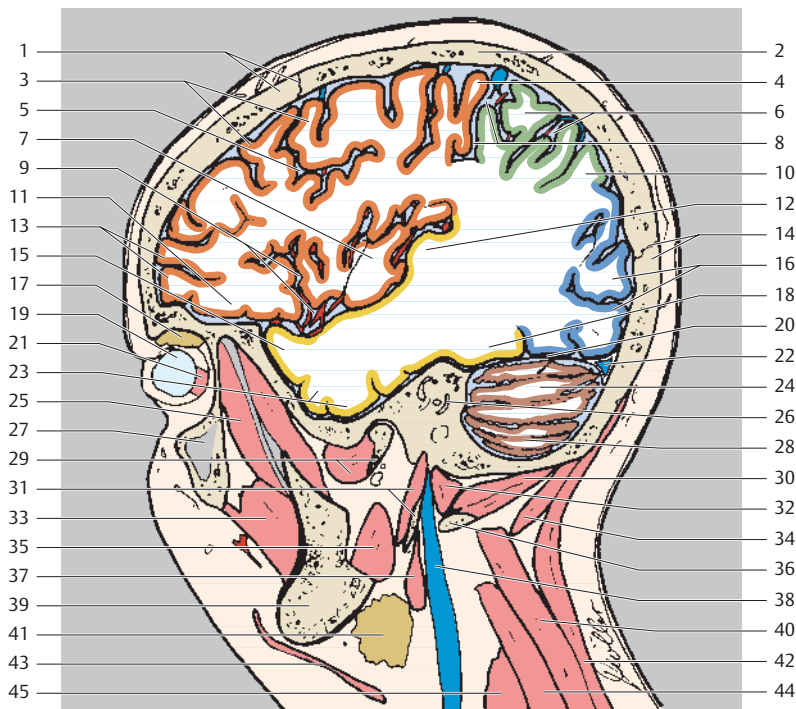


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|--|---|
| 12 Precuneus | 30 Anterior lobe of cerebellum |
| 13 Orbital gyrus | 31 Lateral pterygoid muscle |
| 14 Transverse temporal gyrus | 32 Internal acoustic meatus |
| 15 Roof of orbit | 33 Maxillary sinus |
| 16 Occipital bone and lambdoid suture | 34 Posterior lobe of cerebellum |
| 17 Temporal pole | 35 Orbicularis oculi muscle |
| 18 Caudate nucleus (tail) | 36 Sigmoid sinus and stylopharyngeus muscle |
| 19 Levator palpebrae superioris muscle | 37 Medial pterygoid muscle |
| 20 Lateral ventricle (occipital horn) | 38 Rectus capitis posterior major muscle |
| 21 Lateral rectus muscle | 39 Buccinator muscle |
| 22 Lateral ventricle (temporal horn) | 40 Semispinalis capitis muscle |
| 23 Eyeball and lens | 41 Mandible and mandibular canal (inferior alveolar nerve) |
| 24 Occipital gyri | 42 Atlas (transverse process) and rectus capitis lateralis muscle |
| 25 Medial occipitotemporal gyrus | 43 Submandibular gland |
| 26 Tentorium cerebelli | 44 Obliquus capitis inferior muscle |
| 27 Inferior oblique muscle | 45 Internal jugular vein and digastric muscle |
| 28 Transverse sinus | 46 Levator scapulae muscle |
| 29 Temporal muscle | 47 Splenius capitis muscle |

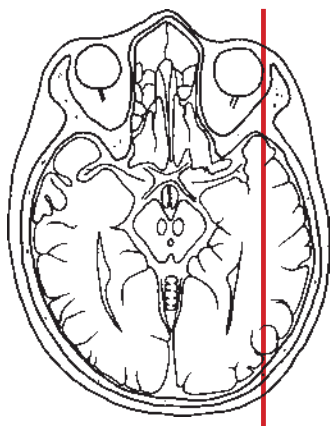
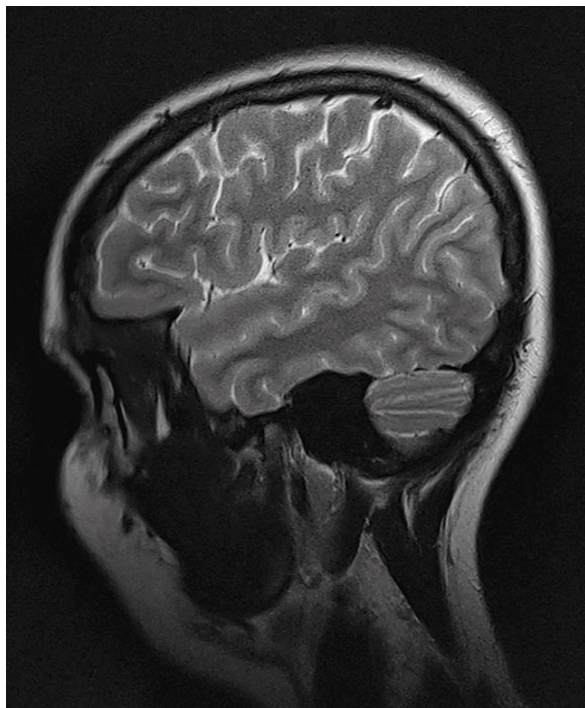


- Frontal lobe
- Temporal lobe
- Parietal lobe
- Occipital lobe
- Cerebellum

- 1 Frontal bone and coronal suture
- 2 Parietal bone
- 3 Middle frontal gyrus
- 4 Precentral gyrus
- 5 Inferior frontal sulcus
- 6 Postcentral gyrus and postcentral sulcus
- 7 Insular gyri
- 8 Central sulcus

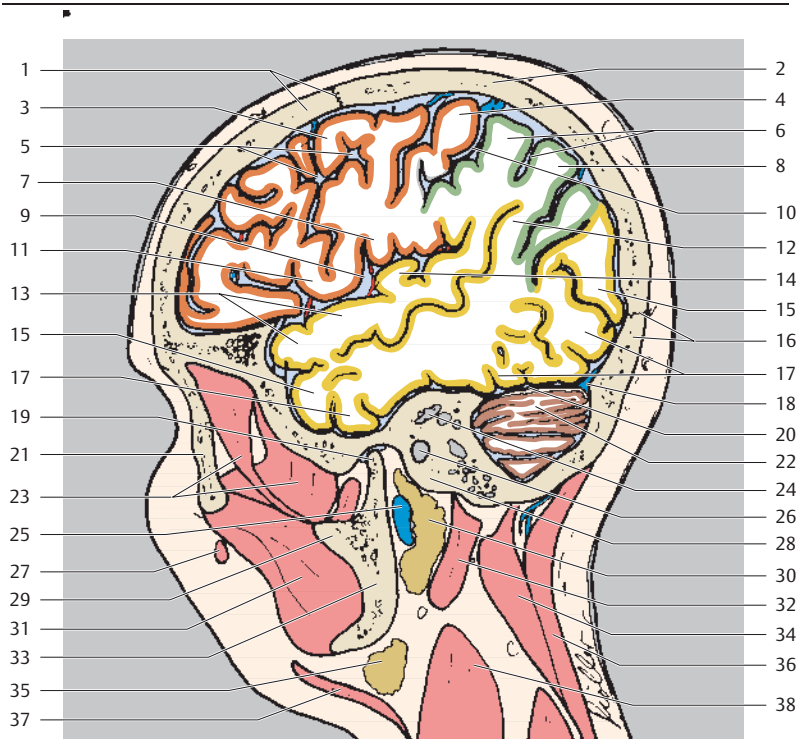


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|--|--|
| 9 Cistern of lateral cerebral fossa (insular cistern) and insular arteries | 26 Posterior semicircular canal |
| 10 Angular gyrus | 27 Maxillary sinus |
| 11 Orbital gyrus | 28 Posterior lobe of cerebellum |
| 12 Transverse temporal gyrus | 29 Lateral pterygoid muscle and head of mandible |
| 13 Inferior frontal gyrus | 30 Obliquus capitis superior muscle |
| 14 Occipital bone and lambdoid suture | 31 Styloid muscle and styloid process |
| 15 Superior temporal gyrus | 32 Rectus capitis lateralis muscle |
| 16 Occipital gyri | 33 Buccinator muscle |
| 17 Lacrimal gland | 34 Semispinalis capitis muscle |
| 18 Inferior temporal gyrus | 35 Medial pterygoid muscle |
| 19 Eyeball | 36 Atlas, transverse process |
| 20 Tentorium cerebelli | 37 Digastric muscle, posterior belly |
| 21 Lateral rectus muscle | 38 Internal jugular vein |
| 22 Transverse sinus | 39 Mandible |
| 23 Temporal pole and middle temporal gyrus | 40 Levator scapulae muscle |
| 24 Anterior lobe of cerebellum | 41 Submandibular gland |
| 25 Temporal muscle | 42 Splenius capitis muscle |
| | 43 Platysma |
| | 44 Splenius cervicis muscle |
| | 45 Scalenus posterior muscle |

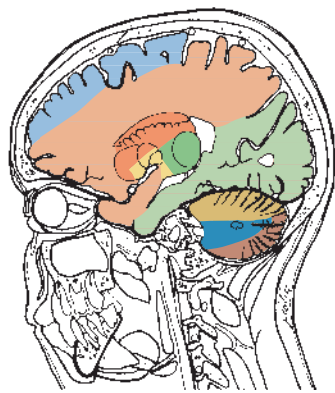
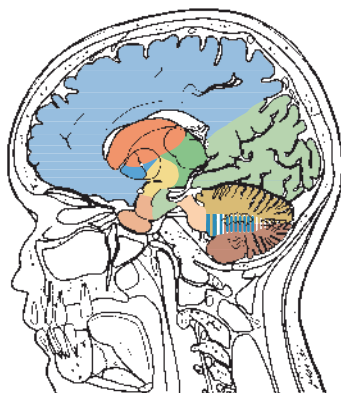
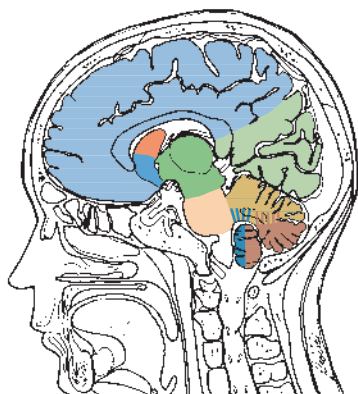
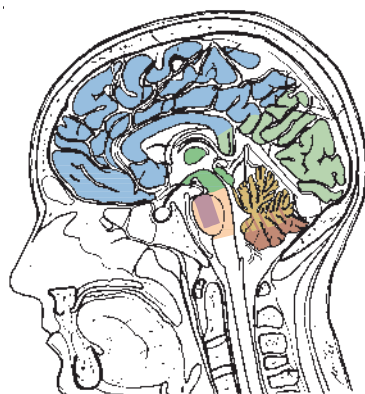


- Frontal lobe
- Temporal lobe
- Parietal lobe
- Cerebellum

- 1 Frontal bone and coronal suture
- 2 Parietal bone
- 3 Middle frontal gyrus
- 4 Precentral gyrus
- 5 Inferior frontal sulcus
- 6 Postcentral gyrus and postcentral sulcus



- | | |
|---|--------------------------------------|
| 7 Inferior frontal gyrus, insular cortex | 22 Posterior lobe of cerebellum |
| 8 Supramarginal gyrus | 23 Temporal muscle |
| 9 Lateral sulcus | 24 Mastoid antrum |
| 10 Central sulcus | 25 Retromandibular vein |
| 11 Inferior frontal gyrus, opercular part | 26 External acoustic meatus |
| 12 Angular gyrus | 27 Zygomatic muscle |
| 13 Superior temporal gyrus | 28 Mastoid process |
| 14 Transverse temporal gyrus | 29 Coronoid process |
| 15 Middle temporal gyrus | 30 Parotid gland |
| 16 Occipital bone and lambdoid suture | 31 Masseter muscle |
| 17 Inferior temporal gyrus | 32 Digastric muscle, posterior belly |
| 18 Transverse sinus | 33 Mandible (ramus) |
| 19 Head of mandible | 34 Semispinalis capitis muscle |
| 20 Tentorium cerebelli | 35 Submandibular gland |
| 21 Zygomatic bone | 36 Splenius capitis muscle |
| | 37 Platysma |
| | 38 Sternocleidomastoid muscle |



Anterior cerebral artery

- Terminal branches
- Central branches (striate arteries including distal medial striate artery)

Middle cerebral artery

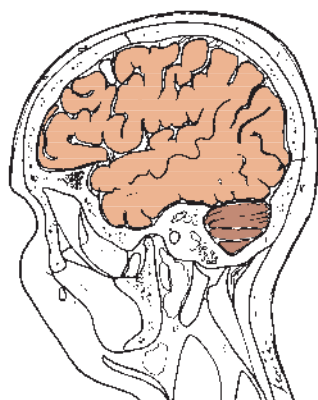
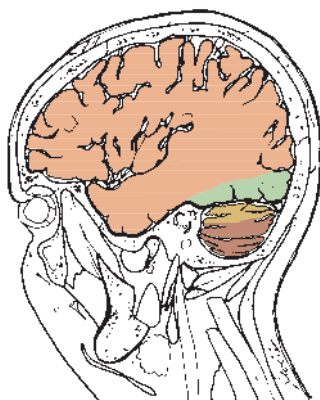
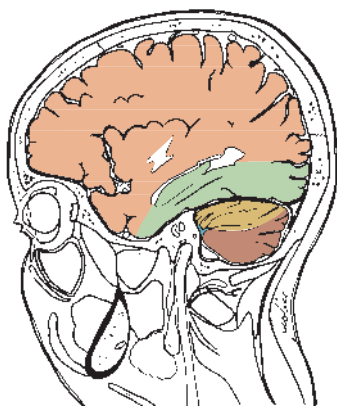
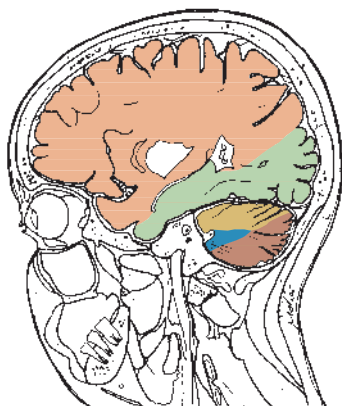
- Terminal branches
- Central branches (striate branches)

Posterior cerebral artery

- Terminal branches
- Central branches (including the posterior communicating artery)

Basilar artery

- Anteromedial and anterolateral paramedian branches
- Circumferential arteries and lateral and dorsal paramedian branches
- Superior cerebellar artery
- Anterior superior cerebellar artery
- Boundary region
- Posterior inferior cerebellar artery



Middle cerebral artery

- Terminal branches
- Central branches (striate branches)

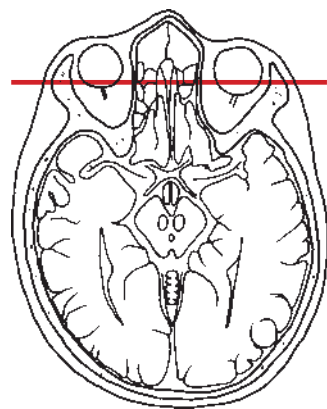
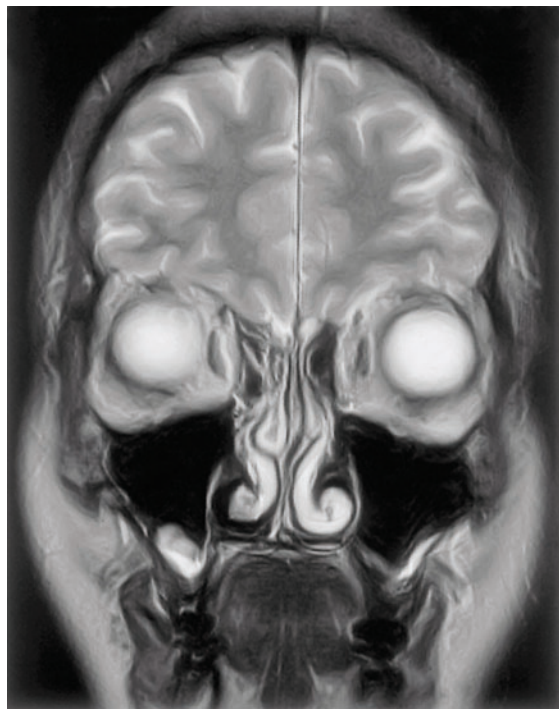
Posterior cerebral artery

- Terminal branches

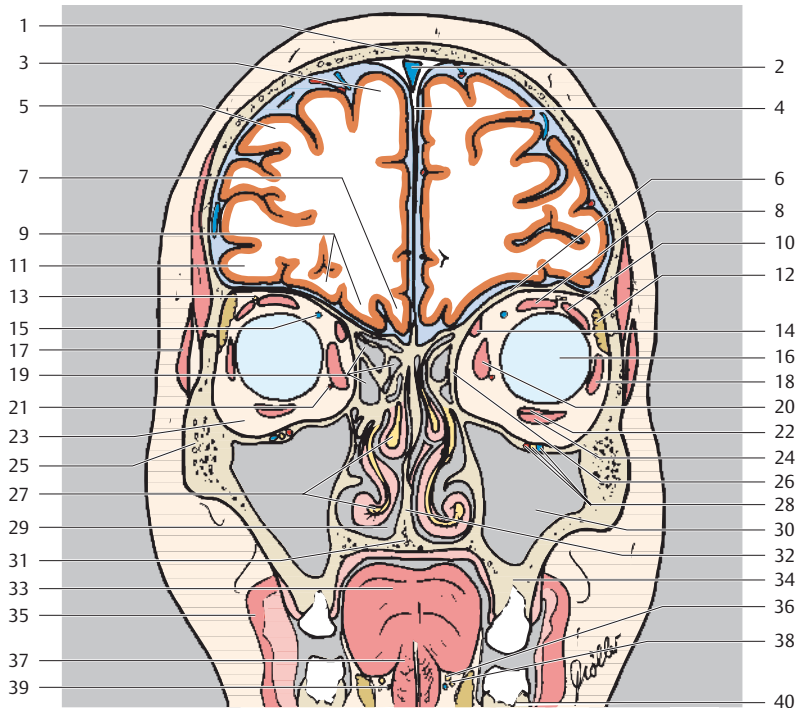
Anterior choroidal artery

Superior cerebellar artery

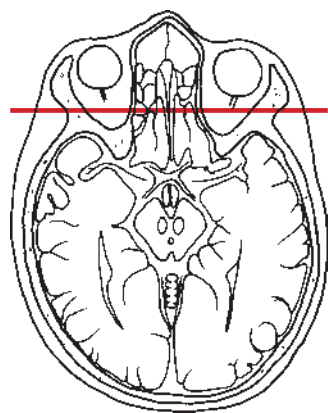
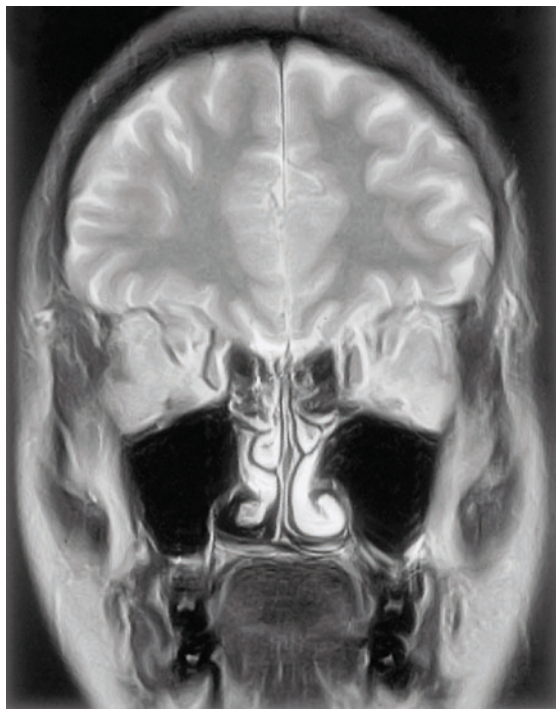
- Anterior superior cerebellar artery
- Posterior inferior cerebellar artery



Frontal lobe

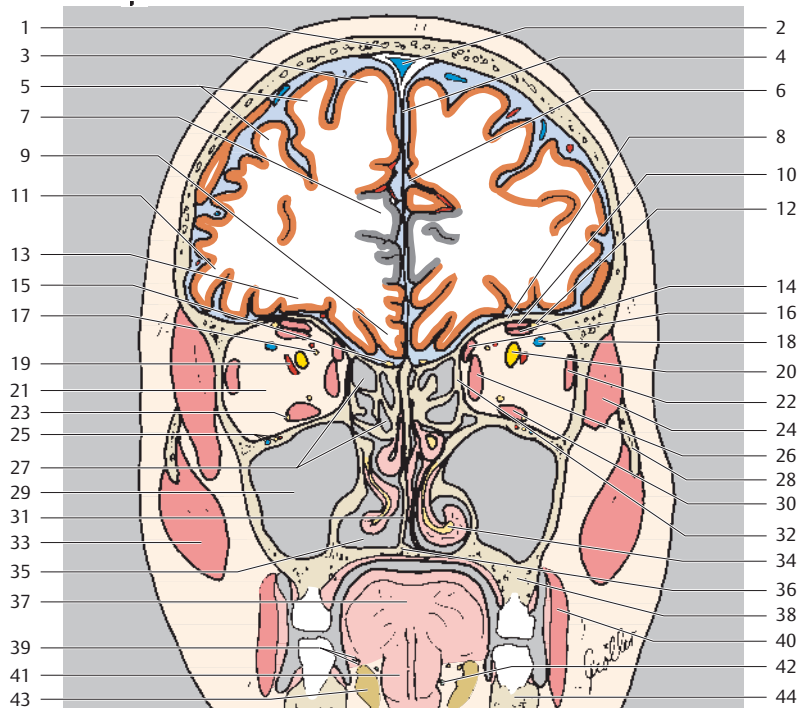


- | | |
|---------------------------------------|---|
| 1 Frontal bone | 21 Ophthalmic artery |
| 2 Superior sagittal sinus | 22 Inferior rectus muscle |
| 3 Superior frontal gyrus | 23 Orbit (retrobulbar fat) |
| 4 Falx cerebri | 24 Inferior oblique muscle |
| 5 Middle frontal gyrus | 25 Zygomatic bone |
| 6 Roof of orbit | 26 Orbital plate |
| 7 Straight gyrus | 27 Middle and inferior nasal conchas |
| 8 Levator palpebrae superioris muscle | 28 Infraorbital artery, vein, and nerve |
| 9 Orbital gyri | 29 Nasal sinus |
| 10 Superior rectus muscle | 30 Maxillary sinus |
| 11 Inferior frontal gyrus | 31 Hard palate |
| 12 Lacrimal gland | 32 Nasal septum |
| 13 Supraorbital nerve | 33 Tongue |
| 14 Superior oblique muscle | 34 Maxilla (alveolar process) |
| 15 Superior ophthalmic vein | 35 Depressor anguli oris muscle |
| 16 Eyeball | 36 Lingual nerve |
| 17 Orbicularis oculi muscle | 37 Genioglossus muscle |
| 18 Lateral rectus muscle | 38 Hypoglossal nerve (XII) |
| 19 Ethmoidal cells | 39 Submandibular duct |
| 20 Medial rectus muscle | 40 Body of mandible |

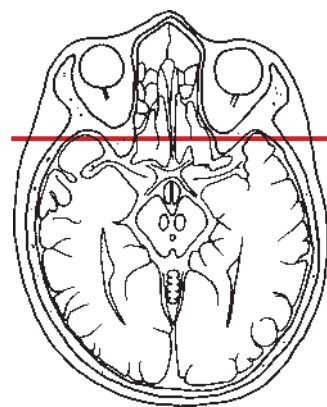
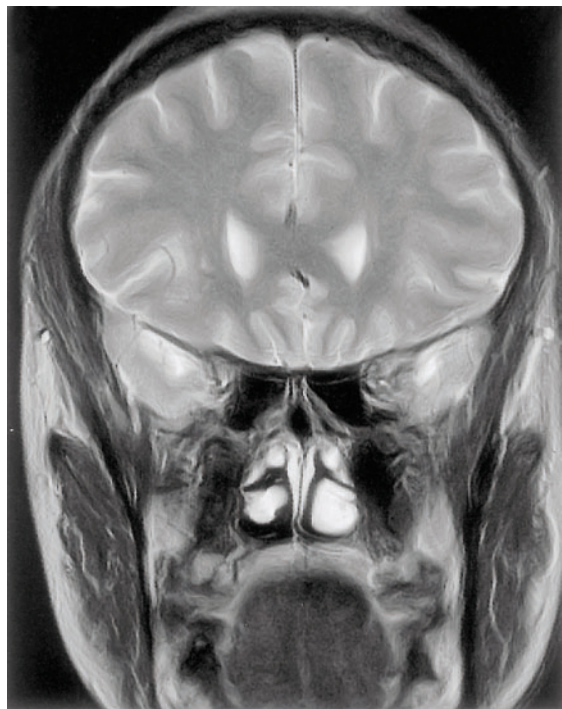


Frontal lobe

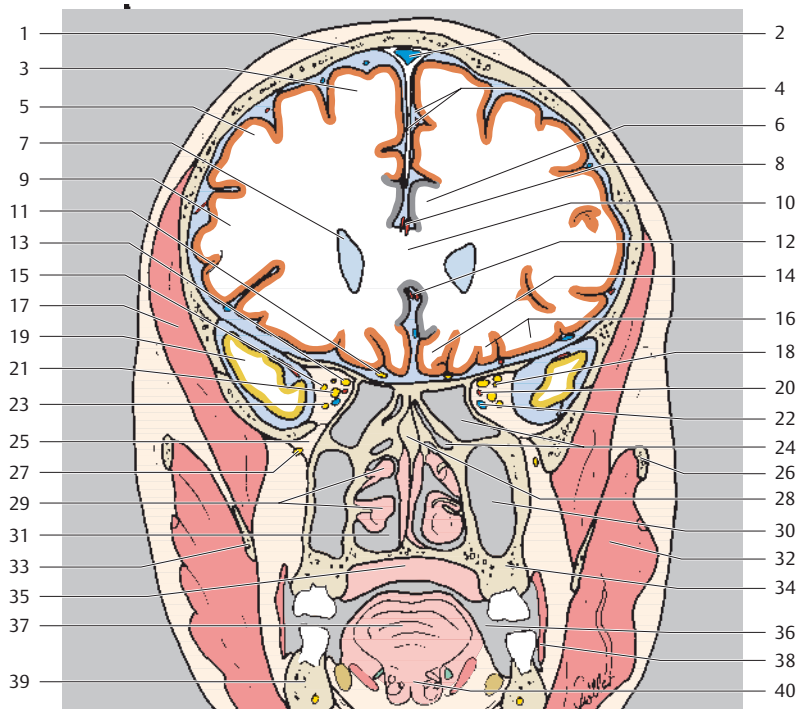
- 1 Frontal bone
- 2 Superior sagittal sinus
- 3 Superior frontal gyrus
- 4 Falx cerebri
- 5 Middle frontal gyrus
- 6 Longitudinal cerebral
- 7 Cingulate gyrus



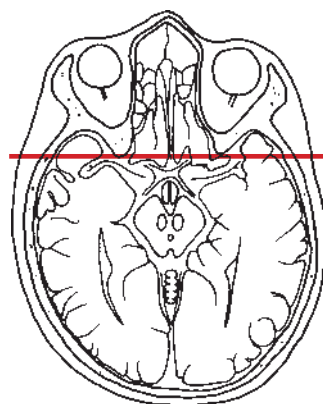
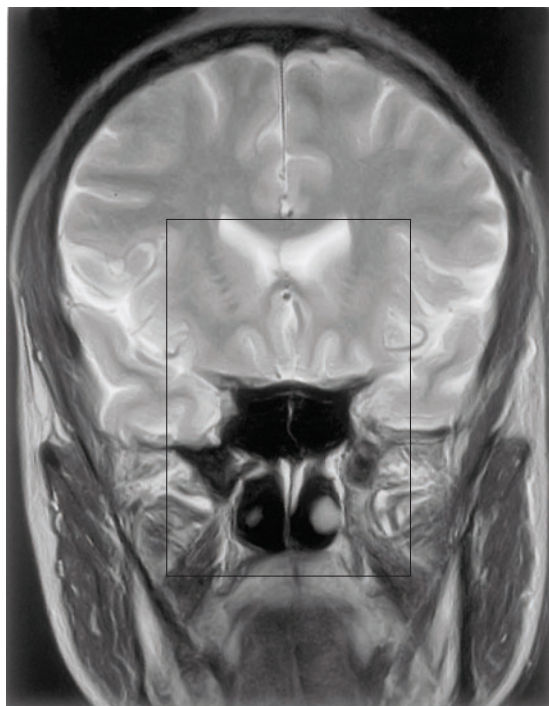
- | | |
|--|--|
| 8 Roof of orbit | 26 Medial rectus muscle |
| 9 Straight gyrus | 27 Ethmoidal cells |
| 10 Levator palpebrae superioris muscle | 28 Zygomatic bone |
| 11 Inferior frontal gyrus | 29 Maxillary sinus |
| 12 Supraorbital nerve | 30 Inferior rectus muscle |
| 13 Orbital gyri | 31 Nasal septum |
| 14 Superior rectus muscle | 32 Orbital plate |
| 15 Olfactory bulb | 33 Masseter muscle |
| 16 Superior oblique muscle | 34 Inferior nasal concha |
| 17 Nasociliary nerve | 35 Nasal cavity |
| 18 Superior ophthalmic vein | 36 Hard palate |
| 19 Ophthalmic artery | 37 Tongue |
| 20 Optic nerve (II) | 38 Maxilla (alveolar process) |
| 21 Orbit (retrobulbar fat) | 39 Lingual nerve and hypoglossal nerve (XII) |
| 22 Lateral rectus muscle | 40 Depressor anguli oris muscle |
| 23 Oculomotor nerve (III), inferior part | 41 Genioglossus muscle |
| 24 Temporal muscle | 42 Submandibular duct |
| 25 Infraorbital nerve, artery, and vein | 43 Submandibular gland |
| | 44 Body of mandible |



- Frontal lobe
- Temporal lobe

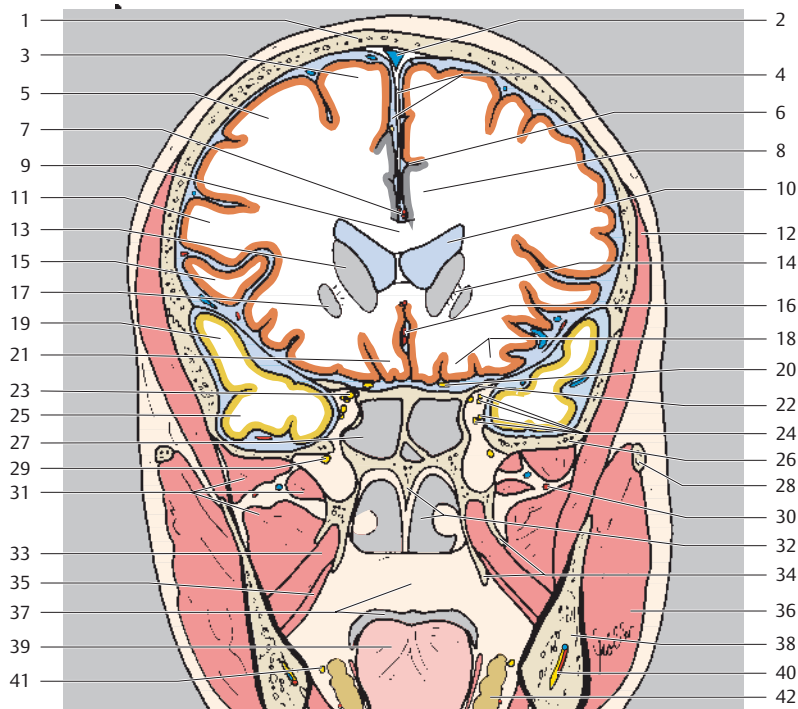


- | | |
|--|--|
| 1 Frontal bone | 21 Ophthalmic nerve (first division of trigeminal nerve) |
| 2 Superior sagittal sinus | 22 Superior ophthalmic vein |
| 3 Superior frontal gyrus | 23 Abducent nerve (VI) |
| 4 Falx cerebri in interhemispheric fissure | 24 Ethmoidal cells |
| 5 Middle frontal gyrus | 25 Pterygopalatine fossa |
| 6 Cingulate gyrus | 26 Zygomatic arch |
| 7 Lateral ventricle (frontal horn) | 27 Maxillary nerve (second division of trigeminal nerve) |
| 8 Pericallosal artery | 28 Nasal septum |
| 9 Inferior frontal gyrus | 29 Middle and inferior nasal conchas |
| 10 Corpus callosum (genu) | 30 Maxillary sinus |
| 11 Olfactory tract | 31 Nasal sinus |
| 12 Anterior cerebral artery | 32 Masseter muscle |
| 13 Optic nerve (II) | 33 Ramus of mandible |
| 14 Straight gyrus | 34 Maxilla (alveolar process) |
| 15 Oculomotor nerve (III) | 35 Soft palate |
| 16 Orbital gyri | 36 Oral cavity |
| 17 Temporal muscle | 37 Tongue |
| 18 Trochlear nerve (IV) | 38 Buccinator muscle |
| 19 Temporal lobe (temporal pole) | 39 Body of mandible |
| 20 Ophthalmic artery | 40 Genioglossus muscle |

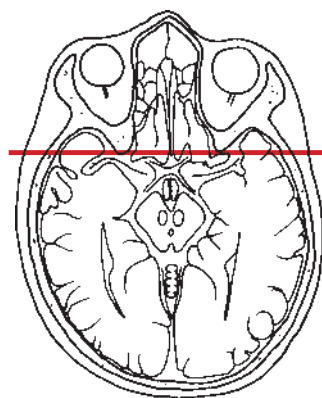
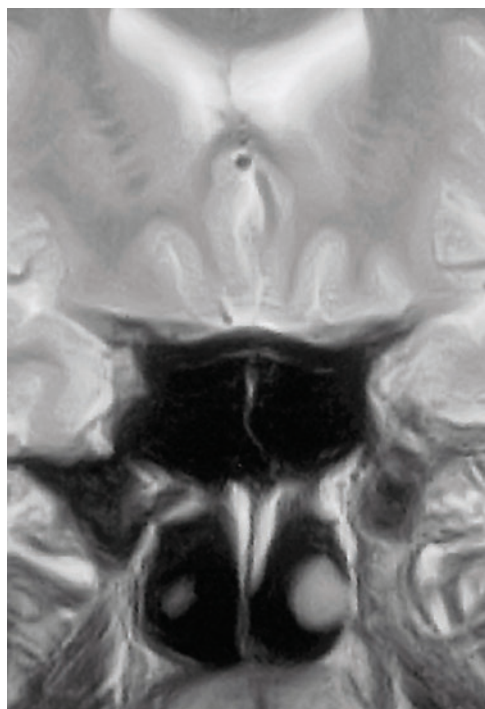


- Frontal lobe
- Temporal lobe

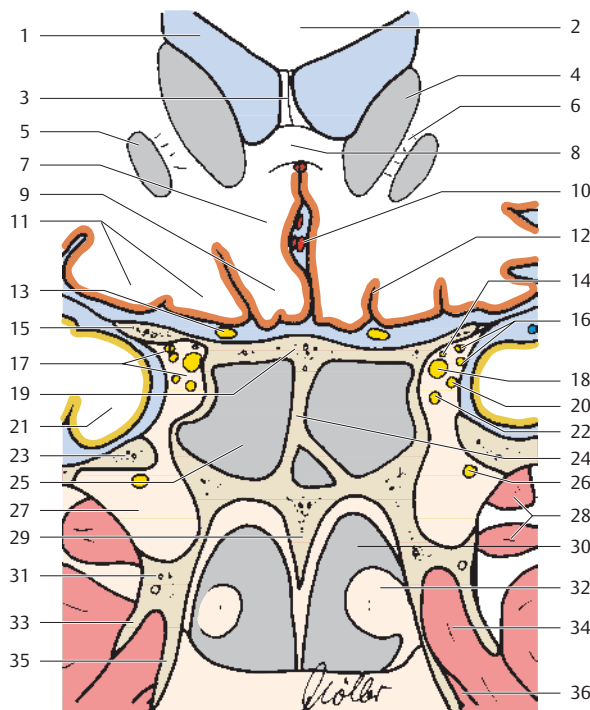
- 1 Frontal bone
- 2 Superior sagittal sinus
- 3 Superior frontal gyrus
- 4 Falx cerebri in Longitudinal cerebral
- 5 Middle frontal gyrus
- 6 Cingulate sulcus
- 7 Pericallosal artery



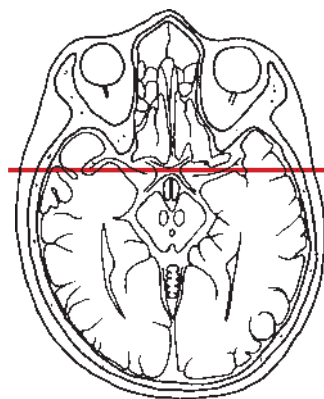
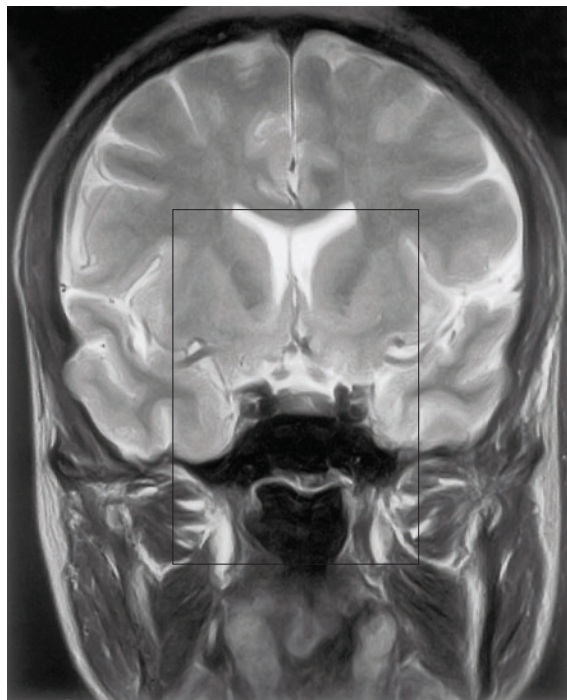
- | | |
|--|--|
| 8 Cingulate gyrus | 26 Temporal bone |
| 9 Corpus callosum (trunk) | 27 Sphenoidal sinus |
| 10 Lateral ventricle (frontal horn) | 28 Zygomatic arch |
| 11 Inferior frontal gyrus | 29 Maxillary nerve in pterygopalatine fossa |
| 12 Temporal muscle | 30 Maxillary artery |
| 13 Head of caudate nucleus | 31 Lateral pterygoid muscle in infra-temporal fossa |
| 14 Internal capsule (anterior limb) | 32 Nasal septum and sinus |
| 15 Frontal operculum | 33 Medial pterygoid muscle |
| 16 Anterior cerebral artery | 34 Pterygoid process (medial and lateral plates) |
| 17 Putamen | 35 Tensor veli palatini muscle |
| 18 Orbital gyri | 36 Masseter muscle |
| 19 Superior temporal gyrus | 37 Soft palate and oral cavity |
| 20 Olfactory tract | 38 Ramus of mandible |
| 21 Straight gyrus | 39 Tongue |
| 22 Sphenoidal bone (lesser wing) | 40 Inferior alveolar artery, vein, and nerve in mandibular canal |
| 23 Optic nerve (II) | 41 Lingual nerve |
| 24 Trochlear (IV), oculomotor (III), ophthalmic (first division of trigeminal), and abducent (VI) nerves | 42 Submandibular gland |
| 25 Middle temporal gyrus | |



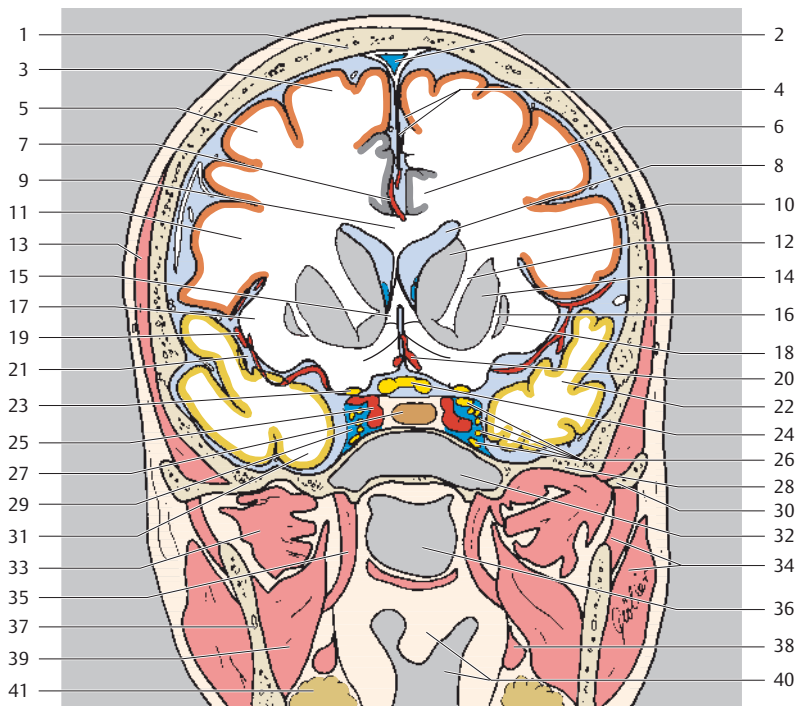
-  Frontal lobe
-  Temporal lobe



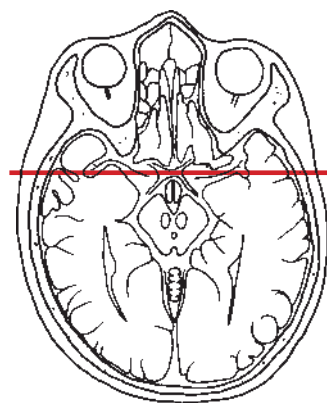
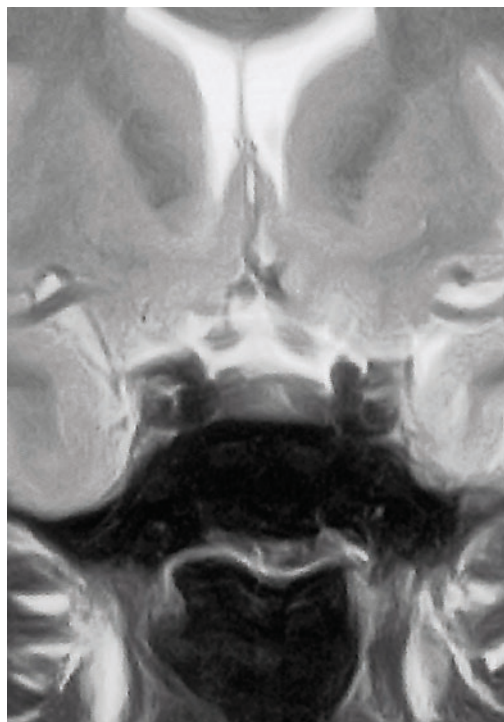
- | | |
|---|---|
| 1 Lateral ventricle (frontal horn) | 18 Optic nerve (II) |
| 2 Corpus callosum (trunk) | 19 Sphenoid plane |
| 3 Septum pellucidum | 20 Abducent nerve (VI) |
| 4 Head of caudate nucleus | 21 Temporal pole |
| 5 Putamen | 22 Oculomotor nerve (III), inferior branch |
| 6 Internal capsule (anterior limb) | 23 Sphenoidal bone, lesser wing |
| 7 Subcallosal gyrus | 24 Septum of sphenoidal sinus |
| 8 Corpus callosum (genu) | 25 Sphenoidal sinus |
| 9 Straight gyrus | 26 Maxillary nerve in pterygopalatine fossa |
| 10 Pericallosal artery | 27 Pterygopalatine fossa |
| 11 Orbital gyri | 28 Lateral pterygoid muscle |
| 12 Olfactory sulcus | 29 Vomer |
| 13 Olfactory tract | 30 Nasal sinus |
| 14 Oculomotor nerve (III, superior branch) | 31 Pterygoid process (sphenoidal bone) |
| 15 Anterior clinoid process (sphenoidal bone, lesser wing) | 32 Middle nasal concha |
| 16 Ophthalmic nerve (frontal, lacrimal, and nasociliary nerves) = superior branch of trigeminal nerve (V) | 33 Pterygoid process (lateral plate) |
| 17 Superior orbital fissure | 34 Medial pterygoid muscle |
| | 35 Pterygoid process (medial plate) |
| | 36 Tensor veli palatini muscle |



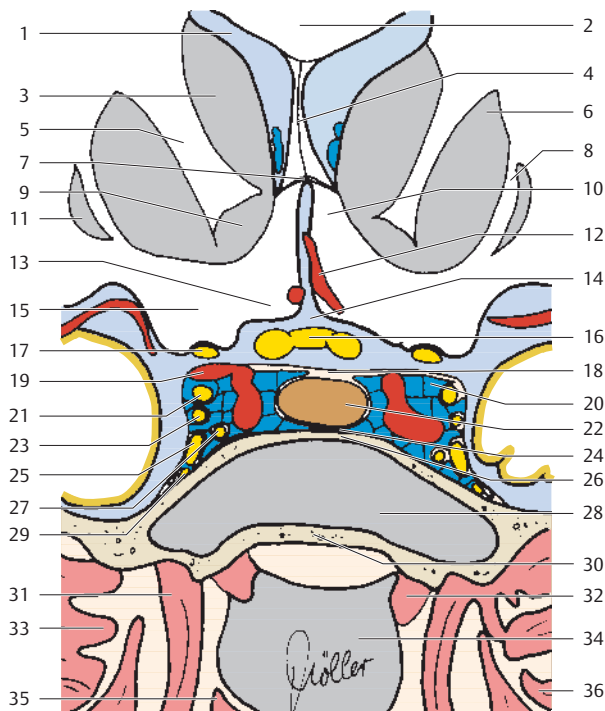
-  Frontal lobe
-  Temporal lobe



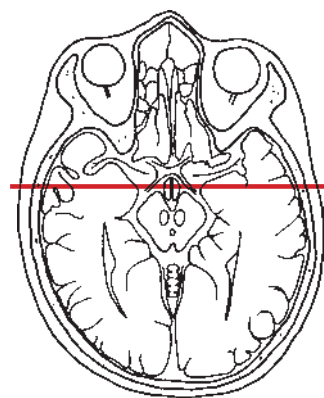
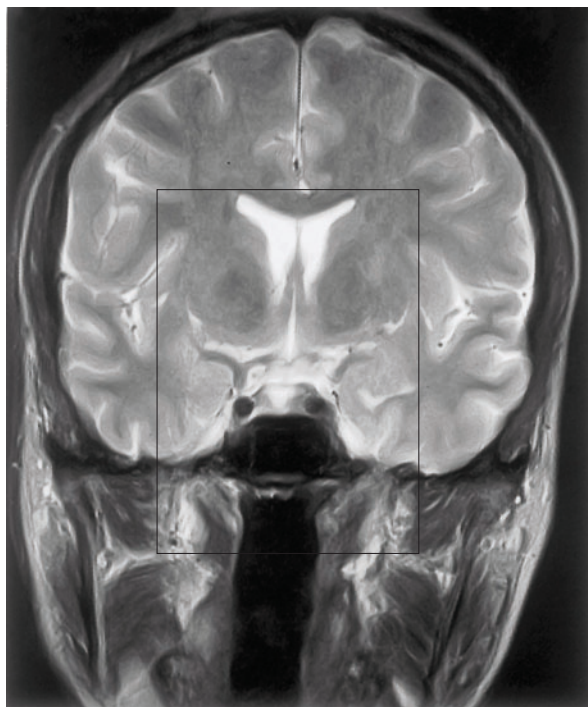
- | | |
|--|---|
| 1 Frontal bone | 22 Superior temporal gyrus |
| 2 Superior sagittal sinus | 23 Olfactory tract |
| 3 Superior frontal gyrus | 24 Optic chiasm |
| 4 Falx cerebri in
Longitudinal cerebral | 25 Internal carotid artery (syphon) |
| 5 Middle frontal gyrus | 26 Trochlear (IV), oculomotor (III),
ophthalmic, and abducent (V) nerves |
| 6 Cingulate gyrus | 27 Pituitary gland |
| 7 Pericallosal artery | 28 Temporal bone |
| 8 Lateral ventricle (frontal horn) | 29 Cavernous sinus |
| 9 Corpus callosum (genu) | 30 Zygomatic bone |
| 10 Head of caudate nucleus | 31 Middle temporal gyrus |
| 11 Inferior frontal gyrus | 32 Sphenoidal sinus |
| 12 Internal capsule (anterior limb) | 33 Lateral pterygoid muscle |
| 13 Temporal muscle | 34 Masseter muscle |
| 14 Putamen | 35 Tensor veli palatini muscle |
| 15 Subcallosal gyrus | 36 Nasopharynx |
| 16 External capsule | 37 Ramus of mandible |
| 17 Insula | 38 Styloglossus muscle |
| 18 Claustrum | 39 Medial pterygoid muscle |
| 19 Insular arteries | 40 Uvula and oropharynx |
| 20 Anterior cerebral artery | 41 Submandibular gland |
| 21 Lateral sulcus | |



Temporal lobe

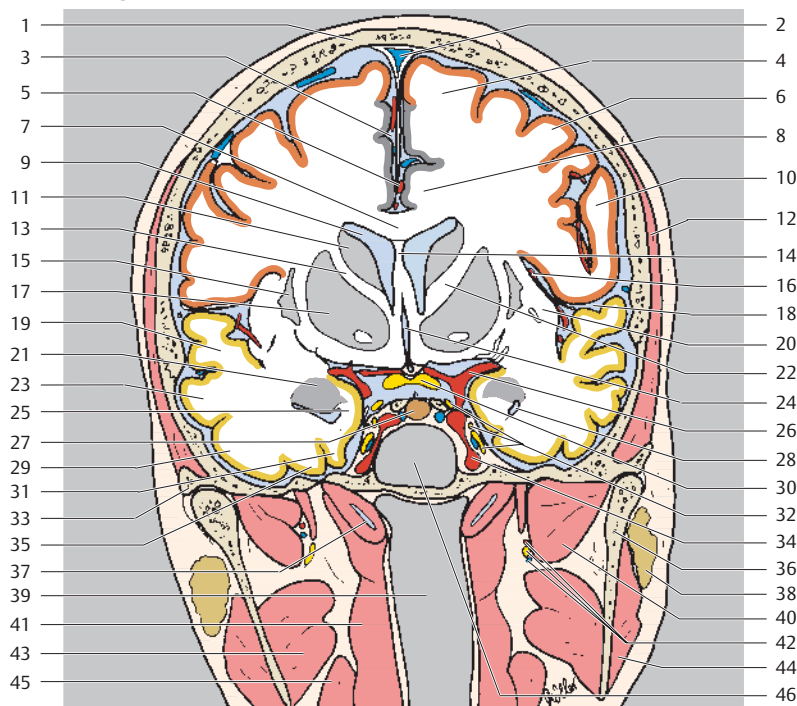


- | | |
|-------------------------------------|--|
| 1 Lateral ventricle (frontal horn) | 20 Cavernous sinus |
| 2 Corpus callosum (trunk) | 21 Oculomotor nerve (III) |
| 3 Head of caudate nucleus | 22 Pituitary gland |
| 4 Septum pellucidum | 23 Trochlear nerve (IV) |
| 5 Internal capsule (anterior limb) | 24 Inferior intercavernous sinus |
| 6 Putamen | 25 Ophthalmic nerve (V_1) |
| 7 Corpus callosum (rostrum) | 26 Floor of sella |
| 8 External capsule | 27 Abducent nerve (VI) |
| 9 Nucleus accumbens | 28 Sphenoidal sinus |
| 10 Subcallosal gyrus | 29 Maxillary nerve (V_2) |
| 11 Claustrum | 30 Sphenoidal bone (body) |
| 12 Anterior cerebral artery | 31 Tensor veli palatini muscle |
| 13 Straight gyrus | 32 Pharyngotympanic tube (auditory tube) |
| 14 Chiasmatic cistern | 33 Lateral pterygoid muscle |
| 15 Orbital gyri | 34 Nasopharynx |
| 16 Optic chiasm | 35 Levator veli palatini muscle |
| 17 Olfactory tract | 36 Medial pterygoid muscle |
| 18 Sellar diaphragm | |
| 19 Internal carotid artery (syphon) | |

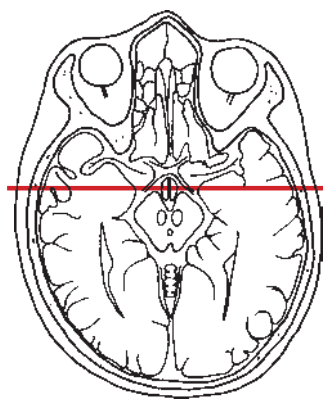
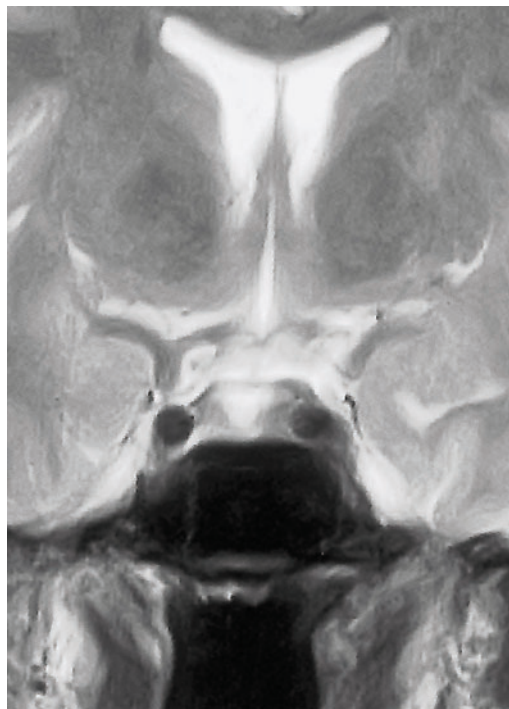


- Frontal lobe
- Temporal lobe

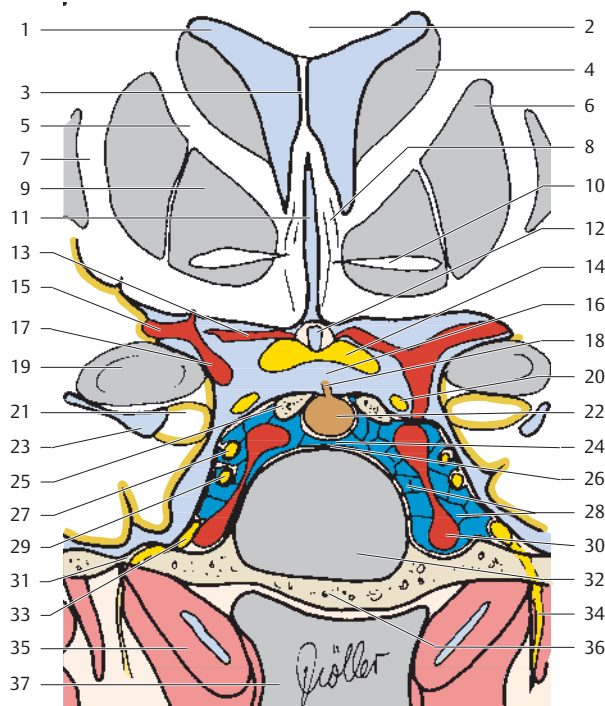
- 1 Frontal bone
- 2 Superior sagittal sinus
- 3 Falx cerebri in Longitudinal cerebral
- 4 Superior frontal gyrus
- 5 Pericallosal artery
- 6 Middle frontal gyrus
- 7 Corpus callosum (genu)



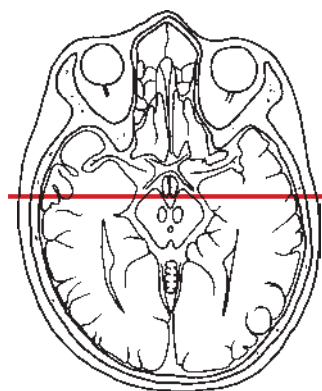
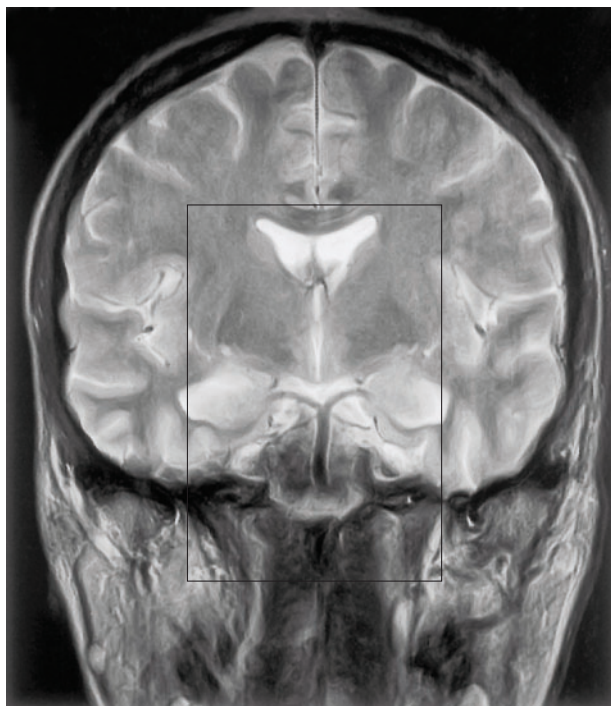
- | | |
|--------------------------------------|---|
| 8 Cingulate gyrus | 29 Inferior temporal gyrus |
| 9 Lateral ventricle (frontal horn) | 30 Optic chiasm |
| 10 Inferior frontal gyrus | 31 Parahippocampal gyrus |
| 11 Head of caudate nucleus | 32 Trochlear (IV), oculomotor (III) and abducent (VI) nerves, trigeminal ganglion |
| 12 Temporal muscle | 33 Temporal bone (zygomatic process) |
| 13 External capsule | 34 Internal carotid artery (syphon) |
| 14 Septum pellucidum | 35 Lateral occipitotemporal gyrus |
| 15 Claustrum | 36 Head of mandible |
| 16 Insular arteries | 37 Pharyngotympanic tube (auditory tube) |
| 17 Putamen | 38 Parotid gland |
| 18 Lateral sulcus | 39 Pharynx |
| 19 Superior temporal gyrus | 40 Lateral pterygoid muscle |
| 20 Insula | 41 Superior constrictor muscle of pharynx |
| 21 Amygdaloid body | 42 Mandibular artery, vein, and nerve |
| 22 Internal capsule (anterior limb) | 43 Medial pterygoid muscle |
| 23 Middle temporal gyrus | 44 Masseter muscle |
| 24 Longitudinal cerebral | 45 Styloglossus muscle |
| 25 Hippocampus | 46 Sphenoidal sinus |
| 26 Middle cerebral artery | |
| 27 Pituitary gland | |
| 28 Lateral ventricle (temporal horn) | |



Temporal lobe

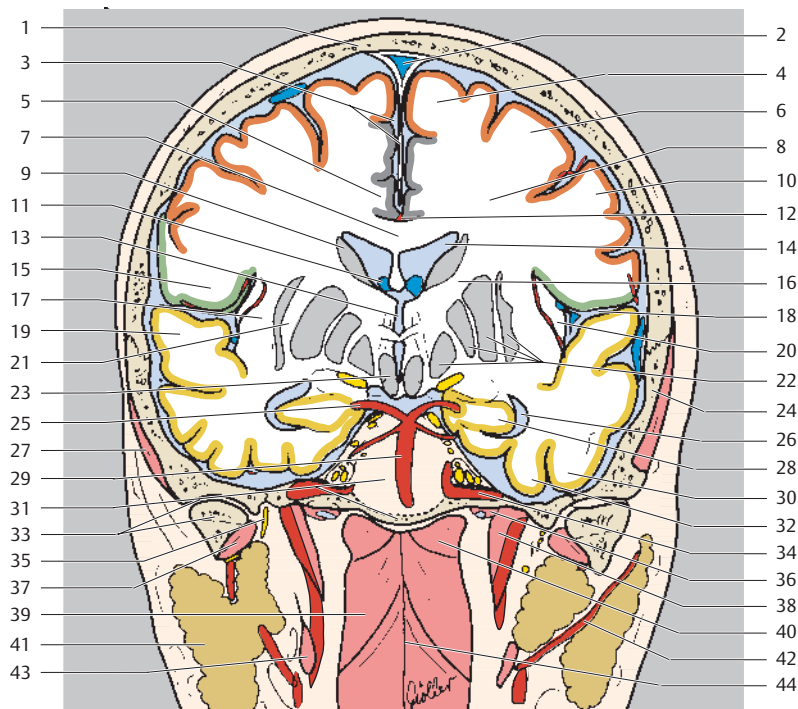


- | | |
|--|---|
| 1 Lateral ventricle (frontal horn) | 20 Oculomotor nerve (III) |
| 2 Corpus callosum (trunk) | 21 Hippocampus |
| 3 Septum pellucidum | 22 Pituitary gland |
| 4 Head of caudate nucleus | 23 Lateral ventricle (temporal horn) |
| 5 Internal capsule (anterior limb) | 24 Inferior intercavernous sinus |
| 6 Putamen | 25 Posterior clinoid process |
| 7 External capsule | 26 Floor of sella |
| 8 Precommissural fornix | 27 Trochlear nerve (IV) |
| 9 Globus pallidus | 28 Cavernous sinus |
| 10 Anterior commissure | 29 Abducent nerve (VI), trigeminal ganglion |
| 11 Longitudinal cerebral | 30 Internal carotid artery (syphon) |
| 12 Supraoptic recess | 31 Foramen ovale |
| 13 Anterior cerebral artery (A1 segment) | 32 Sphenoidal sinus |
| 14 Optic chiasm | 33 Trigeminal (V) ganglion |
| 15 Middle cerebral artery | 34 Mandibular nerve (V ₃) |
| 16 Suprasellar cistern | 35 Pharyngotympanic (auditory) tube |
| 17 Internal carotid artery | 36 Sphenoidal bone (body) |
| 18 Infundibulum | 37 Nasopharynx |
| 19 Amygdaloid body | |

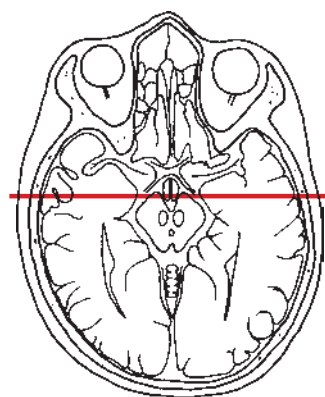
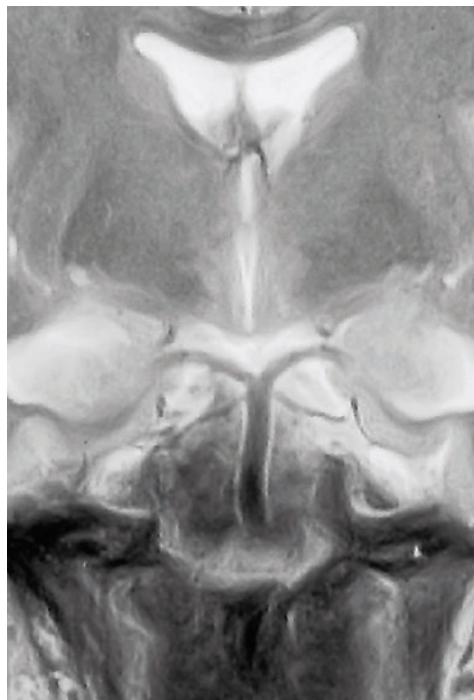


- Frontal lobe
- Temporal lobe
- Parietal lobe

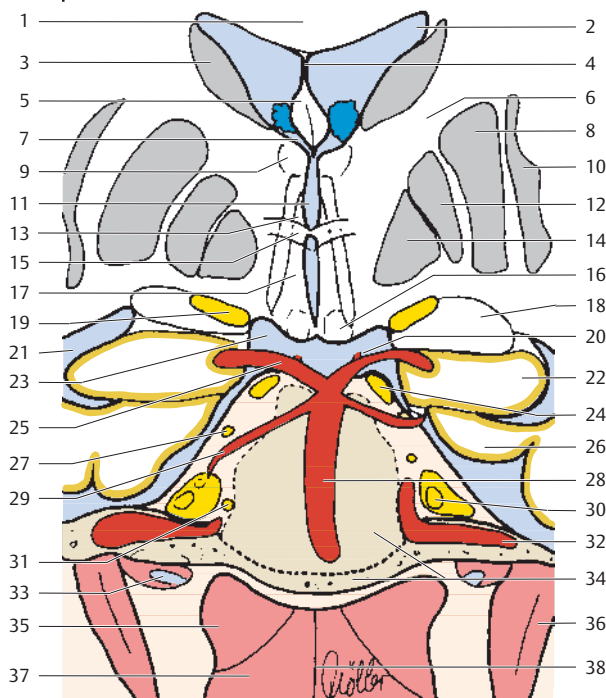
- 1 Frontal bone
- 2 Superior sagittal sinus
- 3 Falx cerebri in Longitudinal cerebral
- 4 Superior frontal gyrus
- 5 Cingulate gyrus
- 6 Middle frontal gyrus
- 7 Corpus callosum (trunk)
- 8 Cerebral white matter (semioval center)



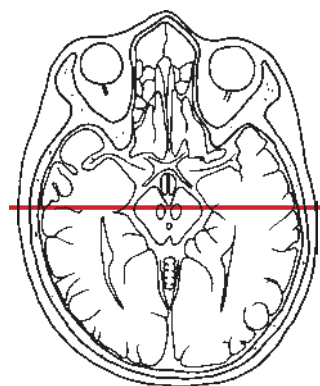
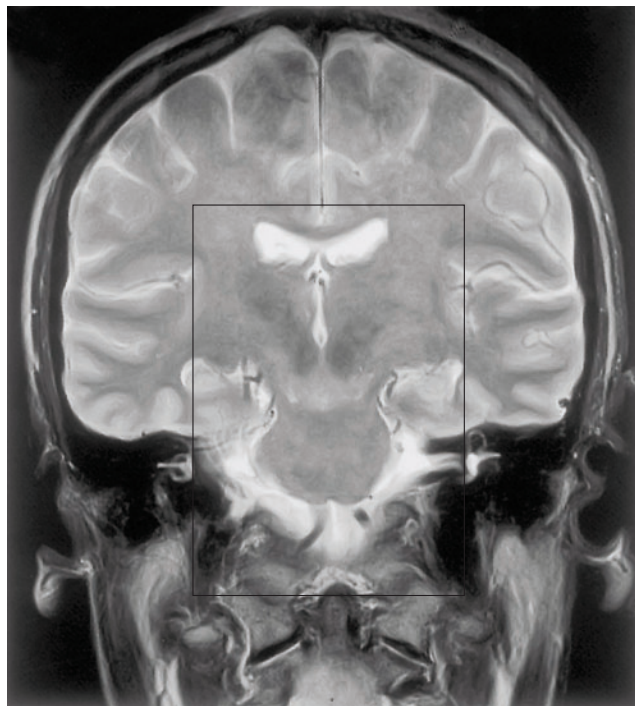
- | | |
|--------------------------------------|---|
| 9 Caudate nucleus (body) | 27 Temporal muscle |
| 10 Inferior frontal gyrus | 28 Hippocampus |
| 11 Interventricular foramen | 29 Basilar artery |
| 12 Pericallosal artery | 30 Middle temporal gyrus |
| 13 Third ventricle | 31 Occipital bone (clivus) |
| 14 Lateral ventricle (frontal horn) | 32 Lateral occipitotemporal gyrus |
| 15 Frontal operculum | 33 Head of mandible and temporomandibular joint |
| 16 Internal capsule (genu) | 34 Internal carotid artery (syphon) |
| 17 Extreme capsule | 35 Mandibular nerve |
| 18 Lateral sulcus | 36 Pharyngotympanic (auditory) tube |
| 19 Superior temporal gyrus | 37 Lateral pterygoid muscle |
| 20 Insula | 38 Levator veli palatini muscle |
| 21 External capsule | 39 Constrictor muscle of pharynx (superior, middle, and inferior) |
| 22 Basal nuclei (lentiform nucleus) | 40 Pharyngobasilar fascia |
| 23 Mammillary body and hypothalamus | 41 Parotid gland |
| 24 Temporal bone | 42 External carotid artery |
| 25 Posterior cerebral artery | 43 Stylopharyngeus muscle |
| 26 Lateral ventricle (temporal horn) | 44 Pharyngeal raphe |



 Temporal lobe

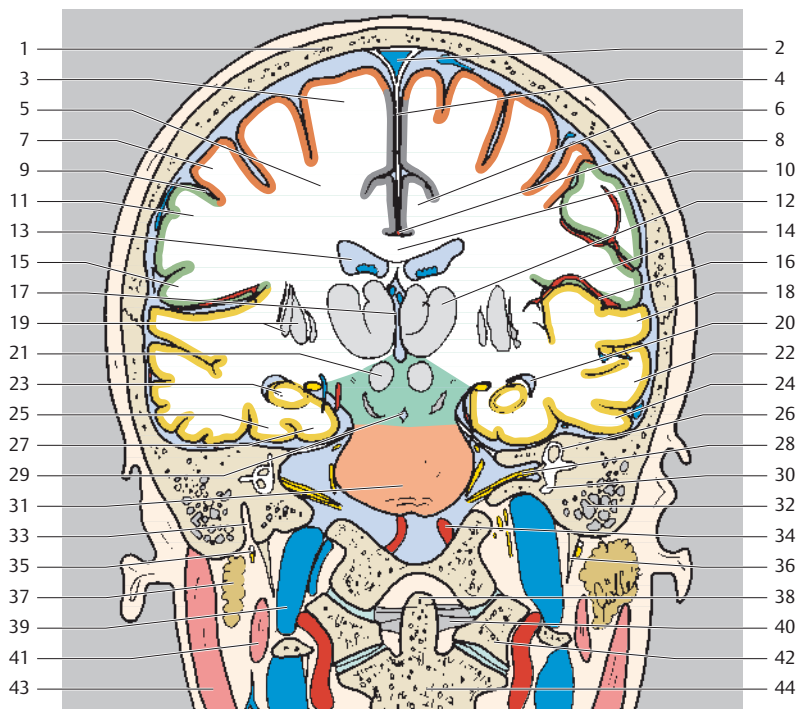


- | | |
|---------------------------------------|---|
| 1 Corpus callosum (trunk) | 20 Posterior communicating artery |
| 2 Lateral ventricle (frontal horn) | 21 Lateral ventricle (temporal horn) |
| 3 Body of caudate nucleus | 22 Hippocampus |
| 4 Septum pellucidum | 23 Ambient cistern |
| 5 Fornix (body) | 24 Oculomotor nerve (III) |
| 6 Internal capsule (genu) | 25 Posterior cerebral artery |
| 7 Interventricular foramen | 26 Parahippocampal gyrus |
| 8 Putamen | 27 Trochlear nerve (IV) |
| 9 Thalamus (anterior ventral nucleus) | 28 Basilar artery |
| 10 Claustrum | 29 Superior cerebellar artery |
| 11 Third ventricle | 30 Trigeminal nerve (ganglion, V) |
| 12 Globus pallidus lateral segment | 31 Abducent nerve (VI) |
| 13 Fornix (column) | 32 Internal carotid artery (syphon) |
| 14 Globus pallidus medial segment | 33 Pharyngotympanic (auditory) tube |
| 15 Anterior commissure | 34 Occipital bone (basilar part), clivus |
| 16 Mammillary body | 35 Pharyngobasilar fascia |
| 17 Hypothalamus | 36 Levator veli palatini muscle |
| 18 Amygdaloid body | 37 Superior constrictor muscle of pharynx |
| 19 Optic tract | 38 Pharyngeal raphe |

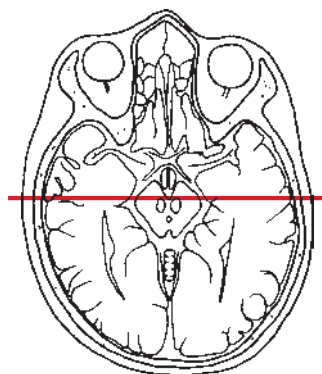
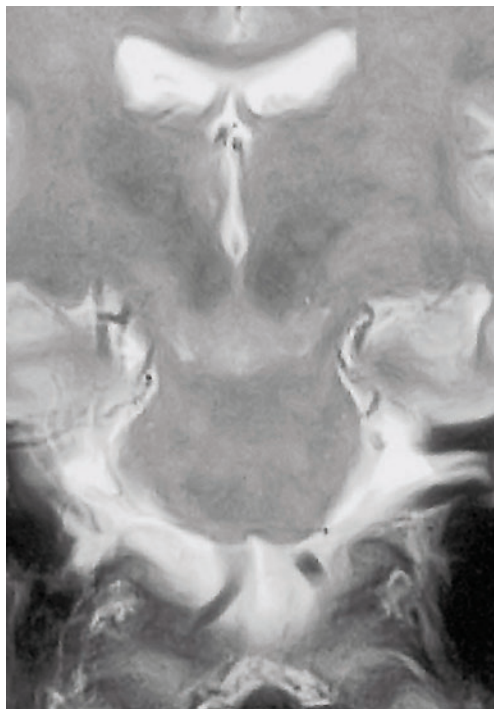


- Frontal lobe
- Temporal lobe
- Parietal lobe
- Mesencephalon
- Pons

- 1 Parietal bone
- 2 Superior sagittal sinus
- 3 Superior frontal gyrus
- 4 Falx cerebri
- 5 Central white matter (semioval center)
- 6 Cingulate gyrus
- 7 Precentral gyrus
- 8 Pericallosal artery
- 9 Central sulcus

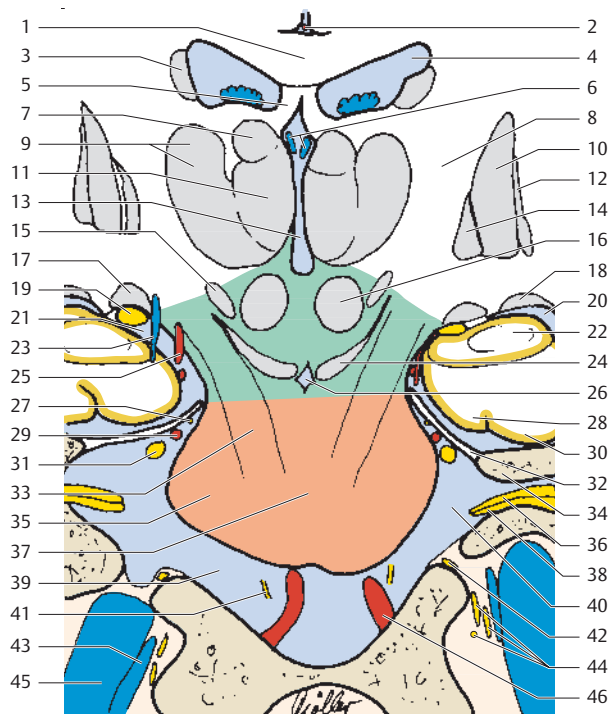


- | | |
|--|---|
| 10 Corpus callosum (trunk) | 28 Vestibulocochlear (VIII) and facial (VII) nerves in internal acoustic meatus |
| 11 Postcentral gyrus | 29 Interpeduncular cistern |
| 12 Thalamus | 30 Cochlea |
| 13 Lateral ventricle | 31 Pons |
| 14 Insular arteries | 32 Mastoid process with mastoid cells |
| 15 Parietal operculum | 33 Stylomastoid foramen |
| 16 Lateral sulcus | 34 Vertebral artery |
| 17 Third ventricle | 35 Facial nerve (VII) |
| 18 Superior temporal gyrus | 36 Styloid process |
| 19 Basal nuclei (lentiform nucleus) | 37 Parotid gland |
| 20 Lateral ventricle (temporal horn) | 38 Dens |
| 21 Red nucleus | 39 Internal jugular vein |
| 22 Middle temporal gyrus | 40 Transverse ligament of atlas |
| 23 Hippocampus | 41 Digastric muscle (posterior belly) |
| 24 Inferior temporal gyrus | 42 Atlas (lateral mass) |
| 25 Lateral occipitotemporal gyrus | 43 Sternocleidomastoid muscle |
| 26 Membranous semicircular canal (superior part) | 44 Axis |
| 27 Parahippocampal gyrus | |

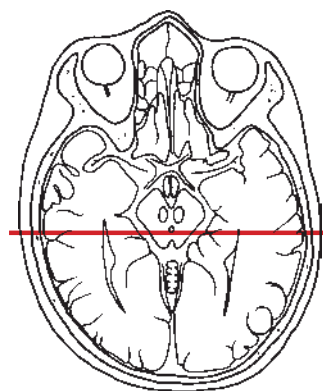
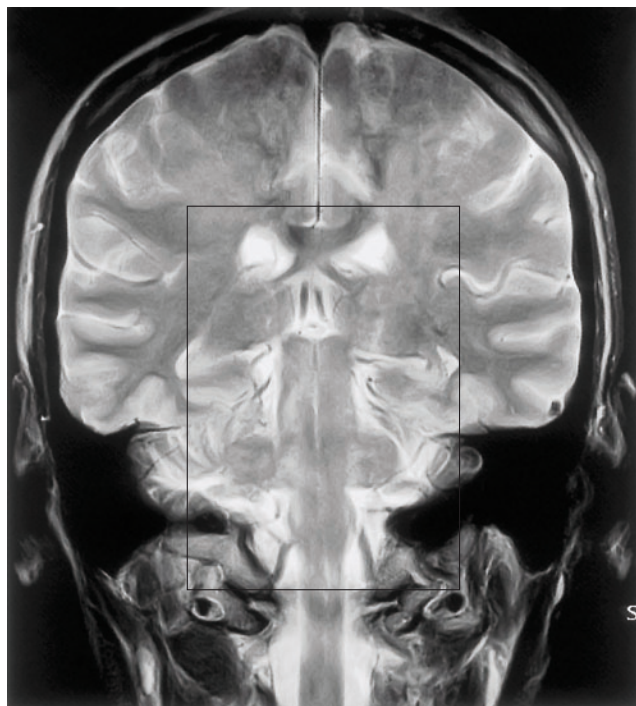


- Frontal lobe
- Temporal lobe
- Parietal lobe
- Mesencephalon
- Pons
- Medulla oblongata

- 1 Corpus callosum (trunk)
- 2 Pericallosal artery
- 3 Caudate nucleus (body)
- 4 Lateral ventricle
- 5 Fornix (crus)
- 6 Internal cerebral vein
- 7 Thalamus (lateral dorsal nucleus)
- 8 Internal capsule (posterior limb)

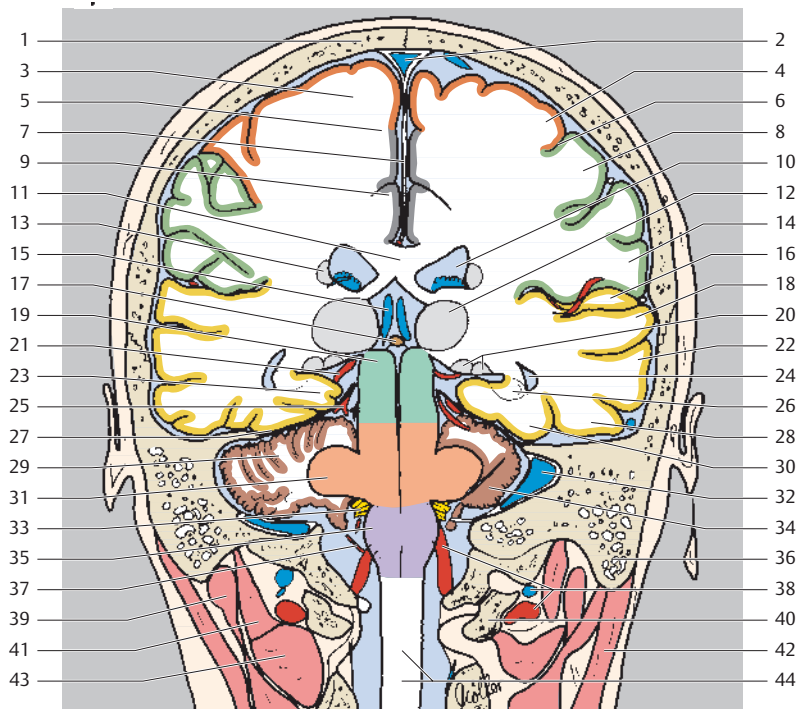


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|--------------------------------------|---|
| 9 Thalamus (ventral lateral complex) | 29 Superior cerebellar artery |
| 10 Putamen | 30 Lateral occipitotemporal gyrus |
| 11 Thalamus (medial nuclei) | 31 Trigeminal nerve (V) |
| 12 Claustrum | 32 Tentorium cerebelli |
| 13 Third ventricle | 33 Corticospinal tract |
| 14 Globus pallidus | 34 Petrous part of temporal bone |
| 15 Subthalamic nucleus | 35 Middle cerebellar peduncle |
| 16 Red nucleus | 36 Facial nerve (VII) in internal acoustic meatus |
| 17 Lateral geniculate body | 37 Pons |
| 18 Caudate nucleus (tail) | 38 Vestibulocochlear nerve (VIII) in internal acoustic meatus |
| 19 Optic tract | 39 Prepontine cistern |
| 20 Lateral ventricle (temporal horn) | 40 Pontocerebellar cistern |
| 21 Ambient cistern | 41 Abducent nerve (VI) |
| 22 Hippocampus | 42 Glossopharyngeal nerve (IX) |
| 23 Basal vein | 43 Vertebral vein |
| 24 Substantia nigra | 44 Vagus nerve (X), accessory nerve (XI), hypoglossal nerve (XII) |
| 25 Posterior cerebral artery | 45 Internal jugular vein |
| 26 Interpeduncular cistern | 46 Vertebral artery |
| 27 Trochlear nerve (IV) | |
| 28 Parahippocampal gyrus | |

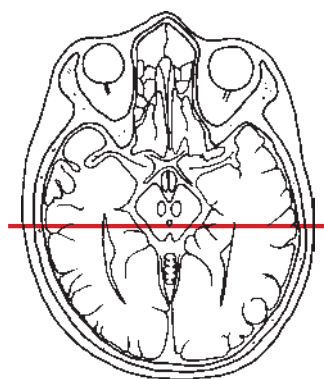
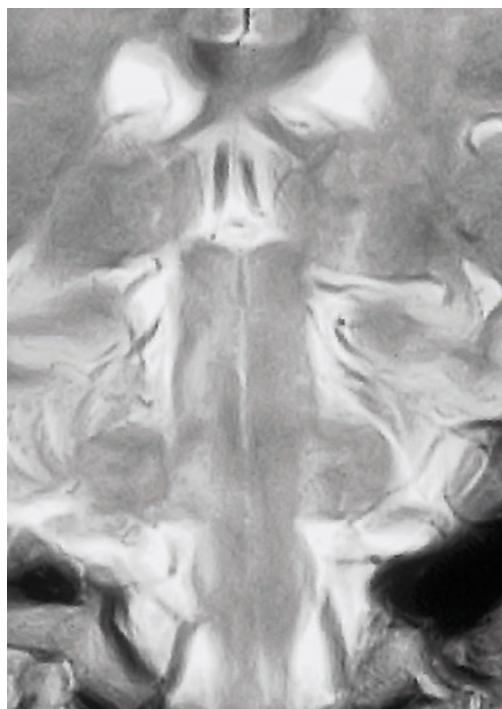


- Frontal lobe
- Temporal lobe
- Parietal lobe
- Cerebellum
- Mesencephalon
- Pons
- Medulla oblongata

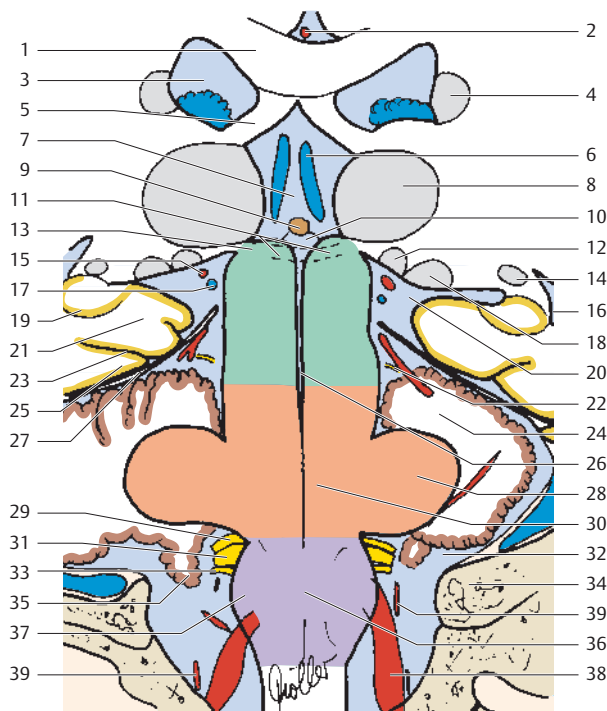
- 1 Parietal bone
- 2 Superior sagittal sinus
- 3 Superior frontal gyrus
- 4 Precentral gyrus
- 5 Paracentral lobe
- 6 Central sulcus
- 7 Falx cerebri
- 8 Postcentral gyrus
- 9 Cingulate gyrus



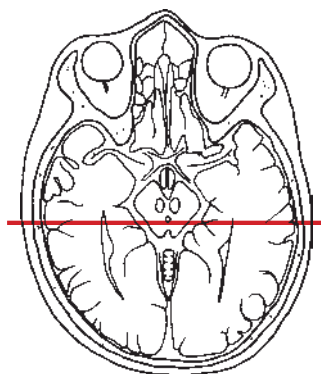
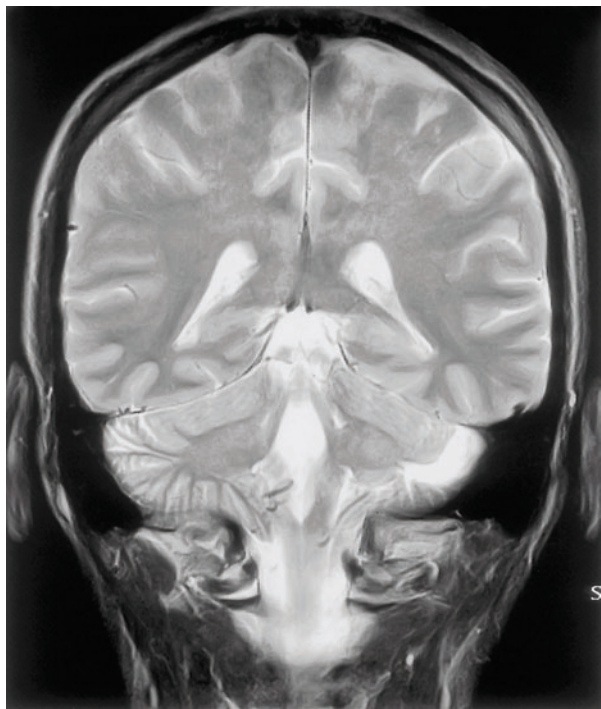
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|---|--|
| 10 Lateral ventricle | 28 Inferior temporal gyrus |
| 11 Corpus callosum | 29 Anterior lobe of cerebellum |
| 12 Thalamus | 30 Lateral occipitotemporal gyrus |
| 13 Caudate nucleus | 31 Middle cerebellar peduncle |
| 14 Supramarginal gyrus | 32 Sigmoid sinus |
| 15 Internal cerebral vein | 33 Facial nerve (VII), vestibulocochlear nerve (VIII), glossopharyngeal nerve (IX) |
| 16 Transverse temporal gyrus | 34 Flocculus |
| 17 Pineal body | 35 Inferior olivary complex |
| 18 Superior temporal gyrus | 36 Mastoid process with mastoid cells |
| 19 Cranial colliculus | 37 Posterior inferior cerebellar artery |
| 20 Medial geniculate body and lateral geniculate body | 38 Vertebral artery and vein |
| 21 Occipital artery | 39 Digastric muscle (posterior belly) |
| 22 Middle temporal gyrus | 40 Atlas (lateral mass) |
| 23 Parahippocampal gyrus | 41 Obliquus capitis superior muscle |
| 24 Lateral ventricle (temporal horn) | 42 Sternocleidomastoid muscle |
| 25 Superior cerebellar artery | 43 Obliquus capitis inferior muscle |
| 26 Hippocampus | 44 Spinal cord with median fissure |
| 27 Tentorium cerebelli | |



-  Temporal lobe
-  Cerebellum
-  Mesencephalon
-  Pons
-  Medulla oblongata

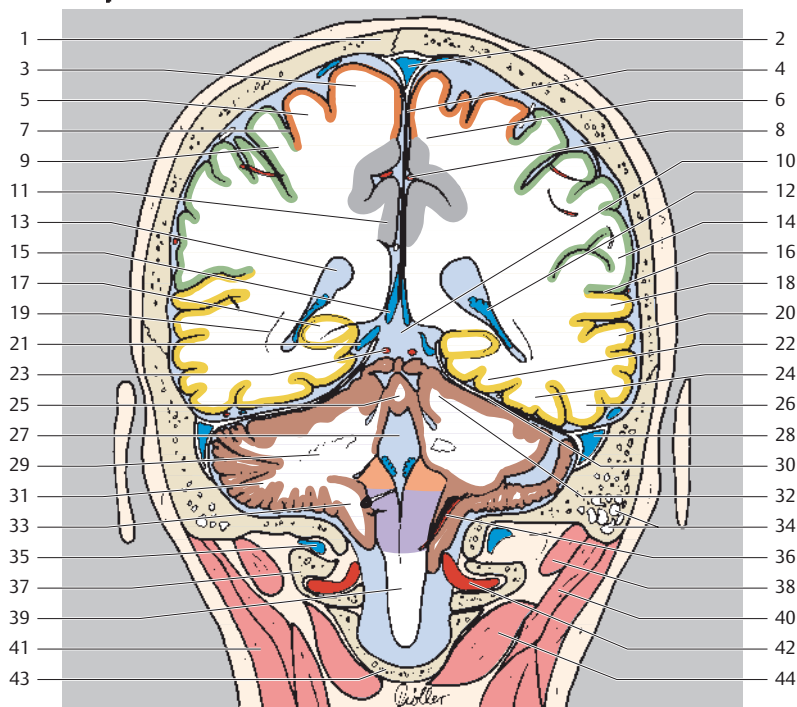


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|--------------------------------------|---|
| 1 Corpus callosum (trunk) | 20 Ambient cistern |
| 2 Pericallosal artery | 21 Parahippocampal gyrus |
| 3 Lateral ventricle | 22 Trochlear nerve (IV) |
| 4 Body of caudate nucleus | 23 Collateral sulcus |
| 5 Fornix (crus) | 24 Anterior lobe of cerebellum |
| 6 Internal cerebral vein | 25 Lateral occipitotemporal gyrus |
| 7 Suprapineal recess | 26 Aqueduct |
| 8 Thalamus (pulvinar) | 27 Tentorium cerebelli |
| 9 Pineal body | 28 Middle cerebellar peduncle |
| 10 Aqueduct of midbrain | 29 Glossopharyngeal nerve (XI) |
| 11 Posterior commissure | 30 Pons |
| 12 Medial geniculate body | 31 Vagus nerve (X) |
| 13 Cranial colliculus | 32 Pontocerebellar cistern |
| 14 Lateral geniculate body | 33 Accessory nerve (XI) |
| 15 Posterior cerebral artery | 34 Occipital bone |
| 16 Caudate nucleus (tail) | 35 Flocculus |
| 17 Basal vein | 36 Medulla oblongata |
| 18 Lateral ventricle (temporal horn) | 37 Inferior olivary complex |
| 19 Hippocampus | 38 Vertebral artery |
| | 39 Posterior inferior cerebellar artery |

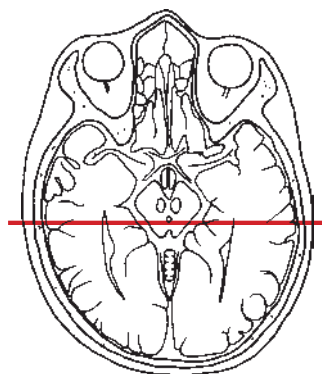
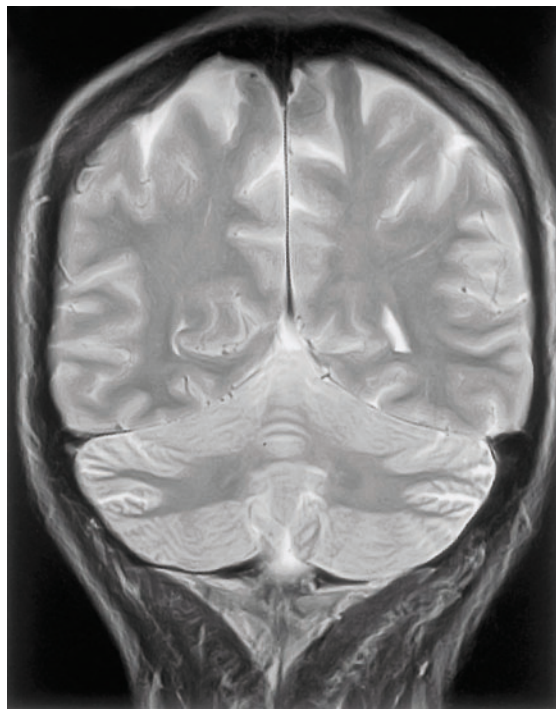


- Frontal lobe
- Temporal lobe
- Parietal lobe
- Cerebellum

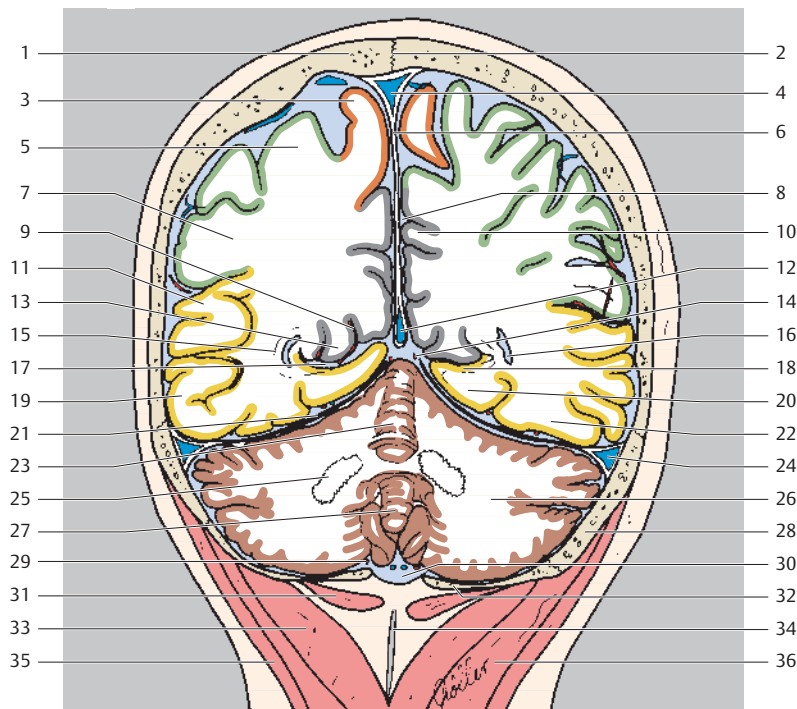
- 1 Parietal bone
- 2 Superior sagittal sinus
- 3 Superior frontal gyrus
- 4 Falx cerebri
- 5 Precentral gyrus
- 6 Paracentral lobule
- 7 Central sulcus



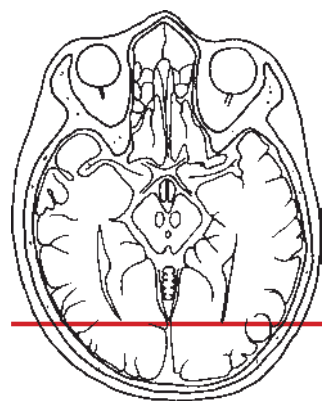
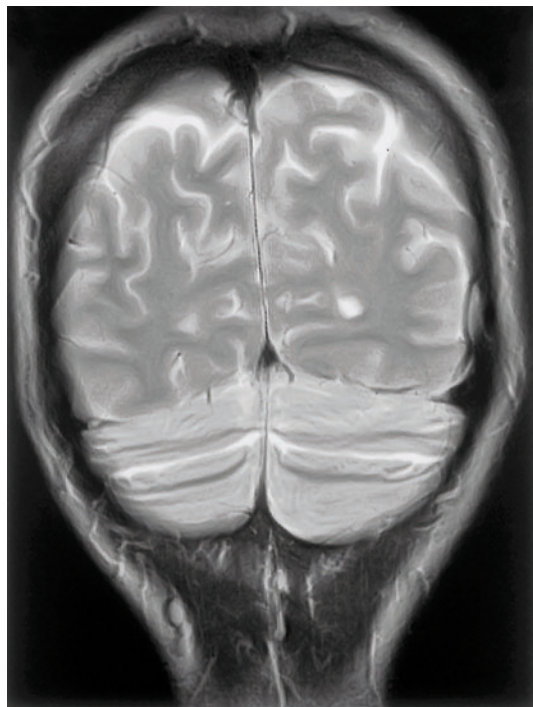
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|---|---|
| 8 Precuneal artery | 26 Inferior temporal gyrus |
| 9 Postcentral gyrus | 27 Fourth ventricle |
| 10 Quadrigeminal cistern | 28 Transverse sinus |
| 11 Precuneus | 29 Dentate nucleus |
| 12 Choroid plexus | 30 Tentorium cerebelli |
| 13 Lateral ventricle (collateral trigone) | 31 Posterior lobe of cerebellum |
| 14 Supramarginal gyrus | 32 Anterior lobe of cerebellum |
| 15 Internal cerebral vein | 33 Tonsil of cerebellum |
| 16 Lateral sulcus | 34 Mastoid cells in mastoid process |
| 17 Hippocampus | 35 Vertebral vein |
| 18 Superior temporal gyrus | 36 Posterior inferior cerebellar artery |
| 19 Optic radiation | 37 Atlas (lateral mass) |
| 20 Middle temporal gyrus | 38 Obliquus capitis superior muscle |
| 21 Basal vein | 39 Spinal cord |
| 22 Medial occipitotemporal gyrus | 40 Longus capitis muscle |
| 23 Superior cerebellar artery | 41 Sternocleidomastoid muscle |
| 24 Lateral occipitotemporal gyrus | 42 Vertebral artery |
| 25 Vermis of cerebellum | 43 Third cervical vertebra (arch) |
| | 44 Obliquus capitis inferior muscle |



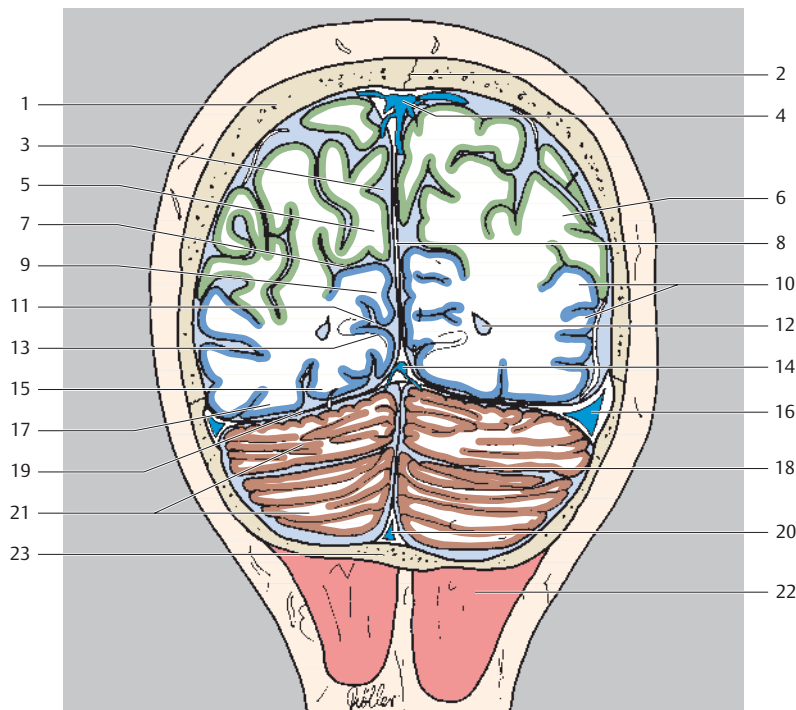
- Frontal lobe
- Temporal lobe
- Parietal lobe
- Cerebellum



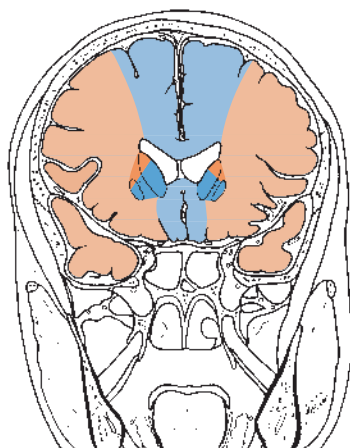
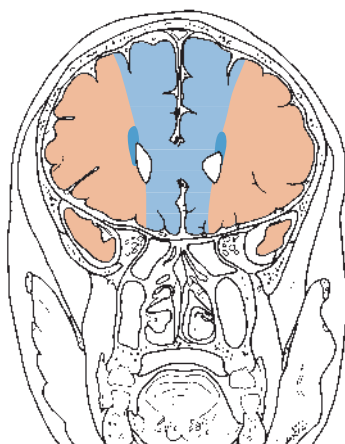
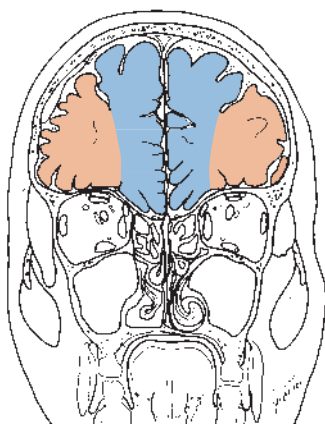
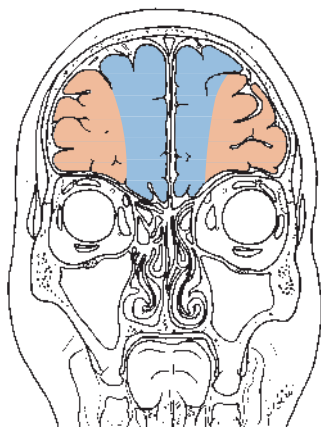
- | | |
|---------------------------------------|--|
| 1 Parietal bone | 19 Inferior temporal gyrus |
| 2 Sagittal suture | 20 Medial occipitotemporal gyrus |
| 3 Precentral gyrus | 21 Tentorium cerebelli |
| 4 Superior sagittal sinus | 22 Lateral occipitotemporal gyrus |
| 5 Postcentral gyrus | 23 Vermis of cerebellum |
| 6 Falx cerebri | 24 Transverse sinus |
| 7 Supramarginal gyrus | 25 Dentate nucleus |
| 8 Longitudinal cerebral | 26 Posterior lobe of cerebellum |
| 9 Parieto-occipital sulcus | 27 Uvula of vermis |
| 10 Precuneus | 28 Temporal bone |
| 11 Middle temporal gyrus | 29 Posterior inferior cerebellar artery |
| 12 Straight sinus | 30 Cisterna magna |
| 13 Cuneus | 31 Rectus capitis posterior minor muscle |
| 14 Superior cerebellar artery | 32 Occipital bone |
| 15 Optic radiation | 33 Rectus capitis posterior major muscle |
| 16 Lateral ventricle (occipital horn) | 34 Nuchal ligament |
| 17 Calcarine sulcus | 35 Splenius capitis muscle |
| 18 Striate cortex | 36 Semispinalis capitis muscle |



- Parietal lobe
- Occipital lobe
- Cerebellum



- | | |
|----------------------------|---------------------------------------|
| 1 Parietal bone | 12 Lateral ventricle (occipital horn) |
| 2 Sagittal suture | 13 Striate cortex |
| 3 Longitudinal cerebral | 14 Straight sinus |
| 4 Superior sagittal sinus | 15 Medial occipitotemporal gyrus |
| 5 Precuneus | 16 Transverse sinus |
| 6 Angular gyrus | 17 Lateral occipitotemporal gyrus |
| 7 Parieto-occipital sulcus | 18 Horizontal fissure |
| 8 Falx cerebri | 19 Tentorium cerebelli |
| 9 Cuneus | 20 Occipital sinus |
| 10 Occipital gyri | 21 Posterior lobe of cerebellum |
| 11 Calcarine sulcus | 22 Semispinalis capitis muscle |
| | 23 Occipital bone |



Anterior cerebral artery

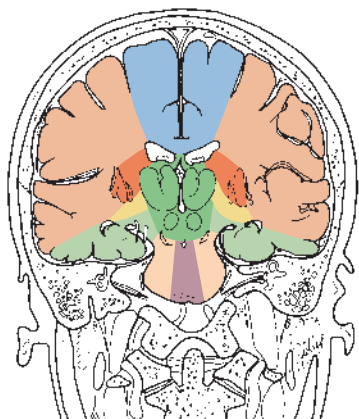
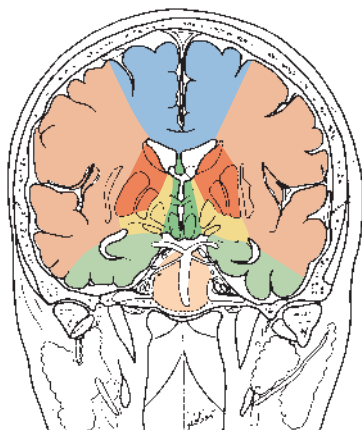
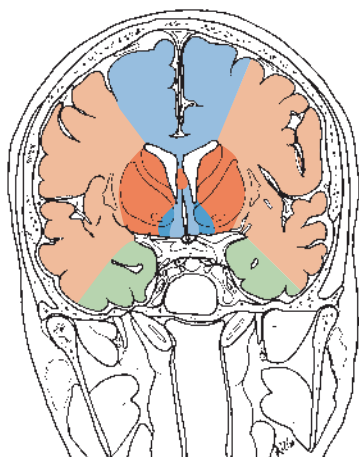
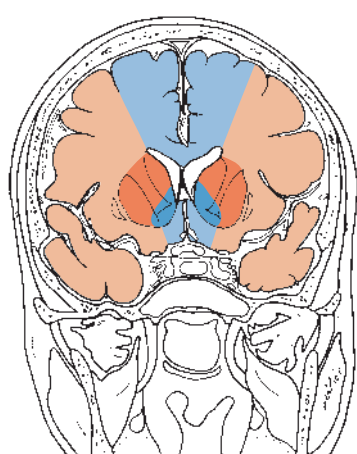
Terminal branches

Central branches

Middle cerebral artery

Terminal branches

Central branches



Anterior cerebral artery

- Terminal branches
- Central branches (striate arteries including distal medial striate artery)

Middle cerebral artery

- Terminal branches
- Central branches (striate branches)

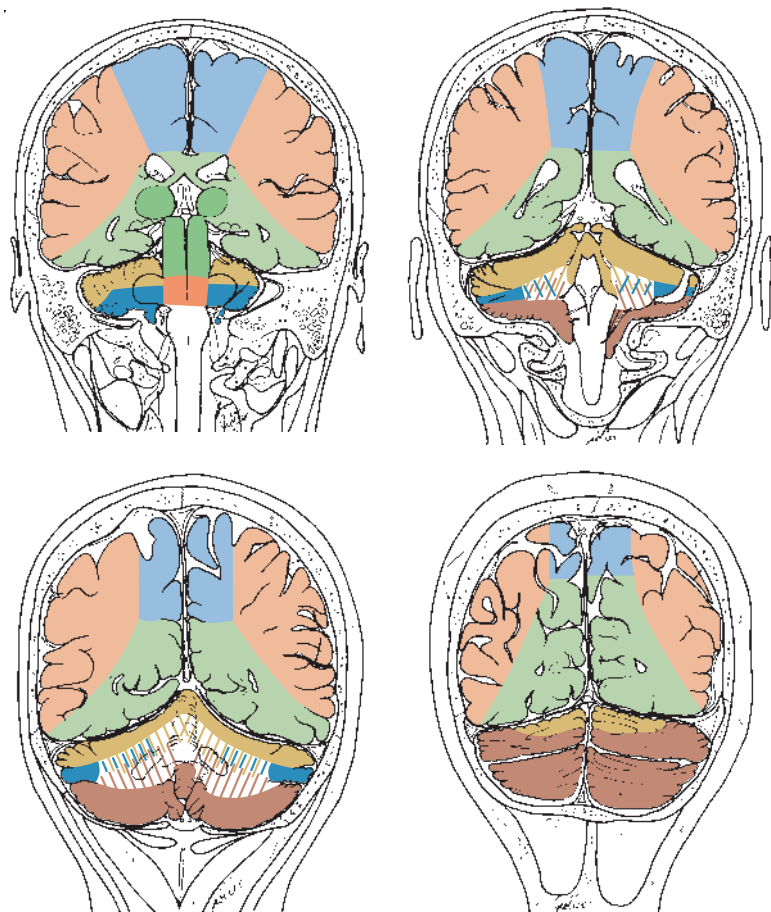
Posterior cerebral artery

- Terminal branches
- Central branches (including posterior communicating artery)

Anterior choroidal artery

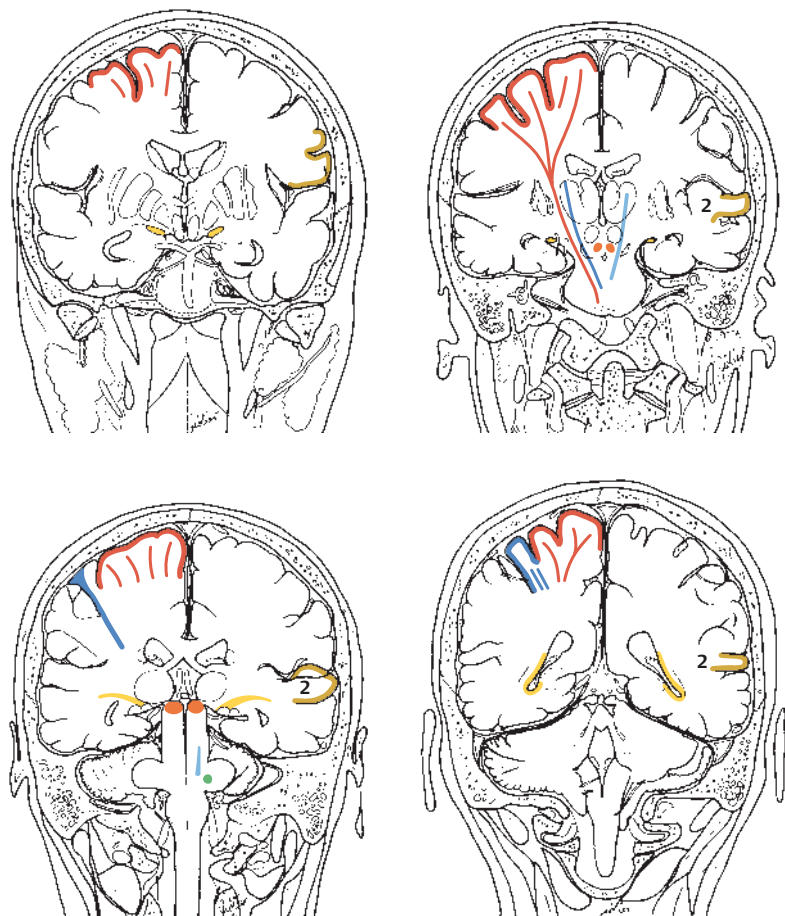
Basilar artery

- Anteromedial and anterolateral paramedian branches
- Circumferential arteries and lateral and dorsal paramedian branches



- Anterior cerebral artery**
 Terminal branches
- Middle cerebral artery**
 Terminal branches
- Posterior cerebral artery**
 Terminal branches
 Central branches (including posterior communicating artery)

- Anterior choroidal artery**
- Basilar artery**
 Circumferential arteries and lateral and dorsal paramedian branches
- Superior cerebellar artery**
Anterior inferior cerebellar artery
Border area
Posterior inferior cerebellar artery



Motor system

Sensory system

Medial lemniscus

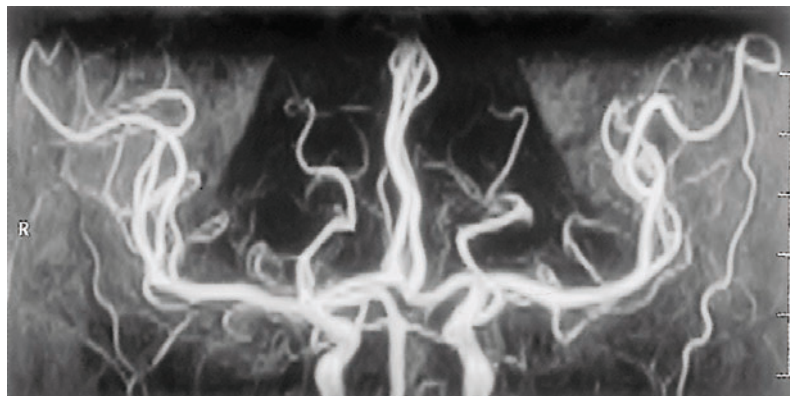
Spinothalamic tract

Mesencephalic nucleus of trigeminal nerve

Oculomotor nucleus and pathways

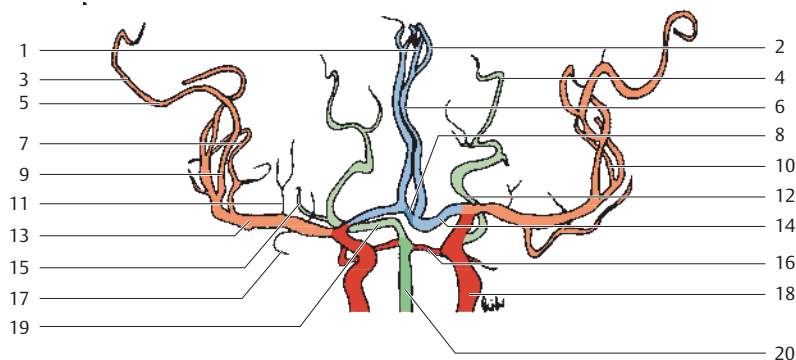
Optic tract

Speech center
(1 = motor, 2 = sensory)

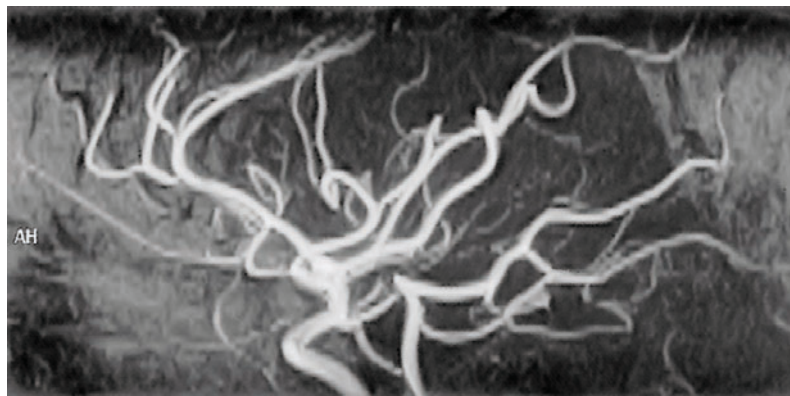


Frontal view

- Anterior cerebral artery
- Middle cerebral artery
- Posterior cerebral artery

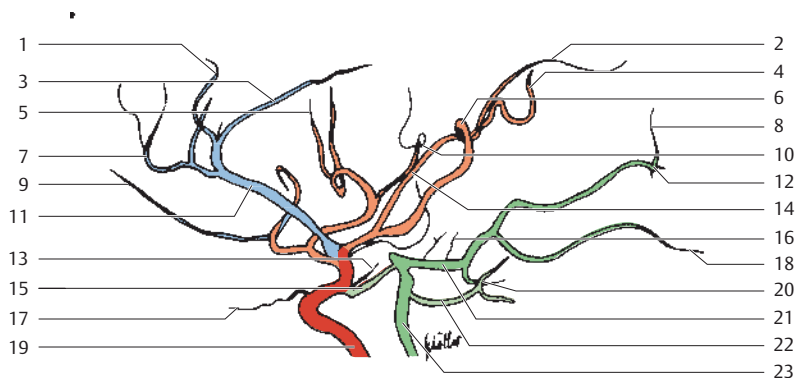


- | | |
|--|---|
| 1 Callosomarginal artery | 11 Striate artery |
| 2 Pericallosal artery | 12 Left posterior cerebral artery (from internal carotid artery, variant) |
| 3 Superior parietal artery | 13 Middle cerebral artery (sphenoid part, M1 segment) |
| 4 Posterior cerebral artery (parieto-occipital ramus) | 14 Anterior cerebral artery (precommunicating part) |
| 5 Middle cerebral artery (opercular part, M3 segment) | 15 Posterior cerebral artery (temporal and occipitotemporal branches) |
| 6 Anterior cerebral artery (postcommunicating part) | 16 Superior cerebellar artery |
| 7 Insular arteries | 17 Polar temporal artery |
| 8 Anterior communicating artery | 18 Internal carotid artery |
| 9 Middle cerebral artery (insular part, M2 segment) | 19 Right posterior cerebral artery |
| 10 Anterior temporal artery and middle temporal artery | 20 Basilar artery |

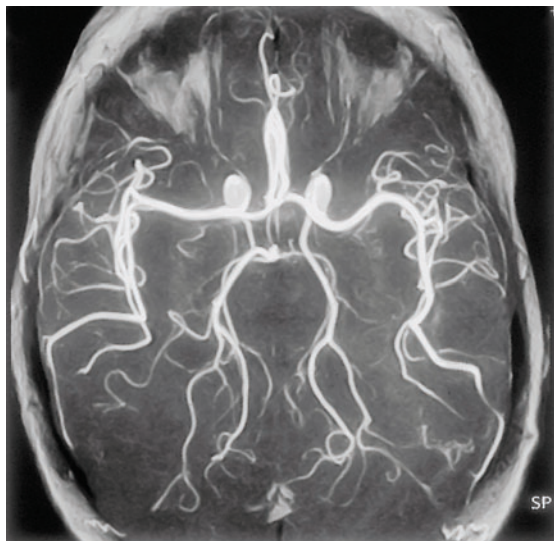


Lateral view

-  Anterior cerebral artery
-  Middle cerebral artery
-  Posterior cerebral artery

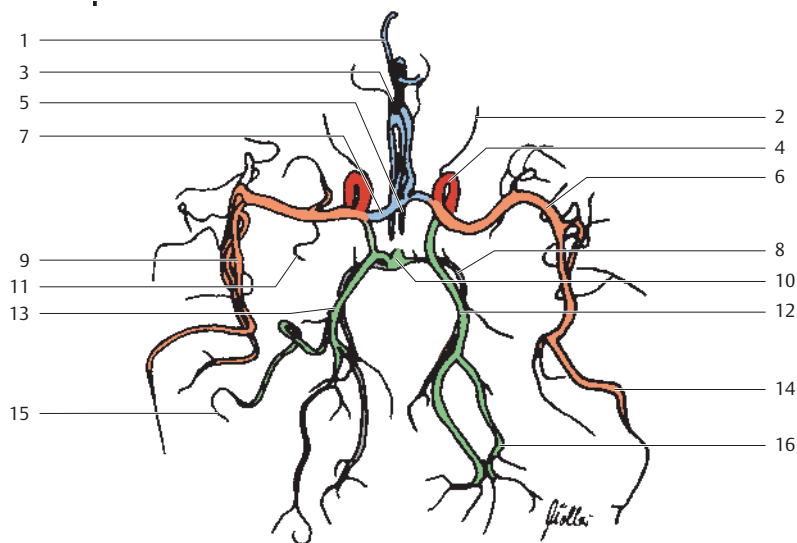


- | | |
|---|--|
| 1 Callosomarginal artery | 12 Medial occipital artery |
| 2 Parietal artery | 13 Anterior choroidal artery |
| 3 Pericallosal artery | 14 Middle cerebral artery (M2 segment) |
| 4 Artery of angular gyrus | 15 Posterior communicating artery |
| 5 Artery of precentral sulcus | 16 Posteromedial central arteries |
| 6 Middle cerebral artery (opercular part) | 17 Ophthalmic artery |
| 7 Polar frontal artery | 18 Occipitotemporal branch |
| 8 Parieto-occipital artery | 19 Internal carotid artery |
| 9 Medial frontobasal artery | 20 Posterior temporal artery |
| 10 Artery of central sulcus | 21 Posterior cerebral artery |
| 11 Anterior cerebral artery (postcommunicating segment, A2 segment) | 22 Superior cerebellar artery |
| | 23 Basilar artery |



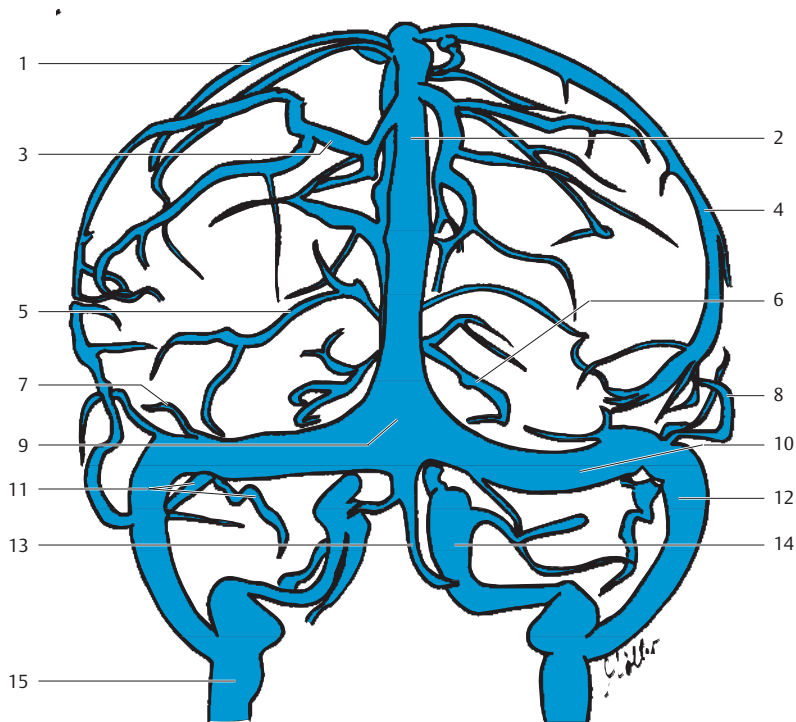
Cranial view

- Anterior cerebral artery
- Middle cerebral artery
- Posterior cerebral artery



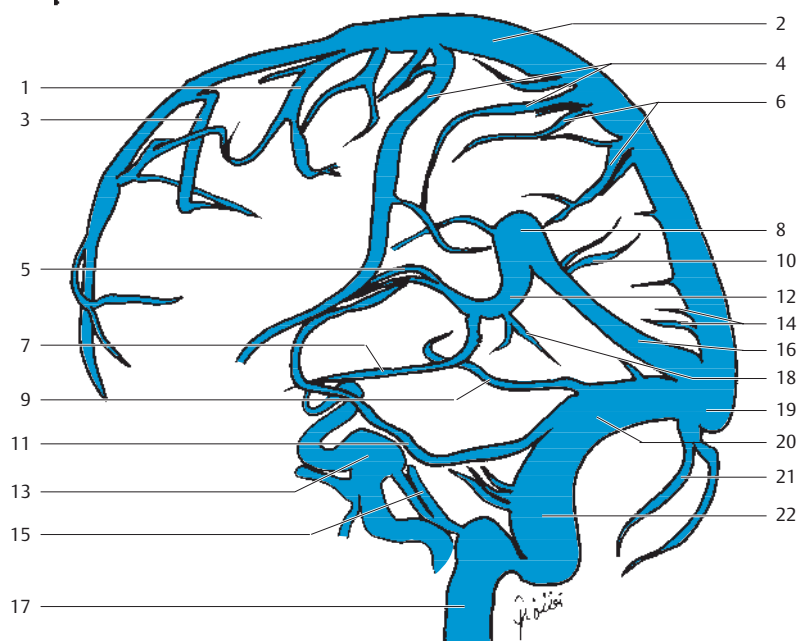
- | | |
|---|---|
| 1 Anteromedial frontal branch of anterior cerebral artery | 8 Superior cerebellar artery |
| 2 Ophthalmic artery | 9 Middle cerebral artery (insular part) |
| 3 Anterior cerebral artery (postcommunicating part) | 10 Basilar artery |
| 4 Internal carotid artery | 11 Anterior choroidal artery |
| 5 Anterior communicating artery | 12 Left posterior cerebral artery (from internal carotid artery, variant) |
| 6 Middle cerebral artery (sphenoid part) | 13 Right posterior cerebral artery |
| 7 Anterior cerebral artery (precommunicating part) | 14 Middle cerebral artery (opercular part) |
| | 15 Temporal artery |
| | 16 Parieto-occipital artery |





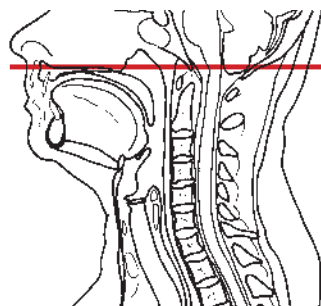
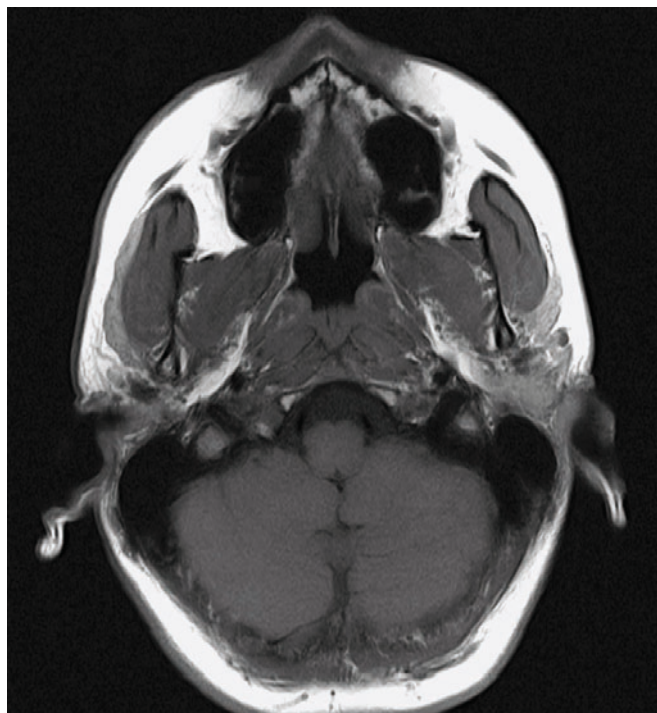
- | | |
|---|---|
| 1 Superior cerebral veins | 8 Sphenoparietal sinus |
| 2 Superior sagittal sinus | 9 Confluence of sinuses |
| 3 Parietal veins | 10 Transverse sinus |
| 4 Superior anastomotic vein
(Trolard) | 11 Superior veins of cerebellar
hemisphere |
| 5 Frontal veins | 12 Sigmoid sinus |
| 6 Basal vein | 13 Inferior of cerebellar hemisphere |
| 7 Middle cerebral veins (deep
and superficial) | 14 Cavernous sinus |
| | 15 Internal jugular vein |

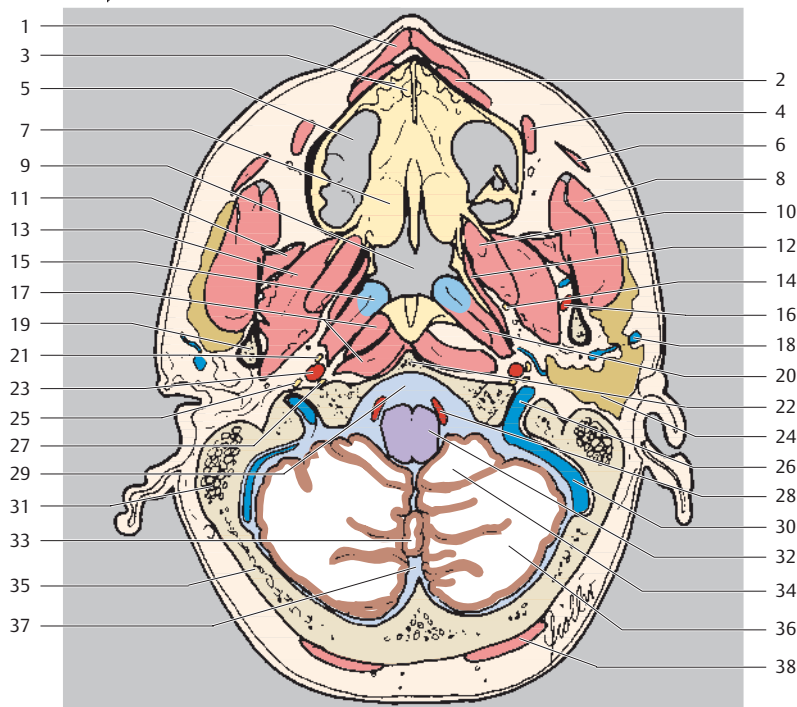




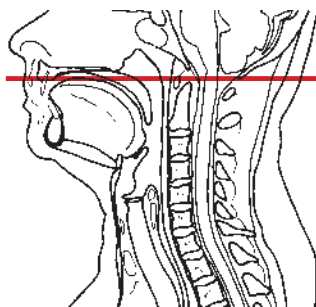
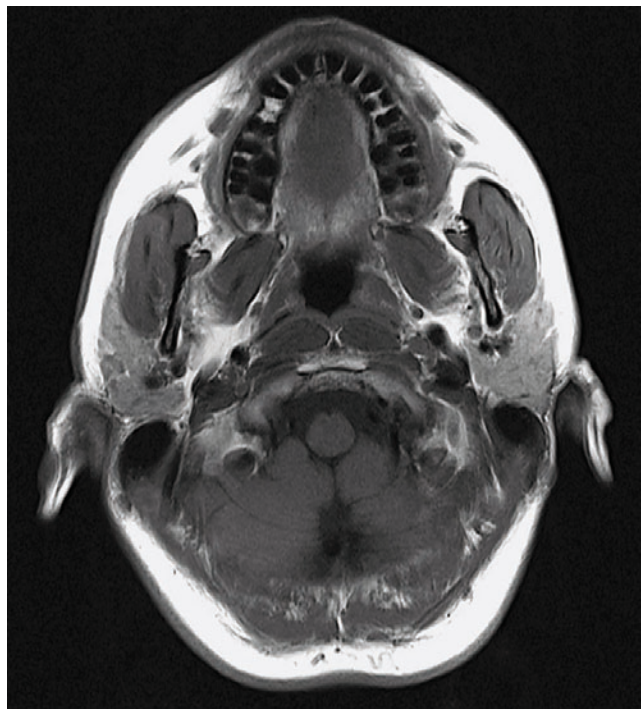
- 1 Precentral cerebellar veins
- 2 Superior sagittal sinus
- 3 Frontal veins
- 4 Superior cerebral veins
- 5 Internal cerebral veins
- 6 Parietal veins
- 7 Basal vein
- 8 Falcotentorial confluence of sinuses
- 9 Inferior anastomotic vein (Labbé)
- 10 Internal occipital vein
- 11 Superior petrosal sinus

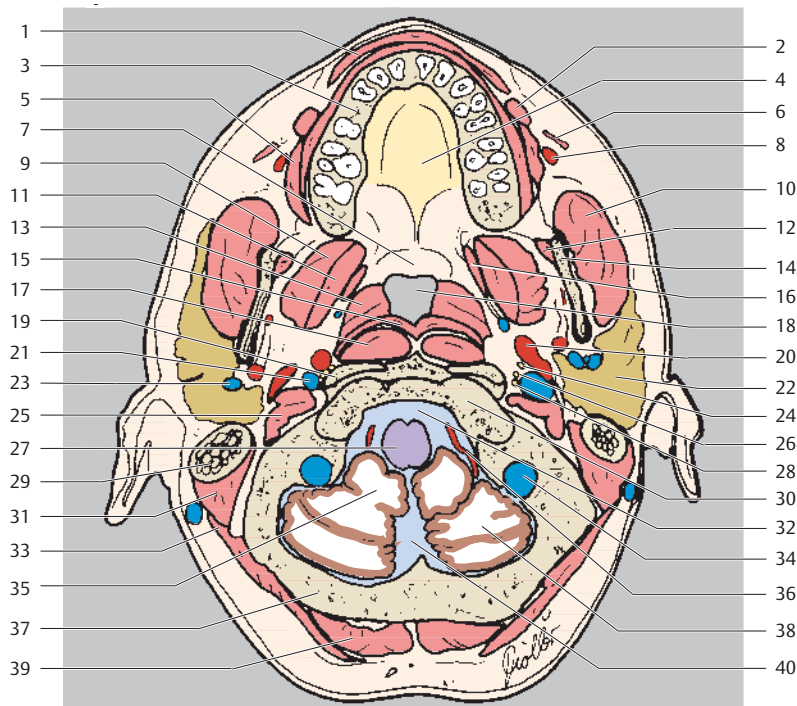
- 12 Great cerebral vein
- 13 Cavernous sinus
- 14 Posterior cerebral veins
- 15 Inferior petrosal sinus
- 16 Straight sinus
- 17 Internal jugular vein
- 18 Superior veins of cerebellar hemisphere
- 19 Confluence of sinuses
- 20 Transverse sinus
- 21 Inferior veins of cerebellar hemisphere
- 22 Sigmoid sinus



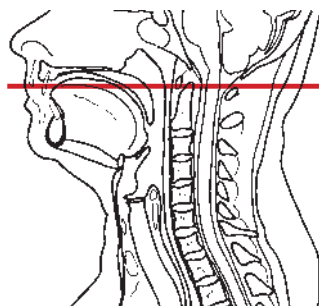
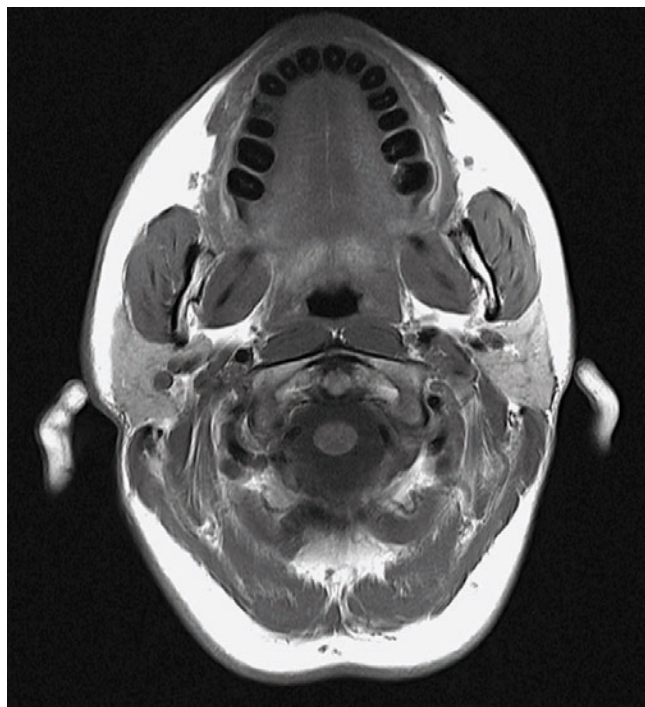


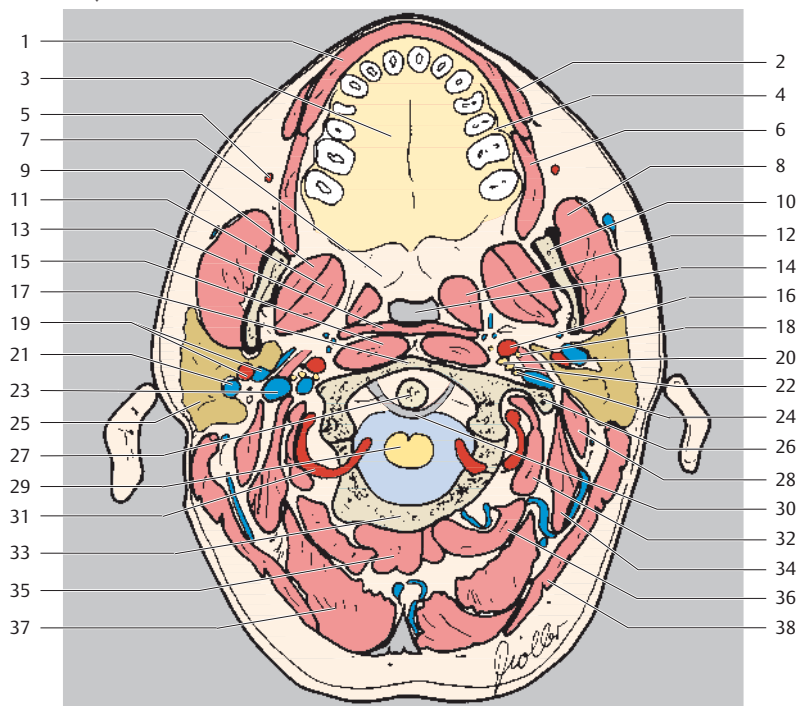
- | | |
|---|--|
| 1 Orbicularis oris muscle | 21 Glossopharyngeal nerve (IX) |
| 2 Levator labii superioris muscle | 22 Occipital bone, basilar part (basion) |
| 3 Maxilla (palatine process) and incisive canal | 23 Internal carotid artery |
| 4 Levator anguli oris muscle | 24 Parotid gland |
| 5 Maxillary sinus | 25 Vagus nerve (X) |
| 6 Major zygomaticus muscle | 26 Internal jugular vein (superior bulb) |
| 7 Soft palate | 27 Hypoglossal nerve (XII) |
| 8 Masseter muscle | 28 Vertebral artery |
| 9 Nasopharynx | 29 Interpeduncular cistern |
| 10 Medial pterygoid muscle | 30 Sigmoid sinus |
| 11 Temporal muscle | 31 Mastoid cells |
| 12 Tensor veli palatini muscle | 32 Medulla oblongata |
| 13 Lateral pterygoid muscle | 33 Vermis |
| 14 Mandibular nerve (V_3) | 34 Tonsil of cerebellum |
| 15 Pharyngotympanic tube (auditory tube) (torus levatorius) | 35 Occipital bone |
| 16 Maxillary artery | 36 Cerebellar hemisphere (posterior lobe) |
| 17 Longus capitis muscle | 37 Cisterna magna (posterior cerebellomedullary cistern) |
| 18 Retromandibular vein | 38 Semispinalis capitis muscle |
| 19 Ramus of mandible | |
| 20 Levator veli palatini muscle | |



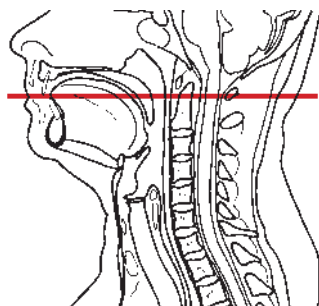


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|---------------------------------|--|
| 1 Orbicularis oris muscle | 23 Retromandibular vein |
| 2 Levator anguli oris muscle | 24 Vagus nerve (X) |
| 3 Maxilla (alveolar process) | 25 Rectus capitis lateralis muscle |
| 4 Hard palate | 26 Hypoglossal nerve (XII) |
| 5 Buccinator muscle | 27 Medulla oblongata |
| 6 Zygomaticus muscle | 28 Accessory nerve (XI) |
| 7 Soft palate | 29 Mastoid cells (mastoid process) |
| 8 Facial artery | 30 Occipital bone, basilar part (basion) |
| 9 Lateral pterygoid muscle | 31 Digastric muscle (posterior belly) |
| 10 Masseter muscle | 32 Interpeduncular cistern |
| 11 Medial pterygoid muscle | 33 Splenius capitis muscle |
| 12 Temporal muscle | 34 Condylar canal with emissary veins |
| 13 Levator veli palatini muscle | 35 Tonsil of cerebellum |
| 14 Ramus of mandible | 36 Vertebral artery |
| 15 Splenius capitis muscle | 37 Occipital bone |
| 16 Tensor veli palatini muscle | 38 Cerebellar hemisphere (posterior lobe) |
| 17 Longus capitis muscle | 39 Semispinalis capitis muscle |
| 18 Nasopharynx | 40 Cisterna magna (posterior cerebellomedullary cistern) |
| 19 Anterior arch of atlas | |
| 20 Internal carotid artery | |
| 21 Internal jugular vein | |
| 22 Parotid gland | |



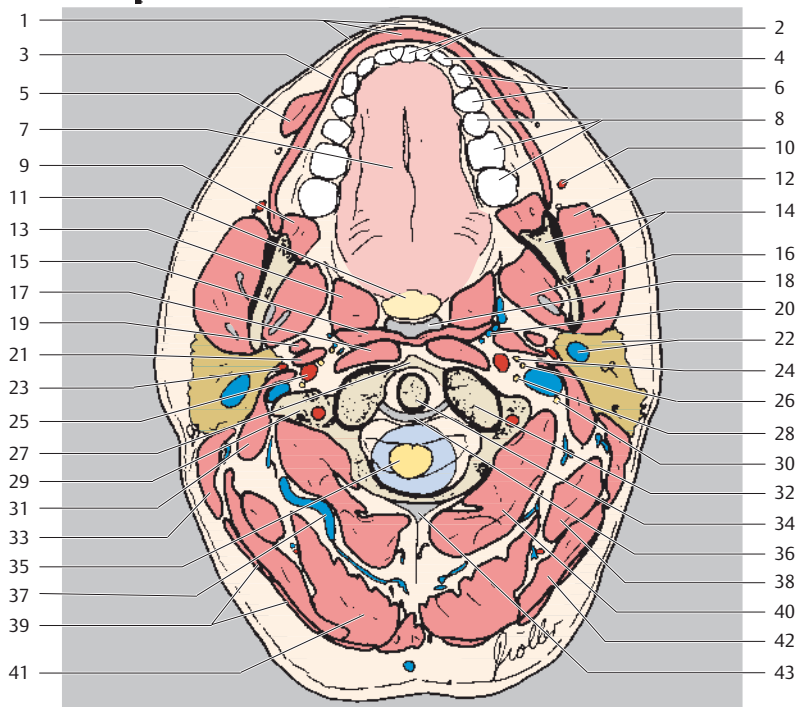


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|---|--|
| 1 Orbicularis oris muscle | 20 Vagus nerve (X) |
| 2 Levator anguli oris muscle | 21 Retromandibular vein |
| 3 Hard palate | 22 Hypoglossal nerve (XII) |
| 4 Maxilla (alveolar process) | 23 Stylopharyngeus muscle |
| 5 Facial artery | 24 Accessory nerve (XI) |
| 6 Buccinator muscle | 25 Parotid gland |
| 7 Soft palate | 26 Atlas, transverse process |
| 8 Masseter muscle | 27 Dens of axis |
| 9 Lateral pterygoid muscle | 28 Digastric muscle (posterior belly) |
| 10 Ramus of mandible | 29 Medulla oblongata |
| 11 Medial pterygoid muscle | 30 Transverse ligament of atlas |
| 12 Tensor veli palatini muscle | 31 Vertebral artery |
| 13 Superior constrictor muscle of pharynx | 32 Rectus capitis lateralis muscle |
| 14 Pharynx | 33 Atlas, posterior arch |
| 15 Longus capitis muscle | 34 Obliquus capitis superior muscle |
| 16 Internal carotid artery | 35 Rectus capitis posterior minor muscle |
| 17 Atlas (anterior arch) | 36 Obliquus capitis inferior muscle |
| 18 Glossopharyngeal nerve (IX) | 37 Semispinalis capitis muscle |
| 19 Maxillary artery and vein | 38 Splenius capitis muscle |

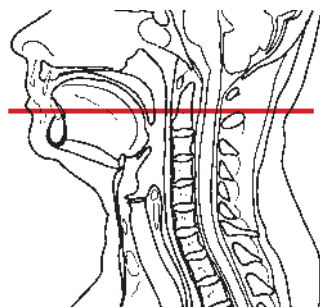


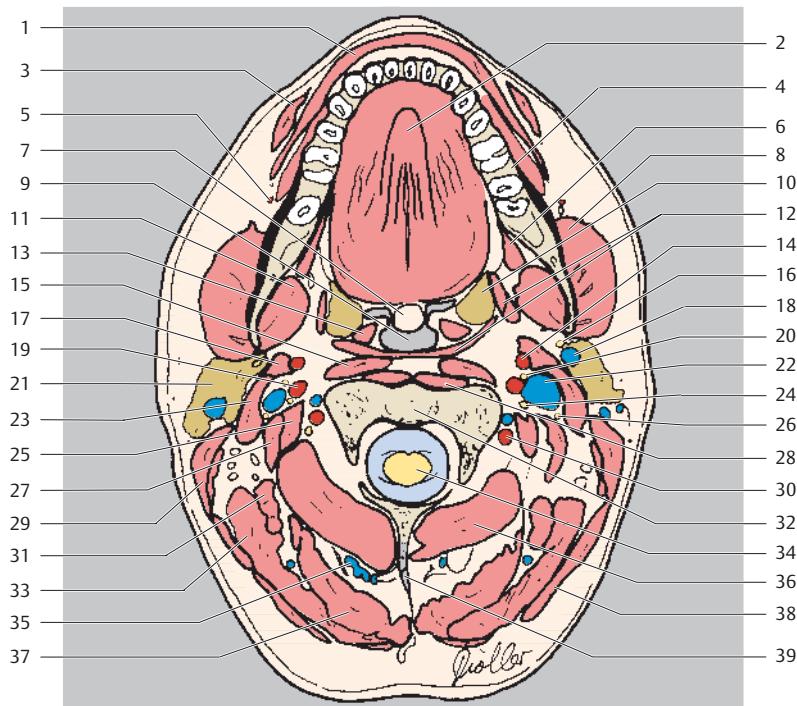
- 1 Upper lip
- 2 Incisors (1 and 2 left)
- 3 Orbicularis oris muscle

- 4 Canine tooth (3 left)
- 5 Levator anguli oris muscle
- 6 Premolar teeth (4 and 5 left)

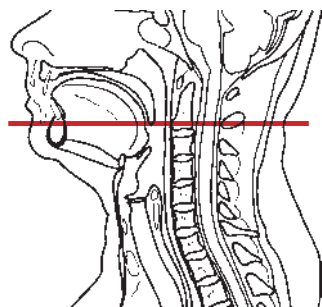


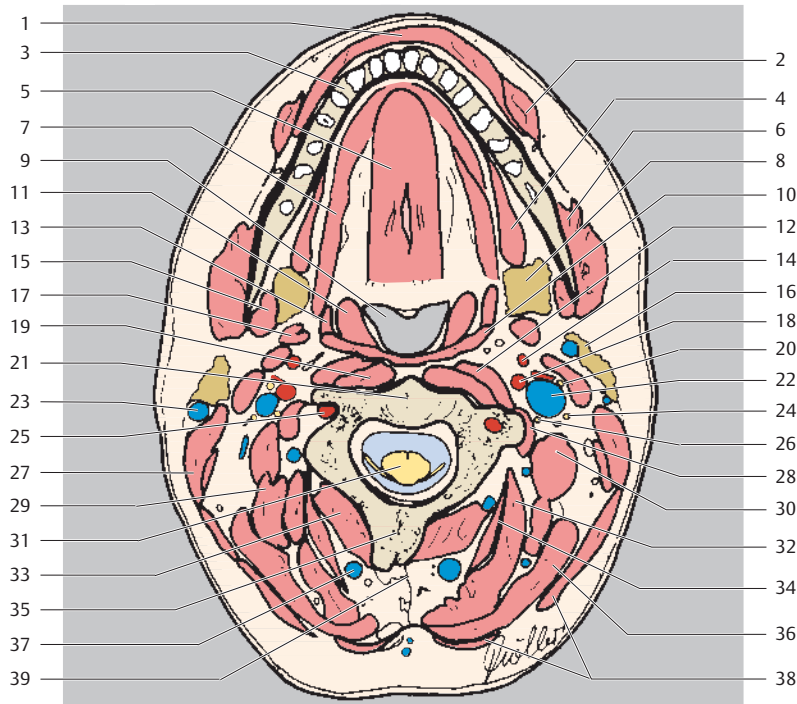
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|---|--|
| 7 Tongue | 25 Internal carotid artery |
| 8 Molar teeth (6,7 and 8) | 26 Hypoglossus nerve (XII) |
| 9 Buccinator muscle | 27 Atlas (anterior arch) |
| 10 Facial artery | 28 Vagus nerve (X) |
| 11 Uvula | 29 Transverse process and foramen transversarium |
| 12 Masseter muscle | 30 Accessory nerve (XI) |
| 13 Tensor veli palatini muscle | 31 Digastric muscle (posterior belly) |
| 14 Ramus of mandible with alveolar canal | 32 Atlas, lateral mass |
| 15 Superior constrictor muscle of pharynx | 33 Sternocleidomastoid muscle |
| 16 Medial pterygoid muscle | 34 Dens of axis |
| 17 Longus capitis muscle | 35 Spinal cord |
| 18 Oropharynx | 36 Transverse ligament of atlas |
| 19 Styloglossus muscle | 37 Deep cervical veins |
| 20 Pharyngeal venous plexus | 38 Longissimus capitis muscle |
| 21 Stylopharyngeus muscle | 39 Trapezius muscle |
| 22 Parotid gland and retromandibular vein | 40 Obliquus capitis inferior muscle |
| 23 Maxillary artery | 41 Semispinalis capitis muscle |
| 24 Glossopharyngeal nerve (IX) | 42 Splenius capitis muscle |
| | 43 Nuchal ligament |



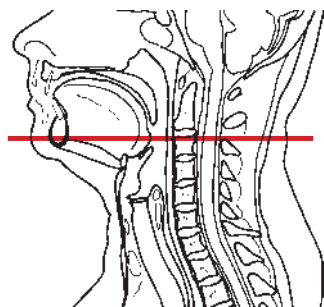


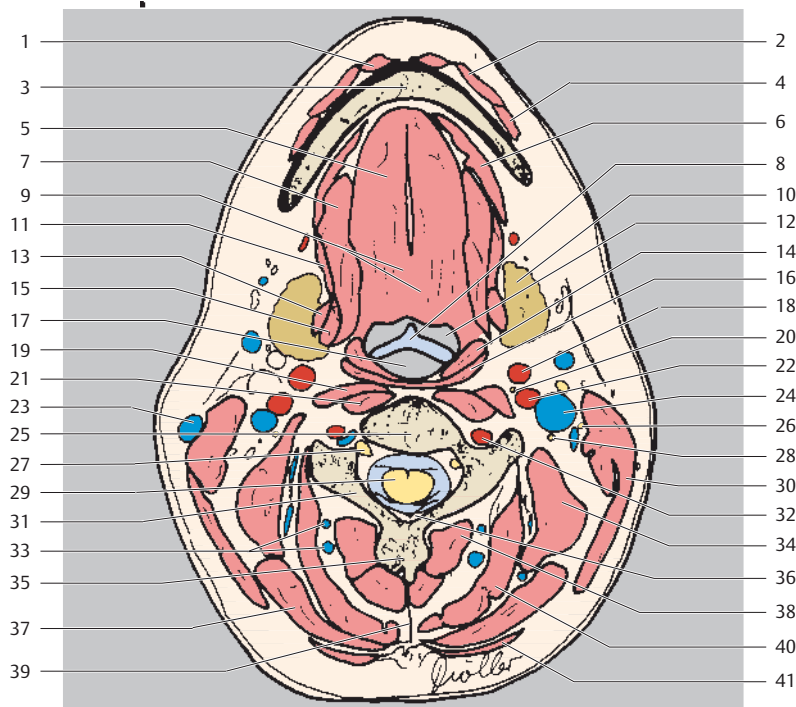
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|---|---------------------------------------|
| 1 Orbicularis oris muscle | 20 Hypoglossus nerve (XII) |
| 2 Tongue (genioglossus muscle) | 21 Parotid gland |
| 3 Levator anguli oris muscle | 22 Internal jugular vein |
| 4 Mandible | 23 Digastric muscle (posterior belly) |
| 5 Facial artery | 24 Vagus nerve (X) |
| 6 Hypoglossus muscle | 25 Longissimus cervicis muscle |
| 7 Uvula | 26 Accessory nerve (XI) |
| 8 Masseter muscle | 27 Levator scapulae muscle |
| 9 Oropharynx | 28 Longus colli muscle |
| 10 Palatine tonsil | 29 Sternocleidomastoid muscle |
| 11 Medial pterygoid muscle | 30 Vertebral artery |
| 12 Superior constrictor muscle of pharynx | 31 Longissimus capitis muscle |
| 13 Palatopharyngeus muscle | 32 Axis, body |
| 14 External carotid artery | 33 Splenius capitis muscle |
| 15 Longus capitis muscle | 34 Spinal cord |
| 16 Facial nerve (VII) | 35 Deep cervical veins |
| 17 Stylohyoid muscle, styloglossus muscle | 36 Obliquus capitis inferior muscle |
| 18 Retromandibular vein | 37 Semispinalis capitis muscle |
| 19 Internal carotid artery | 38 Trapezius muscle |
| | 39 Nuchal ligament |



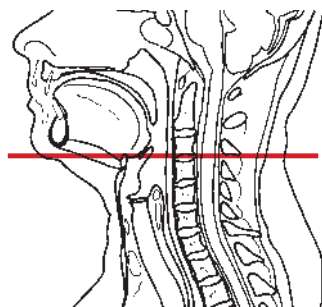


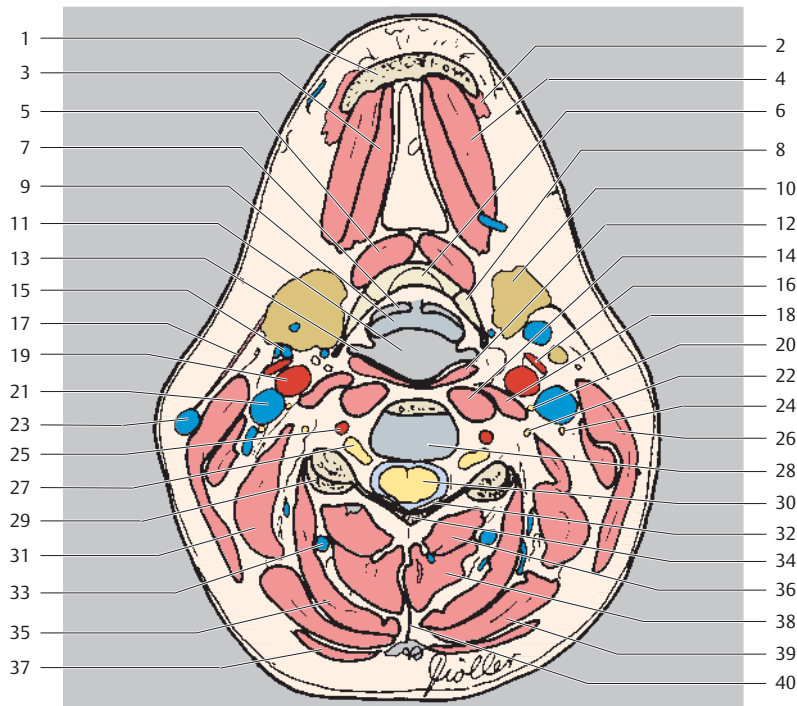
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|--|--|
| 1 Orbicularis oris muscle | 20 Hypoglossal nerve (XII) |
| 2 Depressor anguli oris muscle | 21 Axis, body |
| 3 Mandible | 22 Internal jugular vein |
| 4 Mylohyoid muscle | 23 Retromandibular vein |
| 5 Genioglossus muscle | 24 Accessory nerve (XI) |
| 6 Masseter muscle | 25 Vertebral artery |
| 7 Hyoglossus muscle | 26 Vagus nerve (X) |
| 8 Submandibular gland | 27 Sternocleidomastoid muscle |
| 9 Oropharynx | 28 Longissimus cervicis muscle |
| 10 Superior constrictor muscle of pharynx | 29 Longissimus capitis muscle |
| 11 Palatopharyngeus muscle | 30 Levator scapulae muscle |
| 12 Longus capitis muscle | 31 Spinal cord |
| 13 Middle constrictor muscle of pharynx | 32 Semispinalis capitis muscle |
| 14 External carotid artery | 33 Spinalis capitis muscle and multifidus muscle |
| 15 Medial pterygoid muscle | 34 Semispinalis cervicis muscle |
| 16 Parotid gland | 35 Spinous process of vertebra |
| 17 Styloglossus muscle and stylohyoid muscle | 36 Splenius capitis muscle |
| 18 Internal carotid artery | 37 Deep cervical veins |
| 19 Longus colli muscle | 38 Trapezius muscle |
| | 39 Nuchal ligament |



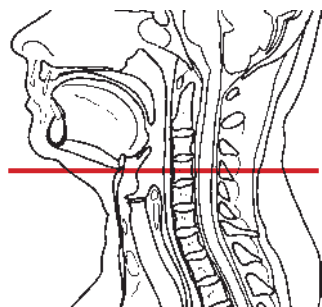


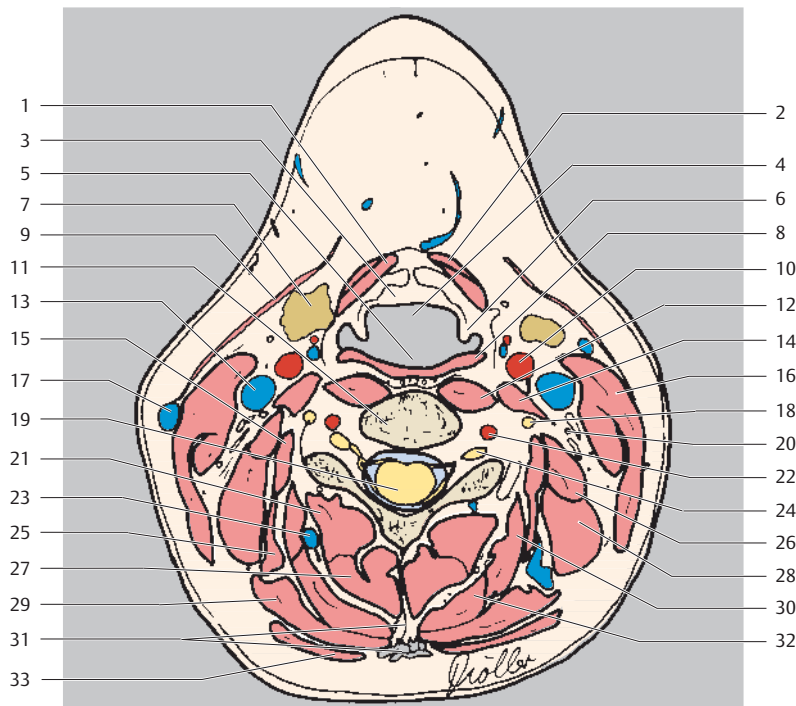
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|---|--------------------------------|
| 1 Mentalis muscle | 21 Longus colli muscle |
| 2 Depressor anguli oris muscle | 22 Internal carotid artery |
| 3 Mandible | 23 External jugular vein |
| 4 Platysma | 24 Internal jugular vein |
| 5 Genioglossus muscle | 25 Cervical vertebra C3 (body) |
| 6 Mylohyoid muscle | 26 Accessory nerve (XI) |
| 7 Hyoglossus muscle | 27 Spinal nerve root C4 |
| 8 Epiglottis | 28 Vagus nerve (X) |
| 9 Root of tongue | 29 Spinal cord |
| 10 Submandibular gland | 30 Sternocleidomastoid muscle |
| 11 Styloglossus muscle | 31 Posterior arch of C3 |
| 12 Oropharynx | 32 Vertebral artery |
| 13 Stylohyoid muscle | 33 Deep cervical veins |
| 14 Palatopharyngeus muscle | 34 Levator scapulae muscle |
| 15 Digastric muscle (posterior belly) | 35 Spinous process |
| 16 Middle constrictor muscle of pharynx | 36 Ligamentum flavum |
| 17 Hypopharynx | 37 Splenius capitis muscle |
| 18 External carotid artery | 38 Spinalis cervicis muscle |
| 19 Longus capitis muscle | 39 Nuchal ligament |
| 20 Superior laryngeal nerve (vagus) | 40 Semispinalis capitis muscle |
| | 41 Trapezius muscle |



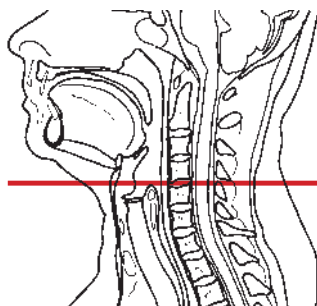


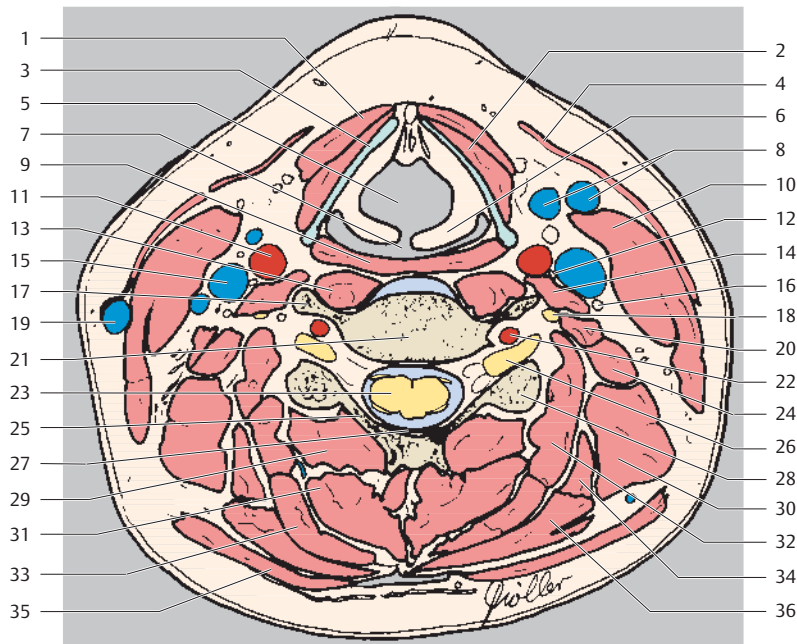
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|---|----------------------------------|
| 1 Mandible | 20 Vagus nerve (X) |
| 2 Depressor anguli oris muscle | 21 Internal jugular vein |
| 3 Mylohyoid muscle | 22 Spinal nerve (C3) |
| 4 Digastric muscle (anterior belly) | 23 External jugular vein |
| 5 Geniohyoid muscle | 24 Spinal nerve (C2) |
| 6 Hyoid bone (body) | 25 Vertebral artery |
| 7 Epiglottic vallecula | 26 Sternocleidomastoid muscle |
| 8 Hyoid bone (greater horn) | 27 Spinal nerve root (C4) |
| 9 Epiglottis | 28 Intervertebral space (C3/C4) |
| 10 Submandibular gland | 29 Zygapophysial joint |
| 11 Hypopharynx | 30 Spinal cord |
| 12 Inferior constrictor muscle of pharynx | 31 Levator scapulae muscle |
| 13 Piriform recess | 32 Ligamentum flavum |
| 14 Longus colli muscle | 33 Deep cervical veins |
| 15 Retromandibular vein | 34 Posterior arch of C3 vertebra |
| 16 Superior thyroid artery | 35 Semispinalis capitis muscle |
| 17 Platysma | 36 Spinalis cervicis muscle |
| 18 Longus capitis muscle | 37 Trapezius muscle |
| 19 Common carotid artery (bifurcation) | 38 Semispinalis cervicis muscle |
| | 39 Splenius capitis muscle |
| | 40 Nuchal ligament |



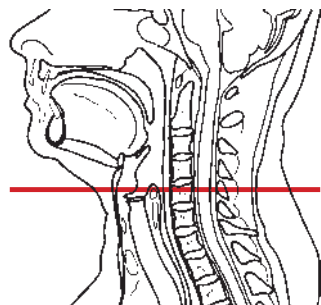


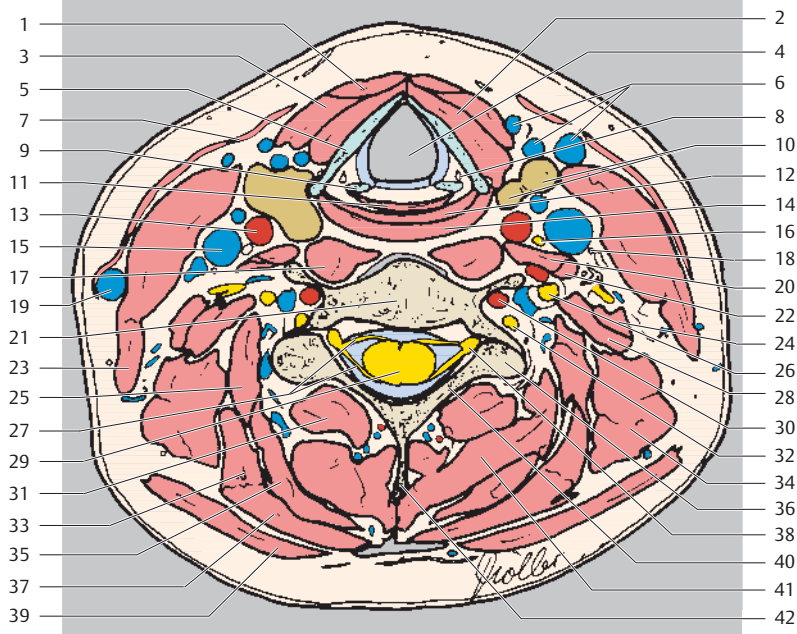
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|--|---------------------------------|
| 1 Thyrohyoid muscle | 17 External jugular vein |
| 2 Sternohyoid muscle | 18 Spinal nerve (C4) |
| 3 Epiglottis (cartilage) | 19 Spinal cord |
| 4 Laryngeal vestibule | 20 Spinal nerve (C3) |
| 5 Hypopharynx | 21 Spinalis cervicis muscle |
| 6 Aryepiglottic fold | 22 Vertebral artery |
| 7 Submandibular gland | 23 Deep cervical veins |
| 8 Inferior constrictor muscle of pharynx | 24 Spinal nerve root (C5) |
| 9 Platysma | 25 Longissimus cervicis muscle |
| 10 Common carotid artery | 26 Middle scalene muscle |
| 11 Cervical vertebra C4 (body) | 27 Semispinalis cervicis muscle |
| 12 Longus colli muscle | 28 Levator scapulae muscle |
| 13 Internal jugular vein | 29 Splenius capitis muscle |
| 14 Longus capitis muscle | 30 Splenius cervicis muscle |
| 15 Longissimus capitis muscle | 31 Nuchal ligament |
| 16 Sternocleidomastoid muscle | 32 Semispinalis capitis muscle |
| | 33 Trapezius muscle |



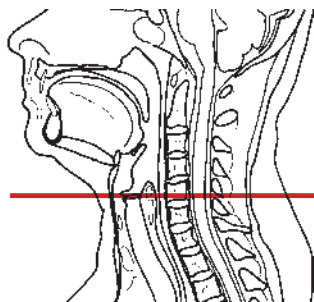
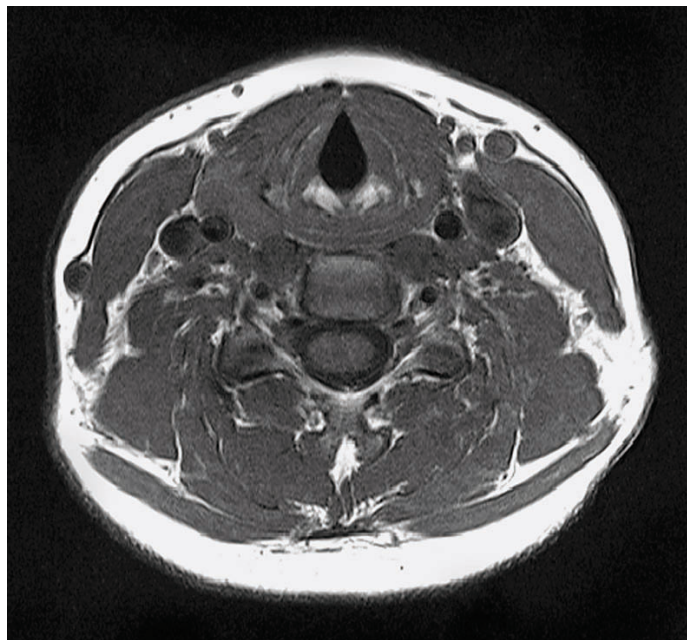


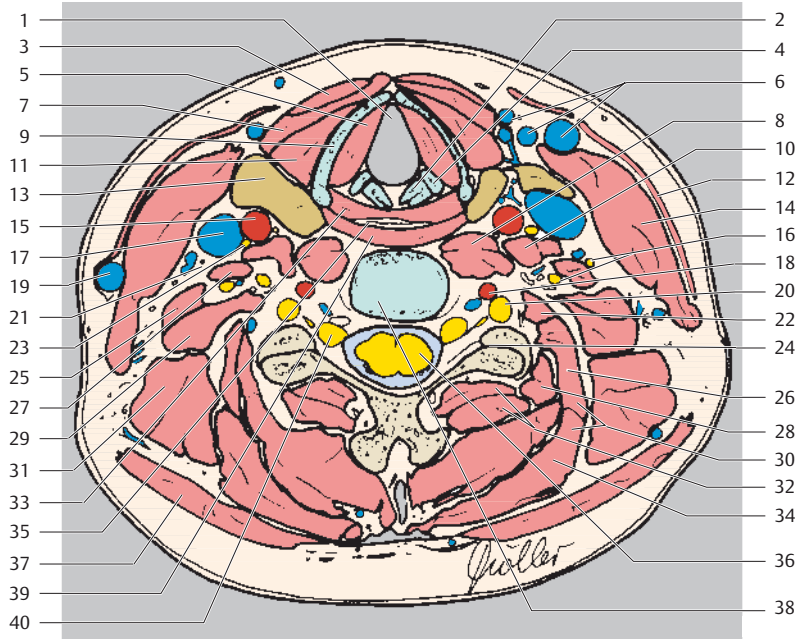
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|--|---|
| 1 Sternohyoid muscle | 19 External jugular vein |
| 2 Thyrohyoid muscle | 20 Middle scalene muscle |
| 3 Thyroid cartilage (lamina) | 21 Cervical vertebra C5 (body) |
| 4 Platysma | 22 Vertebral artery |
| 5 Laryngeal vestibule | 23 Spinal cord |
| 6 Aryepiglottic fold | 24 Posterior scalene muscle |
| 7 Hypopharynx | 25 Posterior arch of C6 vertebra |
| 8 Anterior jugular vein | 26 Spinal nerve root (C6) |
| 9 Inferior constrictor muscle of pharynx | 27 Ligamentum flavum |
| 10 Sternocleidomastoid muscle | 28 Inferior articular process of vertebra |
| 11 Common carotid artery | 29 Spinalis cervicis muscle and multifidus muscle |
| 12 Vagus nerve (X) | 30 Levator scapulae muscle |
| 13 Longus colli muscle | 31 Semispinalis cervicis muscle |
| 14 Longus capitis muscle | 32 Longissimus cervicis muscle |
| 15 Internal jugular vein | 33 Semispinalis capitis muscle |
| 16 Spinal nerve (C4) | 34 Splenius cervicis muscle |
| 17 Transverse process of C5 vertebra | 35 Trapezius muscle |
| 18 Spinal nerve (C5) | 36 Splenius capitis muscle |



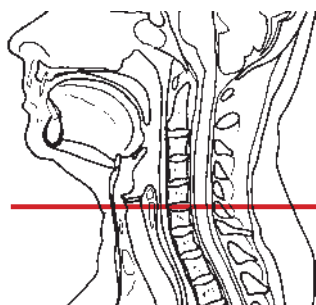
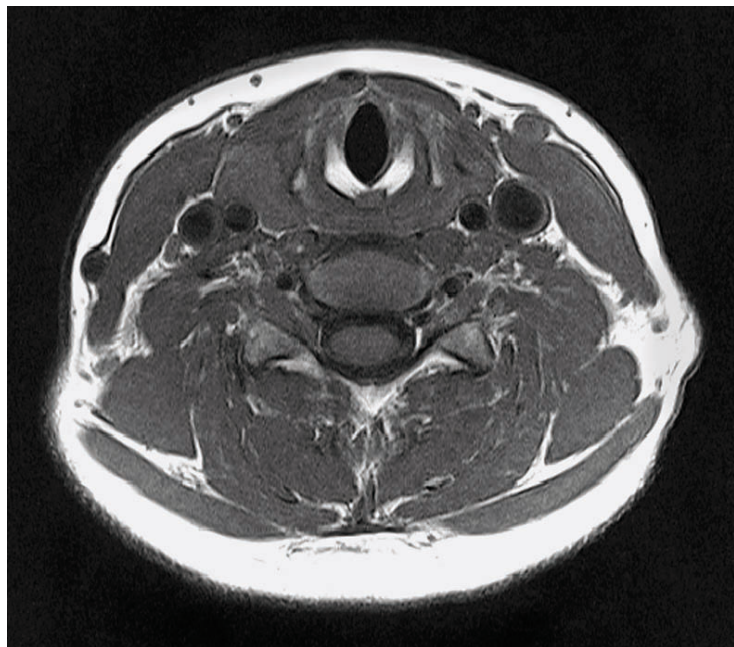


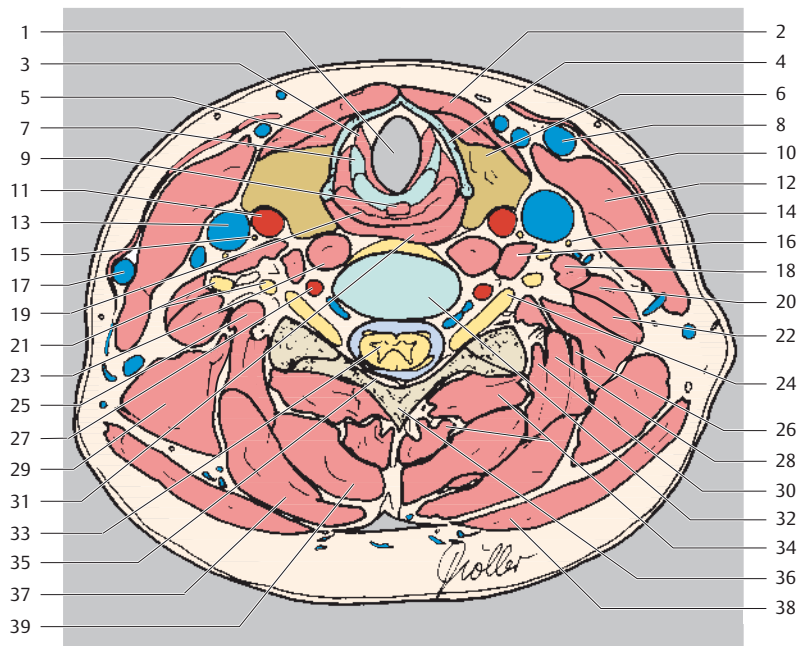
- | | |
|---|---|
| 1 Sternohyoid muscle | 22 Anterior scalene muscle |
| 2 Thyrohyoid muscle | 23 Sternocleidomastoid muscle |
| 3 Omohyoid muscle | 24 Posterior scalene muscle |
| 4 Larynx | 25 Longissimus cervicis muscle |
| 5 Thyroid cartilage (lamina) | 26 Spinal nerve (C4) |
| 6 Anterior jugular vein | 27 Anterior and posterior nerve roots |
| 7 Platysma | 28 Middle scalene muscle |
| 8 Piriform recess | 29 Spinal cord |
| 9 Arytenoid cartilage | 30 Vertebral artery |
| 10 Thyroid gland | 31 Spinalis cervicis muscle and multifidus muscle |
| 11 Cricoid cartilage | 32 Spinal nerve (C5) |
| 12 Hypopharynx | 33 Splenius cervicis muscle |
| 13 Common carotid artery | 34 Levator scapulae muscle |
| 14 Inferior constrictor muscle of pharynx | 35 Semispinalis capitis muscle |
| 15 Internal jugular vein | 36 Inferior articular process of vertebra |
| 16 Vagus nerve (X) | 37 Splenius capitis nerve |
| 17 Longus colli muscle | 38 Spinal nerve root (C6) |
| 18 Phrenic nerve | 39 Trapezius muscle |
| 19 External jugular vein | 40 Posterior arch of C6 vertebra |
| 20 Longus capitis muscle | 41 Semispinalis cervicis muscle |
| 21 Cervical vertebra C5 (body) | 42 Spinous process of C6 vertebra |



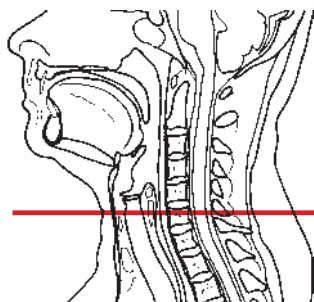
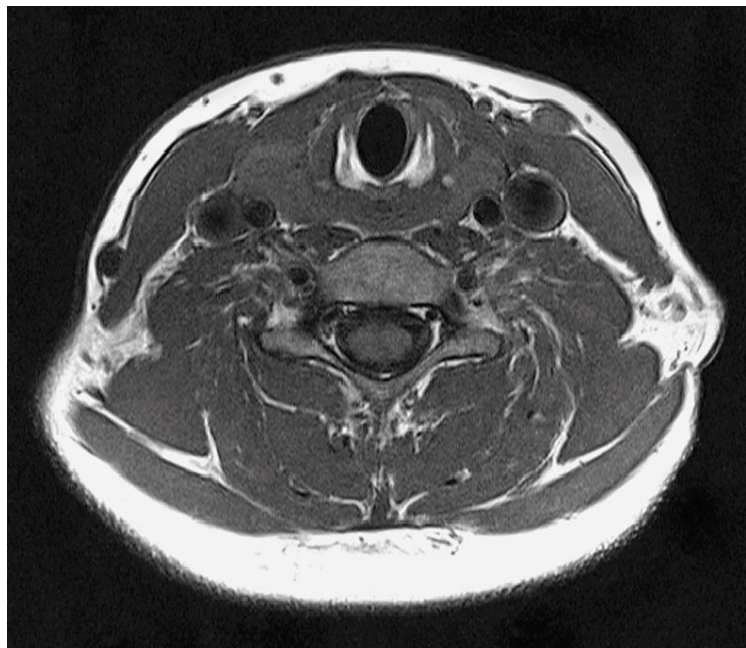


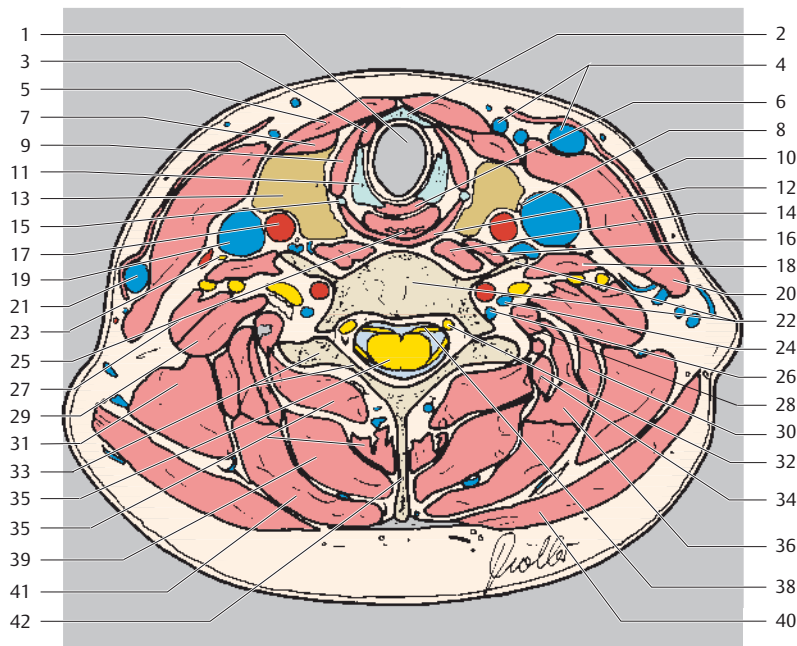
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|-------------------------------|---|
| 1 Glottis | 22 Longissimus capitis muscle |
| 2 Cricoid cartilage | 23 Vagus nerve (X) |
| 3 Sternohyoid muscle | 24 Zygapophysial joint |
| 4 Arytenoid cartilage | 25 Middle scalene muscle |
| 5 Vocalis muscle | 26 Longissimus cervicis muscle |
| 6 Anterior jugular vein | 27 Anterior scalene muscle |
| 7 Omohyoid muscle | 28 Semispinalis capitis muscle |
| 8 Longus colli muscle | 29 Posterior scalene muscle |
| 9 Thyroid cartilage (lamina) | 30 Splenius cervicis muscle and splenius capitis muscle |
| 10 Longus capitis muscle | 31 Levator scapulae muscle |
| 11 Thyrohyoid muscle | 32 Spinalis cervicis muscle and multifidus muscle |
| 12 Platysma | 33 Posterior cricoarytenoid muscle |
| 13 Thyroid gland | 34 Semispinalis cervicis muscle |
| 14 Sternocleidomastoid muscle | 35 Hypopharynx/esophagus |
| 15 Common carotid artery | 36 Spinal cord |
| 16 Spinal nerves (C4 and C5) | 37 Trapezius muscle |
| 17 Internal jugular vein | 38 Cervical vertebra C5 |
| 18 Vertebral artery | 39 Inferior constrictor muscle of pharynx |
| 19 External jugular vein | 40 Nerve root (C7) |
| 20 Spinal nerve (C6) | |
| 21 Phrenic nerve | |



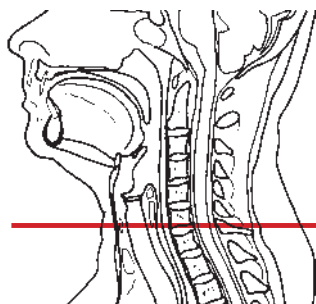
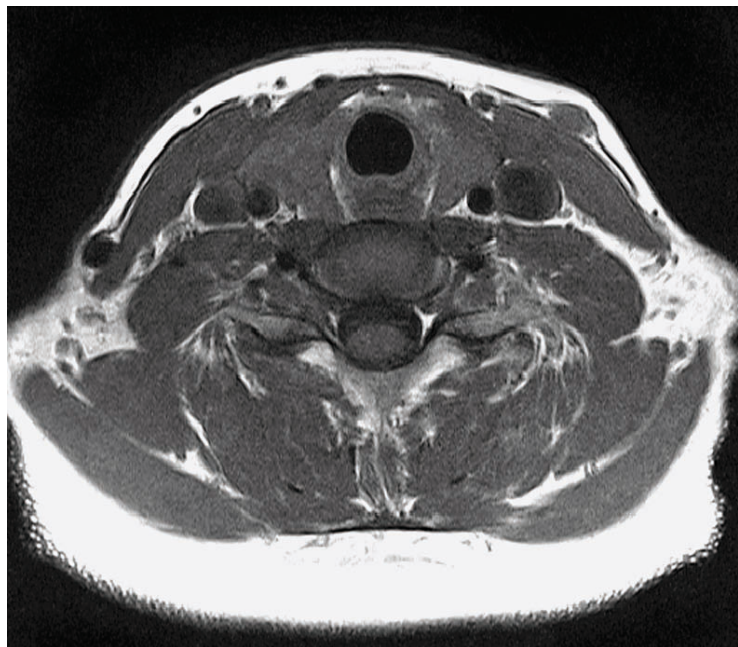


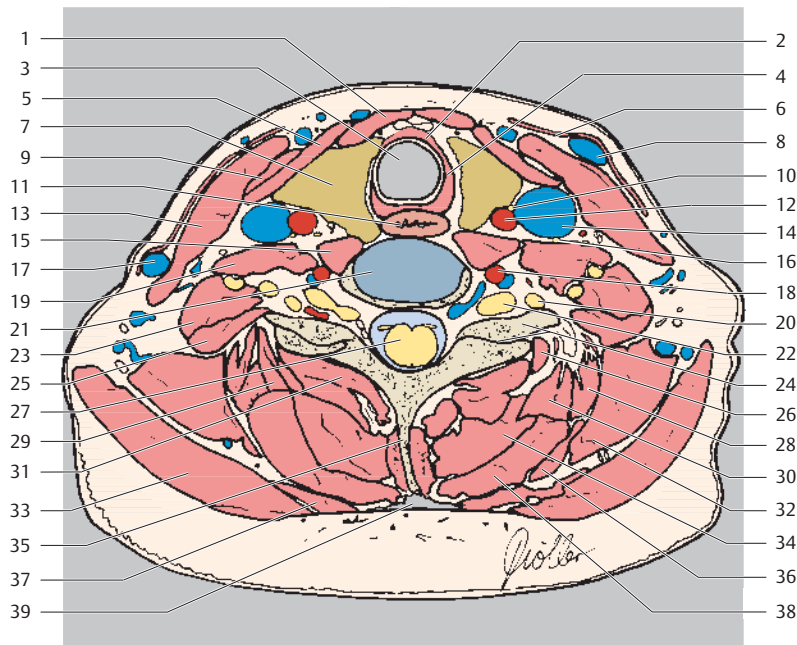
- | | |
|-------------------------------|---|
| 1 Larynx | 21 Spinal nerves (C4 and C5) |
| 2 Sternohyoid muscle | 22 Posterior scalene muscle |
| 3 Vocalis muscle (vocal cord) | 23 Longus colli muscle |
| 4 Thyroid cartilage (lamina) | 24 Spinal nerve root (C6) |
| 5 Thyrohyoid muscle | 25 Longissimus capitis muscle |
| 6 Thyroid gland | 26 Longissimus cervicis muscle |
| 7 Arytenoid cartilage | 27 Vertebral artery |
| 8 Anterior jugular vein | 28 Splenius cervicis muscle |
| 9 Transverse arytenoid muscle | 29 Levator scapulae muscle |
| 10 Platysma | 30 Semispinalis capitis muscle |
| 11 Common carotid artery | 31 Inferior constrictor muscle of pharynx |
| 12 Sternocleidomastoid muscle | 32 Intervertebral space (C5/C6) |
| 13 Internal jugular vein | 33 Spinal cord |
| 14 Phrenic muscle | 34 Spinalis cervicis muscle and multifidus muscle |
| 15 Vagus nerve (X) | 35 Ligamentum flavum |
| 16 Longus capitis muscle | 36 Posterior vertebral arch |
| 17 External jugular vein | 37 Splenius capitis muscle |
| 18 Anterior scalene muscle | 38 Trapezius muscle |
| 19 Hypopharynx/esophagus | 39 Semispinalis cervicis muscle |
| 20 Middle scalene muscle | |



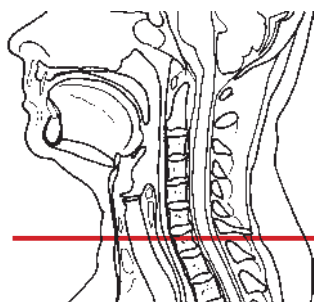
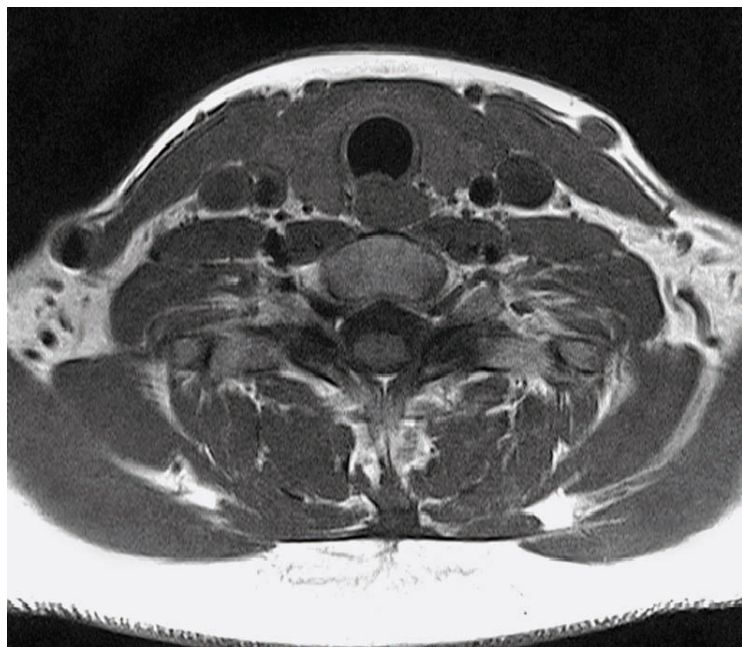


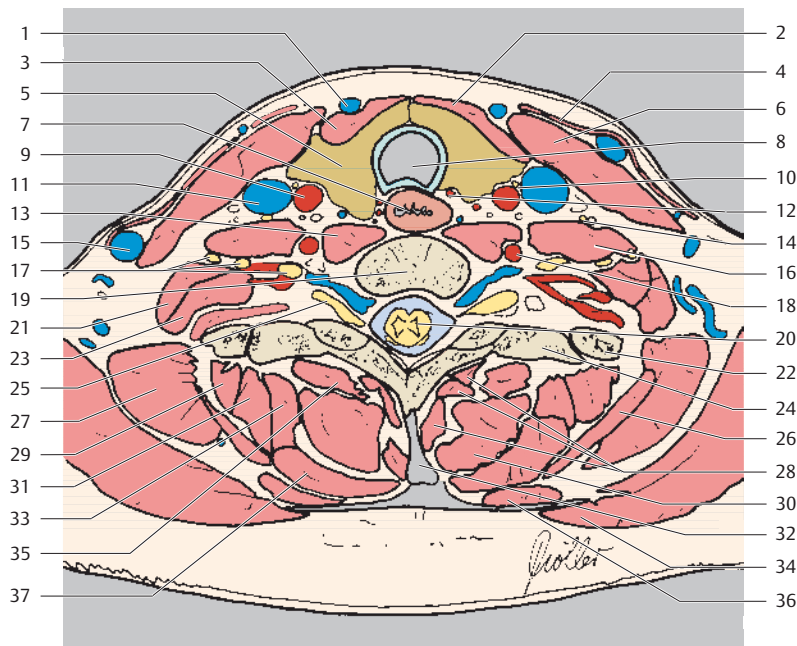
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|---|--|
| 1 Larynx | 23 Phrenic nerve |
| 2 Thyroid cartilage | 24 Spinal nerves (C4, C5, and C6) |
| 3 Thyro-arytenoid muscle | 25 Esophagus |
| 4 Anterior jugular vein | 26 Vertebral artery |
| 5 Sternohyoid muscle | 27 Middle scalene muscle |
| 6 Transverse arytenoid muscle | 28 Longissimus capitis muscle |
| 7 Thyrohyoid muscle | 29 Posterior scalene muscle |
| 8 Vagus nerve (X) | 30 Longissimus cervicis muscle |
| 9 Sternothyroid muscle | 31 Levator scapulae muscle |
| 10 Platysma | 32 Spinal nerve root (C7) |
| 11 Cricoid cartilage (lamina) | 33 Articular process and posterior arch of C7 vertebra |
| 12 Inferior constrictor muscle of pharynx | 34 Semispinalis capitis muscle |
| 13 Thyroid gland | 35 Spinal cord |
| 14 Longus colli muscle | 36 Splenius cervicis muscle |
| 15 Thyroid cartilage (inferior horn) | 37 Spinalis cervicis muscle and multifidus muscle |
| 16 Longus capitis muscle | 38 Anterior and posterior spinal nerve roots (C8) |
| 17 Common carotid artery | 39 Semispinalis cervicis muscle |
| 18 Anterior scalene muscle | 40 Trapezius muscle |
| 19 Internal jugular vein | 41 Splenius capitis muscle |
| 20 Sternocleidomastoid muscle | 42 Spinous process of vertebra |
| 21 External jugular vein | |
| 22 Cervical vertebra (C6) | |



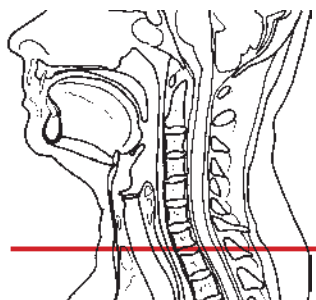
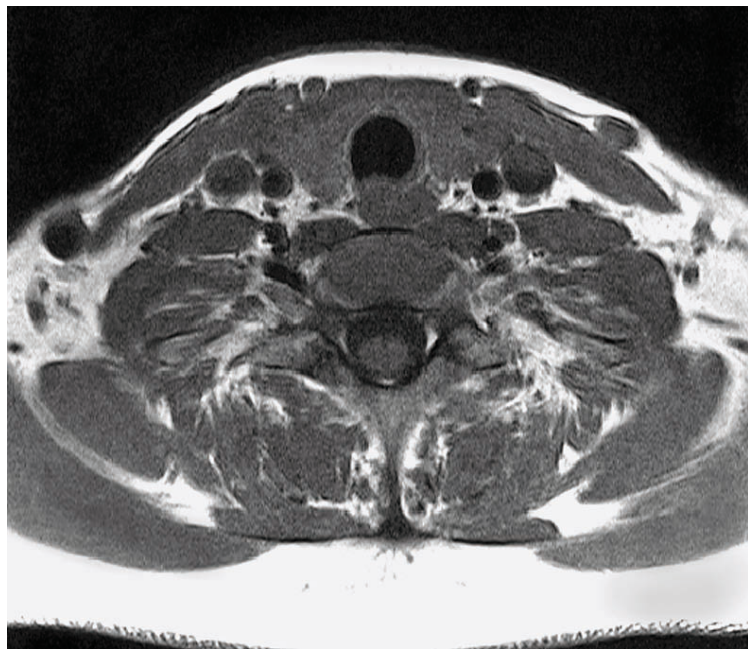


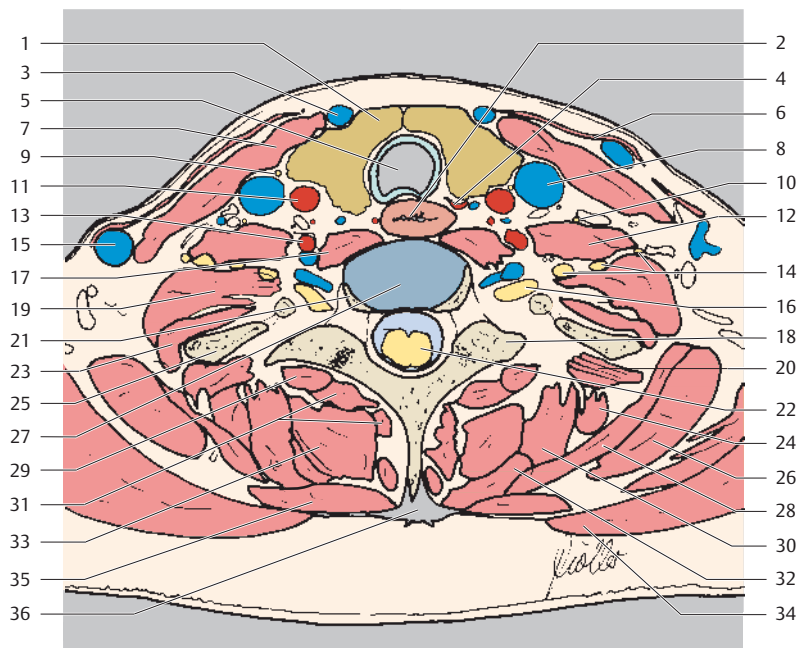
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|-----------------------------------|---|
| 1 Sternohyoid muscle | 21 Intervertebral space (C6/C7) |
| 2 Cricoid cartilage (arch) | 22 Spinal nerve root (C7) |
| 3 Trachea | 23 Middle scalene muscle |
| 4 Cricothyroid muscle | 24 Zygapophysial joint (C6/C7) |
| 5 Sternothyroid muscle | 25 Posterior scalene muscle |
| 6 Platysma | 26 Longissimus capitis muscle |
| 7 Thyroid gland | 27 Spinal cord |
| 8 Anterior jugular vein | 28 Longissimus cervicis muscle |
| 9 Omohyoid muscle | 29 Semispinalis capitis muscle |
| 10 Vagus nerve (X) | 30 Splenius cervicis muscle |
| 11 Esophagus | 31 Spinalis cervicis muscle and multifidus muscle |
| 12 Common carotid artery | 32 Levator scapulae muscle |
| 13 Sternocleidomastoid muscle | 33 Trapezius muscle |
| 14 Internal jugular vein | 34 Semispinalis cervicis muscle |
| 15 Longus colli muscle | 35 Spinous process of vertebra |
| 16 Phrenic muscle | 36 Serratus posterior superior muscle |
| 17 External jugular vein | 37 Rhomboid minor muscle |
| 18 Vertebral artery | 38 Splenius capitis muscle |
| 19 Anterior scalene muscle | 39 Nuchal ligament |
| 20 Spinal nerves (C4, C5, and C6) | |



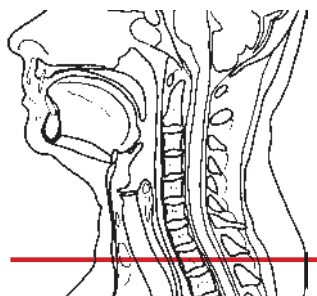
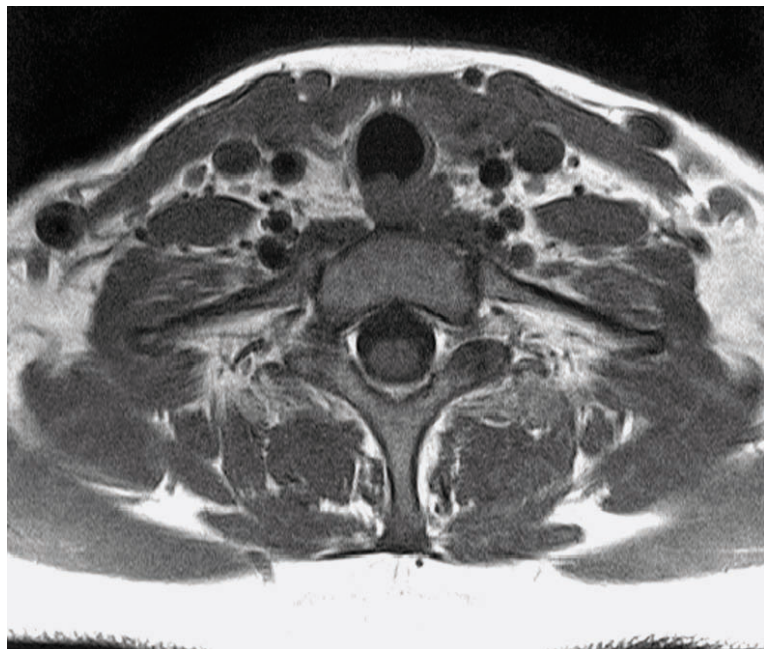


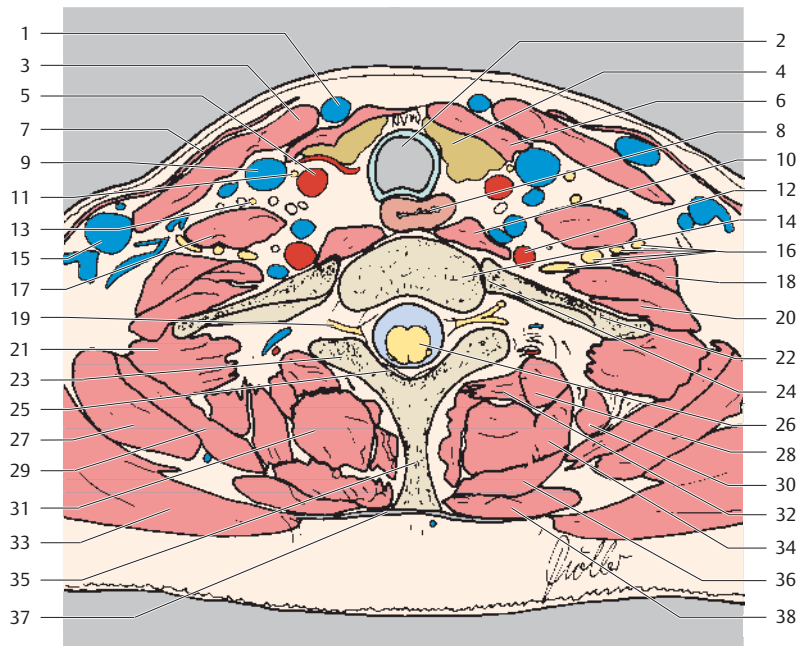
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|-----------------------------------|---|
| 1 Anterior jugular vein | 20 Spinal cord |
| 2 Sternohyoid muscle | 21 Middle scalene muscle |
| 3 Sternothyroid muscle | 22 First rib |
| 4 Platysma | 23 Posterior scalene muscle |
| 5 Thyroid gland | 24 Transverse process of vertebra |
| 6 Sternocleidomastoid muscle | 25 Spinal nerve root (C8) |
| 7 Esophagus | 26 Serratus posterior superior muscle |
| 8 Trachea | 27 Levator scapulae muscle |
| 9 Common carotid artery | 28 Spinalis cervicis muscle and multifidus muscle |
| 10 Vagus nerve (X) | 29 Iliocostalis cervicis muscle |
| 11 Internal jugular vein | 30 Semispinalis cervicis muscle |
| 12 Inferior thyroid artery | 31 Longissimus cervicis muscle |
| 13 Longus colli muscle | 32 Interspinous ligament |
| 14 Phrenic nerve | 33 Splenius cervicis muscle |
| 15 External jugular vein | 34 Trapezius muscle |
| 16 Anterior scalene muscle | 35 Semispinalis capitis muscle |
| 17 Spinal nerves (C5, C6, and C7) | 36 Rhomboid minor muscle |
| 18 Vertebral artery | 37 Splenius capitis muscle |
| 19 Cervical vertebra (C7) | |



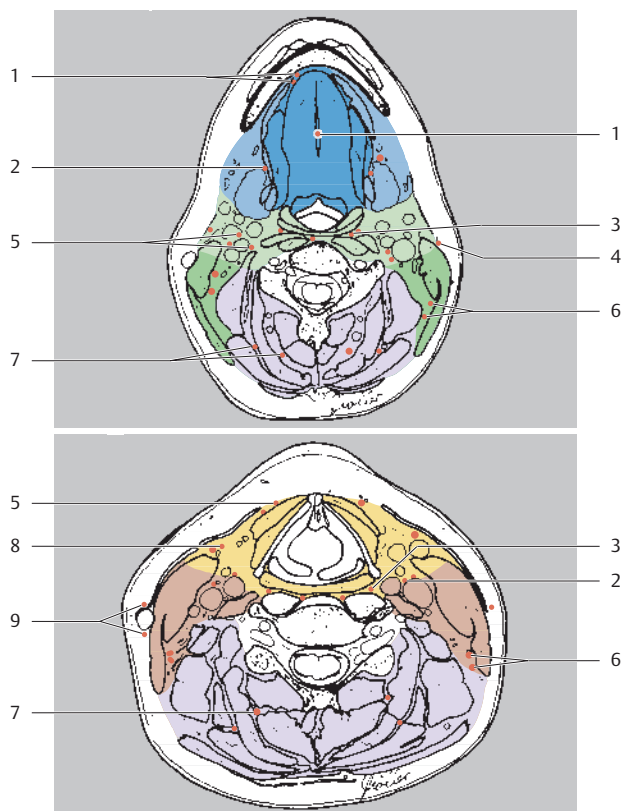


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|--------------------------------------|---|
| 1 Thyroid gland | 20 Intercostal muscles |
| 2 Esophagus | 21 Superior posterior margin of T1 vertebra |
| 3 Anterior jugular vein | 22 Spinal cord |
| 4 Inferior thyroid vein | 23 Posterior scalene muscle |
| 5 Trachea | 24 Iliocostalis cervicis muscle |
| 6 Platysma | 25 First rib |
| 7 Sternocleidomastoid muscle | 26 Levator scapulae muscle |
| 8 Internal jugular vein | 27 Intervertebral space (C7/T1) |
| 9 Vagus nerve (X) | 28 Serratus posterior superior muscle |
| 10 Phrenic nerve | 29 Semispinalis capitis muscle |
| 11 Common carotid artery | 30 Splenius cervicis muscle |
| 12 Anterior scalene muscle | 31 Spinalis cervicis muscle and multifidus muscle |
| 13 Vertebral artery | 32 Splenius capitis muscle |
| 14 Spinal nerves (C5, C6, and C7) | 33 Semispinalis cervicis muscle |
| 15 External jugular vein | 34 Trapezius muscle |
| 16 Spinal nerve root (C8) | 35 Rhomboid minor muscle |
| 17 Longus colli muscle | 36 Interspinous ligament |
| 18 Transverse process of T1 vertebra | |
| 19 Middle scalene muscle | |





- | | |
|-------------------------------|---|
| 1 Anterior jugular vein | 21 Intercostal muscles |
| 2 Trachea | 22 First rib |
| 3 Sternocleidomastoid muscle | 23 Transverse process of T1 vertebra |
| 4 Thyroid gland | 24 Costovertebral joint |
| 5 Common carotid artery | 25 Ligamentum flavum |
| 6 Sternohyoid muscle | 26 Spinal cord |
| 7 Platysma | 27 Levator scapulae muscle |
| 8 Esophagus | 28 Semispinalis capitis muscle |
| 9 Internal jugular vein | 29 Serratus posterior superior muscle |
| 10 Longus colli muscle | 30 Iliocostalis cervicis muscle |
| 11 Vagus nerve (X) | 31 Semispinalis cervicis muscle |
| 12 Vertebral artery | 32 Spinalis cervicis muscle and multifidus muscle |
| 13 Phrenic nerve | 33 Trapezius muscle |
| 14 Vertebra (T1) | 34 Splenius cervicis muscle |
| 15 External jugular vein | 35 Spinous process of vertebra |
| 16 Cervical plexus (C5 to C8) | 36 Splenius capitis muscle |
| 17 Anterior scalene muscle | 37 Interspinous ligament |
| 18 Middle scalene muscle | 38 Rhomboid minor muscle |
| 19 Spinal nerve root (T1) | |
| 20 Posterior scalene muscle | |

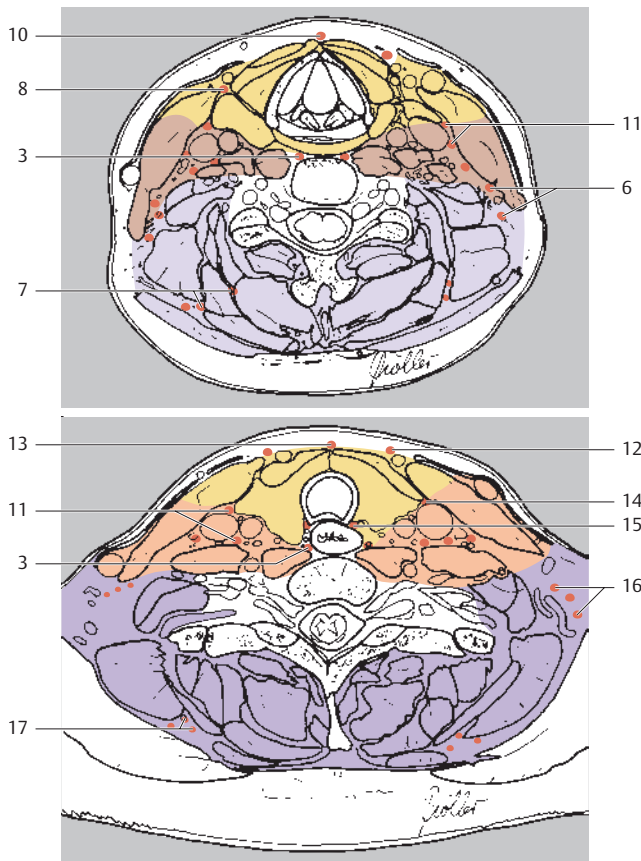


Cervical lymph nodes

- 1 Submental lymph nodes
- 2 Submandibular lymph nodes
- 3 Retropharyngeal lymph nodes
- 4 Preauricular lymph nodes
- 5 Superior jugular group of lymph nodes
- 6 Deep cervical lymph nodes
- 7 Nuchal lymph nodes
- 8 Anterior jugular lymph nodes
- 9 Superficial cervical lymph nodes

Lymph nodes (classified according to levels)

- Level 1a (submental lymph nodes between digastric muscles)
- Level 1b (submandibular lymph nodes)
- Level 2a (lymph nodes anterior, medial, or lateral to the internal jugular vein)
- Level 2b (Lymph nodes dorsal to the internal jugular vein and separated from the vein by a lamella of fat)
- Level 3 (lymph nodes along the jugular vein)
- Level 5a (lymph nodes in the posterior triangle, upper level = above arch of cricoid cartilage)
- Level 6 (upper visceral lymph nodes: ventral between the carotid arteries)

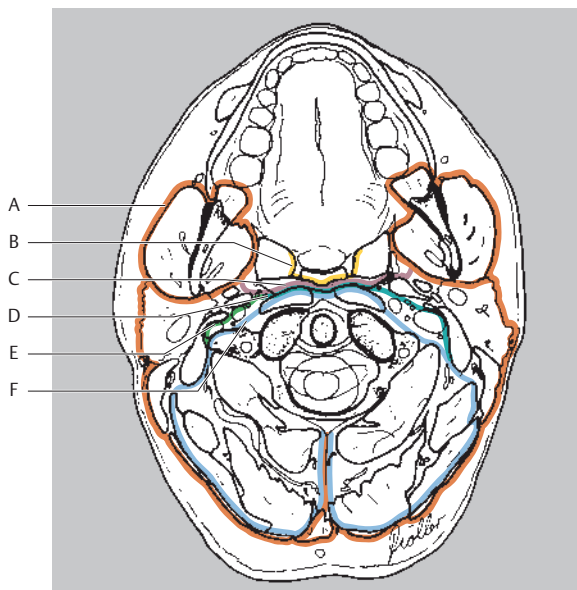
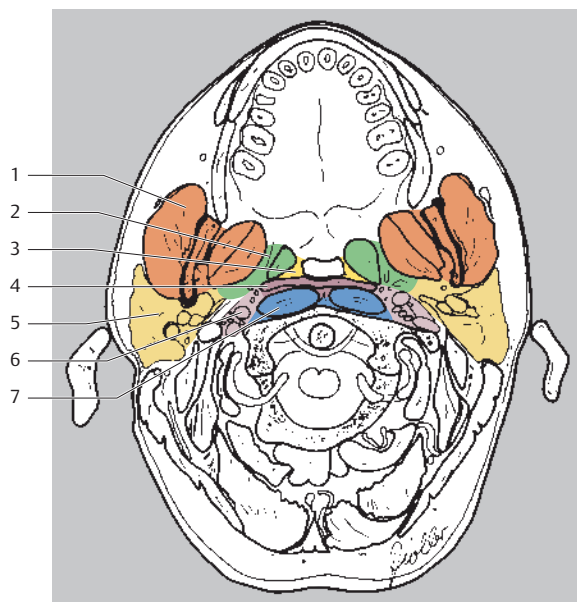


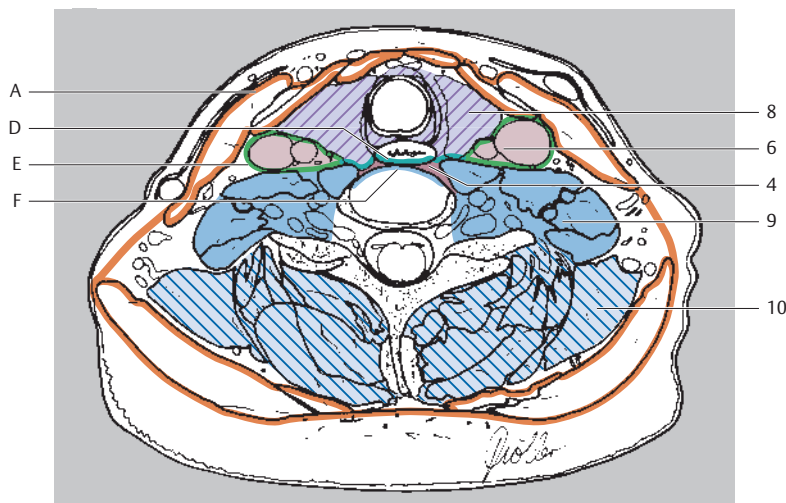
Cervical lymph nodes

- 3 Retropharyngeal lymph nodes
- 6 Deep cervical lymph nodes
- 7 Nuchal lymph nodes
- 8 Anterior jugular lymph nodes
- 10 Prelaryngeal lymph nodes
- 11 Inferior jugular group of lymph nodes
- 12 Anterior cervical lymph nodes
- 13 Pretracheal lymph nodes
- 14 Thyroid lymph nodes
- 15 Paratracheal lymph nodes
- 16 Supraclavicular lymph nodes
- 17 Superficial cervical lymph nodes

Lymph nodes (classified according to levels)

- Level 3 (lymph nodes along the jugular vein)
- Level 4 (lymph nodes of the lower jugular vein)
- Level 5a (lymph nodes of the posterior triangle, upper level = above arch of cricoid cartilage)
- Level 5b (lymph nodes of the posterior triangle, lower level = below arch of cricoid cartilage)
- Level 6 (upper visceral lymph nodes: ventral between the carotid arteries)



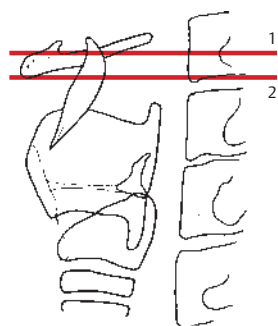
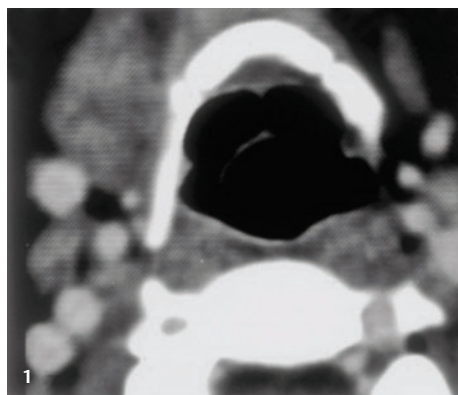


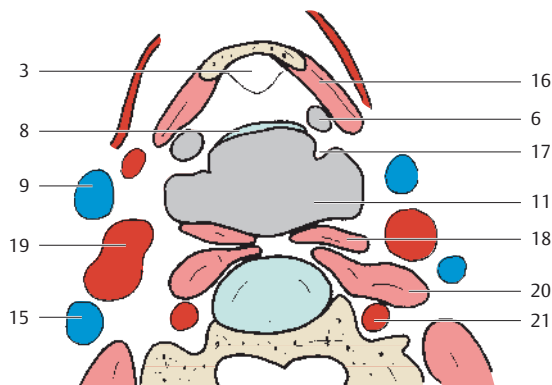
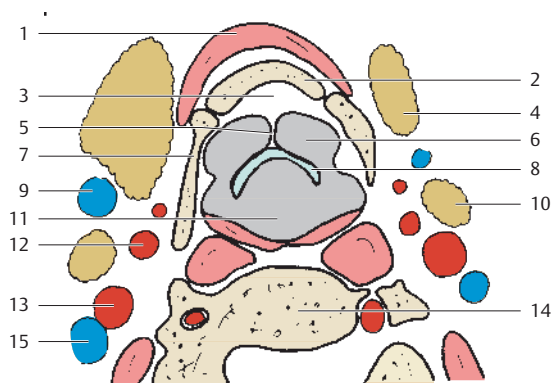
Cervical spaces

- 1 Masticatory space (chewing muscles, ramus and body of mandible, inferior alveolar nerve, maxillary artery, pterygoid plexus, lingual nerve)
- 2 Parapharyngeal space (trigeminal nerve, pharyngeal artery)
- 3 Superficial mucosal space (submucosal salivary glands, lymphatic tissue)
- 4 Retropharyngeal space
- 5 Parotid space (parotid gland, facial nerve, external carotid artery, retromandibular vein)
- 6 Carotid space (carotid artery, jugular vein, cranial nerves IX–XII, sympathetic trunk)
- 7 Prevertebral space (prevertebral and paraspinal muscles, phrenic nerve)
- 8 Visceral space (thyroid gland, paratracheal space)
- 9 Perivertebral space (prevertebral part)
- 10 Perivertebral space (paraspinal part)

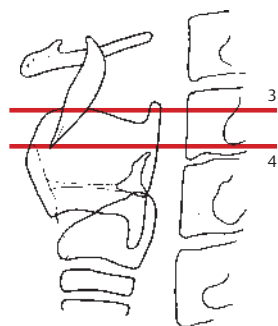
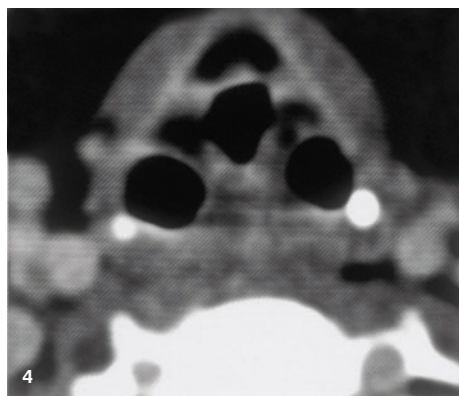
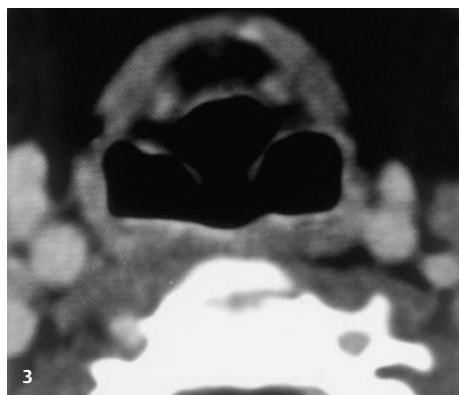
Cervical fasciae

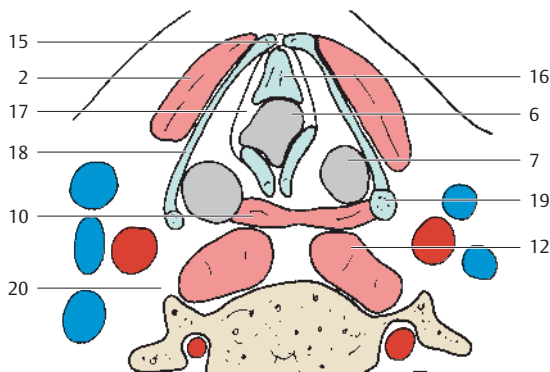
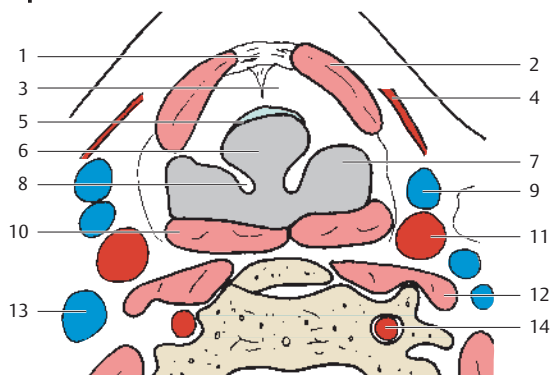
- A Superficial cervical fascia (fascia colli superficialis)
- B Pharyngobasilar fascia
- C Middle layer of deep cervical fascia (pretracheal layer)
- D Intercarotid fascia
- E Carotid sheath
- F Deep layer of deep cervical fascia (prevertebral layer)



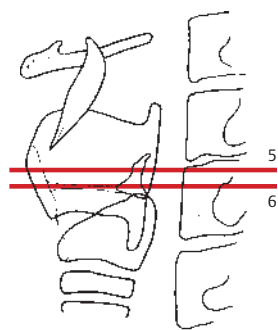
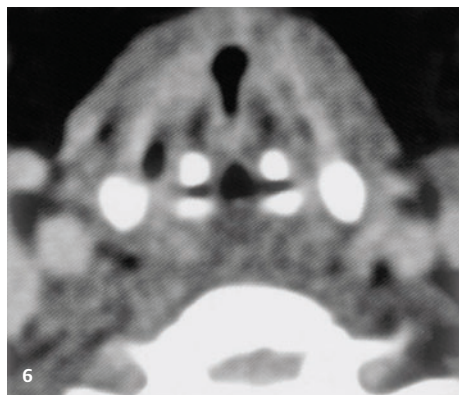
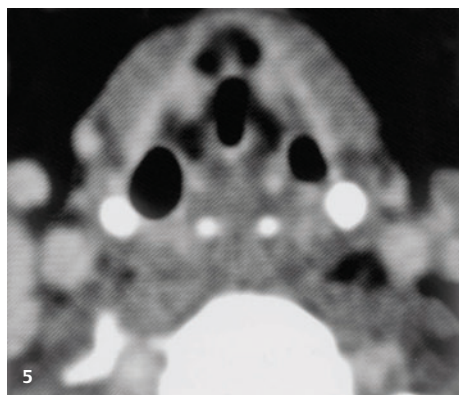


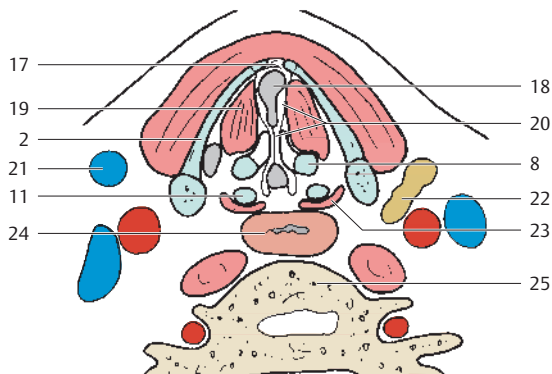
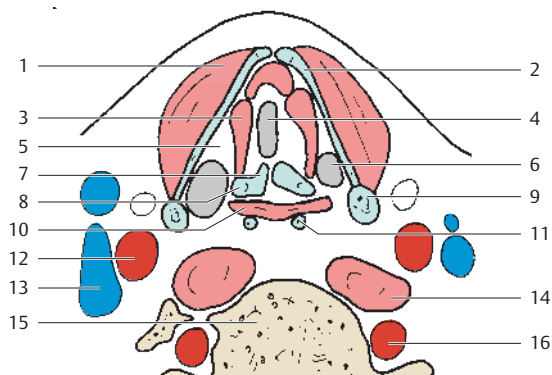
- | | |
|---|---|
| 1 Suprahyoid muscles (mylo- and geniohyoid muscles, hypoglossus muscle) | 12 External carotid artery |
| 2 Hyoid bone (body) | 13 Internal carotid artery |
| 3 Pre-epiglottic space | 14 Cervical vertebra (C3) |
| 4 Submandibular gland | 15 Internal jugular vein |
| 5 Glossoepiglottic fold | 16 Infrahyoid muscles (sternohyoid and sternothyroid muscles) |
| 6 Epiglottic vallecula | 17 Pharyngoepiglottic fold |
| 7 Hyoid bone (greater horn) | 18 Inferior constrictor muscle of pharynx |
| 8 Epiglottis | 19 Carotid bifurcation |
| 9 Anterior jugular vein | 20 Longus colli muscle |
| 10 Parotid gland | 21 Vertebral artery |
| 11 Hypopharynx | |



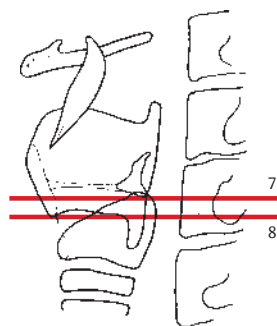
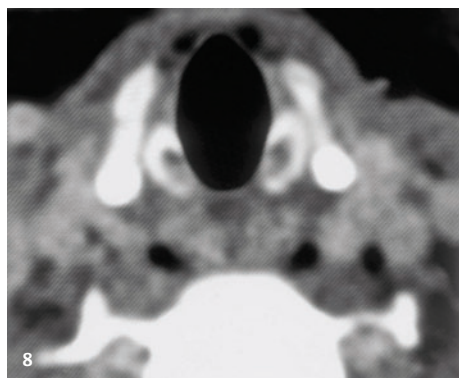
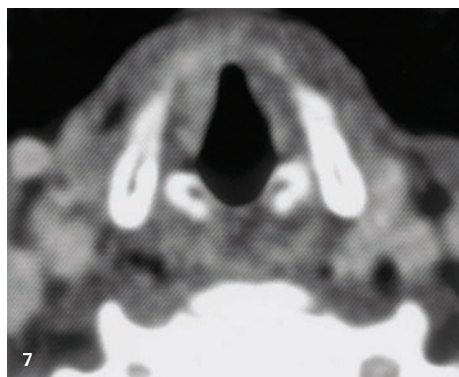


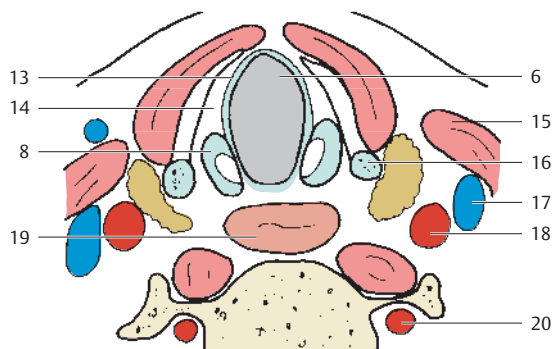
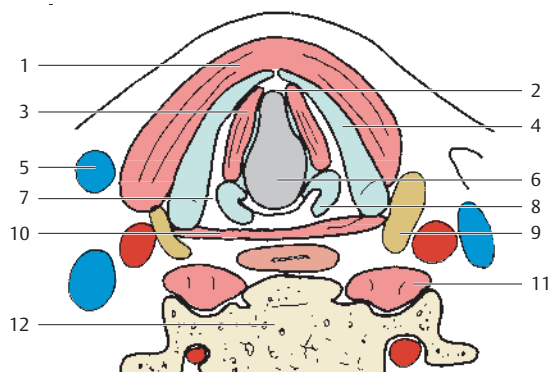
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|--|---|
| 1 Thyrohyoid membrane | 10 Inferior constrictor muscle of pharynx |
| 2 Infrahyoid muscles
(sternothyroid, omohyoid,
thyrohyoid) | 11 Common carotid artery |
| 3 Pre-epiglottic space | 12 Longus colli muscle |
| 4 Platysma | 13 Internal jugular vein |
| 5 Epiglottis | 14 Vertebral artery |
| 6 Larynx | 15 Superior thyroid notch |
| 7 Piriform recess | 16 Stalk of epiglottis |
| 8 Aryepiglottic fold | 17 Vestibular folds |
| 9 Anterior jugular vein | 18 Thyroid cartilage (lamina) |
| | 19 Thyroid cartilage (superior horn) |
| | 20 Body of cervical vertebra (C4) |



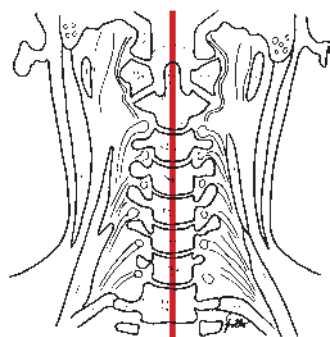
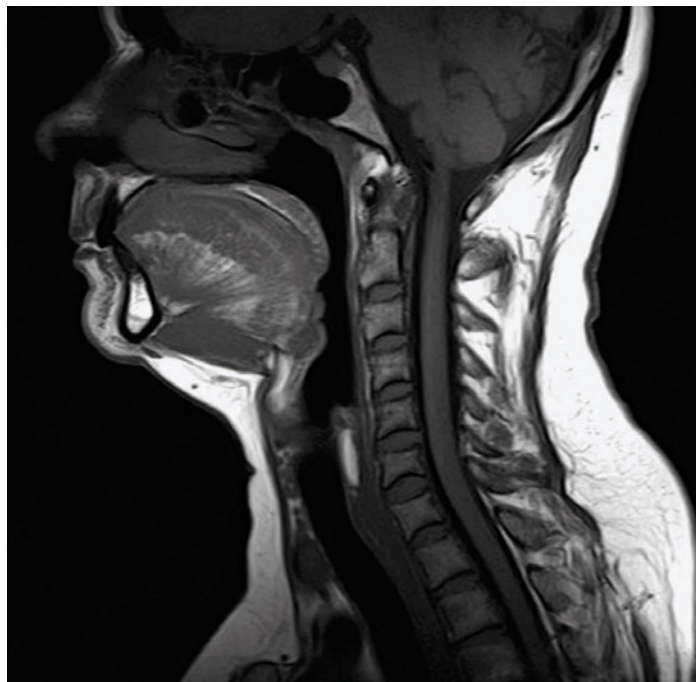


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|---|---------------------------------|
| 1 Infrahyoid muscles (sternothyroid, omohyoid and thyrohyoid muscles) | 12 Common carotid artery |
| 2 Thyroid cartilage | 13 Internal jugular vein |
| 3 Thyro-arytenoid muscle | 14 Longus colli muscle |
| 4 Larynx (vestibule) | 15 Body of cervical vertebra C4 |
| 5 Paralaryngeal space | 16 Vertebral artery |
| 6 Piriform recess | 17 Laryngeal prominence |
| 7 Arytenoid cartilage (vocal process) | 18 Rima glottidis |
| 8 Arytenoid cartilage (body) | 19 Vocalis muscle |
| 9 Thyroid cartilage (superior horn) | 20 True vocal cord |
| 10 Transverse arytenoid muscle | 21 Anterior jugular vein |
| 11 Cricoid cartilage | 22 Thyroid gland |
| | 23 Oblique arytenoid muscle |
| | 24 Esophagus |
| | 25 Body of cervical vertebra C5 |

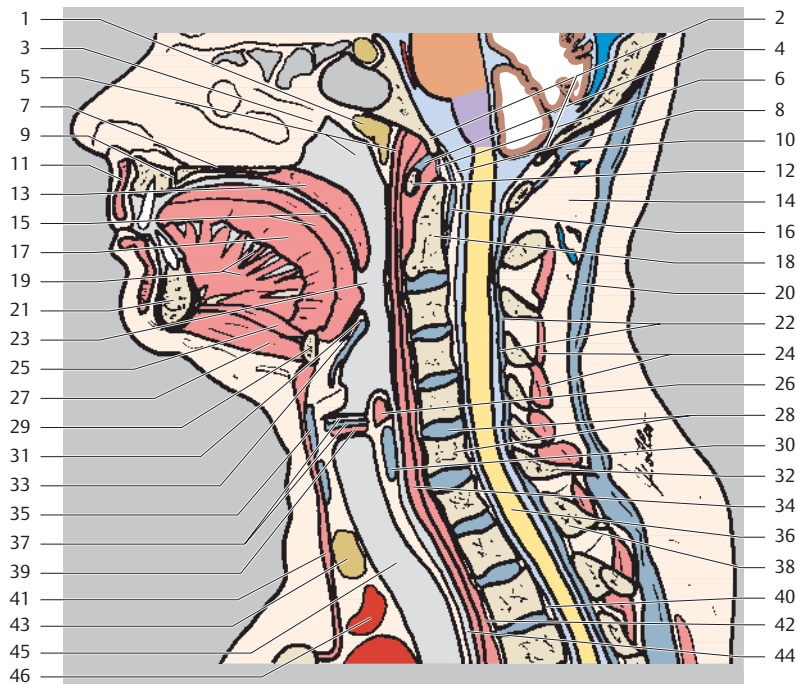




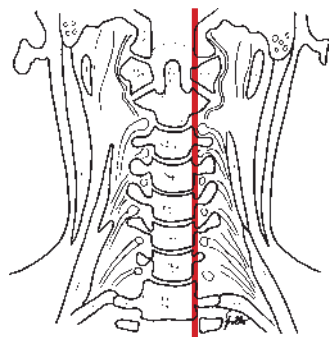
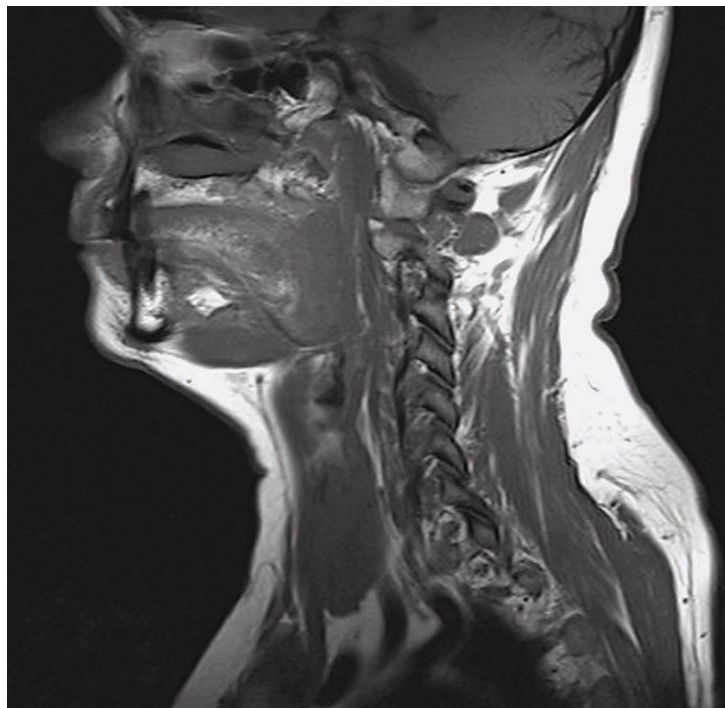
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|----|--|----|---------------------------------------|
| 1 | Infrahyoid muscles (sternohyoid, omohyoid and sternothyroid muscles) | 11 | Longus colli muscle |
| 2 | Anterior laryngeal commissure | 12 | Body of cervical vertebra (C6) |
| 3 | Vocalis muscle | 13 | Conus elasticus (cricovocal membrane) |
| 4 | Thyroid cartilage | 14 | Paralaryngeal space |
| 5 | Anterior jugular vein | 15 | Sternocleidomastoid muscle |
| 6 | Infraglottic cavity | 16 | Thyroid cartilage (inferior horn) |
| 7 | Cricothyroid joint | 17 | Internal jugular vein |
| 8 | Cricoid cartilage (lamina) | 18 | Common carotid artery |
| 9 | Thyroid gland | 19 | Esophagus |
| 10 | Inferior constrictor muscle of pharynx | 20 | Vertebral artery |



- | | |
|---------------------------------------|---|
| 1 Palatine tonsil | 6 Apical ligament of dens |
| 2 Foramen magnum | 7 Hard palate |
| 3 Vomer | 8 Tectorial membrane |
| 4 Anterior longitudinal ligament | 9 Incisive canal |
| 5 Nasopharynx and longus colli muscle | 10 Posterior atlanto-occipital membrane |
| | 11 Orbicularis oris muscle |

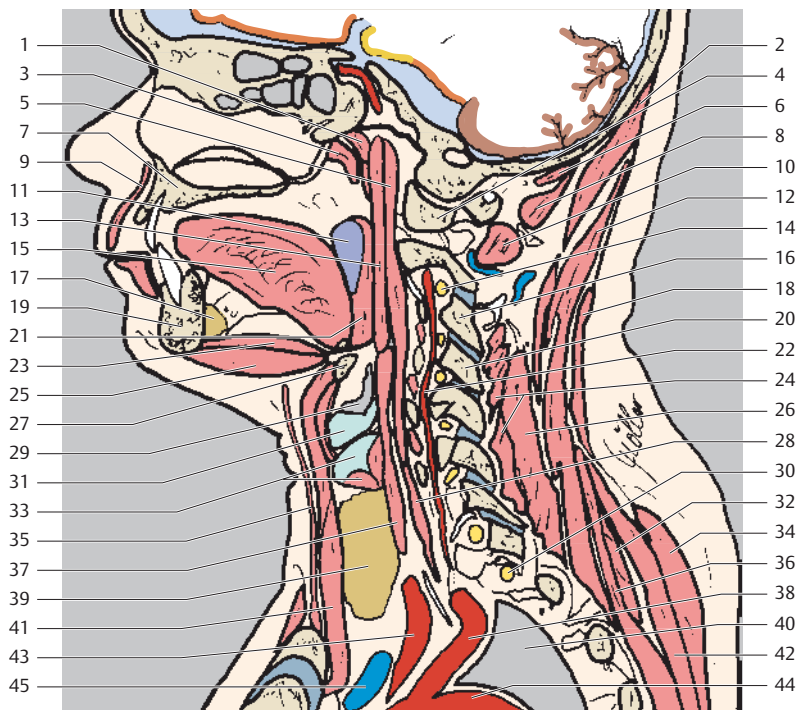


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| 12 Anterior arch of atlas | 28 Vertebra C6 and intervertebral disc |
| 13 Soft palate | 29 Hyoid bone |
| 14 Suboccipital fatty tissue | 30 Larynx (lamina) |
| 15 Superior longitudinal muscle of tongue and oral cavity | 31 Epiglottis |
| 16 Transverse ligament of atlas (of cruciform ligament of atlas) | 32 Spinous process of C7 |
| 17 Transverse muscle of tongue | 33 Epiglottic vallecula |
| 18 Dens of axis (C2) | 34 Inferior constrictor muscle of pharynx |
| 19 Genioglossus muscle and lingual septum | 35 Thyroid cartilage |
| 20 Nuchal ligament | 36 Spinal cord |
| 21 Mandible | 37 Vestibular ligament and laryngeal ventricle (ventricle of Morgagni) |
| 22 Ligamentum flavum | 38 Spinous process |
| 23 Oropharynx | 39 Vocal ligament (false vocal cord) |
| 24 Interspinalis muscles | 40 Posterior longitudinal ligament |
| 25 Geniohyoid muscle | 41 Sternothyroid muscle |
| 26 Transverse and oblique arytenoid muscles | 42 Anterior longitudinal ligament |
| 27 Mylohyoid muscle | 43 Thyroid gland |
| | 44 Esophagus |
| | 45 Trachea |
| | 46 Brachiocephalic artery |

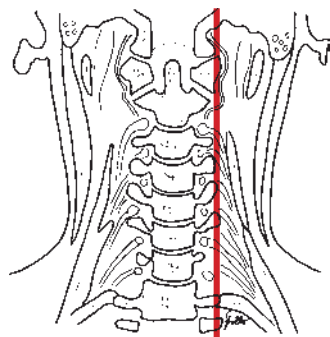


- 1 Levator veli palatini muscle
- 2 Semispinalis capitis muscle
- 3 Medial pterygoid muscle
- 4 Atlas (lateral mass)

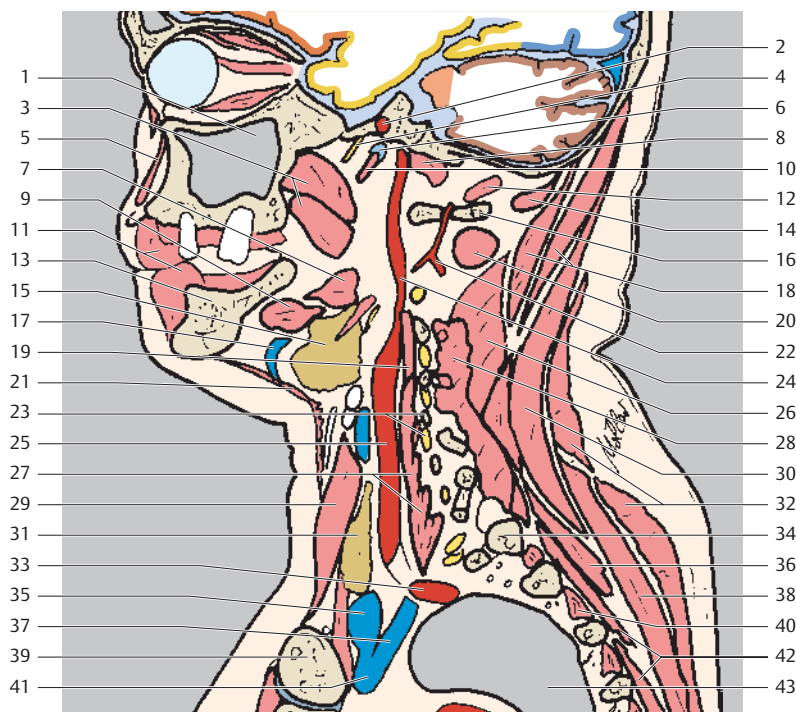
- 5 Longus capitis muscle
- 6 Rectus capitis posterior minor muscle
- 7 Maxilla
- 8 Rectus capitis posterior major muscle



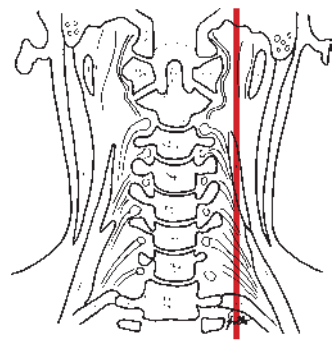
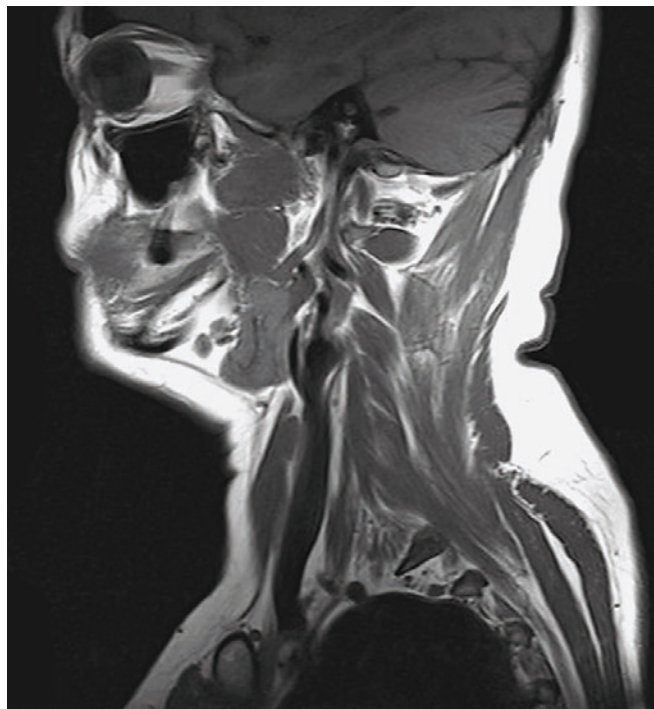
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|---|---|
| 9 Orbicularis oris muscle | 26 Semispinalis cervicis muscle |
| 10 Inferior oblique muscle | 27 Hyoid bone |
| 11 Palatine tonsil | 28 Longus colli muscle |
| 12 Splenius capitis muscle | 29 Pharynx and epiglottic vallecula |
| 13 Superior constrictor muscle of pharynx | 30 Spinal nerve root (T1) |
| 14 Spinal nerve root (C3) | 31 Thyroid cartilage |
| 15 Tongue | 32 Serratus posterior superior muscle |
| 16 Inferior articular process | 33 Cricoid cartilage |
| 17 Sublingual gland | 34 Trapezius muscle |
| 18 Trapezius muscle (descending part) | 35 Platysma |
| 19 Mandible | 36 Splenius cervicis muscle |
| 20 Superior articular process | 37 Inferior constrictor muscle of pharynx |
| 21 Palatopharyngeus muscle | 38 Left subclavian artery |
| 22 Vertebral artery | 39 Thyroid gland |
| 23 Mylohyoid muscle | 40 Left lung |
| 24 Multifidus muscle | 41 Sternohyoid muscle |
| 25 Digastric muscle (anterior belly) | 42 Rhomboid (major and minor) muscle |
| | 43 Common carotid artery |
| | 44 Aortic arch |
| | 45 Left brachiocephalic vein |

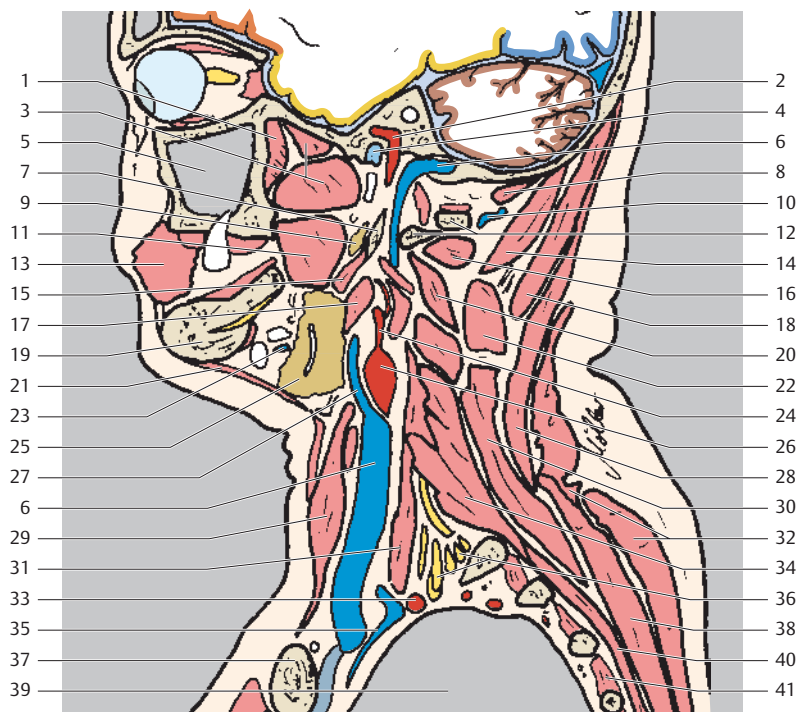


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|--|---|
| 1 Maxillary sinus | 4 Mandibular nerve |
| 2 Internal carotid artery (carotid syphon) | 5 Levator labii superioris muscle |
| 3 Medial pterygoid muscle | 6 Pharyngotympanic tube (auditory tube) |
| | 7 Digastric muscle |

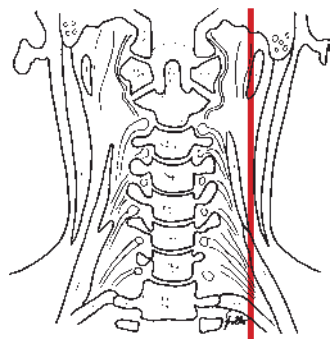


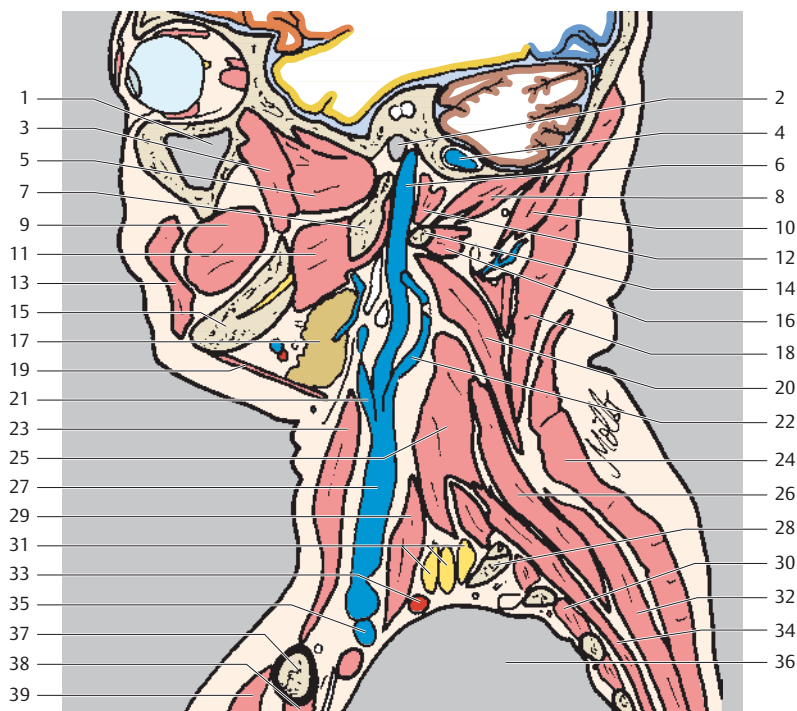
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| 8 Rectus capitis lateralis muscle | 25 Common carotid artery |
| 9 Mylohyoid muscle | 26 Semispinalis cervicis muscle |
| 10 Tensor veli palatini muscle | 27 Scalenus anterior muscle |
| 11 Orbicularis oris muscle | 28 Scalenus posterior muscle |
| 12 Obliquus capitis superior muscle | 29 Sternocleidomastoid muscle |
| 13 Mandible | 30 Splenius capitis muscle |
| 14 Rectus capitis posterior major muscle | 31 Thyroid gland |
| 15 Submandibular gland | 32 Trapezius muscle |
| 16 Atlas (transverse process) | 33 Subclavian artery |
| 17 Facial vein | 34 First rib |
| 18 Semispinalis capitis muscle | 35 Internal jugular vein |
| 19 Longus colli muscle | 36 Semispinalis cervicis muscle |
| 20 Obliquus capitis inferior muscle | 37 Subclavian vein (left) |
| 21 Platysma | 38 Rhomboid (major and minor) muscle |
| 22 Vertebral artery | 39 Clavicle |
| 23 Transverse processes and spinal nerve roots | 40 Interspinalis muscle |
| 24 Internal carotid artery | 41 Brachiocephalic vein (left) |
| | 42 Serratus anterior muscle |
| | 43 Lung (left) |



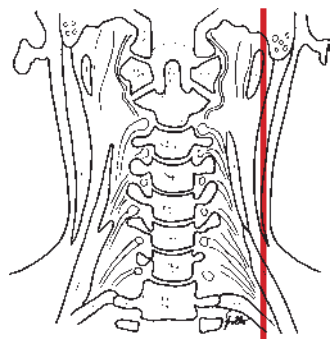
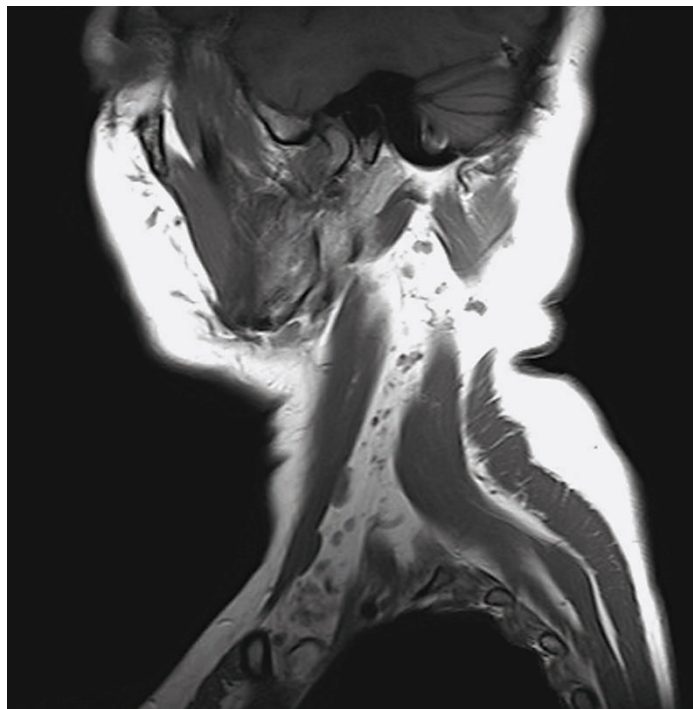


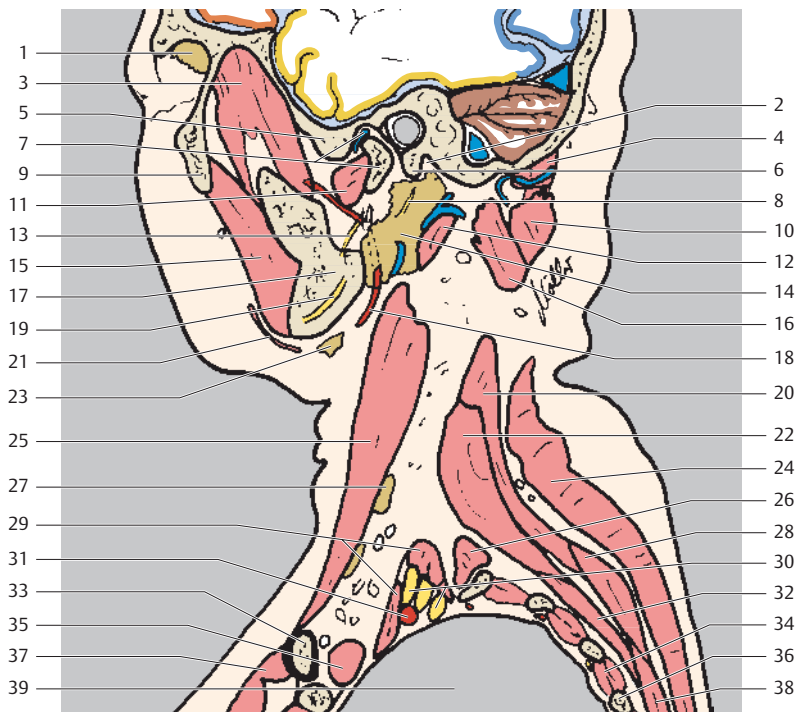
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|--|--------------------------------------|
| 1 Temporal muscle | 20 Levator scapulae muscle |
| 2 Internal carotid artery (syphon) | 21 Platysma |
| 3 Lateral pterygoid muscle | 22 Semispinalis cervicis muscle |
| 4 Pharyngotympanic tube (auditory tube) | 23 Facial vein |
| 5 Maxillary sinus | 24 External carotid artery |
| 6 Internal jugular vein | 25 Submandibular gland |
| 7 Styloid process | 26 Common carotid artery |
| 8 Rectus capitis posterior minor muscle | 27 External jugular vein |
| 9 Parotid gland | 28 Splenius capitis muscle |
| 10 Deep cervical veins | 29 Sternocleidomastoid muscle |
| 11 Medial pterygoid muscle | 30 Semispinalis cervicis muscle |
| 12 Atlas (transverse process) | 31 Scalenus medius muscle |
| 13 Buccinator muscle | 32 Trapezius muscle |
| 14 Rectus capitis posterior major muscle | 33 Subclavian artery (left) |
| 15 Stylohyoid muscle | 34 Scalenus posterior muscle |
| 16 Obliquus capitis muscle | 35 Subclavian vein (left) |
| 17 Digastric muscle | 36 Brachial plexus |
| 18 Semispinalis capitis muscle | 37 Clavicle |
| 19 Mandible | 38 Rhomboid (major and minor) muscle |
| | 39 Lung (left) |
| | 40 Multifidus muscle |
| | 41 Interspinalis muscle |





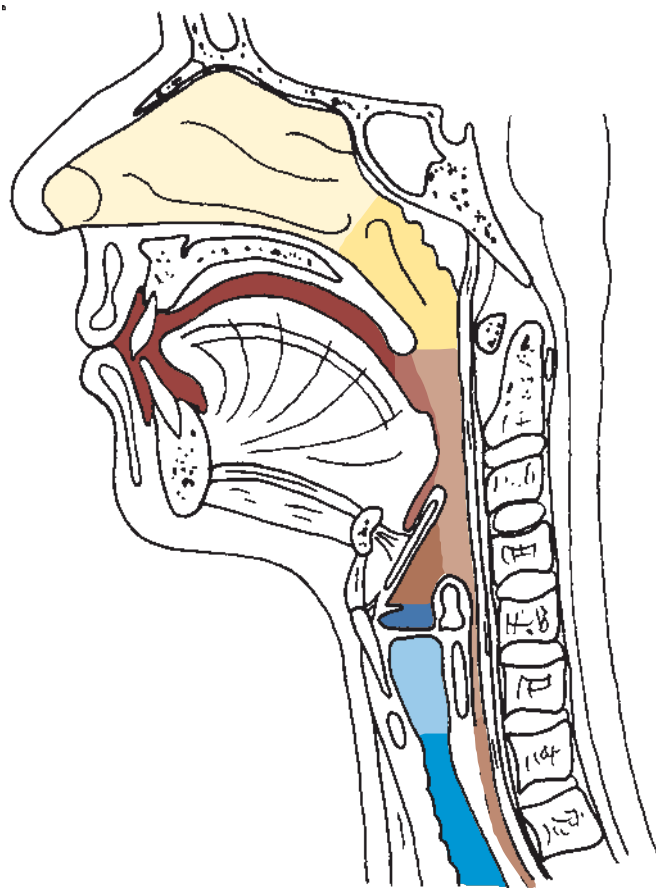
- | | |
|--|--------------------------------------|
| 1 Maxillary sinus | 19 Platysma |
| 2 External acoustic meatus | 20 Levator scapulae muscle |
| 3 Temporal muscle | 21 Common facial vein |
| 4 Sigmoid sinus | 22 Cervical veins |
| 5 Lateral pterygoid muscle | 23 Sternocleidomastoid muscle |
| 6 Internal jugular vein | 24 Trapezius muscle |
| 7 Ramus of the mandible | 25 Scalenus medius muscle |
| 8 Obliquus capitis posterior major and minor muscles | 26 Semispinalis cervicis muscle |
| 9 Buccinator muscle | 27 Internal jugular vein |
| 10 Semispinalis capitis muscle | 28 First rib |
| 11 Medial pterygoid muscle | 29 Scalenus anterior muscle |
| 12 Rectus capitis lateralis muscle | 30 Interspinalis muscle |
| 13 Orbicularis oris muscle | 31 Brachial plexus |
| 14 Transverse process of cervical vertebra C1 | 32 Rhomboid (major and minor) muscle |
| 15 Mandible | 33 Subclavian artery (left) |
| 16 Obliquus capitis superior muscle | 34 Serratus anterior muscle |
| 17 Submandibular gland | 35 Subclavian vein (left) |
| 18 Splenius capitis muscle | 36 Lung |
| | 37 Clavicle |
| | 38 Subclavian muscle |
| | 39 Pectoralis major muscle |

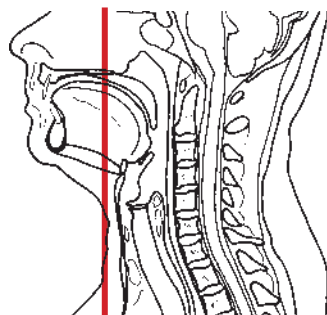
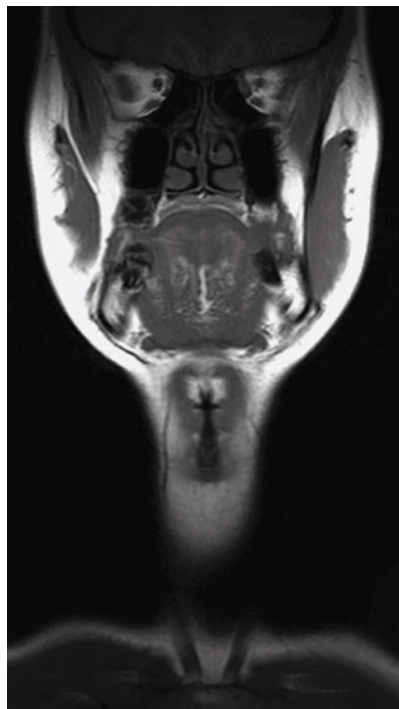


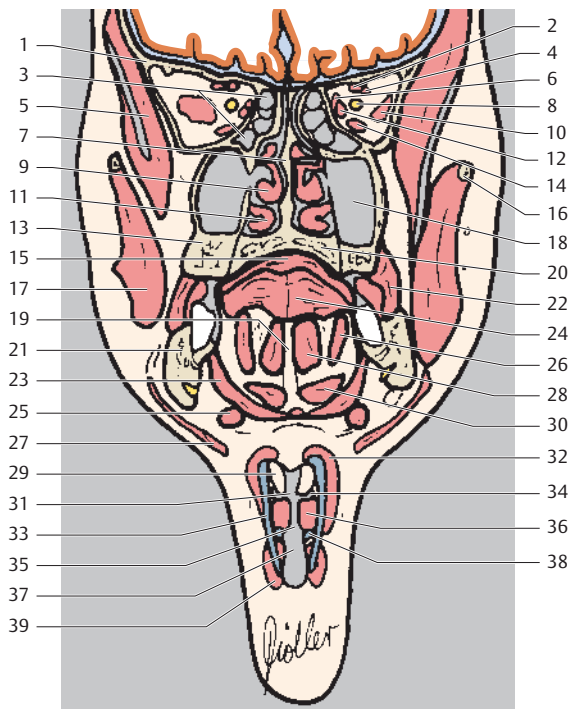


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|---------------------------------------|-------------------------------|
| 1 Lacrimal gland | 19 Mandibular canal |
| 2 Stylomastoid foramen | 20 Levator scapulae muscle |
| 3 Temporal muscle | 21 Platysma |
| 4 Obliquus capitis superior muscle | 22 Scalenus posterior muscle |
| 5 Articular tubercle | 23 Submandibular gland |
| 6 Styloid process | 24 Trapezius muscle |
| 7 Head of mandible and articular disc | 25 Sternocleidomastoid muscle |
| 8 Facial nerve | 26 Scalenus medius muscle |
| 9 Zygomatic bone | 27 Lymph nodes |
| 10 Splenius capitis muscle | 28 Rhomboid minor muscle |
| 11 Lateral pterygoid muscle | 29 Scalenus anterior muscle |
| 12 Digastric muscle (posterior belly) | 30 Brachial plexus |
| 13 Inferior alveolar nerve | 31 Subclavian artery (left) |
| 14 Parotid gland | 32 Serratus anterior muscle |
| 15 Masseter muscle | 33 Clavicle |
| 16 Semispinalis capitis muscle | 34 Interspinalis muscle |
| 17 Mandible | 35 Subclavian muscle |
| 18 External carotid artery | 36 Fourth rib |
| | 37 Pectoralis major muscle |
| | 38 Rhomboid major muscle |
| | 39 Lung (left) |

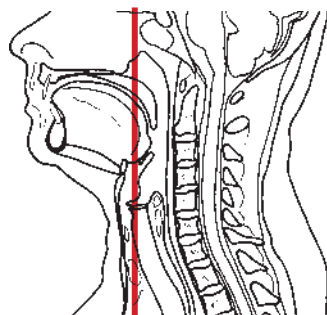
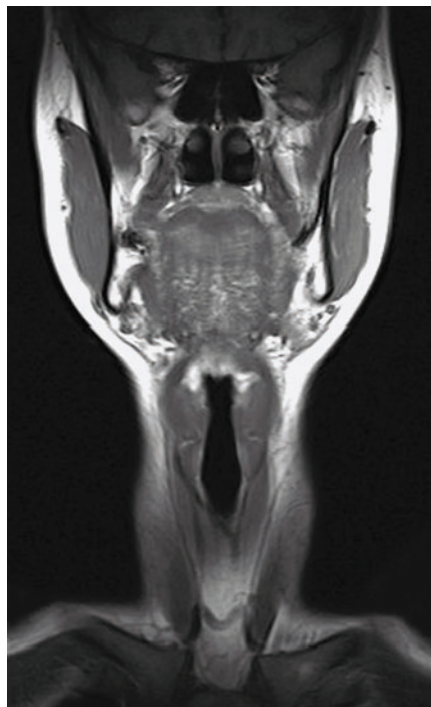
	Nasal vestibule (nasal cavity)		Laryngeal part of pharynx
	Nasopharynx		Esophagus
	Oral cavity proper		Laryngeal vestibule
	Isthmus of fauces (oropharyngeal isthmus)		Laryngeal ventricle
	Oropharynx		Infraglottic cavity
			Trachea



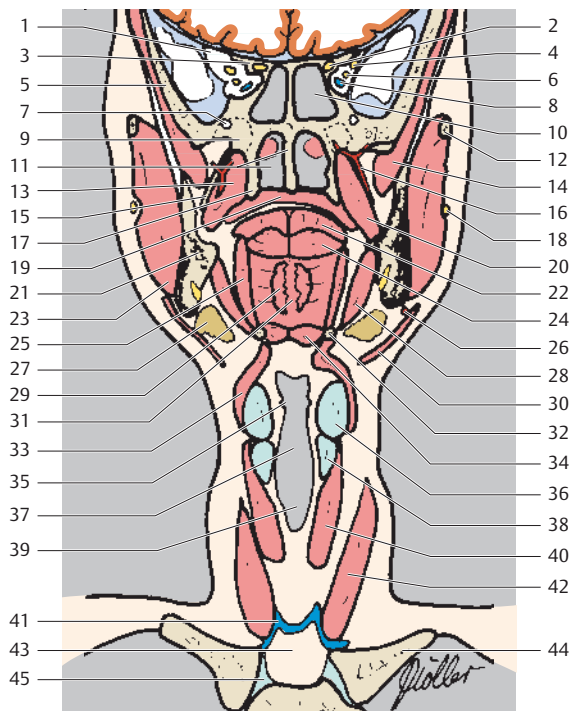




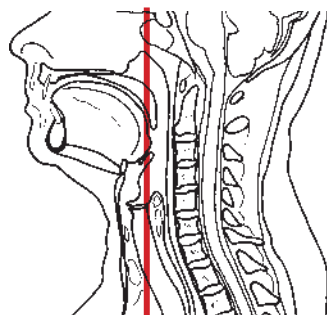
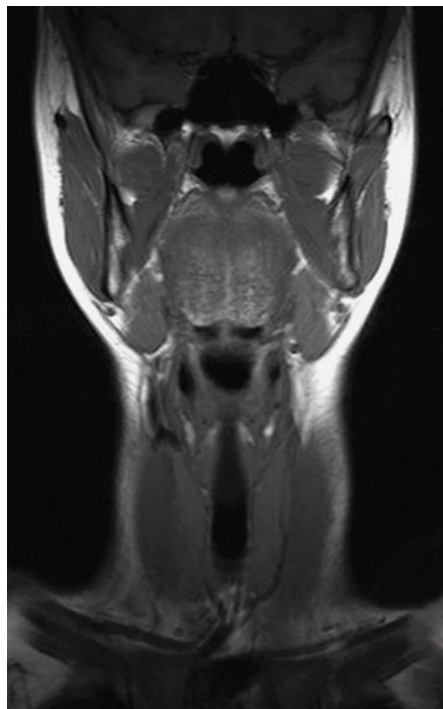
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|---------------------------------------|--------------------------------------|
| 1 Sphenoidal bone (lesser wing) | 20 Hard palate |
| 2 Levator palpebrae superioris muscle | 21 Mandible |
| 3 Ethmoidal cells (anterior) | 22 Buccinator muscle |
| 4 Superior rectus muscle | 23 Mylohyoid muscle |
| 5 Temporal muscle | 24 Transverse muscle of tongue |
| 6 Superior oblique muscle | 25 Digastric muscle (anterior belly) |
| 7 Nasal septum | 26 Hypoglossus muscle |
| 8 Optic nerve (II) | 27 Platysma |
| 9 Middle nasal concha | 28 Genioglossus muscle |
| 10 Lateral rectus muscle | 29 Vestibular fold |
| 11 Inferior nasal concha | 30 Geniohyoid muscle |
| 12 Medial rectus muscle | 31 Glottis |
| 13 Mandible | 32 Thyrohyoid muscle |
| 14 Inferior rectus muscle | 33 Thyroid cartilage |
| 15 Longitudinal muscle of tongue | 34 Laryngeal ventricle |
| 16 Zygomatic bone (temporal process) | 35 Infraglottic cavity |
| 17 Masseter muscle | 36 Vocalis muscle |
| 18 Maxillary sinus | 37 Trachea |
| 19 Lingual septum | 38 Cricoid cartilage |
| | 39 Sternohyoid muscle |

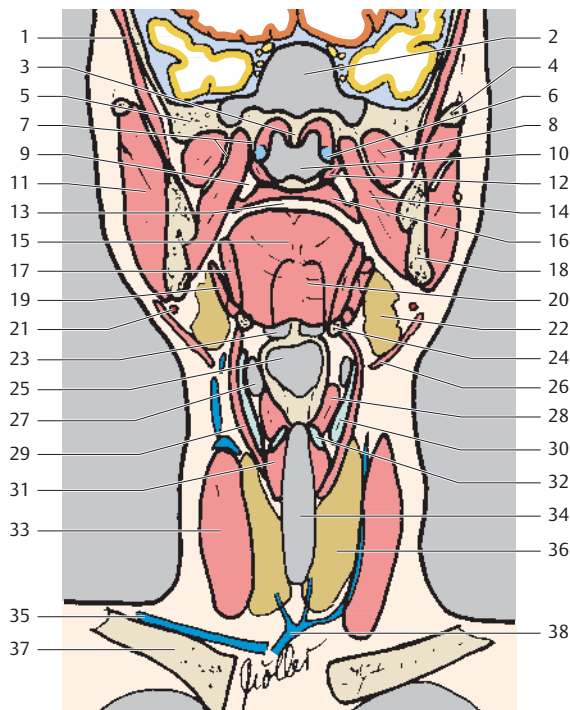


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|---------------------------------|--|
| 1 Superior orbital fissure | 5 Temporal bone |
| 2 Optic nerve (II) | 6 Frontal nerve |
| 3 Sphenoidal bone (lesser wing) | 7 Foramen rotundum with maxillary nerve (V2) |
| 4 Trochlear nerve (IV) | |

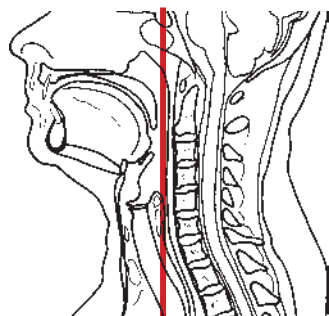
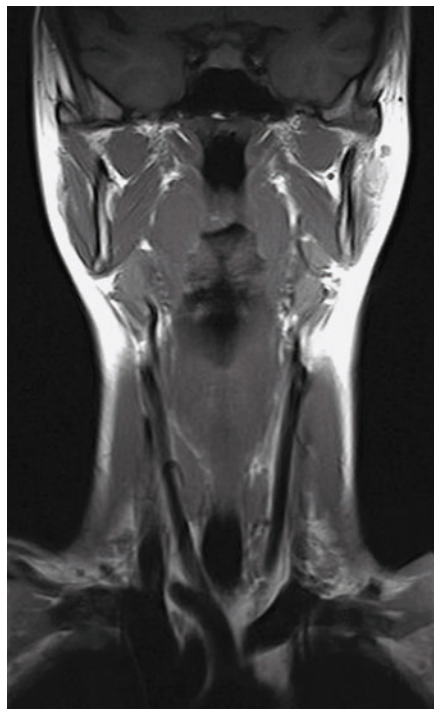


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|---|------------------------------|
| 8 Superior ophthalmic vein | 26 Facial artery |
| 9 Pterygopalatine fossa | 27 Submandibular gland |
| 10 Sphenoidal sinus | 28 Mylohyoid muscle |
| 11 Dorsal nasal cavity and nasal septum | 29 Vertical muscle of tongue |
| 12 Zygomatic bone (temporal process) | 30 Platysma |
| 13 Pterygoid fossa | 31 Lingual septum |
| 14 Temporal muscle | 32 Hyoid bone |
| 15 Lateral pterygoid process | 33 Thyrohyoid muscle |
| 16 Maxillary artery | 34 Geniohyoid muscle |
| 17 Medial pterygoid process | 35 Laryngeal ventricle |
| 18 Facial nerve (VII) | 36 Thyroid cartilage |
| 19 Soft palate | 37 Infraglottic cavity |
| 20 Medial pterygoid muscle | 38 Cricoid cartilage |
| 21 Mandible (ramus) | 39 Larynx |
| 22 Longitudinal muscle of tongue | 40 Cricothyroid muscle |
| 23 Masseter muscle | 41 Anterior jugular vein |
| 24 Transverse muscle of tongue | 42 Sternohyoid muscle |
| 25 Hypoglossus muscle | 43 Suprasternal space |
| | 44 Clavicle |
| | 45 Sternoclavicular joint |

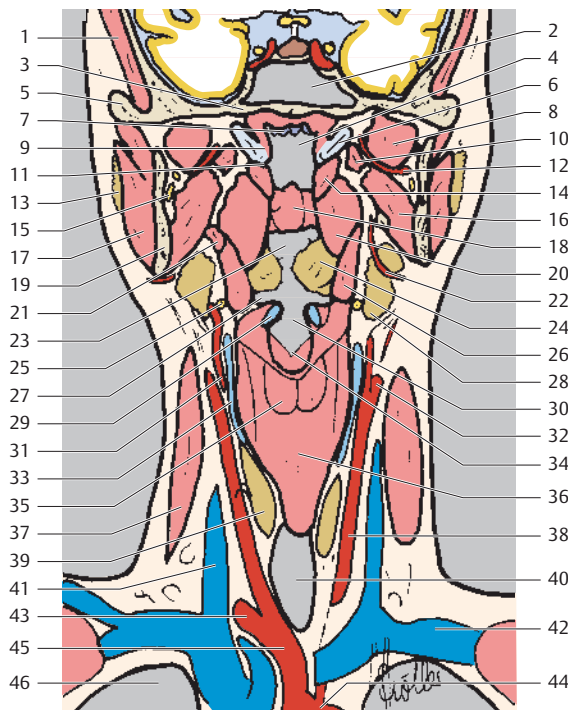




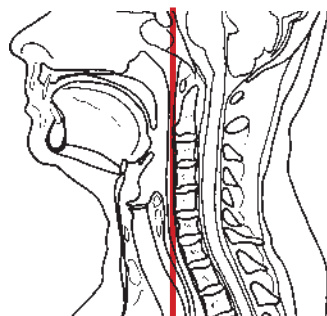
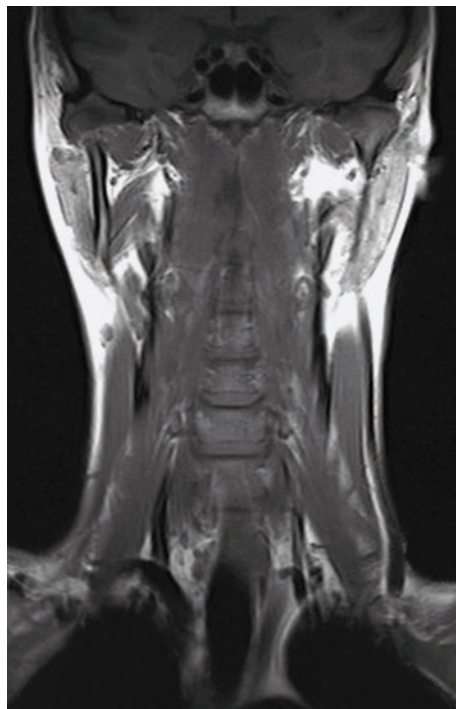
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|---|---|
| 1 Temporal muscle | 19 Digastric muscle |
| 2 Sphenoidal sinus | 20 Genioglossus muscle |
| 3 Vomer | 21 Facial artery |
| 4 Zygomatic bone (temporal process) | 22 Submandibular gland |
| 5 Sphenoidal bone (greater wing) | 23 Epiglottic vallecula |
| 6 Pharyngotympanic tube (auditory tube) (cartilage) | 24 Hyoid bone (greater horn) |
| 7 Lateral and medial plates of pterygoid process | 25 Laryngeal vestibule |
| 8 Lateral pterygoid muscle | 26 Platysma |
| 9 Peripharyngeal space | 27 Piriform recess |
| 10 Nasopharynx | 28 Aryepiglottic muscle with aryepiglottic fold |
| 11 Masseter muscle | 29 Omohyoid muscle |
| 12 Levator veli palatini muscle | 30 Thyroid cartilage |
| 13 Oropharynx | 31 Thyroarytenoid muscle |
| 14 Medial pterygoid muscle | 32 Arytenoid cartilage |
| 15 Transverse muscle of tongue | 33 Sternocleidomastoid muscle |
| 16 Soft palate | 34 Trachea |
| 17 Hypoglossus muscle | 35 Anterior jugular vein |
| 18 Mandible | 36 Thyroid gland |
| | 37 Clavicle |
| | 38 Inferior thyroid veins |

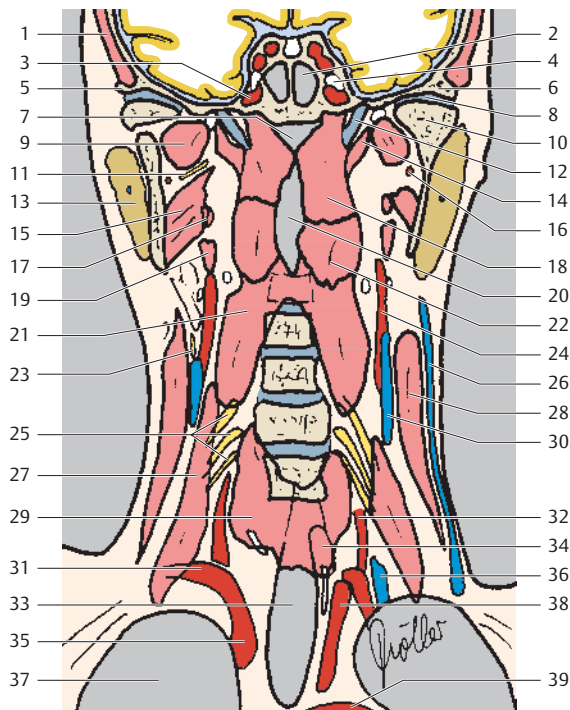


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|----------------------------------|---|
| 1 Temporal muscle | 5 Zygomatic bone |
| 2 Sphenoidal sinus | 6 Pharyngotympanic tube (auditory tube) |
| 3 Sphenoidal bone (greater wing) | (cartilage) |
| 4 Oropharynx | 7 Pharyngeal tonsil |

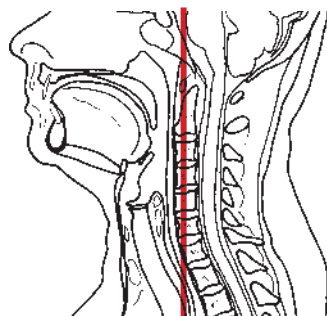


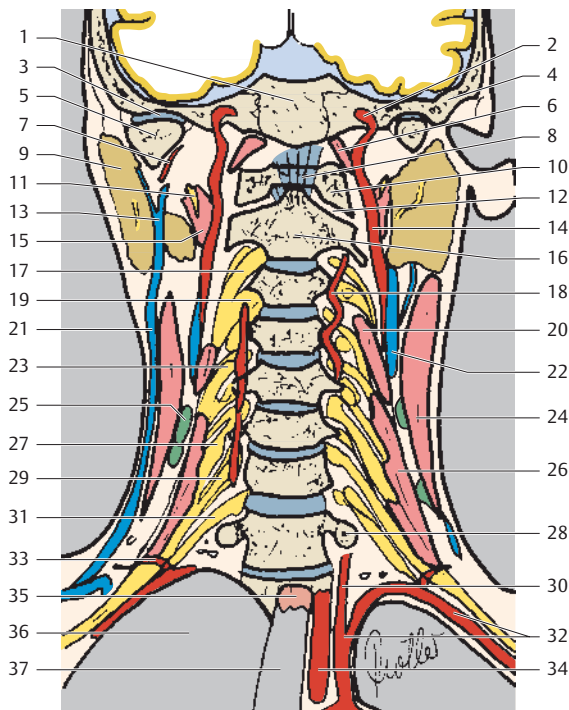
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|--|---|
| 8 Lateral pterygoid muscle | 27 Epiglottic vallecula |
| 9 Torus tubarius | 28 Submandibular gland |
| 10 Tensor veli palatini muscle | 29 Epiglottis |
| 11 Pharyngeal opening of auditory tube | 30 Laryngeal inlet |
| 12 Maxillary artery | 31 External carotid artery |
| 13 Parotid gland | 32 Internal carotid artery |
| 14 Levator veli palatini muscle | 33 Thyroid cartilage |
| 15 Inferior alveolar nerve | 34 Interarytenoid notch |
| 16 Medial pterygoid muscle | 35 Posterior cricoarytenoid muscle |
| 17 Masseter muscle | 36 Middle constrictor muscle of pharynx |
| 18 Soft palate and uvula | 37 Sternocleidomastoid muscle |
| 19 Ramus of mandible | 38 Common carotid artery |
| 20 Palatopharyngeus muscle | 39 Thyroid gland |
| 21 Styloglossus muscle | 40 Trachea |
| 22 Facial artery | 41 Internal jugular vein |
| 23 Oropharynx | 42 Subclavian vein |
| 24 Palatine tonsil | 43 Subclavian artery (right) |
| 25 Hyoid bone | 44 Aorta |
| 26 Digastric muscle | 45 Brachiocephalic trunk |
| | 46 Lung (right) |



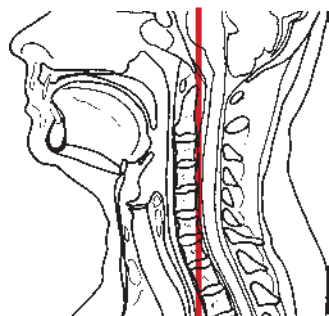
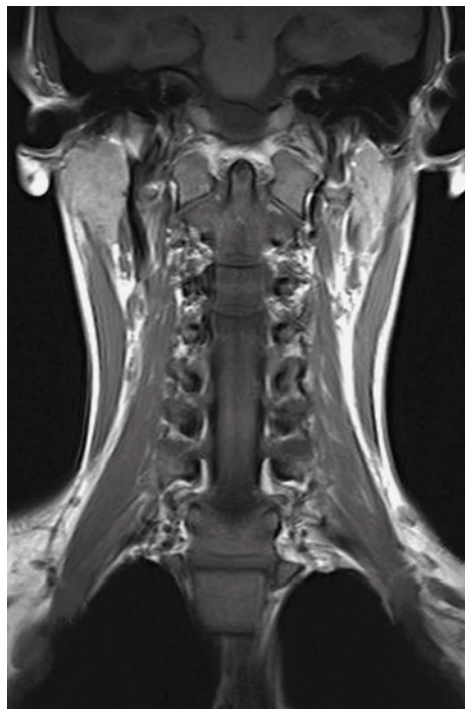


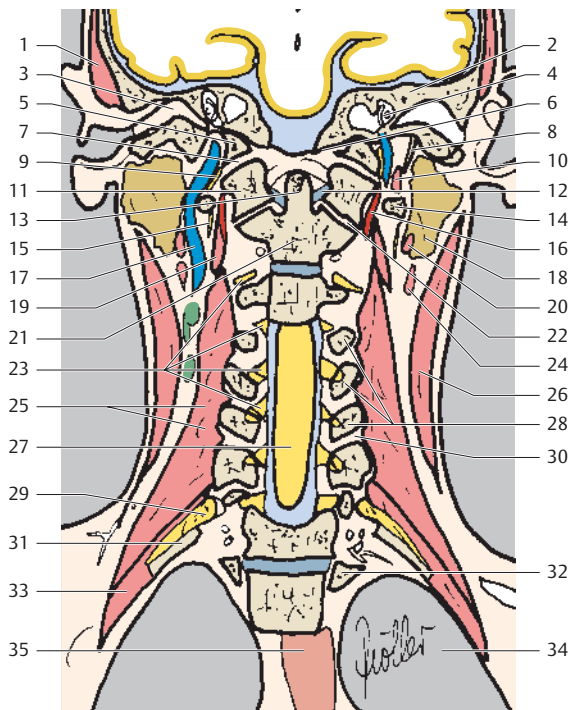
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|---|---|
| 1 Temporal muscle | 20 Oropharynx |
| 2 Sphenoidal sinus | 21 Longus colli muscle |
| 3 Internal carotid artery (syphon) | 22 Longus capitis muscle |
| 4 Trigeminal cavity | 23 Vagus nerve (X) |
| 5 Zygomatic process | 24 Internal carotid artery |
| 6 Socket of temporomandibular joint (temporal bone) | 25 Spinal nerve roots (cervical plexus) |
| 7 Nasopharynx | 26 External jugular vein |
| 8 Articular disc | 27 Anterior scalene muscle |
| 9 Lateral pterygoid muscle | 28 Sternocleidomastoid muscle |
| 10 Head of mandible | 29 Inferior constrictor muscle of pharynx |
| 11 Lingual nerve | 30 Internal jugular vein |
| 12 Pharyngotympanic tube (auditory tube) | 31 Subclavian vein |
| 13 Parotid gland | 32 Vertebral artery |
| 14 Levator veli palatini muscle | 33 Trachea |
| 15 Medial pterygoid muscle | 34 Esophagus |
| 16 Maxillary artery | 35 Brachiocephalic trunk |
| 17 Stylopharyngeus muscle | 36 Vertebral vein |
| 18 Longus capitis muscle | 37 Lung (right) |
| 19 Digastric muscle | 38 Common carotid artery |
| | 39 Aortic arch |



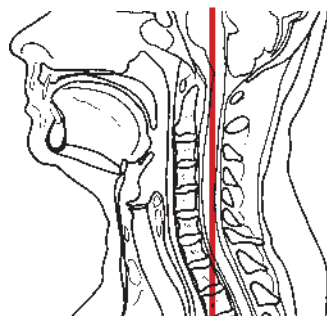
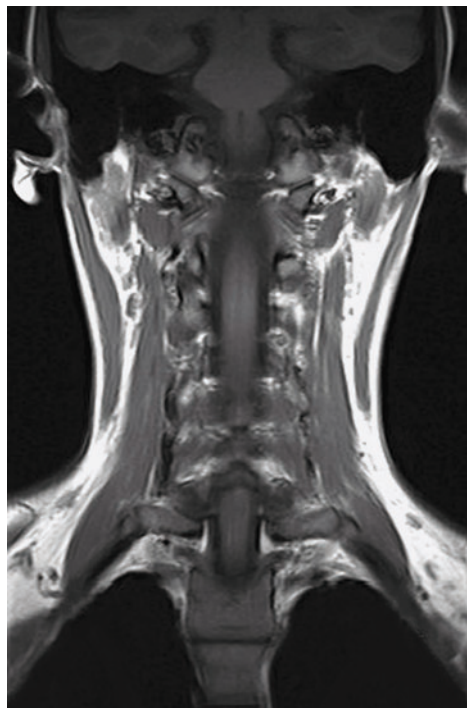


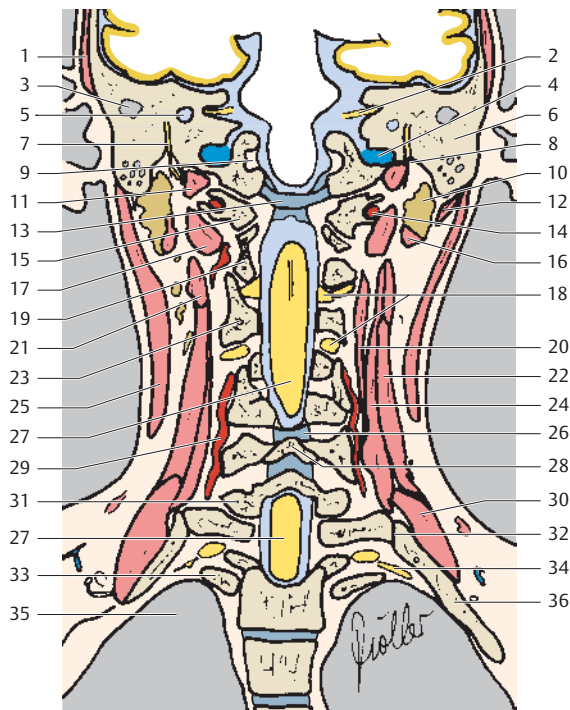
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|---------------------------------------|-------------------------------|
| 1 Clivus | 19 Spinal nerve root C4 |
| 2 Internal carotid artery (syphon) | 20 Longus colli muscle |
| 3 Articular disc | 21 External jugular vein |
| 4 Petrous part of temporal bone | 22 Internal jugular vein |
| 5 Head of mandible | 23 Spinal nerve root C5 |
| 6 Rectus capitis anterior muscle | 24 Sternocleidomastoid muscle |
| 7 Maxillary artery | 25 Lymph nodes |
| 8 Anterior atlanto-occipital membrane | 26 Anterior scalene muscle |
| 9 Parotid gland | 27 Spinal nerve root C6 |
| 10 Atlas (lateral mass) | 28 Costal process |
| 11 Styloid process | 29 Spinal nerve root C7 |
| 12 Atlanto-axial joint | 30 Vertebral artery (left) |
| 13 Retromandibular vein | 31 Spinal nerve root C8 |
| 14 Internal carotid artery | 32 Subclavian artery |
| 15 Digastric muscle | 33 Suprascapular artery |
| 16 Axis | 34 Internal carotid artery |
| 17 Spinal nerve root C3 | 35 Esophagus |
| 18 Vertebral artery | 36 Lung (right) |
| | 37 Trachea |



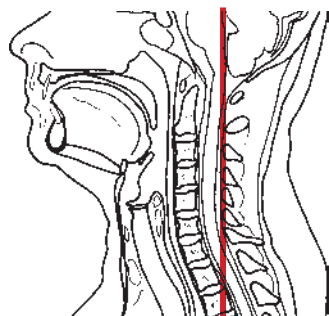
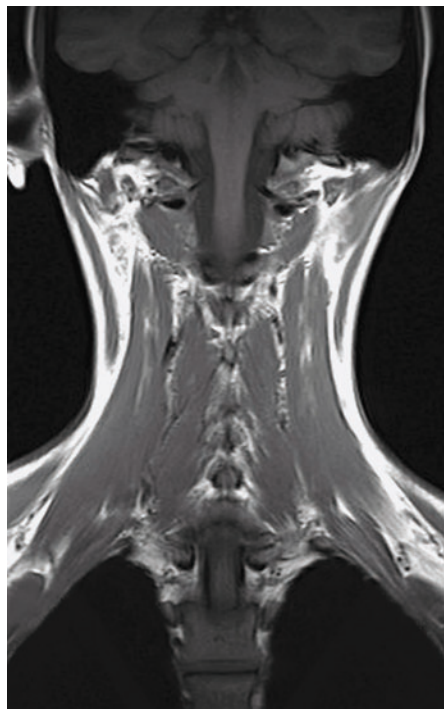


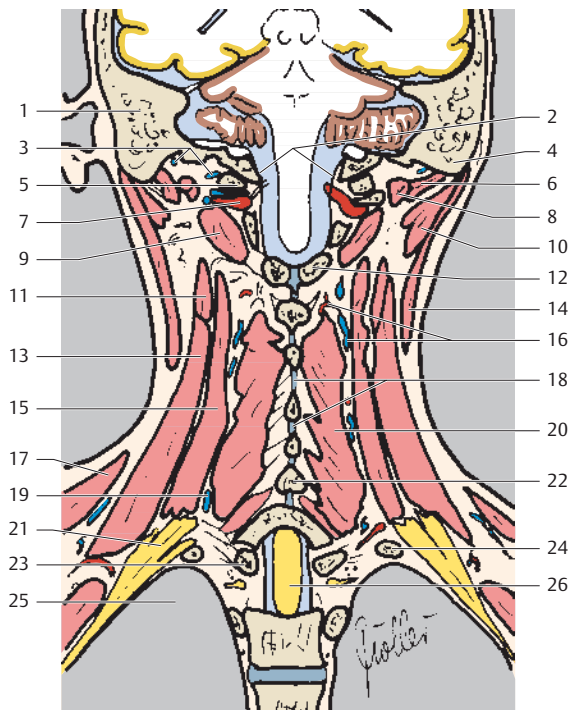
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|--|-------------------------------------|
| 1 Temporal muscle | 18 Parotid gland |
| 2 Petrous part of temporal bone | 19 Obliquus capitis inferior muscle |
| 3 External acoustic meatus | 20 Stylohyoid muscle |
| 4 Tympanic cavity | 21 Axis (body) |
| 5 Occipital condyle | 22 Atlanto-axial joint |
| 6 Clivus | 23 Spinal nerve roots C3–C6 |
| 7 Atlanto-occipital joint | 24 Digastric muscle |
| 8 Styloid process | 25 Middle scalene muscle |
| 9 Accessory nerve (XI) and hypoglossus nerve (XII) | 26 Sternocleidomastoid muscle |
| 10 Stylopharyngeus muscle | 27 Spinal cord |
| 11 Atlas (lateral mass) | 28 Articular processes C4–C6 |
| 12 Alar ligaments | 29 Spinal nerve root C8 |
| 13 Dens of axis | 30 Zygapophysial joint |
| 14 Atlas (transverse process) | 31 First rib |
| 15 Vagus nerve (X) | 32 Second rib |
| 16 Vertebral artery | 33 Posterior scalene muscle |
| 17 Internal jugular vein | 34 Lung (left) |
| | 35 Esophagus |



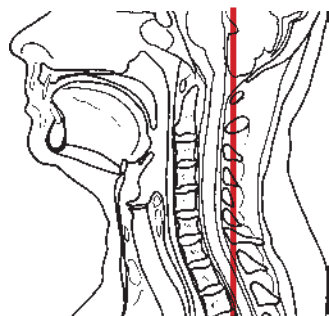
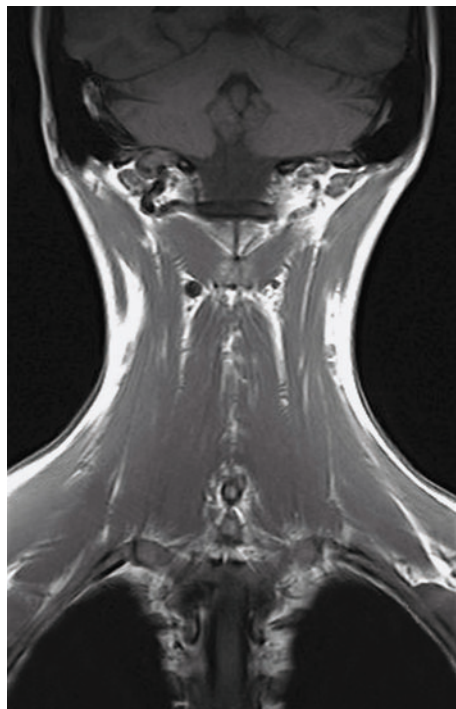


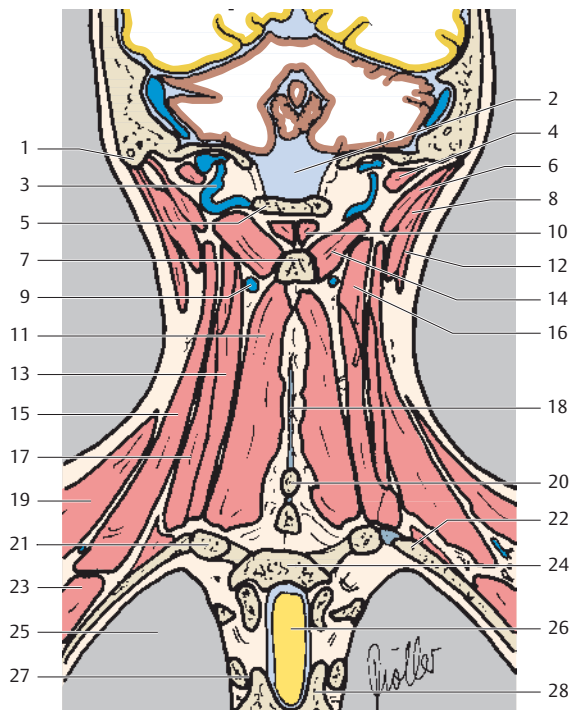
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|---------------------------------------|------------------------------------|
| 1 Temporal muscle | 18 Spinal nerve roots |
| 2 Internal acoustic meatus | 19 Inferior articular process (C2) |
| 3 Mastoid antrum | 20 Spinalis cervicis muscle |
| 4 Jugular foramen | 21 Longissimus capitis muscle |
| 5 Vestibule | 22 Anterior scalene muscle |
| 6 Mastoid process | 23 Superior articular process (C3) |
| 7 Facial canal | 24 Levator scapulae muscle |
| 8 Stylomastoid foramen | 25 Sternocleidomastoid muscle |
| 9 Hypoglossus canal | 26 Ligamentum flavum |
| 10 Parotid gland | 27 Spinal cord |
| 11 Rectus capitis lateralis muscle | 28 Arch of C6 vertebra |
| 12 Splenius capitis muscle | 29 Vertebral artery |
| 13 Transverse ligament | 30 Scalenus medius muscle |
| 14 Vertebral artery | 31 Transverse process (C7) |
| 15 Atlas (posterior arch) | 32 Costotransverse joint (T1) |
| 16 Digastric muscle (posterior belly) | 33 Second rib (head) |
| 17 Obliquus capitis inferior muscle | 34 Thoracic nerve (T1) |
| | 35 Lung (right) |
| | 36 First rib |



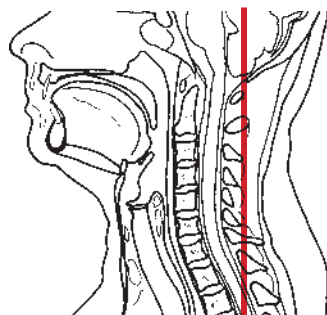
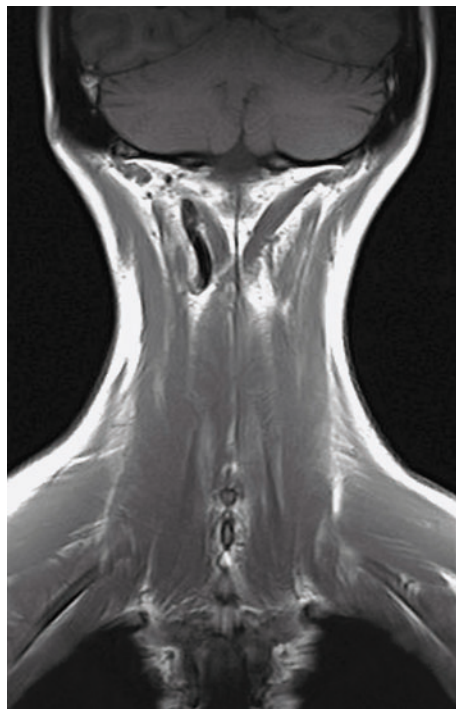


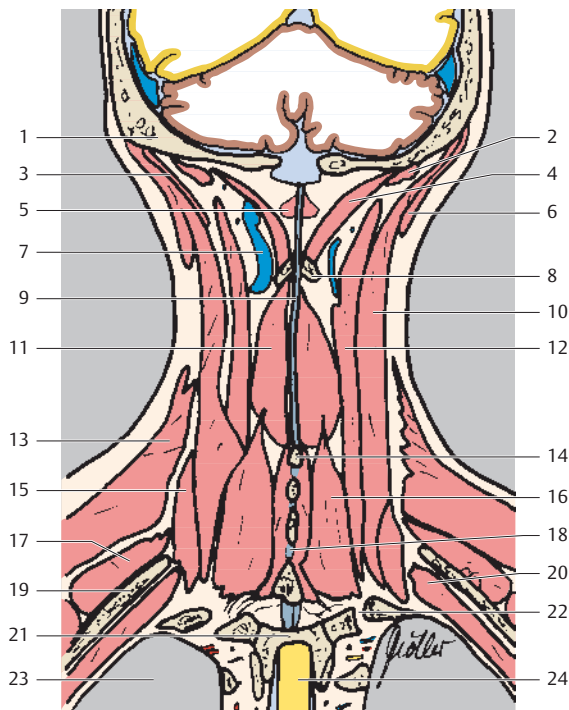
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|--|----------------------------------|
| 1 Mastoid process (Petrus part of temporal bone) | 12 Spinous process (C2) |
| 2 Foramen magnum | 13 Levator scapulae muscle |
| 3 Suboccipital venous plexus | 14 Sternocleidomastoid muscle |
| 4 Mastoid process | 15 Splenius cervicis muscle |
| 5 Atlas (posterior arch) | 16 Deep cervical artery and vein |
| 6 Digastric muscle (posterior belly) | 17 Trapezius muscle |
| 7 Vertebral artery | 18 Interspinous ligaments |
| 8 Obliquus capitis superior muscle | 19 Deep cervical vein |
| 9 Obliquus capitis inferior muscle | 20 Multifidus muscle |
| 10 Splenius capitis muscle | 21 Brachial plexus |
| 11 Longissimus capitis muscle | 22 Spinous process (C7) |
| | 23 Costal process |
| | 24 First rib |
| | 25 Lung (right) |
| | 26 Spinal cord |



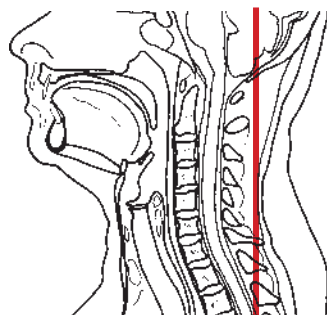
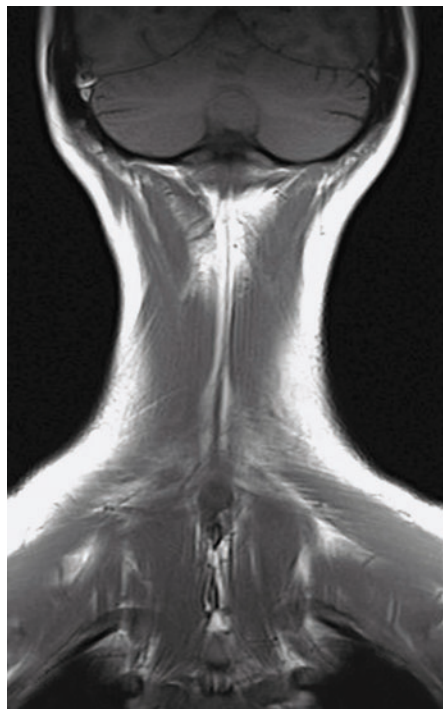


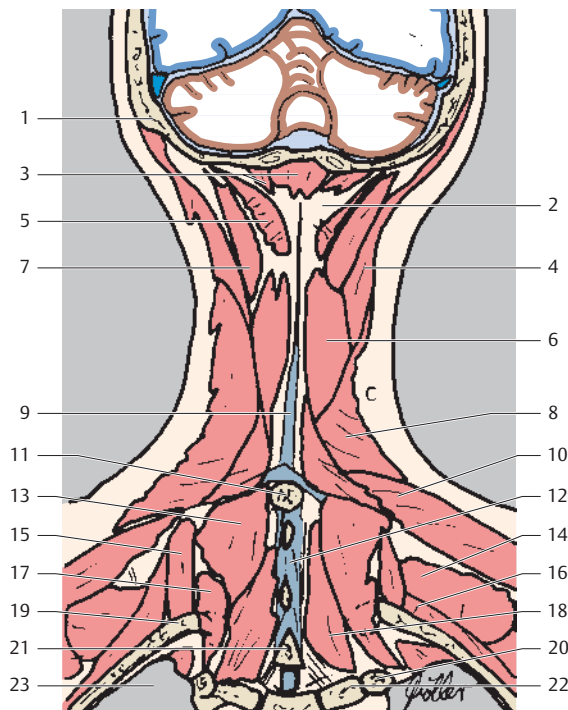
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|--|--|
| 1 Mastoid process | 15 Levator scapulae muscle |
| 2 Cisterna magna | 16 Semispinalis capitis muscle |
| 3 Deep cervical vein | 17 Splenius cervicis muscle |
| 4 Obliquus capitis superior muscle | 18 Supraspinous and interspinous ligaments |
| 5 Atlas (posterior arch) | 19 Trapezius muscle |
| 6 Longissimus capitis muscle | 20 Spinous process (C7) |
| 7 Spinous process of axis (C2) | 21 Transverse process (T2) |
| 8 Splenius capitis muscle | 22 Second rib |
| 9 Deep cervical vein | 23 Supraspinatus muscle |
| 10 Rectus capitis posterior major muscle | 24 Vertebra (T2) |
| 11 Semispinalis cervicis muscle | 25 Lung (right) |
| 12 Sternocleidomastoid muscle | 26 Spinal cord |
| 13 Longissimus cervicis muscle | 27 Transverse process (T4) |
| 14 Obliquus capitis inferior muscle | 28 Vertebra (T4) |





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|---|--------------------------------|
| 1 Occipital bone | 12 Semispinalis capitis muscle |
| 2 Obliquus capitis superior muscle | 13 Trapezius muscle |
| 3 Longissimus capitis muscle | 14 Spinous process |
| 4 Rectus capitis posterior major muscle | 15 Rhomboid muscle |
| 5 Rectus capitis posterior minor muscle | 16 Multifidus muscle |
| 6 Sternocleidomastoid muscle | 17 Levator scapulae muscle |
| 7 Deep cervical vein | 18 Interspinous ligament |
| 8 Spinous process of axis (C2) | 19 Second rib |
| 9 Nuchal ligament | 20 Intercostal muscle |
| 10 Splenius capitis muscle | 21 Arch of T3 vertebra |
| 11 Semispinalis cervicis muscle | 22 Costotransverse joint (T3) |
| | 23 Lung (right) |
| | 24 Spinal cord |





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|---|---------------------------------------|
| 1 Occipital bone | 11 Spinous process (C7) |
| 2 Suboccipital fatty tissue | 12 Interspinous ligament |
| 3 Rectus capitis posterior minor muscle | 13 Splenius cervicis muscle |
| 4 M. splenius capitis | 14 Levator scapulae muscle |
| 5 Rectus capitis posterior major muscle | 15 Rhomboid muscle |
| 6 Semispinalis cervicis muscle | 16 Intercostal muscle |
| 7 Semispinalis capitis muscle | 17 Serratus posterior superior muscle |
| 8 Trapezius muscle, descending part (superior part) | 18 Multifidus muscle |
| 9 Nuchal ligament | 19 Third rib |
| 10 Trapezius muscle, transverse part (middle part) | 20 Costotransverse joint (T4) |
| | 21 Spinous process (T3) |
| | 22 Costal process (T4) |
| | 23 Lung (right) |

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