**HC Zenuwstelsel**

**Anatomie module 4 leerjaar 1**

**![Afbeelding met tekst, insect

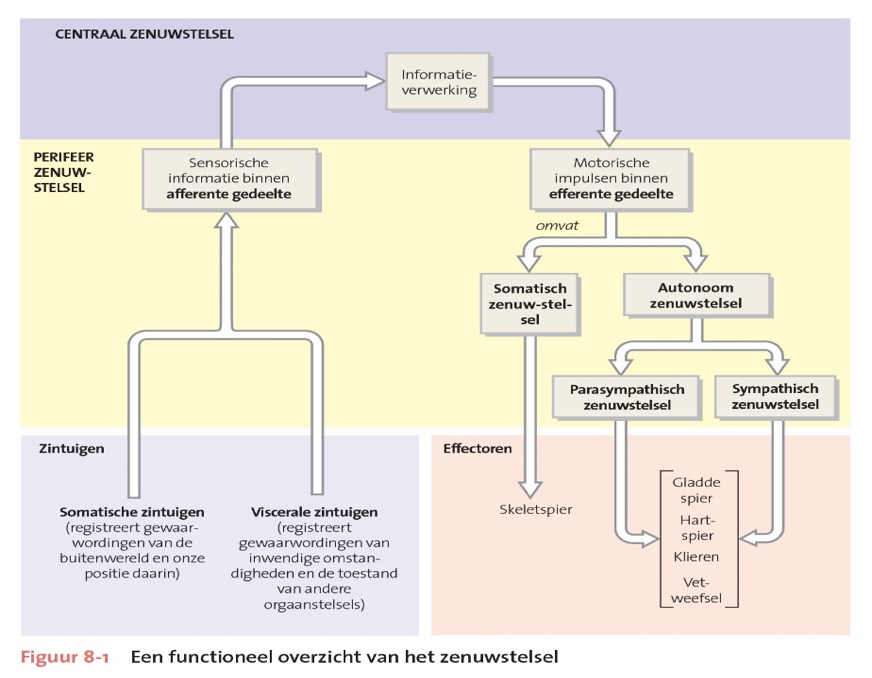
Automatisch gegenereerde 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**Anatomische indeling van het willekeurig zenuwstelsel**

Centraal zenuwstelsel en perifeer zenuwstelsel.

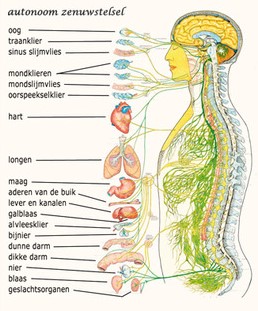
* CZS= centraal zenuwstelsel
* Hersenen en ruggenmerg
* PZS = perifeer zenuwstelsel
* Overige zenuwweefsel bijv. neuronen buiten het CZS

**Functionele indeling**

****

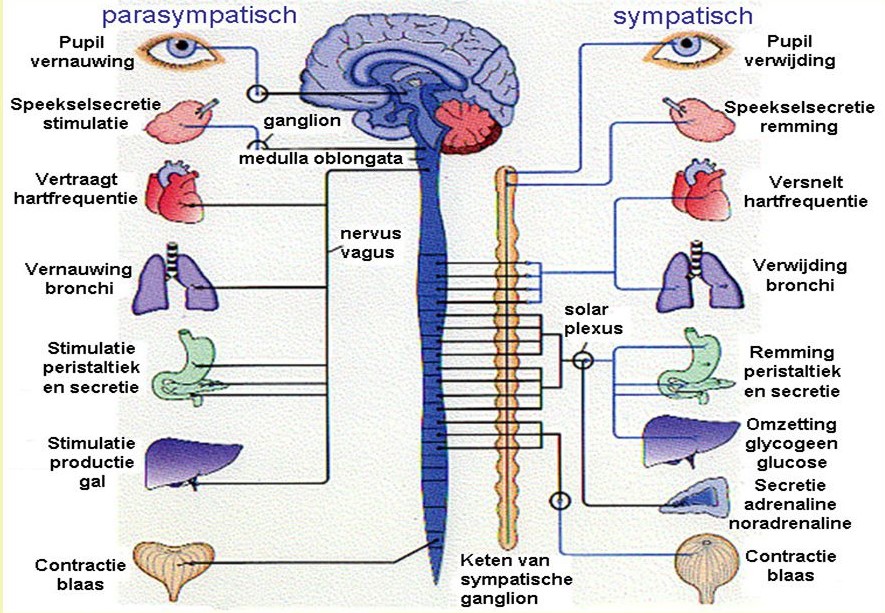
Zintuigen registreren iets 🡪 afferentie gedeelte sensorische informatie 🡪 perifeer zenuwstelsel (stel ik raak iets 🡪 gewaarwording aanraking (vanuit perifere zenuwstelsel via het ruggenmerg naar de hersenen toe)).

**Functionele indeling efferente gedeelte**

****

* Animale/ somatische zenuwstelsel (willekeurig) 🡪 skelet spieren
* Vegetatieve /autonome (AZS) zenuwstelsel (onwillekeurig) 🡪 gladde spieren

**Autonome zenuwstelsel(AZS)**

****

**Wat wij niet kunnen bepalen, maar ons eigen lichaam bepaald.**

*Verschil parasympatisch en sympathisch?*

Parasympatisch is voor rust

Sympathisch is voor actie

**Functionele indeling neuronen**

* **Motorische zenuwen/efferente baan**Deze geven opdrachten van de hersenen aan de spieren door. Deze signalen vertrekken vanuit het motorische gebied in de cortex en zorgen ervoor dat we bv. een spier aanspannen om een voorwerp weg te duwen.
* **Sensorische zenuwen/afferente baan**Dit is de omgekeerde beweging: ze geleiden de sensorische informatie zoals pijn, koude, warmte, tastzin, positie van ledematen naar het centraal zenuwstelsel.
* **Schakelcellen/associatieneuronen:**

Doorschakelen sensorische info en coördinatie motorische activiteit (complexe reacties bij geheugen, plannen, leren,…)

**Neuronen/zenuwcellen:**

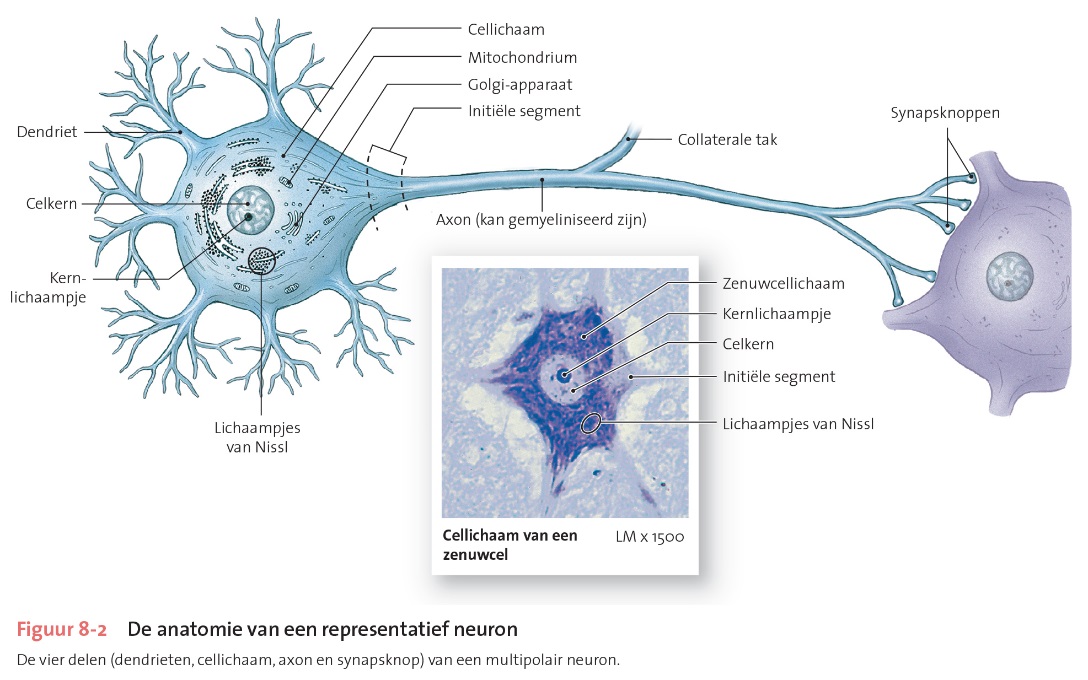
* **Cellichaam**: rondom grote ronde kern en daarnaast vrije ribosomen en RER (ruw endoplasmatisch reticulum) > Nissl-lichaampjes (grijze stof)
* **Dendrieten**: vertakte structuren voorontvangen van prikkel (chemisch, mechanisch, elektrisch) > cellichaam
* **Axon**: prikkelgeleiding door ontstaan actiepotentiaal (elektrische impuls)

**(Zorgen voor de prikkelgeleiding van de ene zenuwcel naar de andere)**

* **Synaps**: plaats van communicatie met ander neuron of andere cel aan einde van axon, via een synapsknop

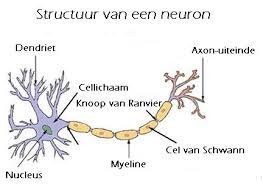
**Neuronen/zenuwcellen en neuroglia:**

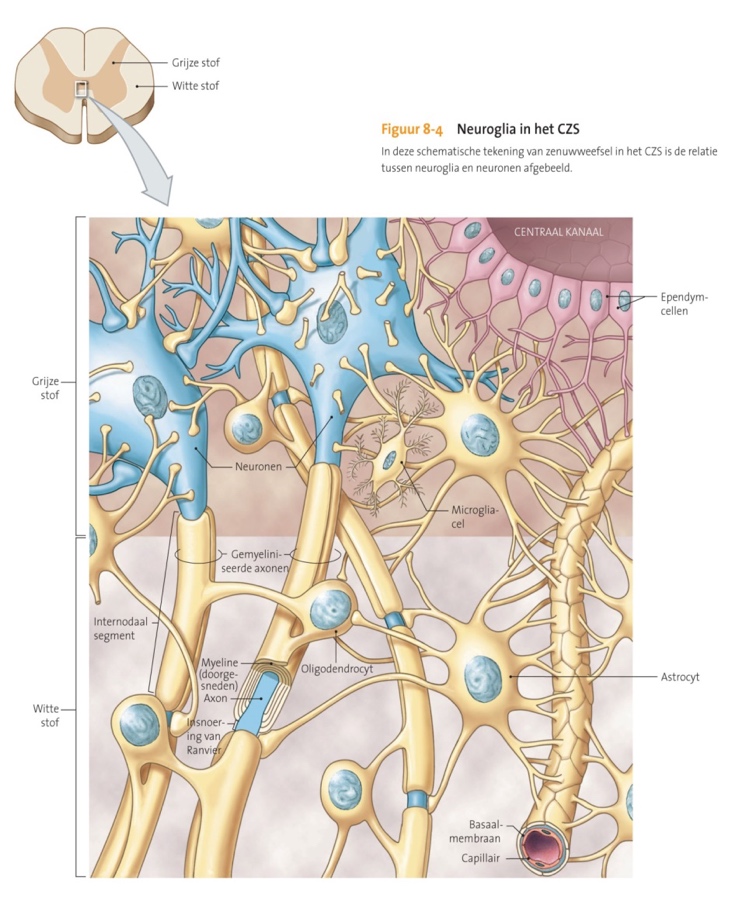
**Neuron = basiseenheid van alle neurale functies > communicatie**

****

Lichaampjes van nissl🡪 zorgen dat we kunnen spreken over grijze en witte stof.

Knopen van ranvier en cellen van Schwann 🡪 zorgen dat de prikkelgeleiding snel verloopt. Afwijking witte stof 🡪 bijvoorbeeld bij mensen met MS





**Neuroglia:**

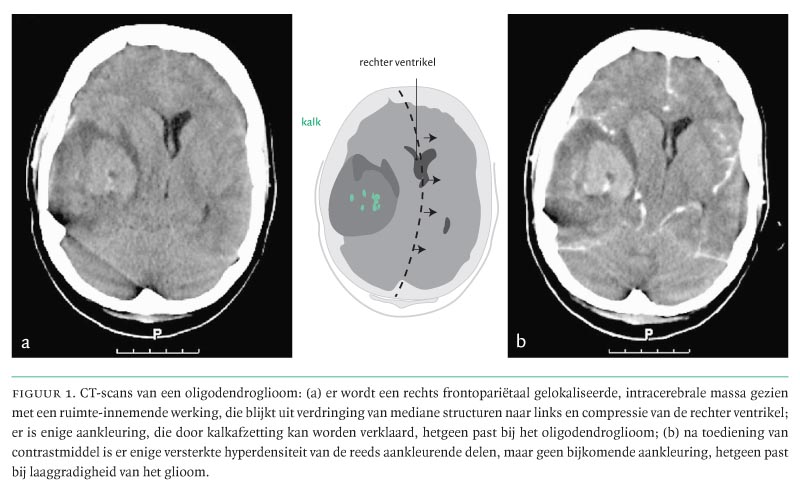
* **Glia = steunweefsel**
* **In CZS 4 soorten:**
  + **Astrocyten (bloed/hersenbarrière 🡪**hebben we gemaakt om onze hersenen te beschermen, dat niet alle stoffen vanuit ons bloed naar onze hersenen gaan dat die niet met onze hersenen in aanraking komen**)**
  + **Oligodendrocyten (steuncellen om de myeline schede)**
  + **Microgliacellen (fagocyterend 🡪** halen stoffen weg)
  + **Ependymcellen (**bekleding van holtes🡪 ventrikels**)**
* **In PZS 2 soorten:**
  + **Satellietcellen**
  + **Schwann-cellen**

Tussen de cellen zie je allemaal schakelcellen 🡪 hebben met het doorgeven van complexe signalen. Het bloedvat zorgt ervoor dat niet alle toxische stoffen in de hersenen komen. Zitten wel in onze bloedbaan, maar komen niet door het membraan heen ter bescherming van onze hersenen.

Oligodendrocyten 🡪 die zitten om de myeline schede heen.

Microgliacellen 🡪 eten in de hersenen vloeistof allemaal vervuilingen of (zitten rondom de holtes).

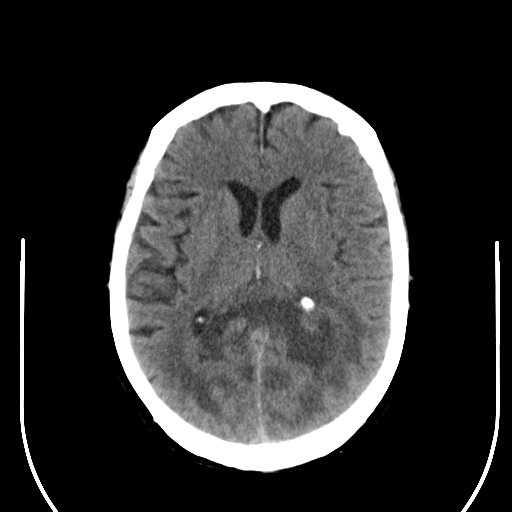
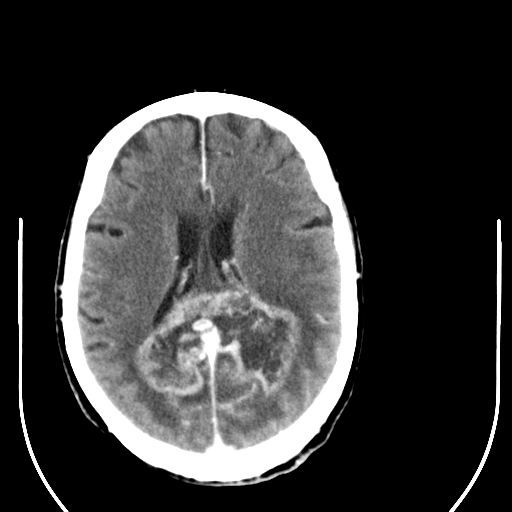
**Gliomen**



Dit is een foto van een hersentumor 🡪 zorgt ervoor dat het gezonde hersenweefsel naar een kant geduwd wordt 🡪 ontstaat druk, mensen krijgen hoofdpijn. De tumor gaat niet uit van de zenuwcellen maar van de steuncellen.

Dit is een oligodendrocinoom. Zorgen ervoor dat de prikkeloverdracht niet fijn verloopt 🡪 als ze iets doen gaat dit niet meer soepel. Opdrachten kunnen niet meer goed uitgevoerd worden, afhankelijk van in welk deel van de hersenen het zit.

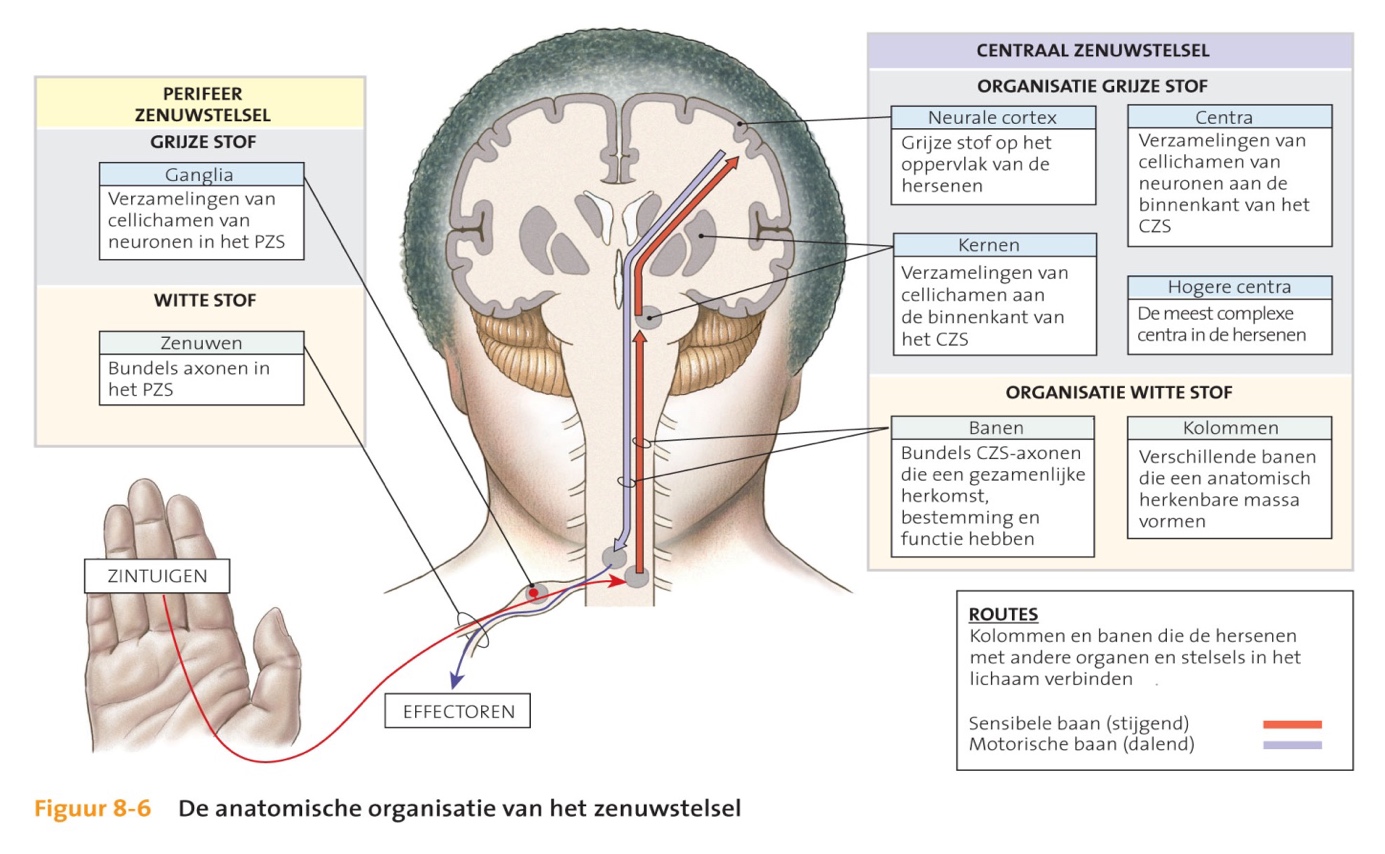
De tumor zit 🡪 frontopariëntaal (frontale kwab en pariëtale kwab) het is een glioom dus een goedaardige structuur (groeit heel lanzaam)

!!Andere tumor, de vlinder tumor vanuit de stamcellen.

**Systema nervosum**

**Organisatie van grijze en witte stof in CZS:**



Grijze stof 🡪 hersencellen, zenuwcellen hersenen.

Witte stof 🡪 zorgen voor de prikkeloverdracht.

In de cortex zitten de hersencellen.

Grijze vlakken zitten de basale kernen.

Allemaal hersencellen waarlangs de banen richting het ruggenmerg gaan.

Bij complexe taak.

Afbeelding met tekst, klok, horloge, poseren

Automatisch gegenereerde beschrijving**Grijze en witte stof**

Grijze stof= lichaampjes van Nissl

Witte stof= myeline

MRI-plaatje hersenen 🡪

Grijze vlakken 🡪 basale kernen

Witte in het midden is de witte stof.

Als we kijken bij iemand naar de hersenen 🡪 kijken of links en rechts hetzelfde is etc. kijken naar afwijkingen.

We zien in ons ruggenmerg dat er een vlindervorm in het ruggenmerg 🡪 cellen in het midden 🡪 uitlopers aan de buiten kant. Bij de hersen is dit anders, stoffen migreren gedurende taak naar beneden.

**Indeling cranium**

* Huid
* Wekedelen
* Bot
* Vliezen:
  + Dura mater (harde hersenvlies)
  + Arachnoïdea (spinnenwebvlies)
  + Pia mater (zachte hersenvlies)
* Brein (hersenweefsel)

**Botstructuren**

**Os frontale:** voorhoofd

**Os parietale:** zijkant

**Os nasale:** neusbeen

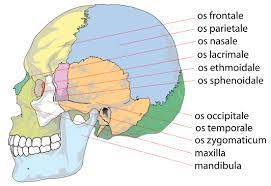
**Os occipitale:** achterhoofd

**Os temporale:** slaapbeen

**Maxilla:** bovenkaak

**Mandibula:** onderkaak

**Os zygomaticum**: jukbeenderen

****

**Botstructuren moet je kennen! (os ethmoidale en os sphenoidale nog niet)**

**Zenuwstelsel**

* Hersenvliezen / meninges : 3 lagen die CZS omgeven en beschermen:

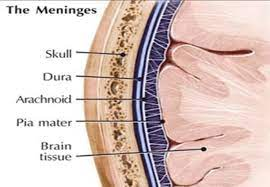
Meninges 🡪 ken je van hersenvliesontsteking 🡪 hier word je tegenwoordig voor ingeënt)

* + Dura mater: harde vlies onder schedeldak
  + Arachnoidea: spinnenwebvlies bedekt hemisfeer
  + Pia mater: zachte vlies volgt gyri en sulci van cortex cerebri
  + Hersenen zijn niet glad, zitten vouwen in 🡪 voor oppervlakte vergroting.
* Rechter en linker hemisfeer (linker hersengedeelte en rechter hersengedeelte, functies hierin kunnen verschillen. Bijvoorbeeld: links en rechtshandige mensen)
* Cortex cerebri / hersenschors bevat gyri / windingen / vouwen en sulci / instulpingen en fissuren / diepe groeven > vormen lobben (lobus):
  + Lobus frontalis / frontaalkwab 🡪 ligt achter het os frontale
  + Lobus temporalis / temporaalkwab 🡪 achter het os
  + Lobus parietalis / pariëtaalkwab
  + Lobus occipitalis / occipitaalkwab

Onze hersenen zijn ingedeeld van de botten 🡪 die zijn ingedeeld aan de hand van de schedelnaden.

Os frontale is 1 bot

Je hebt 2 os temperales en pariëntale zijn een linker en rechter.

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Als we gaan kijken naar het bot en de dura’s (spinnenweb) die ertussen zit, volgt de windingen van de hersenen. Dee vliezen hebben we zodat

Intracerebrale bloeding: in de hersenen

Intracraniële bloeding: binnenzijde schedel, bloedingen die ontstaan bij de hersenvliezen.

Plaatje rechtsboven is een intercraniele bloeding 🡪 epidurale bloeding 🡪 is ontstaan, volgen van de vliezen 🡪 van de dura mater 🡪 nloeding zit op de dura mater.

Ontstaan 9 van de 10 keer door geweld op het hoofd.

**Centraal zenuwstelsel**

* Hersenen 🡪 twee hemisferen (linker- en rechterhersenhelft)
* Grote hersenen (cerebrum/telencephalon) (hersenen met de hersenkernen erin)
  + - Basale kernen
* Diencephalon
  + - Thalamus
    - Hypothalamus
    - Pijnappelklie/epifyser
    - Hypofyse (2)
* Hersenstam:
* Mesencephalon
* Pons
* Medulla oblongata (verlengde merg)

Hieruit treden allemaal zenuwcellen. Die ons in leven houden, ademhaling, bloeddruk etc. kruisen de zenuwbanen van rechter naar linker kant. Als iemand rechts een infarct krijgt heb je links de uitval.

* Cerebellum (ataxie) 🡪 kleine hersenen
* Ruggemerg (medulla spinalis)

Paarse / blauw in laatje 🡪 grote hersenen

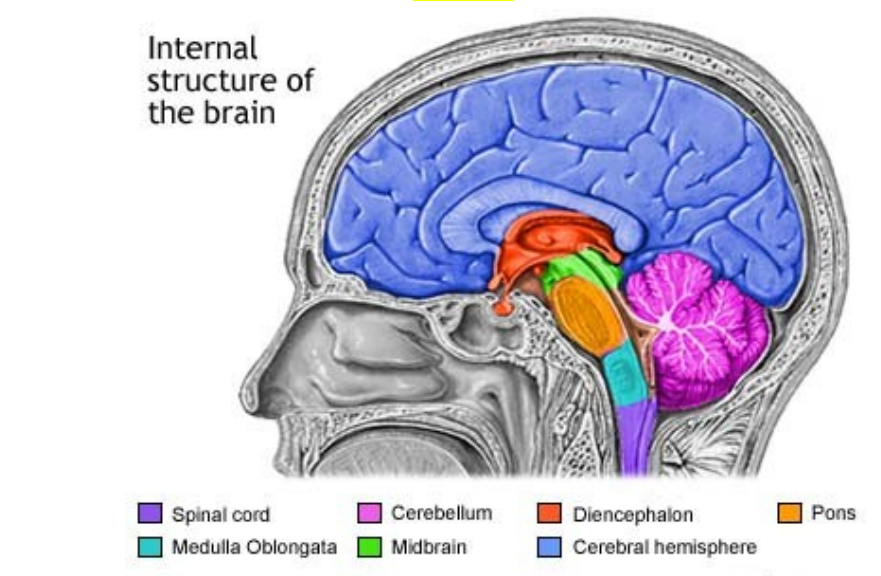
Rood/oranje 🡪 diencephalon

Groen 🡪 mensencephalon

Oranje 🡪 pons

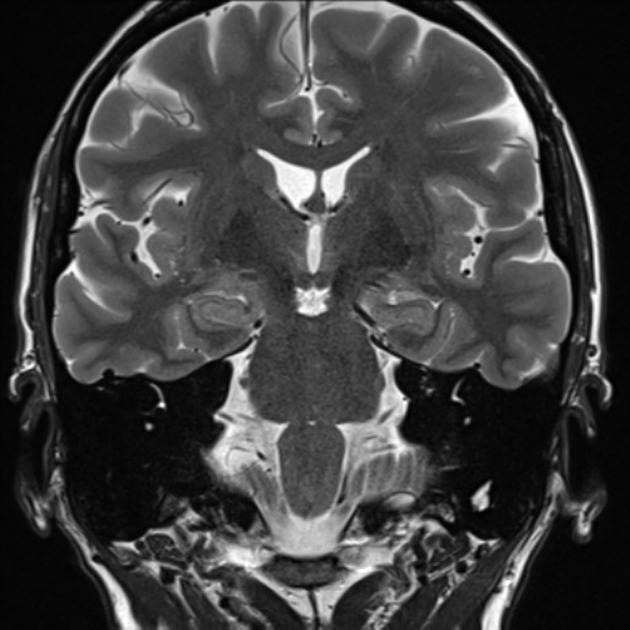
Lichtlauw 🡪 medula oblongata

Roze 🡪 kleine hersenen



**Cerebrum**

* Twee hemisferen (hersendelen)
* Cortex cerebri / hersenschors bevat **gyri** / windingen / vouwen en **sulci** / instulpingen en **fissuren** / diepe groeven > vormen lobben (lobus):

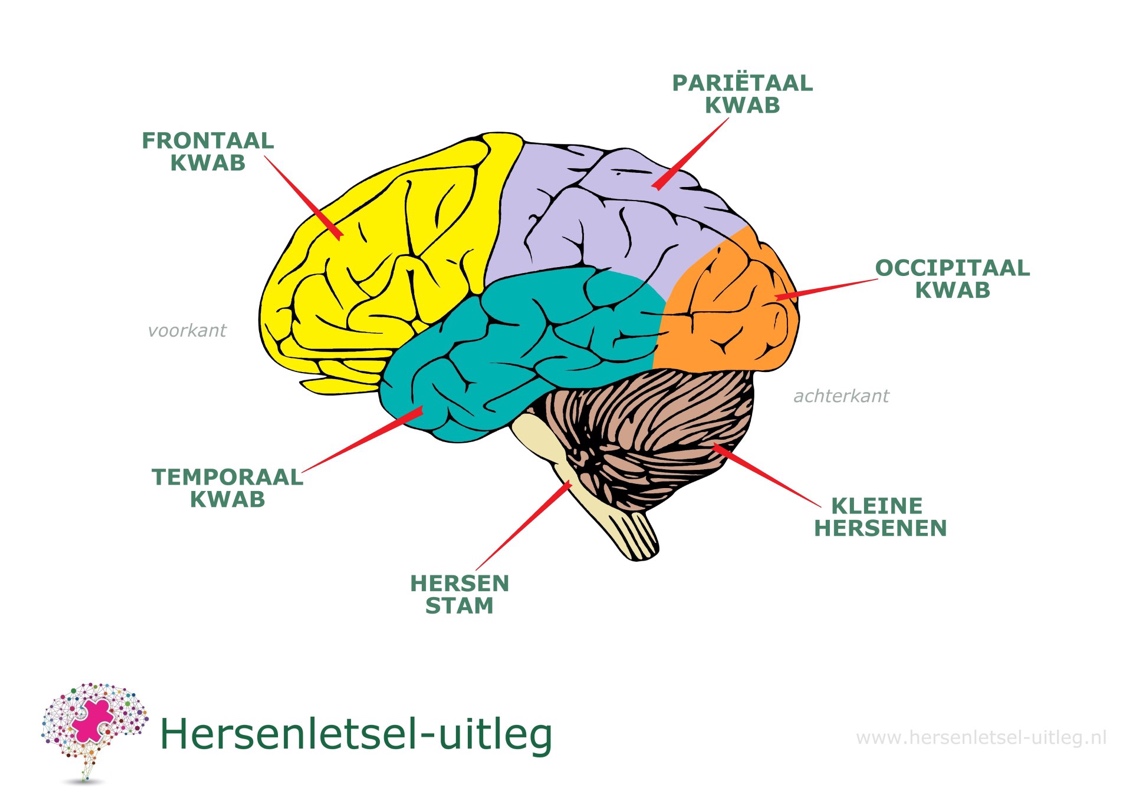
Afbeelding met tekst

Automatisch gegenereerde beschrijving

Linker is een sagittale doorsnede, rechts een frontale doorsnede.

Willen onze rechter en linker hersenen met elkaar communiceren zit er een balk tussen 🡪 corpus Colosseum

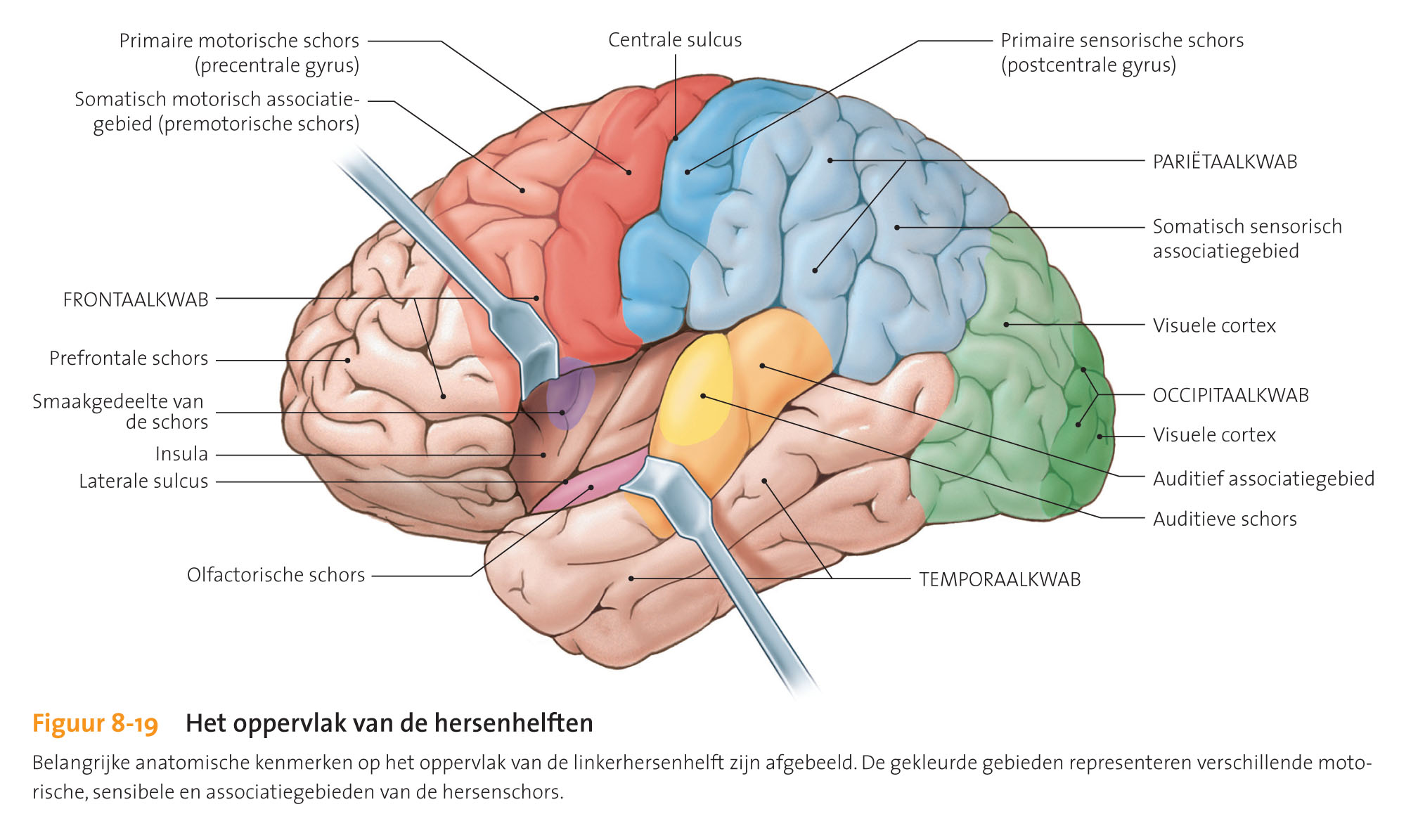
**Centraal zenuwstelsel**



**Hemisferen**

* Rechterhemisfeer:
* Emoties, ruimtelijke visualisatie
* Linker hemisfeer:
* Taalvaardigheden, analystische taken en nemen van beslissingen
* Kruiselings, communiceert met elkaar

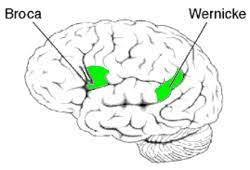
**Cerebrum**

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Centrale sulcus 🡪 verdeelt. Ons zicht zit in de visuele cortex.

Motorische cortex zit de centrale sulcus, en sensorische achter.

**Enkele verwerkingscentra**

* Sensorisch spraakcentrum gebied van Wernicke
* Motorisch spraakcentrum gebied van Broca
* Prefrontale cortex

<https://youtu.be/3oef68YabD0>

Mensen die weten wat ze willen zeggen, maar het niet goed kunnen uitspreken. 🡪 Afwijking in de Broca 🡪 deze mensen zijn vaak boos en geïrriteerd omdat ze het niet goed kunnen uitspreken.

<https>[://youtu.be/JWC-cVQmEmY](https://youtu.be/JWC-cVQmEmY)

Afwijking in de Wernicke 🡪 geeft geen antwoorden op de vragen, confarbieleren -> mensen vertellen hele verhalen, maar je kan er niks uithalen. Dit is bij het sensorische gedeelte, deze mensen zijn vaak blij en vrolijk.

Geen antwoord geven op de vraag. Dit wordt vaak verwisseld met dementie, maar dat is het niet deze mensen hebben wel nog een geheugen maar kunnen het je niet laten afwijken. Spraak afwijking en geen dementie.

**![Afbeelding met tekst

Automatisch gegenereerde beschrijving](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4UJaRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjAzOjI1IDE1OjU0OjIyAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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kernen**

* Corpus stratum:
* ****Nucleus caudatus
* Nucleus lentiformis
* Nucleus lentiformis:
* Globus Pallidus
* Putamen
* Amygdala 🡪 taak emoties, is bij iedereen anders.

Afbeelding met persoon, binnen

Automatisch gegenereerde beschrijving**Diencepalon**

* Thalamus🡪 in de hersenen is een structuur die de prikkels geleid.
* Epithalamus: (ook wel derde oog, te maken met of we goed kunnen slapen, en die maken hersenvocht in de plexus choroideus)
* Pijnappelklier
* (Melatonine)
* Plexus choroideus
* Hypothalamus 🡪 stuurt onbewust de regulering van de skeletspieren aan, bij boos kijk je automatisch boos en bij blij hetzelfde.
* Hypofyse

**Hypothalamus**

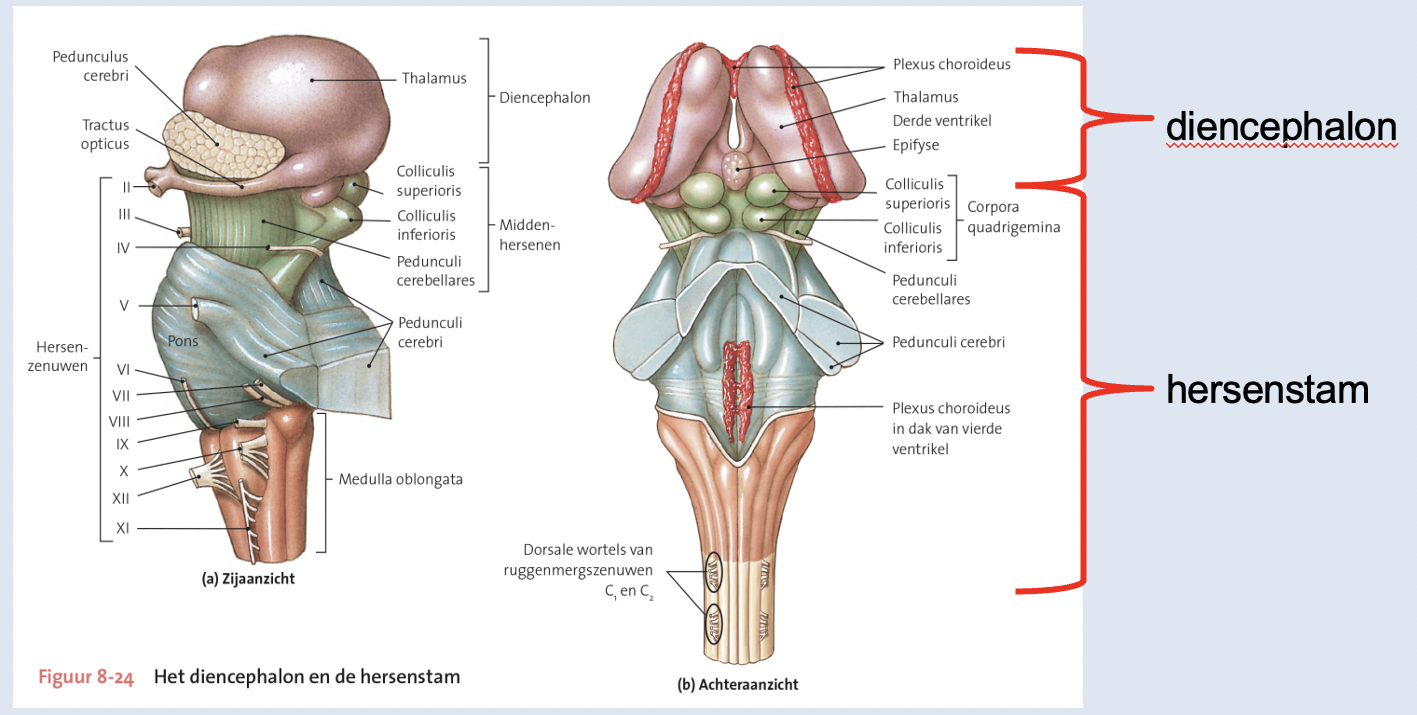
* Onbewuste regulering skeletspieren die gepaard gaan met emoties
* Reguleren activiteiten autonome centra in pons en medulla oblongata (hartslag, bloeddruk)
* Coördineren activiteiten zenuw en hormoonstelsel

**Systema nervosum**

**Belangrijkste hersendelen en functies: hersenstam**

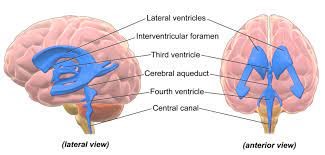
* **Hersenstam= mesencephalon / middenhersenen + pons / brug + medulla oblongata / verlengde ruggenmerg :** uittreden van de 12 hersenzenuwen
* **Mesencephalon**: bundels van stijgende en dalende zenuwvezels en sensorische en motorische kernen
* **Pons**: verbindt kleine en grote hersenen; betrokken bij beheersing van bewegingen en snelheid en diepte van ademhaling
* **Medulla oblongata**: verbindt hersenen met ruggenmerg; doorschakelen informatie en bevat hartreguleringscentrum en ademhalingscentrum (deze regelt dat je ademhaalt, dit kan een probleem zijn bij mensen met een dwarslaesie).

**Belangrijkste hersendelen en functies: diencephalon / tussenhersenen**



Afbeelding met tekst

Automatisch gegenereerde beschrijving**Ventrikels**



Hersenkamers🡪 zit het hersenvocht, als het niet goed wordt afgevoerd worden de hersenkamers zo breed (plaatje rechts boven) 🡪 waterhoofd. Tegenwoordig kunnen dan drains aangelegd worden in de hersenkamers. Die lopen dan vanuit de hersenkamers langs de nek naar beneden naar een punt waar het vocht wel opgenomen kan worden.

Wat kan hierbij fout gaan?

De drain kan verstopt raken, deze moet dan vervangen worden. De drain kan ook knikken, kan hierdoor dat de vloeistof niet verder naar beneden kan.

Taak VPK: opletten uitgezette ventriculie 🡪 iemand heeft gigantisch hoofdpijn.

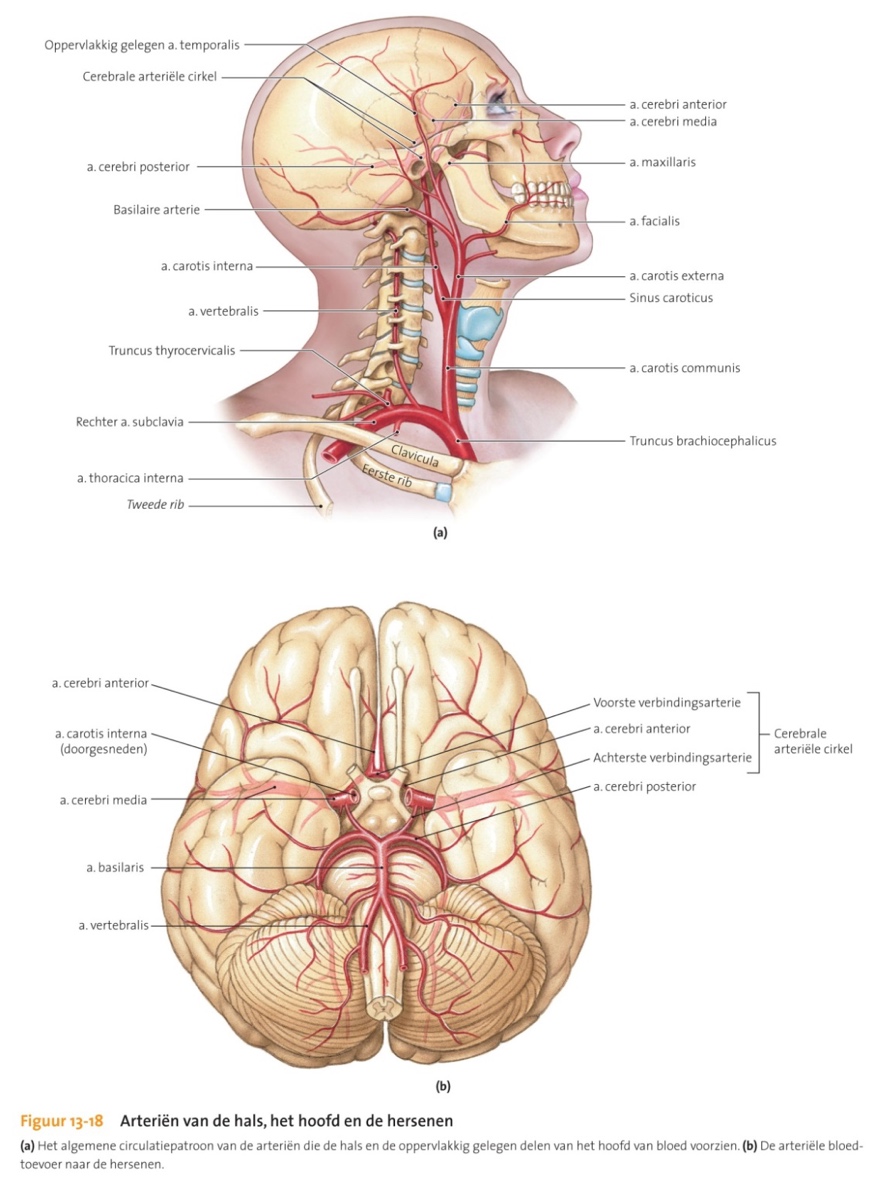
**Systema nervosum**

**Bloedvoorziening hersenen: (zijn er totaal 4)**

* Voor cerebrum vanuit cirkel van Willis: 🡪 is de cirkel op het plaatje. Als de bloedvoorziening aan de ene kant is afgesloten kan deze ervoor zorgen dat de bloedvoorziening van de andere kant.
* cerebri anterior rechter en links
* cerebri media rechter en links (80%!) (zorgt voor infarcten)
* cerebri posterior rechter en links
* Voor cerebellum: aftakkingen van a. basilaris

Arteria carotis 🡪 kan je de pols mee voelen.

Al deze grote bloedvaten vertakken zich in kleinere bloedvaten. Bij asculaire dementie krijg je afwijkingen van die bloedvaten.



Afbeelding met tekst, whiteboard

Automatisch gegenereerde beschrijving**Bloedvoorziening hersenen:**

* Vanaf arcus aortae / aortaboog:
* Rechts: a. brachiocephalica > rechter a. carotis communis en rechter a. subclavia met rechter a. vertebralis
* Links: linker a. carotis communis
* Links: linker a. subclavia met linker a. vertebralis
* Rechter en linker a. carotis communis > cirkel van Willis
* Rechter en linker a. vertebralis > a. basilaris > cirkel van Willis
* Belang van bloedvoorziening > vasculaire dementie

Altijd verschil tussen links en rechts !! 🡪 truncus brachio symfalica 🡪 carotis en subclavia ontspringen hiervan 🡪 linkerkant ontspringen die direct vanuit de aortaboog.

**Limbische systeem/functioneel systeem**

* Olfactorische cortex 🡪 de reuk
* Onderdelen van
  + Basale kernen
  + Gyri
  + Grote hersenen en diencephalon (banen) 🡪 functionele systeem bij een bepaalde taak.

Amygdala: (belangrijke functie bij emoties, kunt het niet voorspellen, zit gekoppeld aan herinneringen)

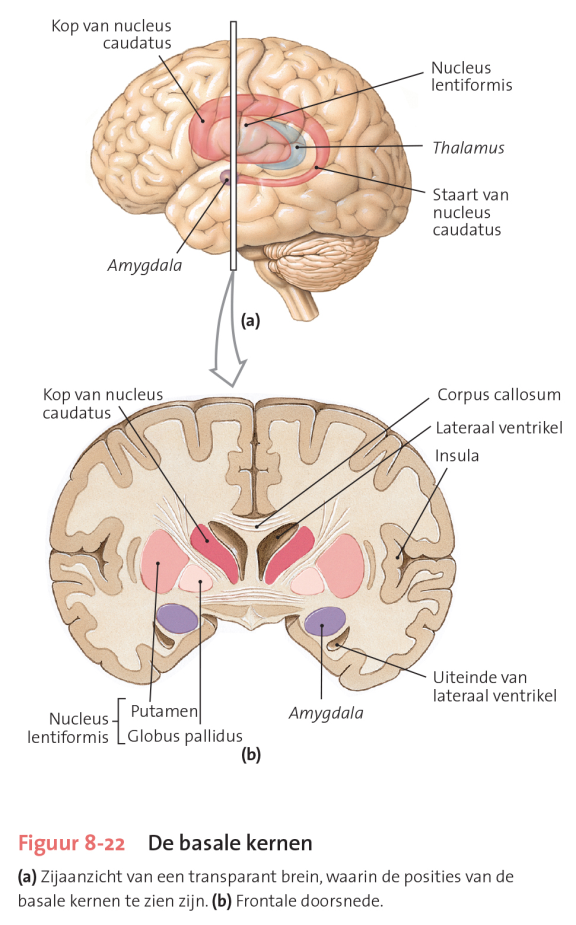
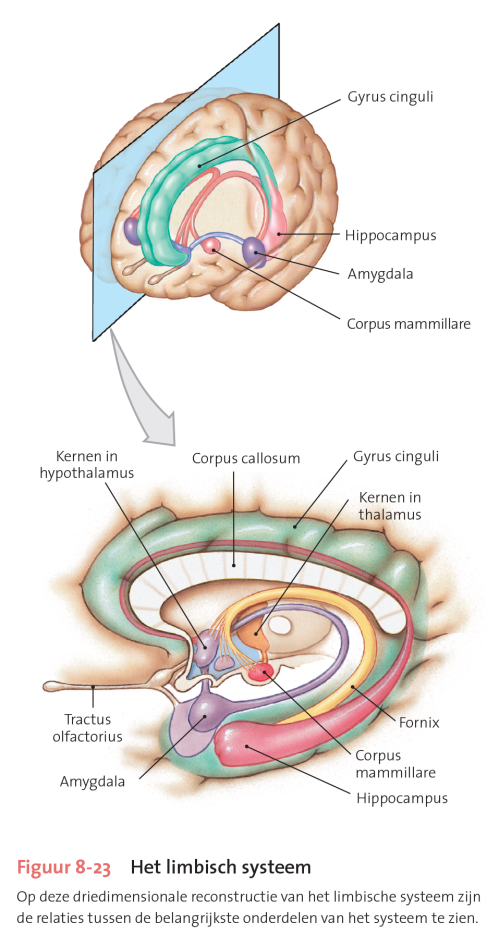
* Fight or Flight
* Koppelen van emoties aan herinneringen

Hypocampus (belangrijk bij dementie, hypocampus, omdat het lijkt op een zeepaardje) functie van het geheugen. Mensen met Alzheimer zullen hier afwijkingen aan hebben (kun je ziet op een CT)

* Opslaan lange termijn herinneringen
* Terugvinden herinneringen
* Gevaarlijke situaties herkennen en snel op reageren.
* Ruiken wat gevaarlijk is 🡪 hypocampus samen met de amygdala.
* Herinneren wat gevaarlijk is.

**Systema nervosum**

**Belangrijkste hersendelen en functies: basale kernen en limbische systeem**



**Geheugen**

* Functioneel
* Sensorisch geheugen/ zintuigelijk geheugen:

Ruiken, zien

* Korte termijngeheugen/ werkgeheugen : nieuwe informatie of terughalen van informatie uit lange termijn geheugen. (actief)

verbaal en visueel werkgeheugen

* Lange termijngeheugen: opslag

fietsen, anatomie

Via de hypocampus een korte en lang termijn geheugen.

Wel 60 verschillende soorten dementie:

* Ziekte van Alzheimer. 🡪 zit in de hypocampus
* Vasculaire dementie. 🡪 vloedvaten
* Frontotemporale dementie (FTD) ...
* Ziekte van Pick. ...
* Lewy body dementie. ...
* Korsakov. ...
* Creutzfeldt-Jakob. ...
* Parkinson.

**Alzheimer**

**Afbeelding met tekst

Automatisch gegenereerde beschrijving**

**Vasculaire dementie**

**Afbeelding met munt

Automatisch gegenereerde beschrijving**

**Afbeelding met wit, sluiten

Automatisch gegenereerde beschrijving**

**Frontotemporale dementie**

**Afbeelding met ongewerveld, donker, medaillon

Automatisch gegenereerde beschrijving**

**Aan de hand van de scan kan bepaald worden wat voor dementie iemand heeft.**

In de frontale kwab zit voornamelijk; gedrag. Deze mensen hebben ongeremd gedrag. Als je naar beneden kijkt zie je nog genoeg hersencellen en de banen lopen

**Symptomen bij dementie**

* Vergeetachtigheid
* Problemen met dagelijkse handelingen
* Kwijtraken van spullen
* Taalproblemen
* Slecht inschattings- en beoordelingsvermogen
* Terugtrekken uit sociale situaties vanwege faalangst
* Onrust en slaapproblemen
* Desoriëntatie in tijd en plaats
* Verandering van persoonlijkheid en gedrag: onrustig, bozig, angstig, achterdochtig, apathisch
* Ongeremd zijn, ongepaste opmerkingen maken
* Depressief
* Problemen bij het zien
* Incontinentie
* Vermagering
* Problemen met lopen, kauwen en slikken