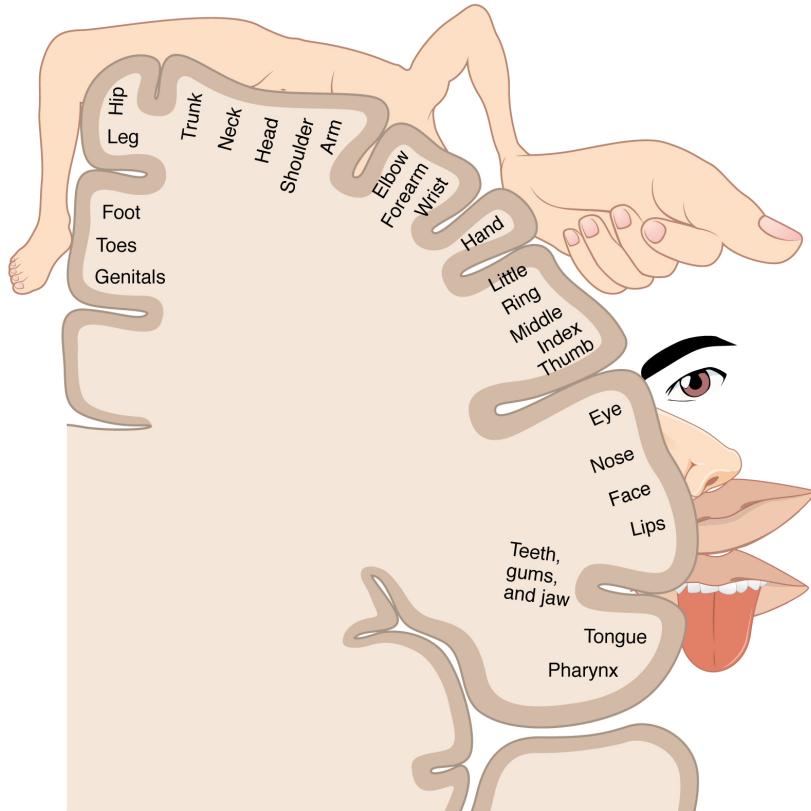


More Brain Anatomy

28 June 2017

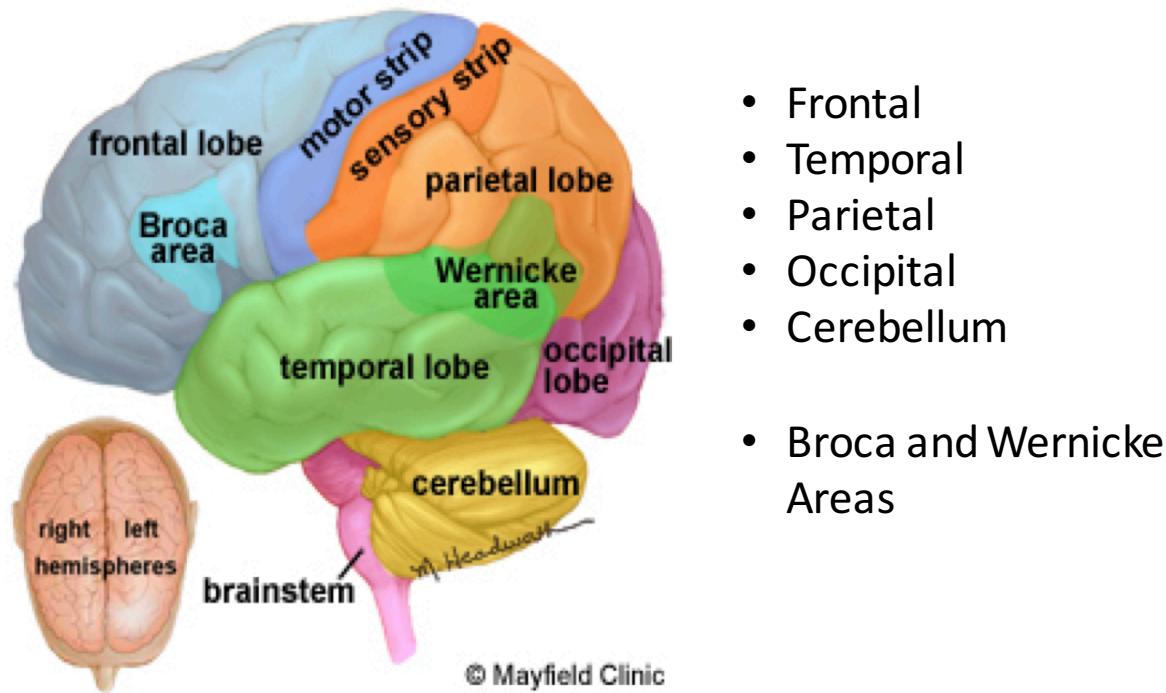
Homunculus (again...)



Somatotopy

- Body is spatially represented in the cortex
- This is seen elsewhere in the brain
 - Retinotopy – representation of visual field in areas of visual cortex.
 - Tonotopy – representation of acoustic ‘space’ (different frequencies) in auditory cortex).

Functions (again...)



- Frontal
- Temporal
- Parietal
- Occipital
- Cerebellum
- Broca and Wernicke Areas

Ventricles

(*ventriculus*, 'little belly')

Lateral ventricles

- Paired
- C-shaped
- Largest of brain's CSF-filled cavities

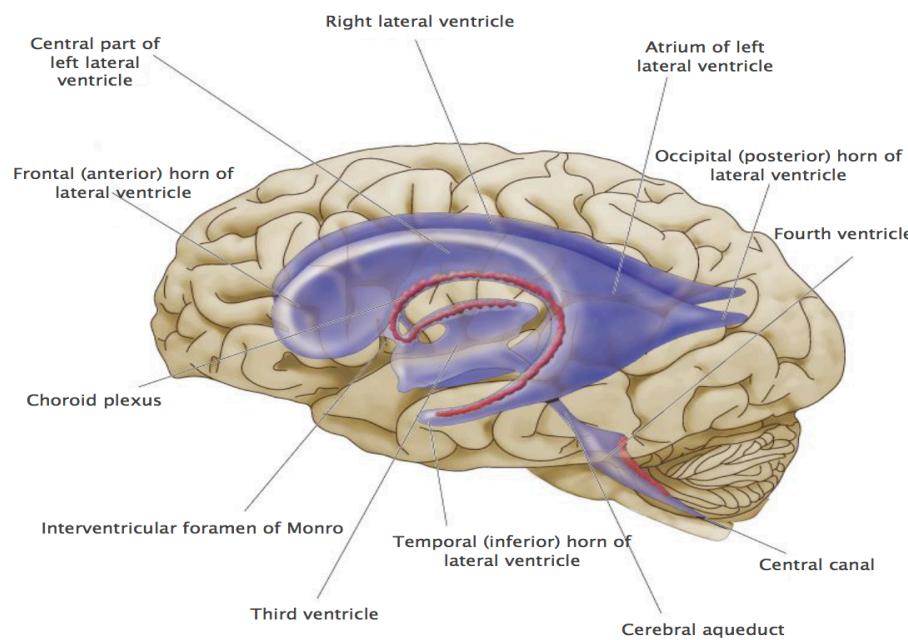
Third ventricle

- Midline ventricle

Fourth ventricle

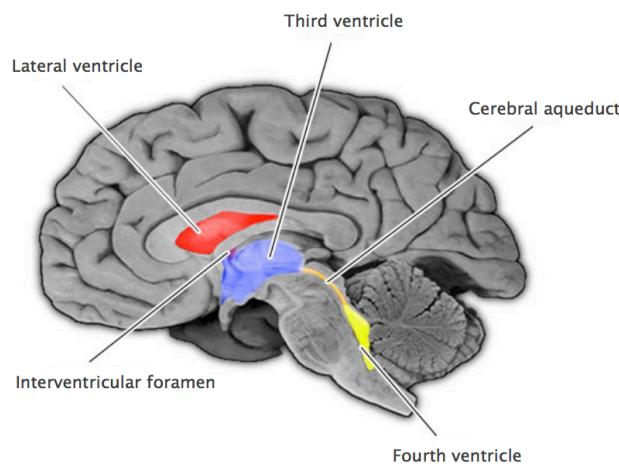
- Wedged between pons and cerebellum

Lateral ventricles

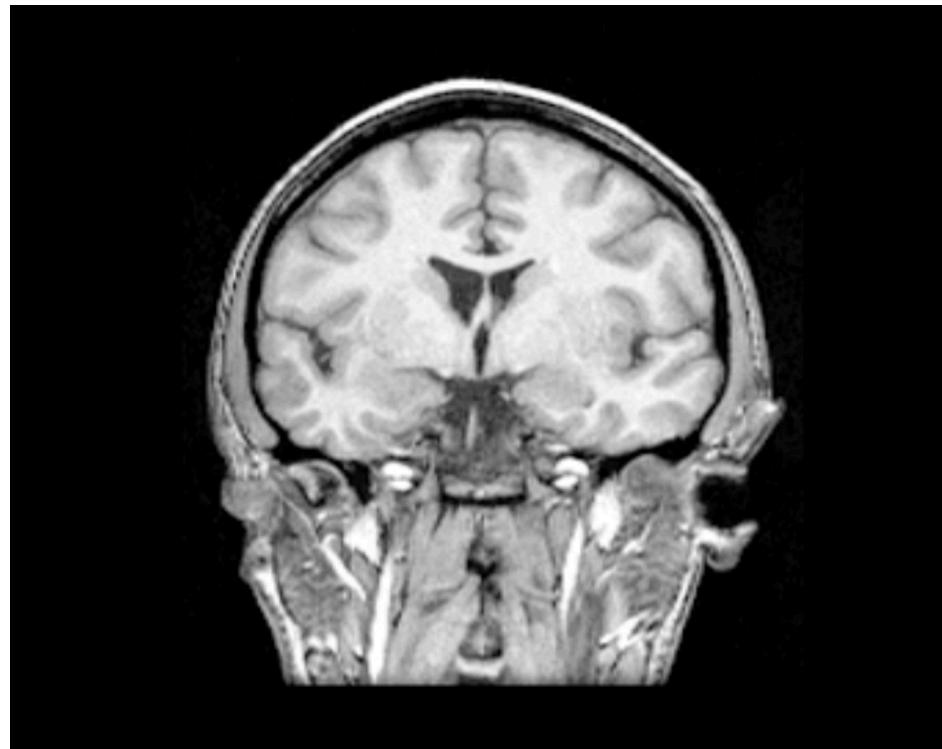


Flow of CSF through the Ventricles

- CSF flows in the lateral ventricles from interior horn of the lateral ventricles through the interventricular foramina (a.k.a. foramen of Monro) (foramen → ‘hole, opening’) and into the third ventricle.
- From the third ventricle, CSF passes into the fourth ventricle via the cerebral aqueduct.



Lateral and Third Ventricle



Lateral and Fourth Ventricle



Choroid plexus

- Spongy-looking tissue
 - Blood vessels
 - Pia
 - Choroid epithelium (specialized to secrete CSF)
- Produces most CSF (remaining secreted by brain capillaries)
- Hugs the roof and floor of the C-shaped cavity of the lateral ventricles (in the temporal horns and body of lateral ventricles); found in roof of third and fourth ventricles.