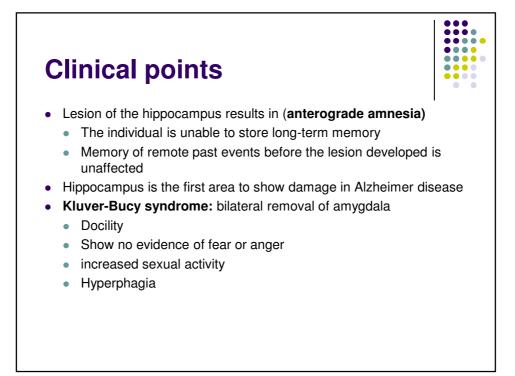


## **Function**

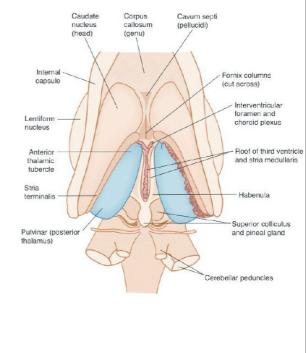


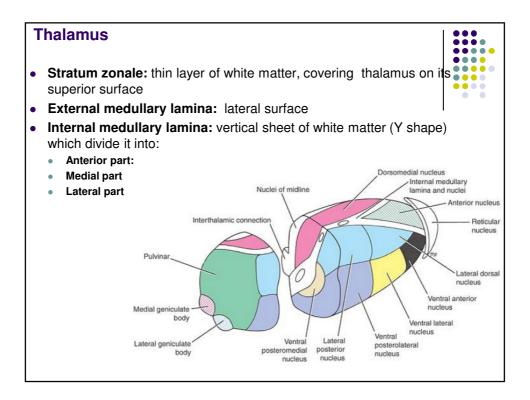
- Instinct (Hypothalamus)
- Memory (Hippocampus)
- Emotions (Hippocampus, Amygdala, Prefrontal cortex, septal areas)

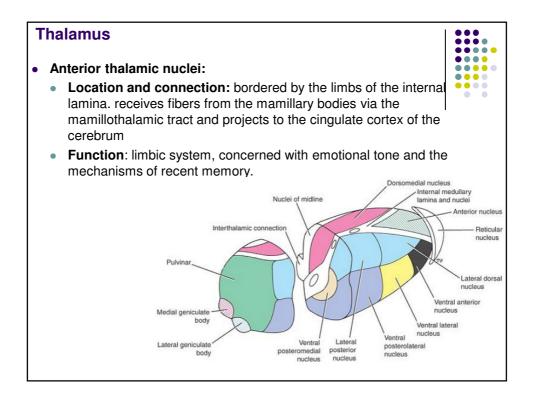


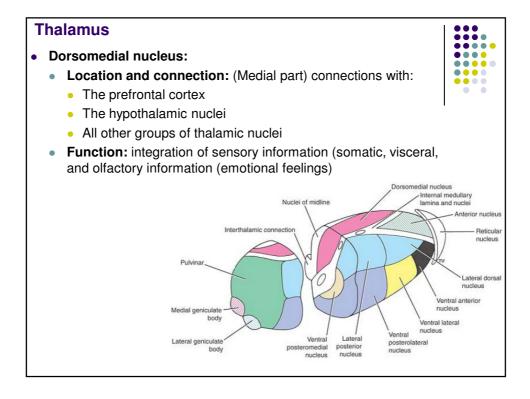
## Thalamus

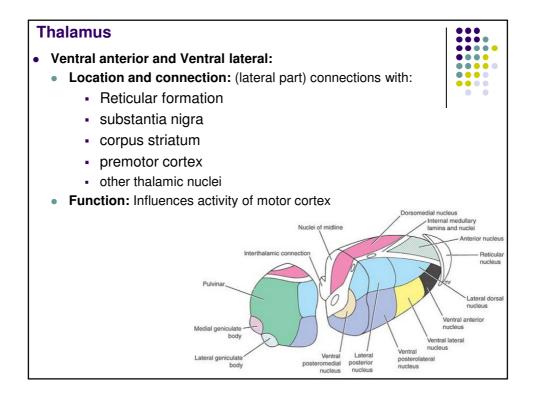
- large, ovoid, gray mass of nuclei
- The anterior end: narrow and rounded and forms the posterior boundary of the interventricular foramen.
- The posterior end: expanded to form the **pulvinar**
- The inferior surface is continuous with the tegmentum of the midbrain.
- The medial surface of the thalamus forms part of the lateral wall of the third ventricle (interthalamic connection)

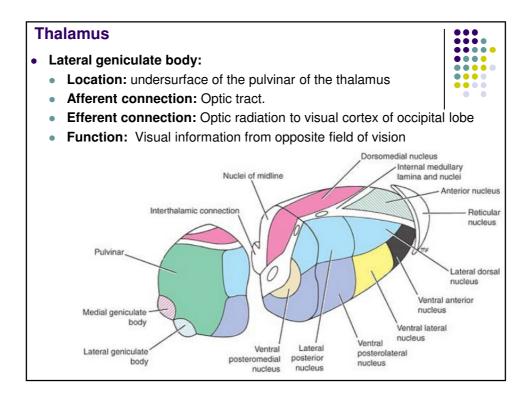


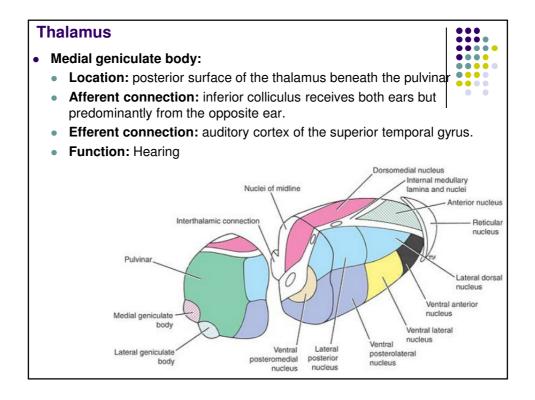


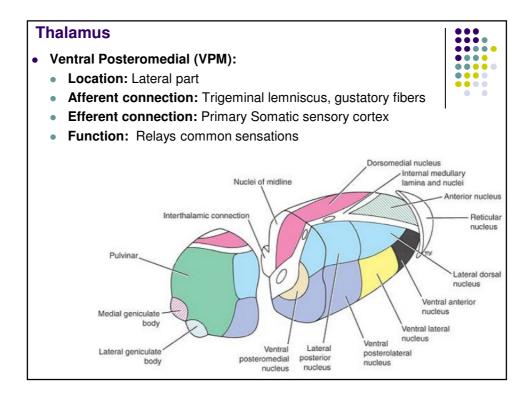


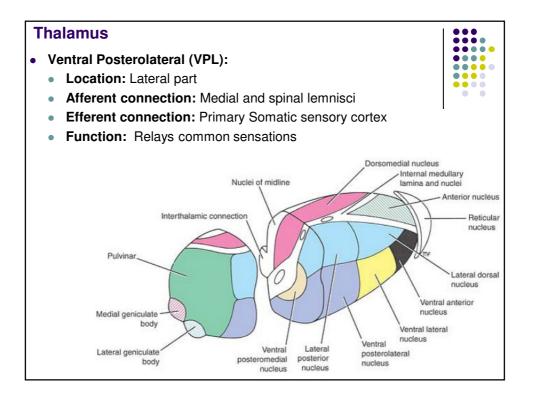


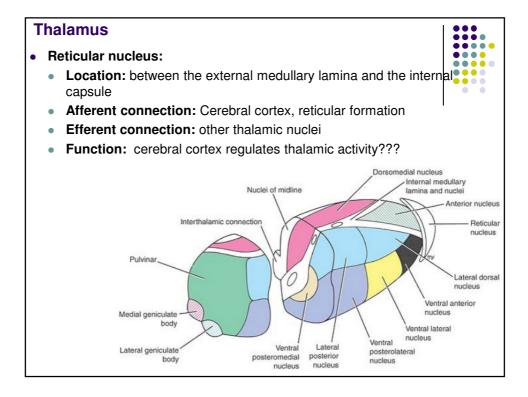












## Lesions of the Thalamus



- Damage to VPM and VPL:
  - **Due to**: Usually thrombosis or hemorrhage of one of the arteries supplying the thalamus.
  - **Symptoms**: loss of all forms of sensation, including light touch, tactile localization and discrimination from the opposite side of the body
  - Vascular lesion of the thalamus may also involve the midbrain and internal capsule and produce extensive motor and sensory deficits. (Symptoms overshadowed)
- Dejerine–Roussy syndrome (thalamic Pain):
  - · May occur as the patient is recovering from a thalamic infarct
  - Symptoms: Spontaneous pain occurs on the opposite side of the body.

