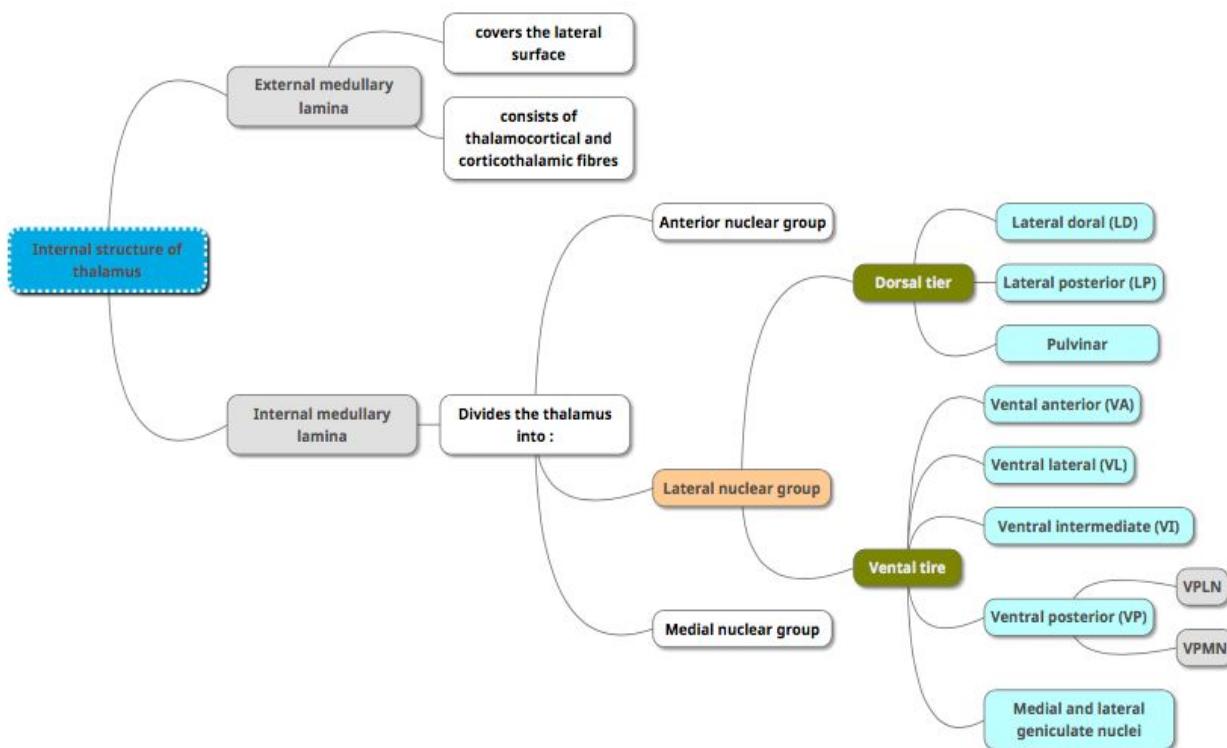


Surfaces of thalamus

surface	Connections
Lateral surface	<ul style="list-style-type: none"> • Posterior limb of internal capsule.
Medial surface	<ol style="list-style-type: none"> 1. Third ventricle. 2. Interthalamic connexus / adhesion (Massa intermedia).
Superior surface	<ol style="list-style-type: none"> 1. Lateral ventricle. 2. Fornix. "C-shaped bundle of nerve fibers in the brain that acts as the major output tract of the hippocampus"
Inferior surface	<ul style="list-style-type: none"> • Anterior : HYPOTHalamus • Posterior : SUBTHalamus.

The two ends of thalamus

Anterior end	<ul style="list-style-type: none"> • Forms a projection (Anterior tubercle) which lies just below the interventricular foramen "foramina of Monro that connect the paired lateral ventricles with the third ventricle"
Posterior end	<ul style="list-style-type: none"> • Pulvinar , which lies above : <ol style="list-style-type: none"> 1. Superior colliculus. 2. Lateral & medial geniculate bodies.



Projections of thalamic nuclei		
Nucleus	Afferent (Input)	Efferent (Output)
Anterior nucleus	Mammillary body	Cingulate gyrus
Medial nucleus	Hypothalamus	Frontal & prefrontal cortex
Lateral nucleus (VENTRAL tier) :		
Ventral anterior nucleus (VA)	Globus pallidus	Premotor cortex
Ventral lateral nucleus (VL)	Dentate nucleus	Primary motor cortex
Ventral posterior lateral nucleus (VPLN)	Medial & spinal lemnisci	Sensory cortex
Ventral posterior medial nucleus (VPMN)	Trigeminal lemniscus	Sensory cortex
Lateral geniculate body	Optic tract	Visual Cortex
Medial geniculate body	Lateral lemniscus	Auditory cortex

