

## "Abducens Nerve (Cranial Nerve VI)"

### » Overview

- Small motor nerve supplying the lateral rectus muscle of the eyeball.

## "Abducens Nerve Nucleus"

### » Location

- Situated beneath the floor of the upper part of the fourth ventricle, close to the midline and beneath the colliculus facialis.

### » Inputs

- Receives afferent corticonuclear fibers from both cerebral hemispheres.
- Receives the tectobulbar tract from the superior colliculus, connecting the visual cortex to the nucleus.
- Receives fibers from the medial longitudinal fasciculus, linking it to the nuclei of the third, fourth, and eighth cranial nerves.

## "Abducens Nerve Course"

### » Pathway

- Fibers pass anteriorly through the pons.
- Emerge in the groove between the lower border of the pons and the medulla oblongata.
- Passes through the cavernous sinus, lying below and lateral to the internal carotid artery.
- Enters the orbit through the superior orbital fissure.

### » Function

- Entirely a motor nerve supplying the lateral rectus muscle.
- Responsible for turning the eye laterally.