

# Paramedian pontine reticular formation

The paramedian [pontine reticular formation](#) (PPRF) is a collection of nerve cells located in the brainstem, specifically within the pons. The PPRF plays a crucial role in the control of horizontal eye movements, particularly in the initiation and coordination of voluntary gaze shifts.

Nerve signals originating in the PPRF are involved in the control of eye movements, sending commands to the cranial nerve nuclei that regulate the muscles responsible for horizontal eye movement. This coordination is essential for tasks such as tracking moving objects in the visual field.

Disruptions or lesions in the paramedian pontine reticular formation can lead to abnormalities in horizontal eye movements, resulting in conditions such as internuclear ophthalmoplegia (a disorder affecting the coordination of eye movements).

Understanding the role of the PPRF is vital in the context of neurology and ophthalmology, as it contributes to our comprehension of the neural circuits involved in eye movement control.

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The paramedian pontine reticular formation, also known as PPRF or paraabducens nucleus, is part of the pontine reticular formation, a brain region without clearly defined borders in the center of the pons. It is involved in the coordination of eye movements, particularly horizontal gaze and saccades.

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