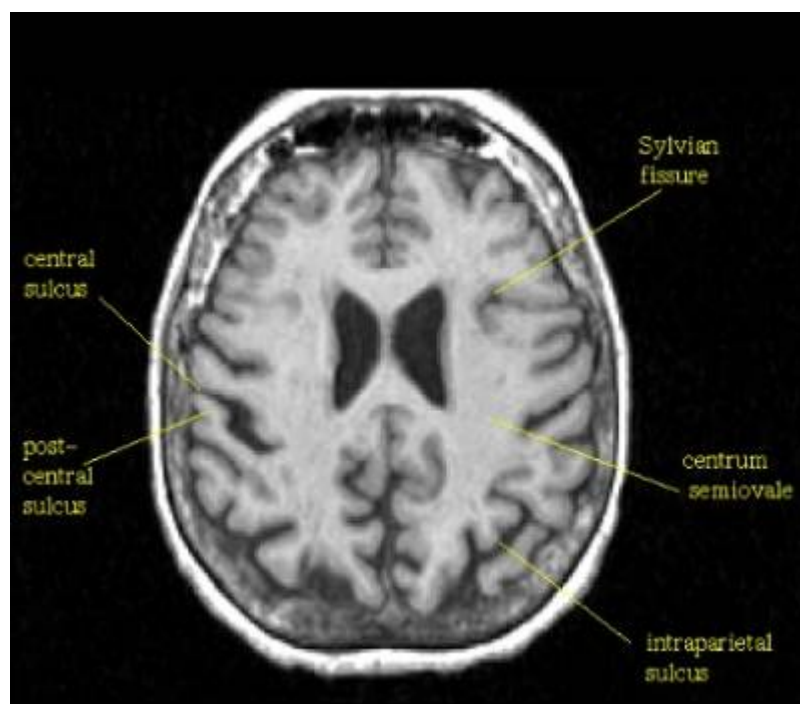


Centrum semiovale



The centrum semiovale is a mass of [white matter](#), superior to the lateral ventricles/[corpus callosum](#), present in each of the cerebral hemispheres under cerebral cortex.

It has a semi-oval shape and contains projection, commissural, and association fibers. Inferiorly these fibres are continuous with the [corona radiata](#).

Related pathology

Centrum semiovale (along with the basal ganglia) are a typical site for [perivascular spaces](#)

Fewer [centrum semiovale enlarged perivascular spaces](#) may be a [biomarker](#) for [idiopathic normal pressure hydrocephalus](#). This pattern may be caused by mechanical [obstruction](#) due to upward displacement of the brain leading to reduced [glymphatic](#) clearance ¹⁾.

¹⁾

Switzer AR, Graff-Radford J, Gunter JL, Elder BD, Jones DT, Huston J, Jack CR, Cogswell PM. Patients with normal pressure hydrocephalus have fewer enlarged perivascular spaces in the centrum semiovale compared to cognitively unimpaired individuals. Clin Neurol Neurosurg. 2024 Jan 17;237:108123. doi: 10.1016/j.clineuro.2024.108123. Epub ahead of print. PMID: 38262154.

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