

The transcisternal route consists of the following three approaches: 1) anterior interhemispheric [transcallosal approach](#), which exposes the anterior and superior [thalamus](#); 2) posterior interhemispheric transcallosal approach, which exposes the posterosuperior thalamus; and 3) [supracerebellar infratentorial approach](#), which exposes the posteromedial cisternal thalamus and can be extended laterally to approach the posterolateral thalamus by cutting the [tentorium](#). The three transcortical approaches are the 1) superior [parietal lobule](#) approach, which exposes the posterosuperior thalamus and is particularly advantageous in the setting of hydrocephalus; 2) [transtemporal gyrus approach](#), which exposes the inferolateral thalamus; and 3) [transsylvian transinsular approach](#), which exposes the lateral thalamus (slightly more superiorly and posteriorly) and is advantageous for pathologies extending laterally into the [peduncle](#), [lenticular nucleus](#), or [insula](#).

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