

In Albert Rhoton, The Posterior Fossa Veins, Neurosurgery. 2000 Sep;47(3 Suppl):S69-92, the [Lateral Mesencephalic vein](#) corresponds to the [Anastomotic Lateral Mesencephalic Vein](#) (H) of Huang, while the Pontotrigeminal Vein corresponds to the Brachial Tributary of Petrosal Vein (G) of Huang.

Whatever its name, this important and relatively constant longitudinal venous conduit connects the basal vein (or [posterior mesencephalic vein](#)) at the upper aspect of the midbrain to the [petrosal vein](#) (P) at the level of the lower pons. Thus, it serves as a conduit between the superior group of veins which usually drain into the Galen to the anterior group which drains into the Petrosal Vein (P) and frequently via bridging veins (BR) into the [cavernous sinus](#).

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Last update: **2024/06/07 02:54**

