

1. Septal vein. This rests on the medial surface of the frontal horn of the lateral ventricle.
2. Anterior caudate vein. This rests on the superior surface of the head of the caudate nucleus which is on the lateral surface of the posterior part of the frontal horn of the lateral ventricle.
3. Posterior caudate veins. These originate from the region of the body of the caudate nucleus also on the lateral superior surface of the body of the lateral ventricle.
4. Thalamostriate vein. This vein rests in the groove between the anterior end of the thalamus and the inferior border of the head of the caudate nucleus.
5. Direct lateral vein. This vein drains the lateral wall of the posterior part of the body of the lateral ventricle.
6. Lateral atrial vein. Its lateral position is confirmed by the fact that it crosses the course of the internal cerebral vein, drains into the inferior ventricular vein (9) and therefore is in a different plane than these medial veins.
7. Occipital vein. The region of its angulation marks the posterior border of the atrium of the lateral ventricle.
8. Great vein of Galen
9. Inferior ventricular vein (faintly seen)
10. Straight sinus
11. Posterior portion of the superior sagittal sinus. This is projected away from the inner table, not because there is an epidural collection of fluid or mass, but because this posterior region of the superior sagittal sinus frequently is off the midline and therefore, more anteriorly located on the inner table of the occipital bone.
12. Transverse sinus
13. Venous angle. This is a normal position, almost straight vertical from the region of the posterior clinoid. This rests in the posterior margin of the foramen.
14. Internal cerebral vein

If the distal portions of all these veins are all joined this outlines the extent of the lateral ventricle. On non-magnified films, the intramedullary portions of the subependymal veins are rarely visualized and are only normally visualized in the region of the lateral superior atrium.

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