

Parmar et al. from Bengaluru, Karnataka, India, used 26 postmortem cadaveric cerebral hemispheres (13 right and 13 left hemispheres).

Several neurosurgically significant mesial structures were studied by blunt dissection under the operating microscope. The observed surface-based qualitative variations and right-left asymmetries were tabulated under well-defined, moderately defined, and ill-defined classification.

Among the areas, [uncus](#) (100%), [limen insulae](#) (88.4%), [rhinal sulcus](#) and [hippocampus](#) (81%), [intralimbic gyrus](#) (77%), [Heschl's gyrus](#) (73%), [gyrus ambiens](#), [semilunar gyrus](#), [sulcus semiannularis](#), and [calcar avis](#) (69.2%) were well defined, and [band of Giacomini](#) (38.4%) was found to be distinctly ill-defined areas in the list. Further, our analysis confirmed the presence of consistent left-greater-than-right asymmetry in all the areas of interest in temporal region under well-defined category. Rightward asymmetry was noticed in moderately defined and ill-defined classification. However, no asymmetry was detected in the uncus region. P value for all the obtained results was >0.05.

The study offers a preliminary anatomic foundation toward the better understanding of temporal lobe structures. These variations may prove valuable to neurosurgeons when designing the appropriate and least traumatic surgical approaches in operating the temporomesial lesions <sup>1)</sup>.

<sup>1)</sup>

Parmar SK, Pruthi N, Ravindranath R, Ravindranath Y, Somanna S, Philip M. Anatomical Variations of the Temporomesial Structures in Normal Adult Brain - A Cadaveric Study. J Neurosci Rural Pract. 2018 Jul-Sep;9(3):317-325. doi: 10.4103/jnpr.jnpr\_73\_18. PubMed PMID: 30069085; PubMed Central PMCID: PMC6050764.

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