

Hippocampal region

(CA fields, [dentate gyrus](#), and subicular complex)

The [entorhinal cortex](#) (EC), located in the parahippocampal gyrus, is considered to be part of the hippocampal region because of its anatomical connections.

Visualization of hippocampal internal architecture (HIA) may be improved at [7 Tesla magnetic resonance imaging](#). HIA asymmetry is a significant predictor of laterality of seizure onset in TLE patients and has a similar predictive value as hippocampal volume asymmetry, however, HIA asymmetry at 7 T does not have extra value in determining epilepsy lateralization and neither does predict surgical outcomes ¹⁾.

[Uncinate seizures](#) originating in the inferior medial temporal lobe, usually in the hippocampal region. May produce olfactory hallucinations (kakosmia or cacosmia: the perception of bad odors where none exist).

¹⁾

Zhang Y, Lv Y, You H, Dou W, Hou B, Shi L, Zuo Z, Mao W, Feng F. Study of the hippocampal internal architecture in temporal lobe epilepsy using 7 T and 3 T MRI. *Seizure*. 2019 Jul 9;71:116-123. doi: 10.1016/j.seizure.2019.06.023. [Epub ahead of print] PubMed PMID: 31325818.

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