

Quadrantanopia

Implies that only the respective superior or inferior quadrant of the [visual field](#) is affected.

[Anterior temporal lobectomy](#) is often complicated by [quadrantanopia](#). In some cases this can be severe enough to prohibit driving, even if a patient is free of [seizures](#). These deficits are caused by damage to [Meyers loop](#) of the [optic radiation](#), which shows considerable heterogeneity in its anterior extent. This structure cannot be distinguished using clinical [magnetic resonance imaging](#) sequences.

Optic radiation tractography by DTI could be a useful method to assess an individual patient's risk of postoperative visual deficit ¹⁾ ²⁾.

¹⁾

Borius PY, Roux FE, Valton L, Sol JC, Lotterie JA, Berry I. Can DTI fiber tracking of the optic radiations predict visual deficit after surgery? Clin Neurol Neurosurg. 2014 Jul;122:87-91. doi: 10.1016/j.clineuro.2014.04.017. Epub 2014 May 5. PubMed PMID: 24908224.

²⁾

James JS, Radhakrishnan A, Thomas B, Madhusoodanan M, Kesavadas C, Abraham M, Menon R, Rathore C, Vilanilam G. Diffusion tensor imaging tractography of Meyer's loop in planning resective surgery for drug-resistant temporal lobe epilepsy. Epilepsy Res. 2015 Feb;110:95-104. doi: 10.1016/j.epilepsyres.2014.11.020. Epub 2014 Nov 27. PubMed PMID: 25616461.

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