

Engelbert Knosp

In 1993 Engelbert Knosp et al. offered the [Knosp grade](#) system for showing invasion of [cavernous sinus](#) by [pituitary macroadenoma](#). Briefly, the much laterally adenoma grows and surrounds the [internal carotid artery](#) (ICA), the more grade level is. The grading defined by the relation of carotid lines with the limits of invasion. These lines passes through supra- and [intracavernous internal carotid artery](#) in [coronal](#) view. There are medial, median and lateral carotid lines ¹⁾.

¹⁾

Knosp E, Steiner E, Kitz K, Matula C. pituitary neuroendocrine tumors with invasion of the cavernous sinus space: a magnetic resonance imaging classification compared with surgical findings. Neurosurgery. 1993 Oct;33(4):610-7; discussion 617-8. PubMed PMID: 8232800.

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