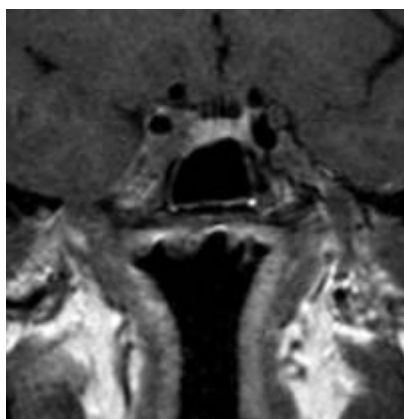


Knosp Grade 3B

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Below the intracavernous [internal carotid artery](#) into the inferior [cavernous sinus](#) compartment The tumor extends to the lateral line inferiorly (under [ICA](#)) ¹⁾.

A significantly higher rate of [remission](#) can be achieved in grade 3A than in grade 3B and grade 4 adenomas. Therefore, the distinction into grades 3A, 3B, and 4 is of importance for the [prediction](#) of [adenoma](#) invasion and surgical treatment considerations ²⁾

¹⁾

Micko AS, Wöhrer A, Wolfsberger S, Knosp E. Invasion of the cavernous sinus space in pituitary neuroendocrine tumors: endoscopic verification and its correlation with an MRI-based classification. J Neurosurg. 2015 Apr;122(4):803-11. doi: 10.3171/2014.12.JNS141083. Epub 2015 Feb 6. PubMed PMID: 25658782.

²⁾

Micko A, Oberndorfer J, Weninger WJ, Vila G, Höftberger R, Wolfsberger S, Knosp E. Challenging Knosp high-grade pituitary neuroendocrine tumors. J Neurosurg. 2019 May 31;132(6):1739-1746. doi: 10.3171/2019.3.JNS19367. PMID: 31151112.

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