

50-year-old female presenting with back pain, worse at night and while laying down

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MR T1



MR T1 + Gad



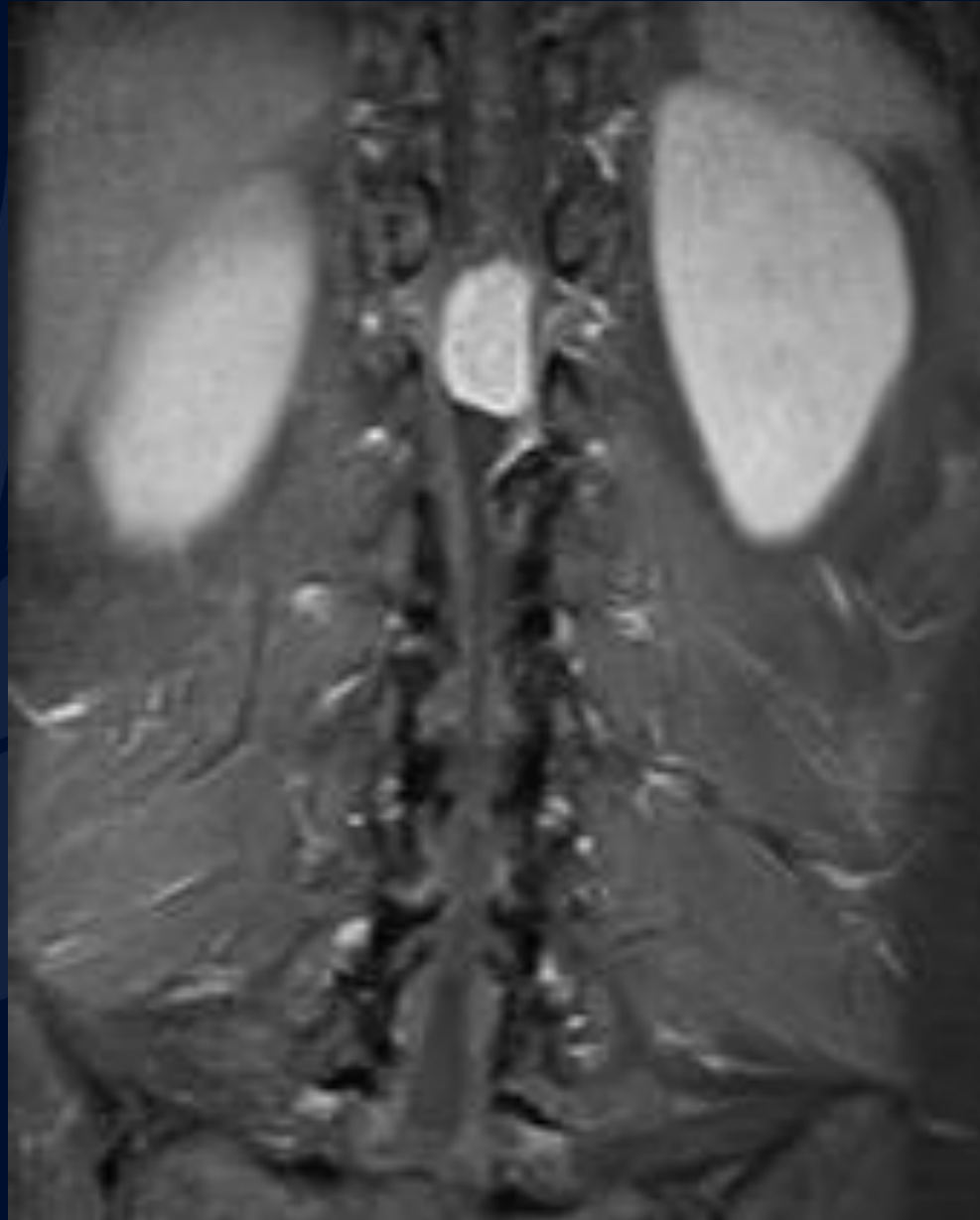
MR T2



MR T1



MR T1 + Gad





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A large, stylized oak leaf graphic in a dark blue color, positioned on the left side of the slide. The leaf has a prominent central vein and several smaller veins branching off it. The background is a solid dark blue.

Myxopapillary Ependymoma

T1



T1 + Gad



T1 isointense mass
Enhances on post-contrast imaging

T1



T2



T1 isointense mass

T2 heterogeneous

MR T1 + Gad



Enhancing mass

MR T1



Mass causing
compression of
the cauda equina

Myxopapillary Ependymoma

Clinical Presentation: Most commonly, patients present with low back, leg, or sacral pain, and less commonly with leg weakness or sphincter dysfunction

Location: Classically in the region of the conus and filum terminale, where ependymal cells are present

Imaging:

- CT: Difficult to visualize on CT
 - If large, you can see spinal cord expansion, scalloping of vertebral bodies, and extension out of the neural foramina
- MRI: Preferred imaging modality
 - T1: Usually isointense, however hemorrhage or calcification can lead to regions of hyper- or hypo-intensity
 - Contrast shows homogenous enhancement of the lesion
 - T2: High-intensity signal

References

Wein S, Yap J, Smith D, et al. Myxopapillary ependymoma. Reference article, Radiopaedia.org (Accessed on 15 Sep 2023) <https://doi.org/10.53347/rID-19263>

Limaiem F, M Das J. Myxopapillary Ependymoma. [Updated 2023 Jan 1]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK559172/>

Weber DC, Wang Y, Miller R, Villà S, Zaucha R, Pica A, Poortmans P, Anacak Y, Ozygit G, Baumert B, Haller G, Preusser M, Li J. Long-term outcome of patients with spinal myxopapillary ependymoma: treatment results from the MD Anderson Cancer Center and institutions from the Rare Cancer Network. *Neuro Oncol*. 2015 Apr;17(4):588-95. doi: 10.1093/neuonc/nou293. Epub 2014 Oct 9. PMID: 25301811; PMCID: PMC4483075

Kahan H, Sklar EM, Post MJ, Bruce JH. MR characteristics of histopathologic subtypes of spinal ependymoma. *AJNR Am J Neuroradiol*. 1996 Jan;17(1):143-50. PMID: 8770266; PMCID: PMC8337948.