

Craniopharyngioma endoscopic endonasal approach Indications

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The [endoscopic endonasal approach](#) (EEA) for [craniopharyngiomas](#) has proven to be a safe option for extensive [tumor resection](#), with minimal or no manipulation of the [optic nerves](#) and excellent visualization of the [superior hypophyseal artery](#) branches when compared to the [Transcranial Approach](#) (TCA). However, there is an ongoing debate regarding the criteria for selecting different [approaches](#). To explore the current results of EEA and discuss its role in the management of [craniopharyngiomas](#), Figueredo et al. performed [MEDLINE](#), [Embase](#), and [LILACS](#) searches from 2012 to 2022. Baseline characteristics, the extent of resection, and clinical outcomes were evaluated. [Statistical analysis](#) was performed through an X2 and Fisher exact test, and a comparison between quantitative variables through a Kruskal-Wallis and verified with post hoc Bonferroni. The tumor volume was similar in both groups (EEA 11.92 cm³, -TCA 13.23 cm³). The mean follow-up in months was 39.9 for EEA and 43.94 for TCA, $p = 0.76$). The EEA group presented a higher visual improvement rate (41.96% vs. 25% for TCA, $p < 0.0001$, OR 7.7). Permanent DI was less frequent with EEA (29.20% vs. 67.40% for TCA, $p < 0.0001$, OR 0.2). CSF Leaks occurred more frequently with EEA (9.94% vs. 0.70% for TCA, $p < 0.0001$, OR 15.8). [Recurrence](#) rates were lower in the EEA group (EEA 15.50% vs. for TCA 21.20%, $p = 0.04$, OR 0.7). The results demonstrate that, in selected cases, EEA for resection of craniopharyngiomas is associated with better results regarding visual preservation and extent of tumor resection. Postoperative [cerebrospinal fluid fistula](#) rates associated with EEA have improved compared to the historical series. The [decision-making](#) process should consider each person's characteristics; however, it is noticeable that recent data regarding EEA justify its widespread application as a first-line approach in centers of excellence for [skull base surgery](#) ¹⁾.

The extended endoscopic endonasal approach allows successful removal of the craniopharyngioma and poses little risk to surrounding neurovascular structures ²⁾

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Figueredo LF, Martínez AL, Suarez-Meade P, Marenco-Hillebrand L, Salazar AF, Pabon D, Guzmán J, Murguiondo-Perez R, Hallak H, Godo A, Sandoval-Garcia C, Ordoñez-Rubiano EG, Donaldson A, Chaichana KL, Peris-Celda M, Bendok BR, Samson SL, Quinones-Hinojosa A, Almeida JP. Current Role of [Endoscopic Endonasal Approach](#) for [Craniopharyngiomas](#): A 10-Year [Systematic Review](#) and Meta-

Analysis Comparison with the Open Transcranial Approach. Brain Sci. 2023 May 23;13(6):842. doi: 10.3390/brainsci13060842. PMID: 37371322.

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