

Endoscopic skull base surgery

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First World Congress of [Endoscopic Skull Base Surgery](#) held in [2005](#) in [Pittsburgh](#), Pennsylvania ¹⁾.

see [Endoscopic endonasal skull base surgery](#).

Complications

[Endoscopic skull base surgery complications](#)

Major vascular structures are always at risk during complex [skull base surgery](#), particularly with use of the [endoscopic endonasal approach](#), and intraoperative damage of the [internal carotid artery](#) (ICA) can be a devastating [complication](#).

Arraez et al. from the Department of Neurosurgery, [Malaga University Hospital](#) report a case of a young patient who had a major [injury](#) of the left ICA during endoscopic [resection](#) of a recurrent petrous bone [chordoma](#). Massive [bleeding](#) was controlled by a [Foley balloon](#) inserted and kept in the resection area. Urgent [angiography](#) revealed a persistent leak from the petrous segment of the left ICA, and the vessel was sacrificed with [coiling](#), since a balloon occlusion test showed good collateral [blood flow](#). The patient woke up from [anesthesia](#) without a neurological deficit. Salvage resection of recurrent skull base neoplasms deserves specific attention because of the possibility of major vascular damage. In cases of intraoperative ICA injury, its management requires immediate decisions, and the available possibilities for [endovascular therapy](#) should always be considered ²⁾.

Training

[Endoscopic skull base surgery training](#).

1)

Doglietto F, Prevedello DM, Jane JA Jr, Han J, Laws ER Jr. Brief history of endoscopic transsphenoidal surgery—from [Philipp Bozzini](#) to the First World Congress of [Endoscopic Skull Base Surgery](#). Neurosurg Focus. 2005 Dec 15;19(6):E3. doi: 10.3171/foc.2005.19.6.4. PMID: 16398480.

2)

Arraez MA, Arraez-Manrique C, Ros B, Ibañez G. Major Internal Carotid Artery Injury During Endoscopic Skull Base Surgery: Case Report. Acta Neurochir Suppl. 2023;130:19-23. doi: 10.1007/978-3-030-12887-6_3. PMID: 37548719.

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Last update: **2025/04/03 08:33**

