

Calvian Endo-pen

Over the past few years [bipolar electrocoagulation techniques](#) in [neurosurgery](#) have been continually improving. However, limited access during [endoscopic endonasal transsphenoidal surgery](#) (EETS) for [central skull base](#) pathologies and the requirement of very precise [coagulation](#) in that dedicated anatomical area requires further refinement of bipolar coagulation instruments.

Gerlach et al., describe the [experience](#) (effectiveness of coagulation, intraoperative handling, and the use as a dissecting tool) with a new type of coagulation forceps, the Calvian endo-pen ([Sutter Medizintechnik, Freiburg, Germany](#)) during EETS.



From June to August 2015, 12 patients with central skull base lesions (9 with a [pituitary neuroendocrine tumor](#) and 1 each with [epidermoid](#), [hemangioma](#), and [juvenile angiofibroma](#)) were operated on with the Calvian endo-pen.

The application of the Calvian endo-pen was feasible in all cases. The angled thin tips proved to be very effective and precise for [soft tissue](#) coagulation to achieve [hemostasis](#). Even very small vessels could be occluded selectively. It was also helpful for outward dissection in separating normal from tumor tissue.

The use of the Calvian endo-pen is safe and effective during EETS for central skull base pathologies. Its ease in intraoperative handling (maneuverability, cleaning) and precise coagulation makes it a promising instrument for EETS ¹⁾.

Videos

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<html><iframe width="560" height="315" src="https://www.youtube.com/embed/LJ_t5VxV2aI"
frameborder="0" allow="autoplay; encrypted-media" allowfullscreen></iframe></html>
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¹⁾

Gerlach R, Rosahl S, Kellner G. Calvian Endo-pen: New Coagulation Forceps for Endoscopic Endonasal Transsphenoidal Surgery. J Neurol Surg A Cent Eur Neurosurg. 2018 Jul 6. doi: 10.1055/s-0038-1655731. [Epub ahead of print] PubMed PMID: 29980157.

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