

# Endoscopic sheath

Flexible endoscopes are exposed to blood, mucus, and other secretions during procedures. Single-use sheaths are designed to prevent contact between contaminants and reusable endoscope components

The usefulness of the [endoscopic sheath](#) is underreported in the [literature](#).

In addition to protecting the surrounding [brain parenchyma](#) when inserting the [endoscope](#), the endoscopic sheath is a very useful tool to retract neurovascular structures, achieve [hemostasis](#), and create adequate working space within narrow [ventricles](#). The sheath can be moved within the [ventricular system](#), and the [endoscope](#) can be moved independently within the sheath. These movements represent all the advantages of the endoscopic sheath.

Marx and Schroeder from the Department of Neurosurgery, University Medicine [Greifswald](#). used an endoscopic sheath in ~ 300 intraventricular [neuroendoscopic procedures](#) and consider the sheath an essential part of a ventriculoscopic system. Proper use of the sheath can help avoid or manage endoscopic [complications](#) <sup>1)</sup>.

<sup>1)</sup>

Marx S, Schroeder HWS. [Benefits of Endoscopic Sheath in Intraventricular Neuroendoscopy: Technical Note](#). [J Neurol Surg A Cent Eur Neurosurg](#). 2021 May 19. doi: 10.1055/s-0040-1701618. Epub ahead of print. PMID: 34010982.

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Last update: **2024/06/07 02:53**

