nal fluid absorption from the mesothelial surface of both cavities. Rengachary presents a previously undescribed site for placement of a distal catheter.

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Rengachary provides the reader with a new option for revision of a failed ventricular shunt system in a patient with multiple previous revisions. In a somewhat desperate situation, he devised a procedure involving placement of the distal catheter transdiaphragmatically into a space that was unscarred despite numerous previous abdominal procedures. Although this particular case is unique, there are certainly other patients who present with similar limited options for shunt revision. The author has recognized an opportunity that may prove useful in patients with abdominal adhesions and may thus prove to be preferable to atrial and pleural placement of the distal catheter. Although this is only a single case, the patient was followed for 2 years without further shunt malfunction.

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Intraoperative Dislocation of the Distal Lens of a Neuroendoscope: A Very Rare Complication: Technical Case Report

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OBJECTIVE AND IMPORTANCE: A very unusual complication of neuroendoscopy that was caused by equipment failure is described.

CLINICAL PRESENTATION: Intraoperatively, the distal lens of a reusable, rigid, lenscope-type neuroendoscope became dislodged. Fortunately, this did not have any adverse consequences for the patient.

DISCUSSION: The cause remains obscure but probably relates to the repeated use of the scope. Perhaps the use of a disposable neuroendoscope could have prevented this, but reusable lenscopes are designed to be used many times.

CONCLUSION: The risk of such equipment failure should be weighed against the distinct advantage of a much clearer image than is provided by fiberscopes. (Neurosurgery 41:698–700, 1997)

Key words: Complication, Equipment failure, Neuroendoscopy

Despite the resurgence of neuroendoscopy, reports of complications are sparse. A case of an extremely rare complication caused by equipment failure is presented.

CASE REPORT

A 48-year-old man was referred from another institution to our department for neuroendoscopic treatment of a known huge suprasellar cyst with subsequent compression of the third ventricle and supratentorial hydrocephalus. The cyst was previously fenestrated through a transcallosal approach but recurred somewhat quickly. The concomitant hydrocephalus was already treated with bilateral shunts, leading to ventricular collapse.

The patient complained of persisting headaches and memory disturbances. Follow-up computed tomography revealed that there was further enlargement of the cyst.

Because of the collapsed ventricles, it would have been injudicious to introduce the neuroendoscope. Therefore, the frontally placed shunt on the left side was occluded. The day after occlusion, the cyst was approached through the then somewhat dilated left frontal horn.

The introduction of a rigid neuroendoscope, equipped with a Hopkins rod optic lens with an outer diameter of 2.4 mm (Smith & Nephew Richards, Memphis TN), was straightforward. This specific endoscope had been used in our department since August 1994 for intraventricular procedures only. It had been used 38 times before being used for the operation discussed in this article.

Without any problems, partial resection of the cyst wall at the foramen of Monro and subsequent fenestration of the cyst wall toward the interpeduncular cistern was achieved. During the final inspection of the remaining part of the cyst wall, attached to the fornix at the left foramen of Monro, the view became suddenly blurred. We at first thought that an air bubble obstructed our view. However, after various maneuvers to remove air bubbles, the vision remained blurred. The optic equipment was removed from the endoscope shaft for cleansing of the distal part. Close inspection of the scope revealed that the thin covering distal lens of the endoscope was missing (Fig. 1). Because

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Neuroendoscopy is a powerful surgical tool, allowing for the precise and minimally invasive treatment of intracranial diseases. However, like any surgical procedure, it is not without its complications. The occurrence of complications varies from one institution to another. Some patients may experience postoperative symptoms such as headache, nausea, or vomiting, which are usually managed with supportive care and analgesics. In severe cases, more invasive interventions may be required.

Despite the advancements in endoscopic technology and surgical techniques, complications still occur. These can range from minor, such as infection or bleeding, to more serious, such as intracranial hemorrhage or injury to adjacent structures. The management of these complications is crucial to ensure the best possible outcome for the patient.

In conclusion, neuroendoscopy is a minimally invasive surgical technique that offers significant advantages over traditional approaches. However, like any surgical procedure, it is not without its challenges. The management of complications is an essential aspect of patient care in this field. Further research and development are needed to improve the success rates and reduce the incidence of complications associated with neuroendoscopy.
Grotenhuis et al. describe a most unusual complication relating to equipment that is used routinely in neuroendoscopy. The dislodgment of the distal lens of a rigid rod lenscope encased in a stainless steel tube may have been anticipated by careful inspection before insertion into the head. This event emphasizes, however, the necessity of skilled interoperative handling, inspection, and sterilization procedures. As the role of neuroendoscopy increases in neurosurgical procedures, undoubtedly more of these unusual events will be reported. I do not agree with the authors, however, that this event could be construed as supporting the use of disposable neuroendoscopes. The decision regarding a specific surgical application rests on instrumentation considerations and the availability of instrument channels, the quality of the image, and the specific needs of the surgical approach (for example, if distal tip steering is needed, it is available only in a steerable fiberscope). As a general rule at this time, disposable endoscopes have comparable inferior image quality to the rigid reusable lenscope and offer only the advantage of greater confidence about sterilization. As sterilization procedures become more rigorous in response to concerns about viruses, the wear and tear effect on reusable equipment will become of greater significance. Image quality in surgical decision making remains the paramount consideration, however.

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ANNOUNCEMENT

Foundation for International Education in Neurosurgery Update and Request for Volunteers

The Foundation for International Education in Neurosurgery (FIENS) continues to develop activities that are primarily designed to foster education in developing areas of the world. These initiatives are coordinated with the activities of the World Federation of Neurosurgical Societies, which, through its Education Committee, has sponsored a number of regional educational programs for neurosurgeons in developing areas. The Foundation assists in providing faculty for these larger educational efforts. The major current activities of FIENS consist of programs in Africa. The Foundation has worked with neurosurgeons in Ghana in an attempt to help develop an indigenous neurosurgical training program there. This has involved sending senior level residents and faculty for varying periods of time, usually 3 to 6 months for residents and 2 to 4 weeks for faculty support. FIENS has supported a program in Zimbabwe to provide neurosurgical assistance to the program already in place in that country, and it has supported an African trainee, who currently is a resident at Yale, in the initial steps to develop a neuroscience initiative for Southern Africa. She has been a liaison with the Panafriean Neurosurgical Association, which strongly supports this concept, and we anticipate rapid development. Another new project involves a Senior Neurosurgical Interchange with Peru under the guidance of Dr. Anselmo Pineda and the Peruvian-American Neurosurgical Society. Opportunities exist for volunteer neurosurgeons to go to Peru and visit and work in a number of different medical centers around the country. FIENS maintains a roster of neurosurgeons interested in serving as volunteers. For volunteer experiences of at least 4 to 6 weeks, the Foundation will support the volunteer's air travel expenses. The host country is ordinarily able to underwrite most of the volunteer's expenses incurred at work. Further information and volunteer request forms can be obtained from the Office of the Secretary of the Foundation, Dr. David Fairholm: Division of Neurosurgery, Department of Surgery, Room 3100, 910 W. 10th Avenue, Vancouver, BC, Canada V5Z 4E3.