

Peritonitis

- Risk Factors, Indications, and Effectiveness of Cerebrospinal Fluid Diversion in Patients With High-Grade Glioma-Associated Hydrocephalus: A Systematic Review and Meta-Analysis
- Surgical Nuances in Ultrasound-Guided Percutaneous Distal Catheter Placement in Pediatric Ventriculoatrial Shunts
- Characterization of Soft Tissue Reconstruction Following Chordoma Resection
- A Comprehensive Review of Arachnoid Cysts
- One year mortality after pediatric hydrocephalus treatment: a comparative analysis of endoscopic third ventriculostomy and ventriculoperitoneal shunt
- Managing hydrocephalus in patients with leptomeningeal disease: A multicenter retrospective analysis
- Impact of acute hydrocephalus after aneurysmal SAH on longitudinal cognitive outcome- post-hoc analysis of the MoCA-DCI study
- Radionuclide Shunt Scintigraphy Technique in Diagnosing Ventriculoperitoneal Shunt Malfunction and Patency: A Case Study and Review of Literature

Bacterial peritonitis is an unusual [ventriculoperitoneal shunt complication](#). This complication, usually associated with peritoneal cysts of perforated viscus, may occur as the first manifestation of [ventriculoperitoneal shunt infection](#). Early recognition of this form of bacterial peritonitis and appropriate antibiotic therapy may avert major abdominal surgery in selected cases ¹⁾.

Riccardello et al report the case of 14-year-old girl with a history of [myelomeningocele](#) and [ventriculoperitoneal shunt](#)-treated [hydrocephalus](#) who presented with right-sided abdominal pain and subcutaneous emphysema that developed over a 1-week period. A CT scan of the patient's abdomen revealed a retained distal ventriculoperitoneal (VP) catheter with air tracking from the catheter to the upper chest wall. Given the high suspicion of the catheter being intraluminal, an exploratory [laparotomy](#) was performed and revealed multiple jejunal perforations. The patient required a partial small-bowel resection and reanastomosis for complete removal of the retained catheter. Six other similar cases of bowel perforation occurring in patients with abandoned VP and subdural-peritoneal shunts have been reported. The authors analyzed these cases with regard to age of presentation, symptomatic presentation, management, morbidity, and mortality. While there was 0% mortality associated with bowel perforation secondary to a retained distal VP catheter, the morbidity was significantly high and included [peritonitis](#) and small bowel resection ²⁾.

¹⁾

Tchirkow G, Verhagen AD. Bacterial peritonitis in patients with ventriculoperitoneal shunt. J Pediatr Surg. 1979 Apr;14(2):182-4. PubMed PMID: 458542.

²⁾

Riccardello GJ Jr, Barr LK, Bassani L. Bowel perforation presenting with acute abdominal pain and subcutaneous emphysema in a 14-year-old girl with an abandoned distal peritoneal shunt catheter: case report. J Neurosurg Pediatr. 2016 May 6:1-4. [Epub ahead of print] PubMed PMID: 27153375.

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Last update: **2024/09/04 09:26**



