# Strangulated Ventral Hernia Causing Ventriculoperitoneal Shunt Occlusion

Kyle Dammann MD, PhD & Lauryn Ullrich DO, FACOS

Division of Trauma and Acute Care Surgery, St. Luke's University Health Network, Bethlehem, PA

#### **Case Presentation**

- 39-year-old male with history of hydrocephalus, Bartter syndrome, 32 prior ventriculoperitoneal shunt (VPS) revisions who presented with an epigastric bulge
- Denied obstructive symptoms
- 5x5 cm partially reducible hernia, with overlying erythema
- CT head: enlargement of the ventricular system
- CT abd/pelvis: ventral hernia containing the VPS and omentum

#### **Operative Intervention**

- Incision made over defect
- Hernia sac was opened, signs of strangulated omentum involving the VPS
- Omentum resected
- Neurosurgery ensured patency of VPS and collected CSF and VPS cultures
- VPS repositioned to the LLQ
- Fascia closed primarily

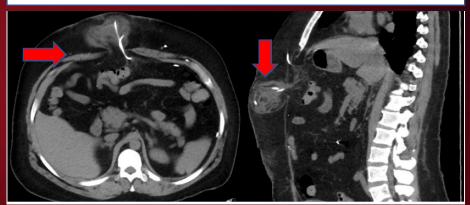


Figure 1: VP shunt within the incarcerated ventral hernia. (red arrow)

### **Post-Operative Course**

- Treated with broad-spectrum antibiotics until cultures resulted negative (POD #3)
- Progressed well and discharged home (POD #4)

## **Discussion**

- Acute on chronic ventral hernia with omental involvement
- Open ventral hernia repair and VPS repositioning can be successful in a complex surgical patient

