

Bochdalek hernia with volvulus and invasive candida complication

Volvulus ve invaziv kandida komplikasyonuyla Bochdalek hernisi birlikteliği

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A 1-year old girl was incidentally diagnosed as left posterolateral diaphragmatic hernia. Imaging methods like X-ray of the chest showed the herniation of gut loops and spleen (Figure 1). In the laparotomy, transverse colon, ascending colon and spleen were seen to enter the left thoracic cavity and the organs were taken into the abdominal cavity. During

the postoperative period, *Candida albicans* was cultured from urine and catheter-drawn blood cultures. On the postoperative fourth day, abdominal distension and intestinal obstruction occurred. An emergency surgery was performed and necrosis of small bowels and ascending and transverse colon due to midgut volvulus were observed related with malrotation. Primary resection and anastomosis were performed for the gangrenous volvulus segment. Macroscopic examination of the intestinal segment revealed dark red to purple to black and thickened intestinal wall (Figure 2A). Microscopic examination of the resec-

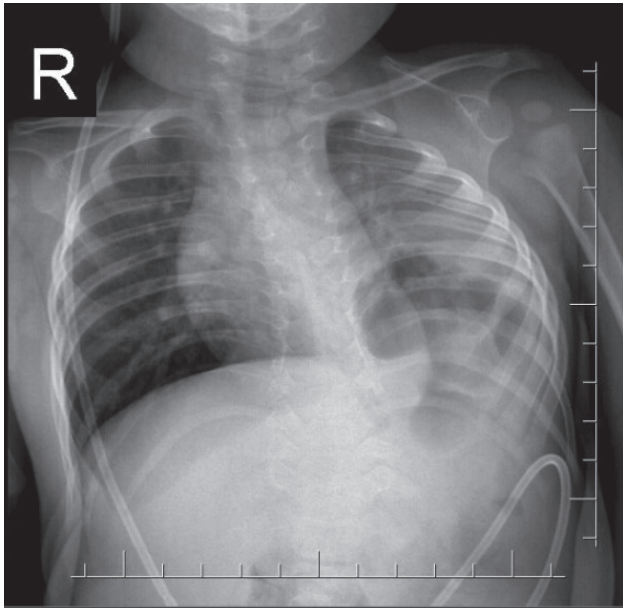


Figure 1. X-ray of the chest showed herniation of gut loops and spleen.



Figure 2A. Macroscopic examination of the intestinal segment was dark red to purple to black and intestinal wall was found to be thickened.

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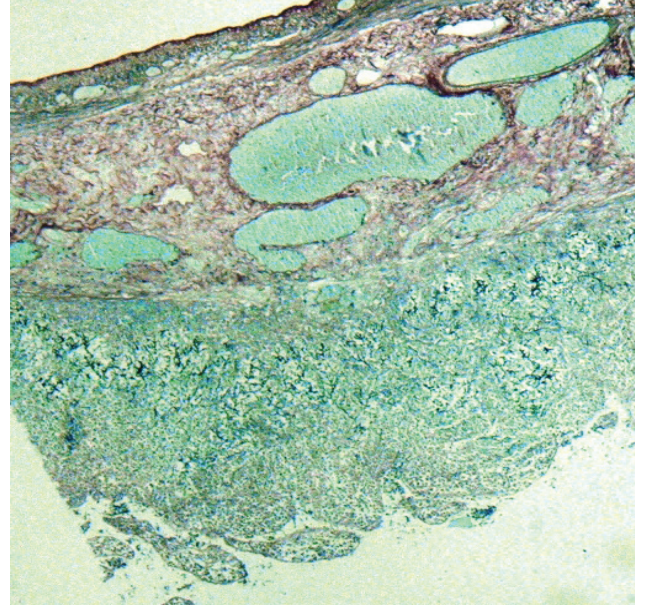
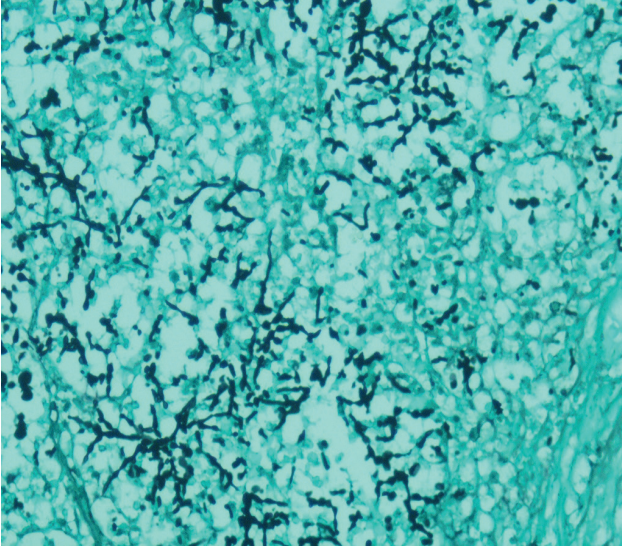


Figure 2B-2C. Grocott-Gomori methenamine-silver (GMS) stain highlighting fungal elements.

ted specimen disclosed congestion, edema, mucosal necrosis, and mild to severe perivascular inflammation. Invasive candida infection embedded in the mucosa was also observed. Presence of fungi was demonstrated by immunohistochemical staining with Grocott-Gomori methenamine-silver (GMS) and periodic acid-Schiff (PAS) (Figure 2B-2C).

We describe a case of diaphragmatic eventration with colon volvulus and accompanying invasive candida infection. Although Bochdalek hernia eventration complicated by colon volvulus has been reported

in the literature, there is not any report documenting hernia eventration complicated by colon volvulus accompanied by invasive candida infection ^(1,2).

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