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INTRODUCTION:

A pediatric case of anorectal barotrauma resulting from direct high-pressure air insufflation through the anus is presented

CASE PRESENTATION:

6-year-old male patient

History: While playing with a friend, a high-pressure air compressor device was inserted into the anus, and the air was insufflated

Complaints: Severe abdominal pain and rectal bleeding

Physical Examination: Generalized abdominal tenderness and rectal examination revealed blood-stained discharge; sphincter tone was normal

• **Abdominal X-ray:** Pneumoperitoneum (Figure 1)

• **Laparotomy Findings:**

- Rectum perforation below the peritoneal reflection
- Emphysematous appearance in the entire colon wall and mesentery due to air dissection (Figure 2)
- Rectal perforation repair and a protective ileostomy
- After six months of follow-up, imaging with contrast injected from the distal end of the stoma showed no stricture or obstruction in the rectum
- The stoma was closed
- The patient is in the second year post-operation, and follow-up has been uneventful



Figure 1: Pneumoperitoneum appearance on the abdominal X-ray



Figure 2: Emphysematous appearance in the descending colon wall

CONCLUSION:

- Transanal barotrauma is rare but can lead to fatal outcomes
- Surgical exploration is essential for the early treatment of potential bowel perforations