

Interstitial hernia due to peritoneal flap rupture, a complication of trans-abdominal preperitoneal approach

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Aim

Show the case of an interstitial hernia due to peritoneal flap rupture after trans-abdominal preperitoneal (TAPP) repair of a Spigelian hernia

Material & Methods

Female patient of 69 years of age who underwent scheduled surgery for a right Spigelian hernia (figure 1), performing a trans-abdominal pre-peritoneal (TAPP) repair without incident as Major Ambulatory Surgery.

She went to the emergency room for pain and abdominal distension 6 days later. A CT-scan was performed, which showed a recurrence of the hernia causing bowel obstruction (figure 2). It was decided to perform emergency surgery on the patient.

Results

We performed an exploratory laparoscopy where we found a rupture of the peritoneum and an interstitial hernia with the bowel adhered to polypropylene mesh (figures 3 and 4).

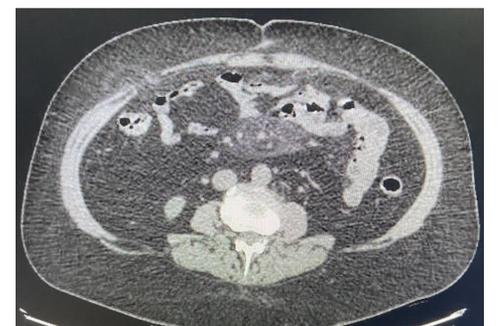


Figure 1: CT-scan previous to TAPP repair



Figure 2: CT-scan after TAPP repair

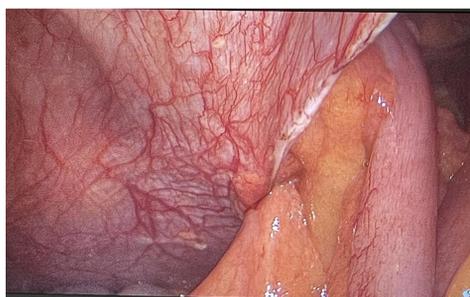


Figure 3: incarcerated small bowel



Figure 4: adhesions of small bowel to mesh

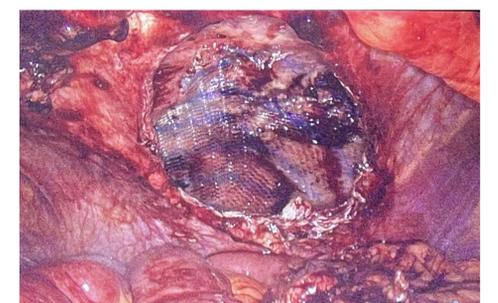


Figure 5: peritoneal defect

A reduction of the herniated contents and lysis of the intestinal adhesion were performed. After that, we closed the peritoneum flap with barbed suture and placement a intraperitoneal mesh as reinforcement fixed with tackers.

Postoperative period and follow-up were favorable.



Figure 6: intraperitoneal reinforcement mesh

Conclusions

Peritoneum rupture is a rare complication after TAPP repair but it can cause an interstitial hernia and bowel obstruction. It should be repaired when diagnosed. Laparoscopic approach is safe and effective.