

Amyand's Hernia: The Role of Laparoscopic Surgery in Emergency Management

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INTRODUCTION: Amyand's hernia is a rare condition characterized by the presence of the appendix within an inguinal hernia sac, occurring in approximately 0.1% of cases. It is frequently misdiagnosed as an incarcerated inguinal hernia, with the correct diagnosis often made only during the perioperative period.

We present the case of a 62-year-old male with a history of right inguinal hernia repair who developed a recurrent and incarcerated right inguinal hernia. Ultrasound imaging revealed a 3x5 cm hernia sac containing loops of intestine and free fluid.

Surgical exploration was performed, and the appendix was discovered within the hernia sac. An open appendectomy was carried out through the sac, followed by hernia repair using the Lichtenstein technique with mesh. Additionally, laparoscopic inspection was performed to assess the base of the appendix and the abdominal cavity, ensuring no further complications. The patient's postoperative course was uneventful, and he was discharged 24 hours after surgery. Pathological examination confirmed chronic appendicitis.



CONCLUSIONS:

- Amyand's hernia, though rare, should be considered in the differential diagnosis of incarcerated inguinal hernias.
- Laparoscopic techniques offer significant advantages for managing complex hernias, especially in emergency settings.
- Early and accurate diagnosis, along with appropriate surgical intervention, contributes to favourable patient outcomes.
- Standardization of laparoscopic approaches in hernia surgery may enhance the management of rare cases like Amyand's hernia.
- These approaches can improve both diagnostic accuracy and surgical precision, even in low-incidence scenarios.