

Laparoscopic Non-Tension Hernioplastic of Lower Lumbar Hernia

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Background

Lumbar or petit hernia is a rare condition, traditional open operative treatment with reparation of hernia opening and surrounding tissue is difficult, painful, and with uncertain outcome.

Because of their rarity and complex anatomical location, they can pose a formidable challenge to surgeons. The challenges start with diagnosis and continue to the selection of treatment [1,2]. In this report, our aim is to present case report of Petit's hernia.

Petit's hernia is described as herniation of retroperitoneal fat through the aponeurosis of the internal abdominal oblique muscle between the erector spinae muscles in the inferior lumbar triangle. The neck of this hernia is usually large, and therefore, it has a lower risk of strangulation than other hernias [1]. Grynfeltt hernia is described as herniation of retroperitoneal fat through the aponeurosis of the transversalis muscle between the erector spinae muscles and internal oblique muscles in the superior lumbar triangle [2].

Lumbar hernias are rare lesions that are usually observed after trauma or surgery.

Symptoms and presentation of lumbar hernias can vary. They are frequently asymptomatic or may cause back pain in the sciatic nerve distribution area with or without a palpable mass. According to Light, it is the most probable diagnosis in young women and athletes with back pain [7].

Patient and Treatment

This is an attempt to present a 51-year-old female patient with painful lump in the left lumbar region suspended over the cervical ridge edge in standing position. Hernia proved to be reparable, and confirmed by ultrasound (**Figures 1, 2**).

Laparoscopy was performed in general anaesthesia, accessed the retroperitoneal area, de-prepared hernial sack, and closed the muscular defect with PTFE screen. Operative surgery was concluded with the reparation of peritoneum (**Figures 3, 4, 5**).



Figure 1: Lower lumbar hernia.

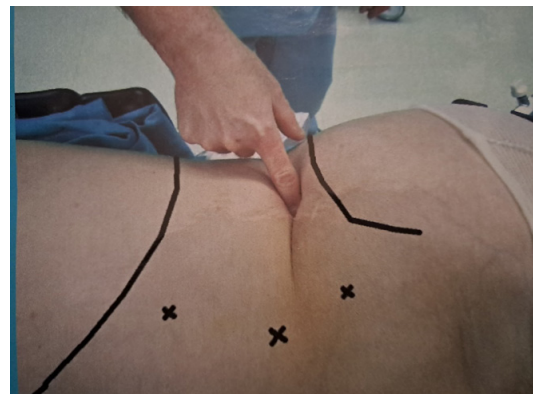


Figure 2: Port placement.

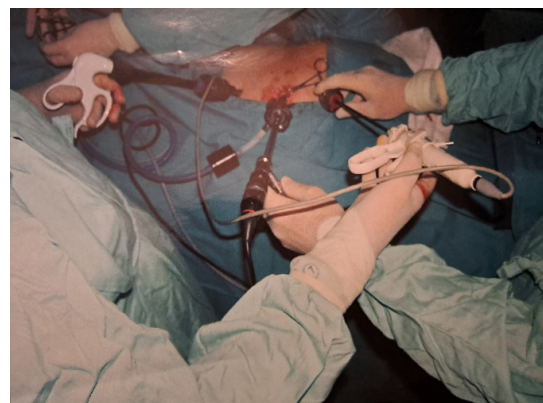


Figure 3: Laparoscopy.



Figure 4: Hernia sac.

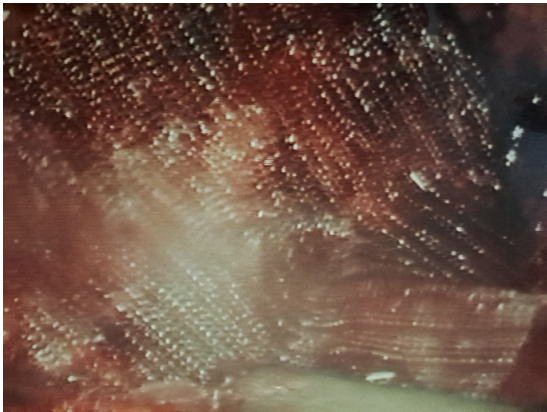


Figure 5: Mesh placement.



Figure 6: Patient after the operation.

After the surgery the patient exhibited no difficulties, got out of bed on the very day of the surgery, and left the hospital two days later. Subsequent control indicated no problems (**Figure 6**).

Conclusion

Lumbar hernias are rare clinical entities and need suspicion to be diagnosed. Imaging studies, particularly UZ or CT, are useful in defining the anatomy and contents. Reconstruction can be achieved with synthetic mesh repair; this can be accomplished by either open or endoscopic methods with minor complications. Laparoscopic approach to the lumbar hernia reparation is simple, safe and very comfortable for patient.

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