Introduction and Background

The pathophysiology of LPD remains unclear - possible causes include:

- Excess sex-hormone exposure
- Transformation of sub-peritoneal mesenchymal stem cells
- Metaplasia, genetic factors, or iatrogenic spread of leiomyoma via a uterine morcellation
- Iatrogenic spread is the more widely accepted cause
- Hormonal exposure and genetic susceptibility may trigger fibroid tissue proliferation.

Most LPD patients are asymptomatic.
- High recurrence rate, but malignant transformation is rare.
- Peripheral conversion of a node-grown to e-strogens in adipose tissue might play role in pathogenesis.
- Anastrozole found effective in LPD treatment.

Clinical Presentation

A 51-year-old female presented with sudden onset flank pain radiating into upper back bilaterally.
- Imaging revealed acute cholecystitis and cholecystectomy suggested intraperitoneal pelvic mass lesions.
- Surgical findings during diagnostic laparoscopy and cholecystectomy suggested LPD.

Discussion

Aim: Raise awareness of LPD, especially in women with laparoscopic power morcellation history considering hormone replacement therapy.

Evaluation:
- Family history.
- Surgical history.
- Genetic studies.
- Clinical imaging.

LPD tumors have growth potential, causing pain and bleeding due to mass effect. Distortion of normal anatomy may occur. Surgical excision is the definitive treatment. Supernumerary tumors can complicate surgery, leading to multiple procedures. CT/MRI imaging aids in preoperative assessment and planning. Improved diagnostic accuracy and understanding of pathophysiology may lead to earlier detection and treatment.

Reduction in recurrence and tumor growth is the ultimate goal.

Conclusion

LPD is a rare condition with uncertain etiology. Awareness is crucial, especially in women with a history of laparoscopic power morcellation. Early detection and improved treatment strategies can reduce recurrence and complications.

References