Case Report of Indirect Inguinal Herniation of Ovary in a Healthy Adult and Literature Review

Dr Harold Baxter (haroldhbaxter@gmail.com)

Department of Obstetrics and Gynaecology, Sunshine Coast University Hospital

Sunshine Coast Hospital and Health Service

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Background

Herniation of the ovary within the inguinal canal is welldescribed in infants1 or in with genital abnormalities2, however it is considerably less common in phenotypically normal adult females. We describe unusual of ovarian case herniation via an indirect inguinal hernia in a healthy adult female, and present a brief literature review to provide some context for this rare diagnostic consideration

Methods

literature review undertaken via the MEDLINE database (as presented in Figure 1). Initial search for ovary inguinal hernia elicited 183 results, which were further screened by excluding articles with pediatric, paediatric and infant in the title to 87 articles. abstracts and where required, full articles, were reviewed to select articles relevant to the clinical case described. Studies were selected that met the following inclusion criteria: presence of ovarian inguinal herniation. and no post-pubertal age congenital urogenital abnormalities. The clinical details of the relevant 14 articles are summarized in Figure 2.

Case Report

A 26 year old nullip presented to Emergency with a 2 week history of reducible right groin mass with straining and corresponding right quadrant pain. reported an increased amount of heavy lifting in her line of work in the several weeks prior to the onset of pain. She was of a normal BMI and her history medical was unremarkable. aside from previous Chlamydia STI (with negative test of cure) and progesterone-releasing IUD in situ with resultant amenorrhea. Ultrasound showed a perfused right ovary and associated 4.3cm cyst adjacent to and slightly extending into the right deep inguinal ring, with thickening and hypervascularity of the ovarian consistent with inflammation. On examination, the groin mass was reduced and abdomen was nontender; the patients right lower quadrant pain had abated with reduction of the groin mass. Inflammatory markers. pregnancy test, routine bloods and endocervical/high vaginal swabs were all negative. The patient was informed that these sonographic findings likely represent a reduced ovarian herniation, and the patient opted for conservative management, surveillance cvst and consideration of elective repair.

Results

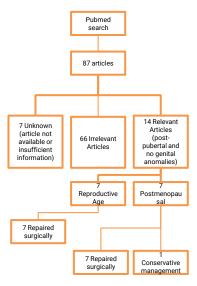


Figure 1: Summary of Systematic Literature

Conclusion

The described clinical case and systematic literature review demonstrate that, although very rare, ovarian involvement in an inguinal hernia sac is possible. The viability of the affected ovary in 11 of the 14 cases described in the literature further highlights the reversibility of this condition if expeditiously. managed Although this diagnosis is more likely in an infant population or in the presence of congenital abnormalities, it should not be discounted in the setting of a healthy adult female with lower abdominal pain.

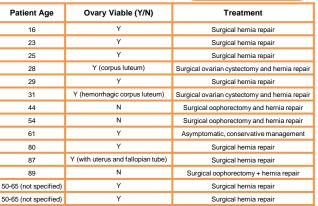


Figure 2: Clinical Details of Relevant Articles in Literature

References

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