

Original Research Article

A CASE REPORT ON LEFT OVARIAN TORSION

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A CASE REPORT

ABSTRACT:

Ovarian torsion is accounting for more than 3% of gynecological emergencies with an incidence, among all ages of women, of 5.9 per 1,00,000 women. This affection can be simply defined as twisting of the ovary on its ligamentous support, often resulting in impedance of its blood supply, which can lead to ovarian necrosis, infection and peritonitis. Ovarian torsion is mostly associated with presence of benign masses in the ovary, as malignant tumors are less frequent and less prone to undergo ovarian torsion. This is why this complication needs to be diagnosed as early as possible to preserve the function of ovaries and fallopian tubes and to prevent necrosis. Some of the surgical procedures available to untwist the ovary are laparoscopy and laparotomy. If there is prolonged loss of blood flow to the ovary and surrounding tissue then the procedures like oophorectomy and salpingo-oophorectomy are suggested. ~~Some of the medications that can be given for the recovery of patient after surgery are analgesics or opioid analgesics, antibiotics, antifibrinolytics. etc.,~~

KEY WORDS: Ovarian torsion, ovarian necrosis, laparoscopy, laparotomy. Oophorectomy, salpingo-oophorectomy.

INTRODUCTION:

Ovarian torsion occurs when the ovary twists over the ligaments that support the adnexa cutting off blood flow to the organ(1). Even the fallopian tubes often twists along with the ovary and is referred as adnexal torsion. If the blood flow becomes restricted for a long time, it can lead to death necrosis of tissue. In pediatric age group, ovarian torsion is a rare problem which should be included in differential diagnosis of any girl with abdominal pain or a pelvic or abdominal mass(2). Some of the causes that may lead to ovarian torsion includes extra weight or mass on ovary, polycystic ovarian disease (PCOD), having long ovarian ligament that connects ovary to the uterus etc., (3). Sometimes diagnosis of ovarian torsion becomes challenging because the symptoms are very similar to kidney stones, appendicitis, Urinary tract infections (UTI), gastro enteritis and other conditions. Torsions mostly involve both ovary and fallopian tubes and there are some cases of isolated torsion involving either one(one in 1.5 million women)(4).Ultrasound scan is one of the most useful technique for diagnosing, but normal doppler examination does not exclude ovarian torsion(2). It is known that, there are no significant differences in symptoms, investigations or signs except ultrasound finding of an enlarged ovary (5). Most commonly ovarian torsion affects premenopausal women but up to 17% of torsion may also occur in prepubertal and post-menopausal females (6). Even though ovarian torsion occurs in normal adnexa, most frequently it arises from one of many anatomic changes. Fewer than half of ovarian torsion cases in pediatric patients involve cysts, teratomas or other masses (7). There are more than 80% of patients with ovarian torsion having ovarian mass of 5cm or larger. It is indicative

that the primary risk in ovarian torsion is ovarian mass (8). Diagnosis of this torsion is relatively rare, affecting about 6 per 1,00,000 women per year. It is most commonly seen in reproductive age or it can occur at any age (9). Treatment for ovarian torsion can be done either by untwisting and fixing the ovary in place or by removing it (9)(10). In severe cases, where blood flow is stopped for the ovary for extended period of time, ovary can be necrotized. In such cases ovary must be removed surgically (11). Right side of the ovary is most commonly affected by torsion due to increased length of the utero-ovarian ligament on the right and presence of the sigmoid colon on the left (12).

CASE REPORT:

A female patient of age 19 years was admitted in obstetrics and gynecology ward with the chief complaints of pain in left IF since 1 day on & off, non-radiating, 3 episodes of vomiting's. Patient was apparently normal before 2 days but she started suffering with pain in left iliac fossa which is non radiating type followed by vomiting's. ??????????

Patient has no similar complaints in the past. **Patient** have no history of white discharge, UTI symptoms, fever or any allergies. There is no previous surgical history in the past. **The physical exam has showed tenderness in hypogastric region of right and left iliac fossa and slightly pallor ...**..... **patient is examined per abdomen physicians found. General examination was done and the patient is found.** Lab investigations were performed which showed decreased Hb-7.6 gm/dl, increase in polymorphs- 78% and reduction of lymphocytes-19% , monocytes-2% and Erythrocyte sedimentation rate was highly increased to 50mm/hr. Ultrasound scan of abdomen ~~was done and the impression~~ showed minimally extended urinary bladder and minimal amount of free fluid noted in pelvis and **POD**. Right ovary is normal in size and the left ovary is enlarged and edematous **with** Cystic lesion of 7x5x5.4 cm noted in left ovary with peripherally arranged follicles. Based on lab investigations and clinical data it was diagnosed that patient is suffering from “ Left Ovarian Torsion”. Patient has undergone surgery **as per physicians' advice i.e., laparoscopy.** Pharmacological treatment was given to the patient after the surgery which includes antibiotics, analgesics and antifibrinolytics etc., and this medications should be continued as per the suggestions given by clinicians. Patient will recover quickly after the surgery if medications are used properly.



Fig.2 Ultrasound scan of abdomen



DISCUSSION:

Ovarian torsion is also called as adnexal torsion. This occurs when the ovary becomes twisted around the tissue that supports it. In some case fallopian tubes may also become twisted. And this condition is considered as a medical emergency. Recognition of ovarian torsion at early stage is essential for preserving the ovary, particularly in patients with future fertility aspirations. Otherwise, it can lead to necrosis, loss of ovary and infertility if not identified promptly. Generally, ovary has the blood supply from both the ovarian arteries as well as uterine arteries. Due to twisting of ligaments it can lead to venous congestion, edema,

compression of arteries and eventually loss of blood supply to the ovary. We observe right side ovarian torsion more commonly than left sided torsion because of increased space in the right pelvis due to location of the sigmoid colon in the left. Some of the symptoms experienced by the patient will be lower abdominal pain or pelvic pain. Pain can be continuous, intermittent or sharp. Patient may also have nausea, vomiting along with abdominal and pelvic pain. Grey scale ultrasound findings are helpful in identifying enlarged ovary, ovarian mass, free fluid, follicles at the periphery of enlarged ovary and twisted pedicle. As the symptoms of ovarian torsion are more similar to appendicitis, diverticulitis or renal colic, CT rather than ultrasound is first modality with which patients are imaged even after appropriate clinical evaluation. Furthermore, when ultrasound or CT reveals the indeterminate gynecologic mass, MRI will be the next step for further characterization. The better method for treating ovarian torsion in premenopausal women is surgery with adnexal sparing. Ovaries are found functional in greater than 90% of patients who underwent detorsion. Hence surgery with adnexal sparing is the management of choice. Ovarian torsion is usually not a life-threatening condition but it is an organ threatening. In case of our patient the ultrasound scan was done and the results showed enlarged left ovary with peripherally arranged follicles and minimal amount of free fluid noted in pelvis and POD. Due to presence of some symptoms like vomiting along with abdominal pain and the results of ultrasound, it is confirmed that patient is suffering with left ovarian torsion.

CONCLUSION:

Ovarian torsion is a gynecological emergency which is rare and requires an early surgical intervention to prevent the ovary from necrosis and to restore proper blood flow. One of the challenging factors of ovarian torsion is it's diagnosis because of its non-specific clinical presentation. Various etiologies are attributed to ovarian torsion. Even though there are no specific indications, diagnosis of ovarian torsion should be considered on finding a pelvic mass. One of the best managements preferred for ovarian torsion is laparoscopy. Because of high recurrence rate oophoropexy may be considered.

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