Atypical Polypoid Adenomyoma (APAM)

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ABSTRACT
Atypical polypoid adenomyoma (APAM) is a rare polypoidal benign tumor of uterus, which usually presents with irregular vaginal bleeding in women of reproductive age. It has the potential of malignant transformation but does not metastasise. It may coexist with endometrial hyperplasia and adenocarcinoma; and so, is usually misdiagnosed. It is composed of atypical endometrial glands along with bundles of smooth muscle fibres. It has a high incidence of recurrence. We describe a case of APAM, which was managed at a tertiary care hospital. A 25-year woman with irregular vaginal bleeding and abdominal mass had total abdominal hysterectomy (TAH) on suspicion of endometrial sarcoma. Histopathology specimen revealed APAM. On follow-up so far, she is in stable condition and asymptomatic.

Key Words: Atypical polypoid adenomyosis, Adenosarcoma, Endometrial carcinoma.

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INTRODUCTION
Atypical polypoid adenomyoma (APAM) is a rare benign polypoidal tumor of uterus, reported first by Mazur in 1981.¹ It has the potential of malignant transformation and a high incidence of recurrence, but does not metastasise. Endometrial carcinoma coexists with APAM in 8.8% of cases.² APAM is composed of atypical endometrial glands surrounded by bundles of smooth muscle fibres and fibroblasts.³ It has an appearance similar to endometrial carcinoma, adenosarcoma and carcinomasarcoma, so its diagnosis is usually missed. The age range for its occurrence is 21-73 years with a mean of 38 years.⁴ So far, 237 cases have been reported worldwide.

Patients usually present with abdominal mass and irregular vaginal bleeding. There is strong association with infertility. The uterus is enlarged with endometrial cavity containing multiple polypoidal growths raising suspicion of adenosarcoma or endometrial carcinoma.

Ultrasound appearance is of a lobulated mass with cystic and hemorrhagic foci, vascular pedicle and associated adenomyosis. Low intensity areas are observed in T2-weighted magnetic resonance imaging (MRI). MRI and ultrasound are helpful in diagnosis but confirmation is by histopathological examination of the lesion.

Management is individualised according to age, clinical features and fertility desires. Fertility sparing modes of management include endometrial ablation and long-term use of high dose progestogens, but requires long-term follow-up because of its high risk of recurrence. We present here a case of a young woman with APAM, which was managed at our hospital.

CASE REPORT
A 25-year nulliparous woman married for 7 years, presented with 5 years history of heavy vaginal bleeding. She also had history of post-coital bleeding and dyspareunia. For her symptoms, she had been having different treatments with no relief. Later, she was found to have a polypoidal growth projecting out of cervix, for which she underwent polypectomy three years back at a private clinic. The histopathology report of polypoidal growth turned out to be endometrial hyperplasia. She was given different hormone preparations, but her symptoms did not improve. She also took multiple cycles of ovulation induction drugs but was unable to conceive. She gradually developed worsening symptoms including irregular heavier periods, weight loss and generalised weakness, for which she presented to Jinnah Hospital, Lahore. On examination, she was pale looking. There was a 20 weeks size firm mass in lower abdomen arising out of pelvis, and lower limit of mass was not reachable. On vaginal examination, there was an 8 x 6 cm rounded mass occupying upper two-thirds of vagina with a broad stalk extending into uterine cavity; cervix could not be visualised. Ultrasound scan was done which showed bulky uterus with 8.5 x 5.8 cm size echogenic mass in the endometrial cavity and endo-cervical canal. Moreover, multiple small cystic areas were seen within the mass. MRI was also carried out, which reported uterus measuring 17.4 x 8.6 x 12.4 cm, with diffusely thickened and heterogeneous endometrium measuring 4.9 cm containing...
innumerable cystic areas completely occupying endometrial cavity (Figure 1). Extension was noted in the cervical canal with cervical stroma involvement and myometrial invasion. Returning signals were hypo-intense on T1-weighted imaging (T1WI) and hyper-intense on T2WI, suggesting stage II endometrial carcinoma. Her examination under anesthesia (EUA) and biopsy was planned, which was carried out. On EUA, a 6×8 cm polypoidal growth was seen obscuring approach to the endometrial cavity. A 2×2 cm tissue biopsy was taken from the polypoidal mass as the uterine cavity could not be explored. Histopathology report showed endometrial polyp.

Keeping in view her symptoms, clinical examinations, ultrasound and MRI findings, laparotomy was planned. Patient was counselled regarding the possibility of hysterectomy. Preoperatively, she was transfused two units of blood with four units in hand for surgery. Her surgery was performed. Vaginal growth was removed vaginally, and uterus was seen to be full of multiple polypoidal masses, so laparotomy was proceeded with. Sub-umbilical midline incision was given and peritoneal washings were taken. Intraoperatively, uterus was found to be irregularly enlarged to 20 weeks size. An incision was given in the anterior lower uterine wall and the cavity was approached with the idea to remove the growth and leave uterus behind. Numerous small polypoidal growths were found to be filling the whole cavity with thick uterine walls raising the suspicion of adenosarcoma or adenocarcinoma (Figure 2). As there was a strong suspicion of malignancy, total abdominal hysterectomy was proceeded with. Both tubes and ovaries were normal looking and were preserved. Rest of the abdominal and pelvic organs were unremarkable. Patient had an uneventful postoperative recovery and was discharged on 4th postoperative day. Her histopathology report was of APAM with no evidence of invasion or malignancy (Figure 3).

Fluid cytology was negative for malignant cells. Stitches were removed on 10th postoperative day. On follow-up so far, she is in stable condition and asymptomatic.

DISCUSSION

APAM is an uncommon benign uterine lesion, which is often misdiagnosed because of its association with atypical hyperplasia or...
Atypical polypoid adenomyoma (APAM) is a rare condition and experience with its diagnosis and definite management.

There are fertility sparing modes of treatment like prolonged use of high dose progestogens and trans-cervical resection of growth with removal of sufficient muscle layer of uterus resulting in favourable fertility outcome. In these cases, long-term follow-up with hysteroscopic biopsy is required because of a high risk of recurrence and malignant transformation.

Hysterectomy is the treatment of choice in older patients or patients with recurrent disease. Our patient although was nulliparous and young but she had recurrent disease which was missed previously, was associated with hyperplasia and had a strong suspicion of carcinoma on imaging and gross appearance, and since it was not possible to remove innumerable polypoidal growths. Therefore, we proceeded with hysterectomy as a definite management.

APAM is a rare condition and experience with its diagnosis and optimal management is limited. It should be differentiated from endometrial carcinoma and sarcoma and whether it is pre-cancerous for endometrial carcinoma is unclear yet. Management should be individualized.

CONFLICT OF INTEREST:
Authors declared no conflict of interest.

PATIENT’S CONSENT:
The consent of the patient was taken prior to the writing of the manuscript.

AUTHORS’ CONTRIBUTION:
LJ: Selection of the case, conception of the idea, layout of the manuscript, collection of information and ensuring its accuracy and integrity.
NA: Drafting of the manuscript.
MS: Critical revision and final editing.
AZ: Overall supervision and final approval of the version to be published.

REFERENCES