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CASE REPORT

Endometrial Carcinoma in a Young Woman: "30 is Not Immune"

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Introduction

Endometrioid adenocarcinoma is the most common form (nearly 80%) of endometrial carcinoma. These tumors are referred to as 'endometrioid' because they resemble proliferative phase of the endometrium. It is common in postmenopausal women (>50 years) and presents as abnormal vaginal bleeding [1]. About 1–8% of these carcinomas occur in women less than 40 years. Small numbers of cases have been reported in women under the age of 30 years, the youngest being 15 years. It is unusual in younger age group and can be wrongly diagnosed [2, 3]. Majority of patients present with clinical evidence of polycystic ovarian disease but in some reports the patients lacked these features [4]. With this background we present a case of endometrial carcinoma in a young woman who presented with fibroid.

Case Report

Miss X, a 30 year old presented with complaints of menorrhagia since 6 months and abdominal pain since 2 months. No other significant complaints noted. Her

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previous menstrual history was normal and there was no history of diabetes, hypertension, and tuberculosis in the family. General physical examination was normal. Abdominal examination revealed a 14–16 week size uterus which was non-tender. On vaginal examination, the uterus was 14 weeks size and pushed to the right side.

Investigations

Blood investigations revealed Hb% of 7.6 g/dl, ESR of 24 mm/h with other blood counts being normal. Chest X-ray was normal. Ultrasound showed ante-verted uterus measuring $7.8 \times 3 \times 4.8$ cm. Two fibroids noted, one in the anterior wall measuring 6.7×6 cm and the other in the posterior fundal area measuring 5×4.5 cm. Endometrium was 10 mm in thickness (Fig. 1).

Case was posted for myomectomy following blood transfusion. Intra operative findings revealed a 14-week size uterus with an anterior wall fibroid measuring $10~\rm cm \times 10~\rm cm$ for which myomectomy was done. Uterine cavity was opened to look for the posterior fibroid. A cheesy material was drained and sent for histopathology. Myomectomy cut-section showed whorled appearance with cystic and hemorrhagic areas. Endometrial curetting sections showed closely packed endometrial glands with back-to-back with no intervening stroma, pleomorphic stromal infiltration and areas of necrosis. Histopathological diagnosis was adeno-carcinoma (endometrioid) and leiomyoma (Figs. 2, 3).

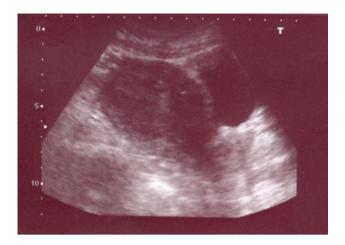


Fig. 1 TVS ultra-sound

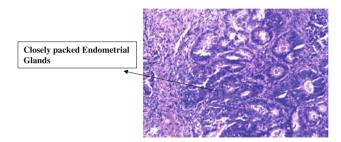


Fig. 2 Low power microscopy

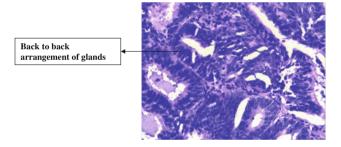


Fig. 3 High power microscopy

We were in dilemma for further management considering her age and fertility status. Patient was counseled regarding the management. Staging laparotomy was done with Total abdominal hysterectomy with bilateral salpingo oophorectomy and peritoneal sampling was negative. Gross pathology showed enlarged uterus with anterior myomectomy scar. Cut section showed fleshy polypoidal growth infiltrating myometrium and endocervical canal (Figs. 4, 5).

Surgicopathological staging was Adenocarcinoma endometrium well differentiated (G1) Involving >1/2 myometrium and endocervical canal (Stage II B) with normal adnexae (Figs. 6, 7). Post operative radiotherapy was given. Patient was advised for follow up treatment.



Fig. 4 Gross pathology

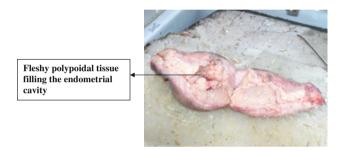


Fig. 5 Cut section of uterus

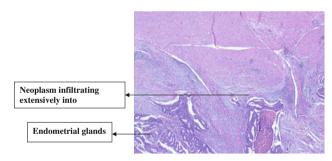


Fig. 6 Low power microscopy

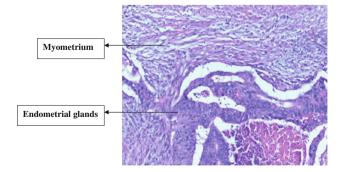


Fig. 7 High power microscopy



Discussion

The median age group of patients with endometrial carcinoma is 61 years with 75–80% being post menopausal. Only 3–5% is less than 40 years. In the present case it was surprising to see endometrial carcinoma in the younger age group. Endometrial curette was not done pre operatively, keeping in mind the patient's age, marital status and ultrasound diagnosis.

Endometrial cancer is an estrogen dependent disease. Chronic exposure to estrogen without accompanying balancing effect of progesterone is considered the major risk for endometrial cancers. Unopposed estrogen condition (premenopausal anovulatory phase like PCOD and functioning ovarian tumors) predisposes to endometrial cancers [4, 5].

There is considerable evidence that reproductive factors play a role in etiology of endometrial carcinoma [6]. Nulliparity/Nulligravida is associated with increased risk and there is positive association between infertility and endometrial cancer in young women [7]. Age related risk factors of endometrial cancer shows that there is known inverse association between age at menarche. Women who started menstruating at 15 years had about 1/3 risk of cancer compared to those at age 10 years or younger. Risk of endometrial cancer was higher among women who were older, heavier and had not been married.

High dose progesterone 200 mg/day has been reported successfully to reverse atypical hyperplasia and well differentiated endometrial adenocarcinoma in 16 (94%) premenopausal women younger than 40 years. Average

treatment course required to achieve disease regression was 9 months [8, 9].

To conclude, in a case of fibroid, of more than a decade of menstrual life, an effort should be made to exclude associated neoplastic endometrial pathology, irrespective of the age.

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