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Obstetrics and Gynaecology

Fibroepithelial Polyps of the Vagina in Pregnancy

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A 25-year-old primigravida mother at 36 weeks pregnancy presented with mass descending per vaginum for last one month. In the antenatal history she had regular antenatal visits without any pregnancy complication. General and systemic examination revealed no abnormality. On local examination of external genitalia, there was a large pedunculated polyp [Table/Fig-1] of the vagina which measured 8 x 6 cm with multiple large atypical polyps found inside the vagina. Cervix was healthy and os was closed. An excisional biopsy of the largest polyp was done and histopathology revealed benign fibroepithelial polyps. So decision was taken to allow spontaneous vaginal delivery. Since operative vaginal delivery should be avoided in such cases to reduce the risk of trauma and haemorrhage [1]. Her pregnancy continued well and she went in to spontaneous labour at 40+2 weeks. But caesarean section was done for intrapartum fetal distress. On follow up after 6 weeks, the patient is asymptomatic and the polyps were reduced in size



[Table/Fig-1]: Large pedunculated polyp with multiple fibroepithelial polyps of vagina [Table/Fig-2]: After 6 weeks polyps reduced in size and numbers

and number which proved their hormone dependant nature [Table/ Fig-2].

Fibroepithelial polyps of the vagina (FEPV) are mucosal polypoid lesions with a connective tissue core covered by a benign squamous epithelium [2]. They are thought to be rare as few cases are reported in literature and the cases are compared with the present case in [Table/Fig-3].

The aetiology of FEPV may be as a result of a granulation tissue reaction after some local injury of the vaginal mucosa. It is because of delayed differentiation of myofibroblastic stromal cells which explains why granulation tissue sometimes does not contract properly but turns into polyps [2]. But during pregnancy hormonal factors may modulate the growth of FEPVs. Hartmann CA et al., reported after examination with immunohistochemistry that FEPV expressed vimentin, desmin, and receptors for estrogen and progesterone which indicates the hormone dependant nature of these polyps [3]. Although benign, it can be confused with malignant connective tissue lesions because of its bizarre histology. The differential diagnoses are sarcoma botryoides, rhabdomyosarcoma and mixed mesodermal tumour [4]. Histopatholgy confirms the diagnosis. The other terminologies of FEPV reported in literature are Pseudosarcoma botryoides, Cellular pseudosarcomatous fibroepithelial stromal polyps and Polyposis vaginalis [5,6]. Treatment of FEPV is simple local excision [7,8]. It can be performed after pregnancy as an interval procedure when the vaginal vascularity has returned to normal. Recurrence is extremely uncommon [9]. Nucci MR et al., studied 65 cases of FEPV and reported that awareness of the spectrum of histopathologic features that these lesions can

Author	Case history	Treatment	Follow up
Pearl ML et al., [1] in 1991	38-year pregnant lady with FEPV	Biopsy confirmed diagnosis Underwent spontaneous vaginal delivery	Polyps reduced in size and number after 6 weeks
Halvorsen TB et al., [2] in 1992	62 cases of FEPV	Histopathology confirmed the diagnosis	Hormonal factors modulate the growth of FEPV during pregnancy
Hartmann CA et al., [3] in 1990	4 cases of FEPV	Histopathology confirmed the diagnosis	FEPV expressed vimentin, desmin, and receptors for estrogen and progesterone
Ramirez Melgar E et al., [4] in 2000	27-year woman with a great pedunculated polyp	Local excision after biopsy confirmed the diagnosis	No recurrence
Nucci MR et al., [5] in 2000	33 cases of FEPV among which 5 were pregnant	Local excision	Three of 21 patients with follow-up had local, nondestructive recurrence
Tobon H et al., [6] in 1989	15-year old pregnant lady with multiple polyps in vagina and portio vaginalis of cervix	Spontaneous vagina delivery	Polyps disappears 6 weeks postpartum
Lasso de la Vega J et al., [7] in 1995	A case of pregnancy with FEPV	Caesarean section Local excisional biopsy	No recurrence
Maenpaa J et al., [8] in 1988	25-year old primigravida with large FEPV with intercurrent human pappiloma virus infection of vagina	Caesarean section followed by excisional biopsy	No recurrence
Burt RL et al., [9] in 1976	5 cases of FEPV	Local excision after biopsy confirmed the diagnosis	No recurrence
Present case [2015]	25-year primigravida with large FEPV	Biopsy confirmed the diagnosis Caesarean section for obstetric indication	Polyps reduced in size and in number after 6 week post partum

exhibit and is crucial in their accurate diagnosis thus avoiding potential overtreatment [5].

FEPV in pregnancy is a rare lesion. Although benign, it can be confused with some malignant tumours. Histopathology confirms the diagnosis. Treatment is simple local excision and recurrence is uncommon. Hence knowledge of clinical and histopathological features of these lesions is important for accurate diagnosis for avoiding potential overtreatment.

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