

CERVICAL POLYP AN INCIDENTAL CLINICAL FINDING AND PATHOLOGICAL CORRELATION

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ABSTRACT

Background:

Cervical polyps are the commonest cervical lesions and occur in about 2-5% of women. It is common practice to remove these polyps whenever they are identified and the main reason for this is the concern over the potential for malignant transformation. This study was done to analyse the spectrum of histopathological diagnosis in cases of cervical polyps and to identify focus of malignancy if present. This would help us to improve further management of cases of symptomatic and asymptomatic cervical polyps

Methods:

This study was conducted in the department of Obstetrics and Gynecology in a tertiary care teaching hospital over a period of two years. Women with a polypoidal growth from the cervix visualized on per speculum examination were included in the study. Polypectomy was done and the specimen sent for histopathological examination and the data analysed.

Results: Total of 107 women was included in the study. Most of the women (47.7%) were in the age group 40-49 years.

Endocervical mucous polyp was found to be the most common lesion (50.5%) followed by benign endometrial polyp (21.5%), and leiomyomatous polyp in 13.1%.

There were no foci of malignancy identified in any of these polyps.

Conclusions:

As the incidence of malignancy in endocervical polyp is very low, it is suggested that in cases of asymptomatic polyps, there is a role for expectant management with no intervention and these patients can be followed up leading to significant savings in health resources

Keywords: Cervical polyps, Endocervical polyps, Histopathological analysis, Polypectomy.

INTRODUCTION

Cervical polyps are the commonest cervical lesions and occur in about 2-5% of women. They are usually outgrowths of columnar epithelium of the cervix. They

are more frequent in parous women over 20 years of age and most of them (60-70%) are asymptomatic and found on routine speculum examination of cervix.²⁻⁷ They can however cause symptoms such as intermenstrual, postcoital and postmenopausal bleeding as well as vaginal discharge. It is common practice to remove these polyps whenever they are identified and the main reason for this is the concern over the potential for malignant transformation.⁷⁻¹⁰ Some researchers also think that regardless of menopausal status or symptoms, uterocervical polyps should be removed and pathological examination is necessary. ¹¹ Other reasons for removal include presence of symptoms as well as requests from patients. ¹² Cervical polyps vary in size from 5mm to 50mm.⁷ They are commonly cherry red to purplish red in colour, soft, pliable, fleshy, pedunculated, friable and readily bleeds on touch. ¹³ Symptomatic polyps are more frequent in the premenopausal women while asymptomatic polyps are significantly more common in post-menopausal women. Cervical polyps result from chronic inflammation causing focal hyperplasia, reaction to foreign bodies, a localized congestion or cervical vasculature and/or an abnormal local response to estrogen stimulation. ^{13,15} Endometrial

polyps consist of endometrial glands, stroma and blood vessels. ¹⁶

Many clinicians believe that routine removal of polyps is reasonable because they are easy to remove, unlikely to resolve, may become symptomatic and it is not known if they are likely to progress to malignancy. ¹⁵ Mackenzie et al found no malignant features in 1366 cervical polyps and 67% of them were removed from asymptomatic women.⁷ This raises the question whether all polyps should be removed and subjected to histopathological examination, particularly in asymptomatic women.⁵ Removal of polyp is not without risks. The potential problems are risks of anesthesia, bleeding as well as infection. It is also shown that unnecessary removal of these polyps can have a significant impact on health care resources.⁷

This study was done to analyse the spectrum of histopathological diagnosis in cases of cervical polyps and to identify focus of malignancy if present. This would help us to improve further management of cases of symptomatic and asymptomatic cervical polyps.

METHODS

This prospective study Women presenting with complaints of discharge per vaginum, inter menstrual bleeding, post coital bleeding and postmenopausal bleeding were subjected to a per speculum examination. Patients presenting with a polyp protruding through the cervix were included in this study. Total of 107 women were detected with polypoidal growth protruding through the cervix. Informed written consent was taken. These women were subjected to a polypectomy and the specimen was sent for histopathological examination to the pathology department in 10% formalin. They were studied grossly and multiple sections taken. The specimens were processed in automated tissue processor. Four to six micron thick paraffin embedded sections were taken and stained by haematoxylin and eosin. The slides were examined under microscope by the pathologist and the various histopathological patterns identified and classified. Data was collected and shifted to computer for analysis. SPSS software was used for statistical analysis of data.

RESULTS

Total of 107 women were detected to have polypoidal growth protruding through the cervix. They were in the age group 22-70 years (Table 1). 47.7% of the women with cervical polyps were in the age group 40-49 years followed by 26.2% in the age group 30-39 years. Next common was in the age group 50-59 years (15%) and 7.5% in the age group 20-29 years. No polyps were seen in patients below 22 years of age and there were only 4 cases in the age group 60-70 years.

Endocervical mucous polyp was found to be the most common lesion (50.5%). Next common was benign endometrial polyp (21.5%), followed by leiomyomatous polyp in 13.1% and endocervical glandular polyp in 9.3%. Endometrial hyperplastic glandular polyp was seen in 5.6% of patients. There were no foci of malignancy identified in any of these polyps.

All types of cervical polyps were more common in the age group 40-49 years. Cervical polyps were less commonly found in the age group ≥ 60 years. Endocervical mucous polyp was the only type found in the age group 20-29 years whereas benign endometrial polyp was the only type of cervical polyp found in the age group ≥ 60 years.

DISCUSSION

In our study, cervical polyps were more common in the age group 40 - 49 years (47.7%) followed by 30-39 years (26.2%). This is similar to reports where cervical polyps are more commonly seen in the reproductive age especially after 40 years of age. 17-19 Tirlapur et al found maximum incidence of cervical polyp in the age group 25-45 years. 12 Salim S et al reported that more postmenopausal than pre-menopausal women are affected with endometrial polyps. 20 Wachokor FNN et al found peak incidence of endocervical polyps in the fifth decade. 21 In our study the most common finding was endocervical mucous polyps (50.5%) followed by benign endometrial polyps (21.5%), leiomyomatous polyp was next common (13.1%) followed by endocervical glandular polyps (9.3%) and endometrial hyperplastic glandular polyps (5.6%)

Sidhalingreddy et al and Sneha Sainy et al also found endocervical polyps as the most common type of polypoidal lesion followed by leiomyomatous polyps and

fibroepithelial polyps. 22,23 Nelson LA et al also found endocervical polyps (57.1%) as the most common followed by inflamed endocervical polyps (21%) and next most frequent-endometrial polyp (6.2%). 24 In our study there were no malignancy or dysplasia reported in the cervical polyps. Senturk MB et al Mackenzie I et al and Tirlapur SA et al also found no features of atypia, dysplasia or malignancy. 7,12,25 This contradicts the findings of Berzolla CE et al who found a prevalence rate of 0.1% for malignancy and Schnatz PF et al who found the prevalence rate of 1.4 – 2.7% for any abnormality defined as atypia, dysplasia or malignancy. 4,13 Mayada T.S .Younis et al found no case of overt malignancy in their series but 0.2% of polyps showed high grade cervical intraepithelial neoplasia in symptomatic patients. 26 Detecting malignancy in uterocervical polyp is a rare event. Fauth CI et al reported benign and malignant utero-cervical polyp percentages as 95% and 1.4% respectively. 27

CONCLUSION

Both our data and the review of literature suggest that the incidence of malignancy in endocervical polyp is very low. Hence it is suggested that in cases of asymptomatic polyp, there is a role for expectant management with no intervention after proper discussion with the patient and these patients can be followed up. Removing polyps only from symptomatic women and those with abnormal smears and doing histopathological examination of only these polyps would result in significant health resource savings.

HPE of polyp	Frequency	%
Benign endometrial polyp	23	21
Endocervical mucous polyp	50	50
Leiomyomatous polyp	13	13
Endocervical glandular polyp	10	9
Endometrial hyperplastic glandular polyp	06	5
Total	107	100

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