

USHA • B.R. NARANG • P. TIWARI • A.K. ASTHANA • V. JAISWAL

#### SUMMARY

Benign tumours of the cervix formed 37.90 percent of all benign tumours of uterine corpus and cervix. Maximum cases (50.86%) were in the 4th decades of their life and multiparous (55.17%). Heaviness, pain in lower abdemen (31.03%) and watery discharge P/V (29.65%) were the common symptoms. Histologically mucous polyp (84.48%) accounted for the maximum number of cases followed by leiomyoma, condyloma, microglandular hyperplasia and angiomatous polyp. All benign tumours of the cervix histologically revealed plenty of inflammatory cells in addition to their original morphology suggesting that chronic inflammation is the main etiological factor for the development of most of the benign tumours of the cervix.

## **INTRODUCTION**

The uterine cervix is a very vulnerable site for developing many types of benign as well as malignant tumours. The most commonly encountered benign cervical tumours are endocervical polyps, leiomyoma, microglandular hyperplasia and others. 1 The present study included elinicopathological analysis of 116 benign tumours of the cervix. Inspite of the frequent occurrence of these tumours in our country, very few references are found in the Indian literature.

Dept. of Obst. & Gynec. P.R. Ins. Med. Sci., Varanasi. Accepted for Publication on 26/7/91

## MATERIAL AND METHODS

This study included 116 benign tumours of the cervix diagnosed within 2 years in the department of pathology. Specimens were obtained from department of obstetrics and gynaecology & Prasuti Tantra of University hospital BHU. Relevant clinical details were considered Biopsy specimens were fixed in 10% formalin. In some cases the entire uterus together with cervix & adnexae were received, where gross findings were recorded. Specimen for biopsy were selected from proper sites & then processed. Routine paraffin blocks were prepared and  $4\mu$  thick sections were examined in light microscope.

# JOURNAL OF OBSTETRICS AND GYNAECOLOGY



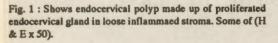


TABLE I

Shows Age group of the patients

in benign tumours of cervix.

116

100



Fig. 2 : Shows cervical leiomyoma made up of proliferated bundles of smooth muscle arranged in parallel bundles. Lower portion shows chronic inflammation and focal areas of hyalinization also (H & E x 125).

## TABLE III

# Depicts symtoms in benign

#### tumours of cervix.

Benign tumours of cervix.		Symptoms	No. of cases	Percentage
No.	Percentage	1. Watery discharge	. 34	29.65
02	1.73	P/V 2. Foul smelling dis-	22	10.34
23	19.83	charge P/V	LL	10.54
59	50.86	3. Irregular bleeding	25	21.55
26	22.41	P/V	the states for	ana areas and
05	4.3	4. Heaviness and pair in lower abdomen.		31.03
1	0.86	5. Dysmenorrhoea	06	5.68
116	100	6. Others	18	15.51

## TABLE II

Showing parity distribution of benign tumours of cervix. No. of case Percentage No. of Pregnancy Nulliparous 2 1.74

Total no. of cases	116	100
7-8	04	3.45
5-6	04	3.45
3-4	64	55.17
1-2	42	36.20

## TABLE IV

#### Dipicts the histology of

the benigh tumours of cervix.					
Histologic type	No. of cases Percentage				
1. Endocervical	98	84.48			
mucous polyp					
2. Leiomyoma	07	6.03			
3. Condyloma	06	5.17			
4. Microglandular	03	2.58			
hyperplasia					
5. Angiomatous polyp	02	1.72			

Age group

in years

11-20

21-30

31-40 41-50

51-60 61-70

Total No. of cases

## A CLINICO MORPHOLOGICAL STUDY





Fig. 3: Shows condyloma planum characterized by metaplastic squamous epithelium showing acanthosis, koilcytosis, superficial keratinization and intracytoplasmic inclusion (H & E x 125).

#### **OBSERVATION**

Total 306 tumours of uterine cervix & corpus were analysed within a period of 2 years, out of which 116 were from the cervix, hence the frequency of cervical neoplastic pathology was 37.90 percent. Age analysis revealed maximum cases in the 4th decade of life (50.86%) followed by 5th decade (22.41%) and 3rd decade (1983%) (Table-I). Two cases of endocervical polyp were found in the age group below 20 years also.

Mean age was 39.05±9.35 years. Parity distribution revealed that it was common in multiparous women (55.17%) having 3 to 4 pregnancies. About 36.20% cases had either one or two pregnancy. Only 2 cases were nultiparous (Table II). The majority of patients of cervical tumours presented with bleeding pervaginum (21.55%), foul smelling discharge (18.96%) and pain in the lower abdomen (31.03%). Some patients had combined symptoms also (Table -III). Histopathology revealed that 84.48% tumours were endocervical polyps, followed by cervical leiomyoma (6.03%), Condyloma (5.17%) and others (Table -IV).

Endocervical polyp characterized by a polypoid mass made up of proliferated endocervical glands lined by epithelium on all sides. The epithelium of surface and gland was of mucin secreting tall columnar type (Fig.1) Surface epithelium showed varying degrees of squamous metaplasia (20 cases -20.41%) and ulceration 31

Fig. 4: Microglandular hyperplasia of cervix showing proliferated small endocervical glands with focal reserve cell hyperplasia and squamous metaplasia. There is dense chronic inflammation in the polyp. (H & E x 125)

cases (31.63%). Majority polyps were heavily inflammed (80.83.67%) and had cystic dilatation of glands (75 cases - 76.53%) filled with mucinous material. Out of 98 cases, 68(69.38%) were resected endocervical polyp which were diagnosed clinically preperatively but the rest of the 30 (30.61%) polyps were small & were diagnosed in hysterectomy specimens as incidental findings. Their size varied from 0.5 cm to 2.5cm. The shape was usually oval and the external surface was smooth. The cut surface revealed tiny cystic areas. In 6 cases it was associated with some other uterine tumours such as leiomyoma (5 cases) and adenomyoma uteri (One case).

The second most common tumour was cervical leiomyoma (Fig. 2). All presented with polypoidal mass projecting through cervix. Five out of these 7 cases were arising from the cervical region, the remaining two cases were submucous leiomyoma uteri projecting downward through the cervix, their size varied from 1.5cm. to 3 cms. Gross and light microscopy were similar to uterine leiomyoma. Three out of 7 (42.85%) leiomyomas were highly cellular & Inflamed also. Diagnosis of condyloma was made only or microscopic examination because clinically they were diagnosed as bad cervices. About 50 percent (3 cases) were of condyloma planum and the rest of the 50% were of condyloma accuminatium. Histology showed acanthosis of metaplastic squa-

## JOURNAL OF OBSTETRICS AND GYNAECOLOGY

mous epithelium along with multiple koilocytes, binucleated cells and focal Keratinization in the superficial layer. The tissue underneath showed dense chronic inflammation (Fig. 3). Micorglandular hyperplasia was diagnosed in 3 cases. Patients were 25,35 and 38 years old. All the 3 patients had history of intake of oral contraceptive for more than 8 months and were diagnosed after examination of the hysterectomy specimen. Size was very small between 0.5 to 0.8cm. Vaginal discharge & lower abdominal pain were the symptoms. Histologically there was a polypoidal lesion formed by proliferated small endocervical glands showing reserve cell hyperplasia & focal squamous metaplasia (Fig. 4). There was dense chronic inflammation as well as acute inflammatory cells in the polypoidal mass. Angimatous polyp was seen in only two cases. It was made up of proliferated capillaries with surface ulceration & endothelial hyperplasia. Inflammation was mild. Both the patients were very young 28 years & 29 years & presented again with lower abdominal pain & dirty vaginal discharge off & on for last 6 months.

## DISCUSSION

Benign tumours of the cervix formed 37.90 percent of all benign tumours of uterine corpus and cervix. Majority of the tumours were found in late thirties of their life (50.86%) and were multiparous (55.17%). Pain and heaviness in lowerabdomen (31.03%), discharge per vaginum (31.89%) and inegular bleeding per vaginum (21.55%) were the common symptoms. In many cases symptoms were of mixed type. On examination more than 85% case presented as polypoid mass in endocervix. Histologically 84.48% polyp were of endocervical mucous type. Aaro et al (1963) also noticed these tumours in 4th to 6th decades of their life with multiparity. Pain in lower abdomen & bleeding per vaginum were the common manifestion in other series also.

In our present study since maximum cases (84.48%) are of endocervical polyp hence our clinical data such as age, parity clinical presentation noted in benign tumours are in correspondance with them. Gross & microscopic findings of endocervical polyp is not different from others. Lowe and Slavin<sup>6</sup> (1987) considered this lesion as a focal hyperplastic out growth of cervical epithelium rather than tumour. Other points noted in these tumours were heavy inflammation (83.67%), surface ulceration (31.63%), squamous metaplasia of surface and glandular epithelium (20.41%) and cystic dilatation of the glands (45.91%). These changes in varying proportion were described in others series also. These are purely benign lesions only 0.2 to 4% cases turned to carcinoma which may be either squamous or adeno carcinoma. Leiomyoma of cervix formed only 6.03 percent of all cervical tumours in our series but in other series it was found in 8% case. Pain & heaviness in lower abdomen, menstrual irregularities, polypoidal mass are common manifestations, but some times unusual presentation are met with e.g. cystocoele, inversion of uterus, infertility & abortions. Besides this ascitis, hydrothorax, polycythemia and pelvic infection can also be noted. Cervical condyloma was found in only 5.17% cases of benign tumours.

Now these lesions have become of utmost importance because most of these lesion progress & turn into carcinoma of the cervix. Syrjanen et al (1985) followed 343 women with cervical condyloma by papsmear & biopsy & noticed that after 18 months follow up about 4% condyloma progressed to cervical intraepithelial neoplasia and invasive carcinoma. Microglandular hyperplasia was seen in only 2.58% lesions with history of oral contraceptive pills. It is a comparatively uncommon tumour of cervix seen mostly in active reproductive age group taking either oestrogen or progesteron, Eact frequency is difficult to assess. Nichols & Fidler 1971 in a study of 128 cone biopsies taken from suspicius cervix, found MGH in 24% of cases and while Gall et al found MGH in only 3 cases out of 106 bad cervix. Hence the frequency of MGH is roughly 1.8% to 3% in benign cervical lesion.

## A CLINICO MORPHOLOGICAL STUDY

Some MGH have a typical features and are easily misdiagnosed as adenocarcinoma differentiating points from the adenocarcinoma is reticulaed pattern, normal mitotic figurs and no stromal invasion. In only 2 cases we reported angiomatous polyp of cervix. Haemangioma of the cervix is comparatively a rare lesion and only Occasional case report are available. Concluding the study we found that majority of benign tumours of cervix were found in child bearing age group and have heavy inflammation indicating that these are reactive hyperplastic lesion of cervix secondary to inflammation, contrary to this majority of benign tumours of uterus are normal dependent. Hence treatment of infection can prevent the benign growth of the cervix.

#### REFERENCES

- Aaro, LA, Jacobson LJ. Soule, EH: Obstet. Gynec. 21:659,1963
- 2. Gall S.A., Bourgeo' s. CH, Maquire R. JAMA 207, 2243:1970.
- Lowe D. and Slavin G: Non neoplastic conditions of the cervix. In Hainesand Taylor obsterical and Gynecological Pathology. Fox, H.eds. IIIrd edition Vo. I Churchill. Livingstone, Longman group limited, p.250.1987.
- 4. Nichols, T.M. & Fidler, H.K.: in Am.J. Clin. Pathol, 56:424.1971.
- Syrjanen K., Varyarynen M, Saarikoshi S, Manyjarvi R, Parkiinens H.M. and Castren O: Brit. J. Obstet. & Gynec. 92:1086,1985.

SIMULA MALLI & JAI BRADWAS SIMULA & NUMEL GULAD & K. JAIN

#### YRAMMUR

Advancements was present in 67 (11%) of 329 canner ulter hysterectionies performed over a period of three pears. Advancempatie was uncomplicated in 27 cares (40.20%) and constated with other petric pathology in 49 (29.70%) cares. Most pathots wave 40 to 50 years at age, autification of metapricals was encountered in 25% of cares abdominal torgety. Communication symplected groups, Michael and State prior abdominal torgety. Communication complicated groups, Michael and 21.30% cares respectively in the two protects of the dynamenterbone was seen in in 11.10% and 21.30% cares respectively in the two proeps. Licitatymetry was the communicat costicing distance present in 35.5% of calors while the protect protect of the communicat costicing distance present in 35.5% of calors while dynamenterbone was seen in in 11.10% and 21.30% cares respectively in the two proeps. Licitatymetry distance the communicat costicing distance present in 35.5% of calors while redementerbone was seen in in 11.10% and 21.30% cares respectively in the two proeps. Licitatymetry distance present in 51.5% of cares respectively in the two proeps. Advance present is a seen in a set of the communicat costicing distance present in 35.5% of calors while redementer distance present in an and the set of cares of complicated biomant pain. The opportunity and another set of the set

#### INTRODUCTION

About 2019 of all surgically removed steri interportive of the preoperative diaganets, den ountrate edemoniscenic (Bird et al. 1972). Men offers, it is an incidented puttedogical finding in otense removed for a ment obvices diagnets.

Protection patients of advances of the particul office of the patient of the pati

#### MATCHINE AND SECTIONS

The present date way ditrived from ease sheets

Propriet Ford of Operation (12) has block bits, Makingham

Vertical influences of primitations of a vertical influence of the second of the se