TUBERCULOSIS OF CERVIX*

(A study of 23 cases)

by

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Tuberculosis of cervix is considered to be a rare gynaecological condition. It surprises a gynaecologist when it is accidentally discovered after a routine cervical biopsy. It is probable that cervical tuberculosis is present more frequently than is realised.

The condition was first described by Renaud in 1831. Virchow clearly described a case in 1853. Moore, in 1919, collected 170 reported cases. In recent years more and more cases are being discovered as the gynaecologists have become more conscious of the necessity to take a biopsy from an unhealthy cervix.

A study was carried out at the Government Maternity Hospital, Hyderabad, A.P., from January 1961 to July 1967, of the cases of cervical tuberculosis. The condition was discovered and diagnosed on routine biopsy of an unhealthy cervix. During this period there were 283 cases of tuberculosis of genital tract, and 38 cases of cervical tuberculosis, giving an incidence of 13.4%. Of these 23 cases were investigated and followed up.

* Paper read at the 14th All-India Obstetric & Gynaecological Congress held at Nagpur on 26/28th November 1967. TABLE I Comparison of incidence of cervical tuberculosis by various workers

Name		Year		Percen- tage
Greenberg			1921	3.5
White			1926	8
Penworth			1947	5
Liljedahl			1951	4.7
Malkani			1957	12.4
Present serie	s		1967	13.4

Routine endocervical scraping in cases of endometrial tuberculosis was not carried out by us. Hence, some cases must have been missed. With the same procedure Nogales quoted cervical tuberculosis in 24.9% of his cases.

Mode of infection is usually regarded as a direct spread from the endometrium. Haematogenous spread from the infected tube has been described.

There is a relative immunity of the cervix to tuberculosis due probably to the bacillus not being able to penetrate the squamous epithelium of portio vaginalis, the cervical mucus exerting defensive action and the great vascularity of the cervix offering resistance. Predisposing factors are, trauma causing discontinuity of cervical epithelium and lowering of tissue resistance which reduces the bactericidal powers of the cervical secretions (Finlaison).

Primary tuberculosis of cervix is extremely rare and is very difficult to prove without doubt unless the whole genital tract is histologically examined (Haines).

TABLE II

Incidence of cervical tuberculosis in relation to other sites of T.B. in genital tract

Total cases 283	
Endometrium	233
Cervix	38
Tubes	22
Ovaries	10
Vagina	2
Vulva	2

Nogales and Vilar reported 46 cases of cervical tuberculosis in 244 cases of tuberculosis of genital tract.

Clinically, the two main types are ulcerative and proliferative. Rarer forms, miliary and interstitial tuberculosis have been described.

In the ulcerative form the ulcers have serpiginous outline, clear cut edges and yellow base. The early ulcers are seen near the external os, probably as an extension from the endocervix.

The proliferative type may have mal cycles. single or multiple papillary processes.

Finally, caseation occurs and leads sterility. to progressive destruction of the cervix.

trophied and get filled with lympho- of women were parous.

TABLE III

Clinical type	No
Proliferative	 9
Ulcerative	6
Erosion	6
Ectropion	2
Total	23

cytes and serous exudate. Squamous metaplasia may occur.

TABLE IV

Presenting symptoms

Leucorrhoea	9
Post-coital bleeding	4
Intermenstrual bleeding	3
Pain	1
Sterility	6

Most of the cases complained of persistent leucorrhoea. Pain was conspicuous by its absence and was present when there were tubo-ovarian masses.

Maximum number of cases was between 20-30 years of age. In Finlaison's series 50 per cent were between 20-40 but wide variation is reported. One case, aged 50, had tuberculosis complicating genital prolapse.

Menstrual history. There were 5 cases of amenorrhoea of which one was primary, 2 of menorrhagia, 12 of scanty menstruation and 3 with nor-

Sterility. There were 6 cases of They may be pedunculated or sessile. primary sterility and 13 of secondary

One woman was post-menopausal, 1 came 2 months after abortion, one. The microscopic appearance resem- 8 months after a normal delivery and bles that of tuberculosis elsewhere. another 15 months after delivery. It The cervical glands become hyper- is interesting to note that the majority

Co-existing pathology of adenomy- mg. of Isonex, 3 times daily and sis was reported in one case and 12 g. of P.A.S. daily in 3 divided fibroid uterus in another case. One doses. patient had an associated genital prolapse and another case was reported as carcinoma in situ with tuberculosis.

Invasive carcinoma of cervix closely resembles cervical tuberculosis but the cervix in tuberculosis remains remarkably mobile in spite of the long standing symptoms. One case who disappeared after the first biopsy came back after two years with an extensive lesion, but the cervix was freely mobile.

Once tuberculosis is discovered in the genital tract a search for primary focus must be made. All the routine investigations were carried out in these cases.

X-ray of the chest. This was done in 18 cases. There was active lesion in 4 cases, healed lesion in 2 and normal x-ray findings in 10 cases. Cavitation was seen in 2 cases.

Endometrial biopsy. This was done in 19 cases and in 14 cases there was endometrial tuberculosis. In the remaining 5 no tubercular lesion was detected.

It is almost certain that tuberculosis spreads to cervix from the endometrium. Of the negative cases, in two no endometrium was obtained for lesions are common. examination.

the patient and anaemia was correct- with adenomyosis. ed. Antimicrobial therapy was started for all patients during their stay in Acknowledgement the hospital.

tramuscularly daily for 4 weeks. 100 Superintendent, Government Mater-

It was not possible to continue the therapy for prolonged period as the patients got themselves discharged no sooner they improved, and those who were discharged for domiciliary treatment discontinued the drugs prematurely.

Six cases were followed up from 3 months to 2 years. Complete healing, proved histologically, occurred in all cases.

Two cases were operated upon and had a total hysterectomy and bilateral salpingo-oophorectomy. One of these two had interstitial tuberculosis and adenomyosis and another had carcinoma in situ of the cervix.

Summary

1. Thirty-eight cases of cervical tuberculosis were detected on routine biopsy at Government Maternity Hosz pital over a period of six years and a half.

2. There were 283 cases of genital tuberculosis during that period, giving an incidence of 13.4 per cent. Twenty-three cases were investigated.

3. Infection is usually by downward spread from the endometrium.

4. Proliferative and ulcerative

5. The lesion usually responds to Treatment. Most of the patients chemotherapy. Surgery was performwere anaemic and undernourished. ed in 2 cases. One had carcinoma in Attention was paid to the nutrition of situ and another had menorrhagia

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References

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- 1. Barns, T. and Snaith: J. Obst. & Gynec. Brit. Emp., 60: 131, 1953.
- Finlaison, F. H.: J. Obst. & Gynec. Brit. Emp., 43: 473, 1936.
- Haines, M.: J. Obst. & Gynec. Brit. Emp., 49: 721, 1952.

- Penworth, P.: Am. J. Obst. & Gynec., 73: 523, 1947.
- Recent Advances in Obst. & Gynec.: A. Bourne & Williams, 1962, p. 285.
- Schalfer, G.: Pro. of Roy. Soc. Medicine, 52: 947, 1959.
- Stevenson, C.: Am. J. Obst. & Gynec., 30: 1017, 1938.