Case report

Primary Tubercular ulcer in Glans Penis mimicking neoplastic lesion
Sarkar P¹, Sarkar MD², Sarkar SG³, Ghosh TK⁴

Abstract
Tuberculosis is a very common disease especially in developing countries but primary tuberculosis of penis is extremely rare. Here we are presenting a case of Primary tuberculosis of glans penis of 82 years male.

Key Words: Primary Tuberculosis, Glans penis

Introduction
More than 30% of the global population is affected by Tuberculosis (TB) and Eighty percent of all incident TB cases were found in 22 countries, with more than half the cases occurring in 5 Southeast Asian countries. The global case fatality rate was above 20% but exceeded 50% in some African countries with high HIV rates¹. Extra-pulmonary tuberculosis is notorious for causing diagnostic difficulties, especially when present in the absence of proven pulmonary tubercular lesion. Tuberculosis may mimic neoplastic processes in various sites and still a major cause of morbidity in developing countries like INDIA, but tuberculosis of the glans penis is very rare. Till 1999, only 161 cases of penile tuberculosis were reported²,³. The genitourinary (GU) tract is the most common site for extra pulmonary TB, with the most frequently affected sites within the GU tract being the epididymis (42%), seminal vesicles (23%), prostate (21%), testes (15%) and vas deferens (12%) in males, and the fallopian tubes in females⁴,⁵.

In 1848, Fournier described the first case of penile tuberculosis⁶. In 1870 Soiowitschnik reported a next case of penile tuberculosis⁷. In 1870 Soiowitschnik reported a next case of penile tuberculosis⁷.

Case Report
A 82 years Hindu, married male from Chinsurah, Hoogly, West Bengal, India presented with 1.5x1.5 cm ulcer in the glans penis covered with white slough with a punched out margin (fig-1). The skin was retractable. The shaft of the penis was indurated on dorsal aspect. At initial stage ulcer develop discrete & separate, then they coalesce to form bigger ulcer. Urethral opening was not distorted. Patient had local pain and discharge for about two and half months. The inguinal lymph nodes were not palpable. The general condition of the patient was unremarkable. He had no history of fever, weight loss or cough or urinary symptoms. No history of retention of urine or haematuria or local trauma and he performed his day to day activities. No improvement was noted on two months antibiotic therapy. The patient live in an area where tuberculosis is sporadically high and his family washer man had open type of tuberculosis

Investigations
Routine investigation of blood shows R.B.C- Normocytic & Normochromic, Platelet- Adequate, TLC- Within normal limit, Haemoglobin -11.0 gm/dl, ESR- 40 mm/1st hour. V.D.R.L- Nonreactive, HIV- Negative, Blood sugar (fasting)- 79mg/dl, Blood sugar(PP)-109mg/dl, Blood urea- 29mg/dl, Serum Creatinine- 0.9mg/dl.
X-ray chest – NAD. KOH preparation from ulcer show no fungal spore or hyphae. On Gram staining

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no specific bacteria identified (though the patient received antibiotics before gram staining). sputum A.F.B-Not Found.

Biopsy was taken from the ulcerated lesion. Base of ulcer covered with fibrin. Underneath fibro collagenous tissue infiltrated by lymphocytes and histocytes, presence of epithelioid granuloma. Z.N staining shows presence of Acid fast bacilli (fig-II). The patient was responded on three weeks of anti-tubercular drugs and the lesion was healed by six months.

**Discussion**

The primary tubercular lesion in glans penis is rare. The primary cases can occur as a complication of ritual circumcision, during coital contact with the disease already present in the female genital tract, or even from infected clothing. Several authors reported primary tuberculosis of penis either multiple lesion or after circumcision (table-1). The age of the patient maximum 63 years as reported till date. Though the first case of penile tuberculosis was reported in 1848 but till 1946 only 110 cases were reported and Lal et al observed report of 29 cases from 1946 to 1971. From 1971-1992 only 16 cases were reported in literature. Konohana et al first report of a culture-positive penile tuberculosis lesion in 1992 in a 63-year-old Japanese man. Till date no case was reported in 82 years male. Single case report by different authors were observed in different literatures shown in table no1.

Recently, the prevalence of TB in developing

<table>
<thead>
<tr>
<th>Authors</th>
<th>Age of patient</th>
<th>Presenting features</th>
<th>Number of cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jugal Kishore Kar, Manoranjan Kar. (2012)</td>
<td>31 yrs</td>
<td>multiple non-healing ulcers over the glans penis</td>
<td>1</td>
</tr>
<tr>
<td>Hasan MZ, Khondker HH etal (2011)</td>
<td>42 yrs</td>
<td>presented with recurrent papule formation with little itching on glans penis</td>
<td>1</td>
</tr>
<tr>
<td>KishanChand, Chethan et al (2010)</td>
<td>50 yrs</td>
<td>presented to us with lesion on the glans penis and was diagnosed as Carcinoma penis</td>
<td>1</td>
</tr>
<tr>
<td>Sah SP, AshokRaj G, Joshi A. (1999)</td>
<td>60 yrs</td>
<td>multiple superficial ulcers on the glans penis</td>
<td>1</td>
</tr>
<tr>
<td>Amir-zargar ma, Yavangimey al (2004)</td>
<td>48 yrs</td>
<td>An ulcerative burgeon (granulated)</td>
<td>1</td>
</tr>
<tr>
<td>Present case</td>
<td>82 yrs</td>
<td>ulcer in the glans penis covered with white slough with a punched out margin</td>
<td>1</td>
</tr>
</tbody>
</table>
countries has had a declining trend. Any ulcer in the penis must be excluded for tuberculosis whether provocative factors present or not. Tuberculosis of penis may affect the skin, glans or cavernous bodies. In most cases, the lesion appears as a superficial ulcer on the glans or around the corona. TB chancre is usually associated with suppurative lymph node, which is not found in this case. This case may be a papulonecrotictuberculoid type of lesion. The importance of biopsy in the diagnosis of chronic genital ulcer is important to exclude neoplastic lesion and start of early management as well as to prevent spread of disease in the society.

**Conclusion**

Though incidence is rare the primary tuberculosis of glans penis must be excluded if one presented with unhealthy non healing ulcer in penis at any age as the lesion can be completely cured by conservative treatment. It may lead to detection of tubercular lesion in the genital tract of female counterpart thus reducing the social problem.

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