A Rare Isolated Case Of Adenocarcinoma Of Rete Testis With Cutaneous Secondaries ?a Case Report

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Abstract

Adenocarcinoma of the rete testis is a rare tumour with a varied presentation. A total of 44 cases have been reported [1]. Of these testicular tumours, primary non-germ cell tumours account for a minority of cases. Among this, adenocarcinoma originating in the rete testis is still rarer. It is a highly malignant tumour with poor prognosis. It is generally diagnosed clinically as a solid or cystic swelling. However, confirmation is made only on histological diagnosis.

Introduction

It is a highly malignant tumour with poor prognosis. It is generally diagnosed clinically as a solid or cystic swelling. However, confirmation is made only on histological diagnosis. The diagnostic criteria of Nochomovitz for adenocarcinoma rete testis include:-(1) Tumour origin around the hilum (2) No involvement of the tunica (3) Demonstration of transition from normal to tumour epithelium (4) No evidence of teratoma or any other primary tumour elsewhere in the body [2, 3].

Case Report(s)

A 75 year old man presented with painless swelling in the left side of the scrotum of 20 days duration. There was history of blunt trauma during fall. It was hard, proximal to left testis of 5X5 cm in sized, non fluctuant non transilluminant. Overlying skin was free. A diagnosis of chronic haematocele was made. US abdomen was normal. Blood parameters were normal. Patient was taken up for surgery and left sided scrotum was explored. Blood mixed fluid with necrotic material was found. Left sided orchidectomy was done. Drain was placed and wound was closed. Histology revealed features of adenocarcinoma of rete testis. Patient was advised further treatment which he refused. After one month patient presented multiple cutaneous swellings which were hard, nontender over forearm and abdominal wall. Biopsy of forearm cutaneous secondaries was done – histology confirmed cutaneous adenocarcinoma secondaries.

Discussion

Carcinoma of the rete testis is a rare tumour, occurring most commonly in the fourth and fifth decades of life. However, patients may range from 20 to 80 years of age. A total of 44 cases have been reported, three of the youngest cases (ages 20 yrs, 21 yrs, and 34 yrs) had a prior history of undescended testis[4-6]. The carcinoma can affect either side, and occasionally may be bilateral. All races are equally affected. Carcinoma of the rete testis has usual association with hydrocele, epididymitis, inguinal hernia and occasionally, with undescended tests. The tumour is confirmed only on histological diagnosis, which is governed by the Nochomovitz criteria. This includes: (1) Location of the tumour around the hilum; (2) No involvement of the tunica; (3) Histological evidence of tumour origin from the rete testis and demonstration of transition from normal to tumour epithelium; and (4) No evidence of teratoma or any other primary tumour elsewhere in the body [2, 3].

On gross examination, the tumour may show a solid, nodular or cystic surface. Microscopically, there are three patterns. The papillary pattern, which is commonest, represents glomeruli with numerous microvilli projecting into cystic spaces. The rete epithelium shows deep narrow nuclear invaginations, apparent nuclear lobulations, and small pleomorphic electron-dense membrane-bound granules in the basal cytoplasm, and lipid droplets in the apical cytoplasm and bulbous cytoplasmic projections along the apical surface cells. The glandular pattern consists of moderately- to poorly-differentiated glands. Solid pattern shows irregular arrangement of cells along with greater cellular and nuclear pleomorphism.

The differential diagnoses include malignant mesothelioma of the tunica, serous Mullerian tumours of the testis, and Sertoli cell tumours [7]. Adenocarcinoma of the rete testis is an aggressive malignant neoplasm.

The treatment is primarily surgery (high inguinal...
Radical orchidectomy, retroperitoneal lymph node dissection, radiotherapy and chemotherapy have been tried alone or in combination, with no fruitful results. The stage at diagnosis or any form of therapy has no influence on final outcome, and prognosis remains poor. Patients seldom survive longer than one year, although survival rates up to five years without metastasis have been reported. Careful follow-up is advisable.

References

Illustrations

Illustration 1

Fig1: Clinical photo showing left side scrotal swelling.
Fig 3: Histopathology showing features of adenocarcinoma.

Fig 4: Cutaneous secondaries presenting as nodules.
Fig5:- Histopathology of skin secondary.
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Reviews

Review 1

Review Title: A Rare Isolated Case Of Adenocarcinoma Of Rete Testis With Cutaneous Secondaries ?a Case Report
Posted by Dr. Dinesh Chandra on 23 Feb 2011 12:30:20 PM GMT

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Rating: 7

Comment:
Indeed an interesting case and an eye opener for such retrospective diagnosis. Good work

Invited by the author to make a review on this article? : Yes

Experience and credentials in the specific area of science:
Three years of residancy in Hamdia Hospital Bhopal

Publications in the same or a related area of science: No

Review 2

Review Title: Review for A Rare Isolated Case Of Adenocarcinoma Of Rete Testis With Cutaneous Secondaries ?a Case Report

Posted by Dr. Narendra Hulikal on 25 Jan 2011 04:19:52 AM GMT

| Rating: 1 |
| Comment: There are multiple deficiencies in the article. First of all, as the authors themselves suggest according to Nochomovitz criteria whether any attempt was made to rule out primary elsewhere in the body. If so what were the areas looked for. Why ultrasound abdomen done for suspected hematocoele and why not ultrasound of scrotum? As the illustration reveals testis appears distinctly free with clinical suspicion of involvement of epididymis and rete testis. First of all clinical suspicion of hematocoele should be taken with pinch of salt. |

Competing interests: nil

Invited by the author to make a review on this article? : No

Experience and credentials in the specific area of science: Surgical oncologist in an academic institution

Publications in the same or a related area of science: No

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