PERINEAL ECTOPIC TESTIS - A RARE ANOMALY WITH EMPTY SCROTUM

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ABSTRACT

Undescended testis is a very common presentation in male paediatric population but testis at ectopic sites is a very rare pathology. One of the ectopic sites is perineum and it accounts for only 1% of all cases of undescended testis. We report a case of an 11 yr old boy who presented with an empty left hemiscrotum and detailed examination revealed a soft tissue mass on the corresponding side in the perineum. Surgical exploration was carried out during which it was revealed that mass was actually testis at ectopic site with adequate length of the spermatic cord. Testis was mobilized and fixed in the ipsilateral hemiscrotum.

Keywords: Ectopic testis, Perineum, Spermatic cord.

INTRODUCTION

Testicular maldescent is the most common anomaly of the genitalia seen in 0.2–1% of all men. Most of these testes get arrested along its normal pathway, resulting in abdominal, inguinal or high scrotal testis. About 5% of undescended testis are ectopic. The most common ectopic sites in descending order are superficial inguinal pouch, perineum, root of penis, femoral triangle/upper thigh and contralateral scrotum. Perineal ectopic testis is a rare encounter in paediatric surgery accounting for about 1% of all cases of undescended testis.

The first case was reported by Sir John Hunter in 1786. Approximately, 175 cases of perineal ectopic testes have been reported in the literature and 80% of these cases are unilateral. Perineal ectopic testis is a condition in which the testis has descended, but occupied an abnormal position between the penoscrotal raphe and the genitofemoral fold. Perineal ectopic testes are prone to trauma, torsion, infertility in bilateral cases and malignancy.

CASE REPORT

An 11 year old boy presented to out patient department with complaint of empty left hemiscrotum. Examination revealed a healthy adolescent with underdeveloped and empty left hemiscrotum with no evidence of inguinal hernia. The right testis was normally located. No mass was palpable in inguinal canal however a firm, mobile and non tender left perineal mass was palpable that measured around 3 X 2 X 2 cm (fig-1). A clinical diagnosis of left perineal ectopic testis was made that was confirmed on ultrasound. Parents were counselled and surgical exploration and orchidopexy was planned. Exploration through inguinal incision revealed gubernaculum attached with perineal tissues with adequate length of the cord. Testis was mobilized (fig-2) and orchidopexy was done by fixing the testis in the ipsilateral scrotum using the standard dartos pouch technique (fig-3).
DISCUSSION

Testicular development and descent from abdomen to scrotum is a complex and multistage process which starts from 7th to 35th week of gestation. Gubernaculum, which is thickened peritoneal tissue, actually guides the testis through a programmed pathway through its abdominal and inguinal route. This process can get arrested anywhere at its normal course causing cryptorchidism, the commonest genital malformation in boys with one-third of premature boys and 2–5% of full-term boys being affected. The risk factors contributing to this arrest can be prematurity and low birth weight also. Any abnormality in this programmed descent can lead the testis to a location that does not lie in its normal course i.e. perineum, root of penis, upper righ or even abdominal wall. In this regard, abnormal position of genitofemoral nerve is also believed to play a role in abnormal migration of the gubernaculum and pushes the testis to abnormal position. Perineal ectopic testis is a rare congenital condition with a prevalence of 1% of all cases of undescended testes. Prompt recognition of this anomaly is very important because due to rarity of this condition one can miss the common associated problems with this condition like hypospadias, scrotal anomalies, contralateral undesended testis and inguinal hernia.

So, the presentation of this condition can be diverse and clinician should have high index of suspicion in patients with empty scrotum with associated inguinal hernia or hypospadias. Although, in one study, there was no histologic difference between undescended and ectopic testis but long term followup suggests increased incidence of subfertility and malignancy in ectopic testis. Moreover, due to advancements in diagnostic modalities, now it is possible to diagnose the ectopic perineal testis antenatally. Treatment of ectopic testis is always surgical with special emphasis on detailed parental counselling and long term followup.

CONCLUSION

Detailed clinical examination of any boy with empty scrotum at the time of birth and at the time of presentation in clinic should include the ectopic sites also especially if associated with inguinal hernia or hypospadias.

CONFLICT OF INTEREST

This study has no conflict of interest to be declared by any author.

REFERENCES