Pubo-Penile Ectopic Testis: A Rare Entity

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Abstract

An ectopic testis is one which has deviated from its usual path of descent. Pubo-Penile ectopic testis is a rare congenital anomaly in which the testis is abnormally situated along the penile shaft or around its root. In this case, the condition was present since birth but presented to hospital during adolescence & was successfully treated.

Keywords: Pubo-Penile ectopic testis; Gubernaculum

Introduction

Ectopic testis is one which has deviated from its usual path of descent and is not found in regions of usual descent into the scrotum. Testicular maldescent or cryptorchidism is the most common anomaly of the genitalia with an incidence of approximately 1% in male newborns. It is commoner on the right side, and in premature neonates [1,2]. It is reported that 5% of maldescended testes are ectopic [3] Ectopic testis (Testicular ectopia) specifically describes inguinoscrotal descent outside the normal boundaries. The major sites of ectopic testes are the superficial inguinal pouch, femoral, suprapubic, penile, transverse (contralateral hemiscrotum), and perineal. Penile ectopic testis is a rare congenital anomaly in which the testis is abnormally situated along the penile shaft or around its root. These conditions present at birth or within two years of childhood, definitive treatment of this condition is thus usually done in childhood. In this case, the condition was present at birth but presented to hospital during adolescence.

Case Report

Thirteen year old male child presented with a history of swelling at the base of penis and absence of left testis in the scrotum. The condition had been present since birth. Social reasons hampered earlier referral for appropriate medical care. There had been progressive penile development, in association with a swelling, and normal secondary sexual characteristics. His general and systemic examination was normal. On local examination right testis was normally placed in the scrotum and it was normal in size and shape. Left side of the scrotum was empty with hypoplastic scrotal sac and normally developed external genitalia. There was a single, well defined, mobile, oval shaped swelling of size 3 X 2 X 2 cm, palpable at the base of the penis (Figure 1).

Figure 1: Pubopenile ectopic testis.
Skin over the swelling was free and overlying skin color was normal. Testicular sensations were preserved on right side while on compression of the palpable mass there was sickening sensation that was felt in peri-umbilical area, a sign in favor of ectopic testis. His ultrasound abdomen was normal & it confirmed the ectopic location of the testis. Left inguinal region was explored under spinal anesthesia. There was a well developed testis which was present over the pubic tubercle and was attached to the spermatic cord. Orchidopexy was done & testis was anchored in the left extra dartos pouch (Figure 2). Child made uneventful recovery, and was doing well on subsequent follow up (Figure 2).

Discussion

An ectopic testis is one which has deviated from its usual path of descent. In both ectopic and undescended testis the scrotum of the same side will be empty. If the swelling within the inguinal canal it is probably an undescended testis. A testis is recognized by its shape, size, feel and testicular sensation. The undescended testis is smaller and less developed than its fellow in the scrotum [3-5] but an ectopic testis is always well developed. Though the commonest position of ectopic testis is at the superficial inguinal pouch, yet ectopic testis may be found at the root of penis (Pubic type), at the perineum (Perineal type), at the upper and at the medial part of the femoral triangle (Femoral type). Site of the ectopic testis is probably decided by the strength of the tail of gubernaculum. Normally scrotal tail is the strongest hence testis descends down into the scrotum [6,7]. In the case under review, Ultrasound scan confirmed the swelling to be a testis in the ectopic location. There was no relevance of computerized tomography, which is however useful for cryptorchidism with an intra-abdominal location of the testis [8]. The gubernaculum tail theory provides a simple and valid explanation for the etiology of penile ectopic testis [9,10]. The presence of a gubernaculum attached to the penile fascia of Buck indicates an anomalous growth and termination of its extra-abdominal portion.

To detect these anomalies in early childhood is important; however the condition is correctible even at the later stages. Possible intervention by Health policy custodians, like the Ministry of Health, can be geared at notification of urogenital-inguinal anomalies at birth and at times of child health visits to health facilities. This can go hand in hand with ano-rectal malformation notification. Anorectal anomalies are reported early more frequently because of their intestinal obstructive effect. Testicular maldescent, occurring in every 1 in 100 births, deserves a place in the child health card. It was concluded that a penile ectopic testis, normal in size, may present during adolescence. The condition is correctible though there is need for screening and early detection in children through National Health Policy interventions.

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