

Case Report :

Scrotoschisis – A Rare Congenital Anomaly In Newborn

Srirambonu*, Radha Satapathy.

*Post graduate resident,**Academic Director, Department of Pediatric, Hi-tech Medical College & Hospital, Bhubaneswar, Odisha. Corresponding author : Dr. Srirambonu, Post graduate resident Department of Pediatric, Hi-tech Medical College & Hospital, Utkal University Bhubaneswar, Odisha. Email- Received-22nd April , 2017, Reviewed-30th May, 2017, Accepted-23rd July, 2017

Abstract

Testicular exstrophy is a very rare congenital anomaly. The exact etiology of this condition is not known. Replacing the testis and repair of scrotum is needed and is associated with good prognosis. We report a case of scrotoschisis along with review of the literature.

Introduction:

Testicular extrusion through the scrotal wall is called Scrotoschisis. This is a rare entity with only few cases have been reported [1],[2],[3],[4].

Malposition of the testis outside of the line of its descent is supposed to be ectopic testis. Testicular ectopia is a well accepted pathology of abnormal testicular descent [5]. Common ectopic site is superficial inguinal pouch, while ectopic testis has also been found at perineum, femoral canal and contralateral inguinoscrotal region. When testis is extracorporeal and eviscerated through the scrotal wall it is named as scrotoschisis [6]. This is a rare congenital anomaly with only 10 cases, reported so far.

Case Report:

A newborn baby was noticed to have transverse breech at the base of the left scrotal wall with protrusion of the testis. The baby was active with no other abnormalities. The baby full term was born by the normal vaginal route. There was no history of any birth injury or injury to the scrotum after birth. Antenatal ultrasound showed no

abnormality. On examination, the left testis was seen to be protruding from the scrotum, normal in size and appeared viable. The right testis was normal in size, viable and protruding out from the Scrotum. No other genitourinary abnormalities were seen.



Figure 1: One day old newborn with testicular extrusion

Discussion:

Scrotoschisis, is a rare congenital anomaly in neonates. Most cases are unilateral and affect normal males. Etiology is not known. But many theories have been proposed for the development of this condition, but none is proved. The occurrence of meconial periorchitis is the best theory available. Shukla et al. called it as extracorporeal ectopic occurring due to scrotal defect during descent of the testis [3]. Amnion rupture or adhesion/band spectrum is often cited as a probable factor in scrotoschisis. Abberent amnion bands, strands or

sheets can cause disruption of morphogenesis in the abdominal wall [7]. The different techniques for scrotal fixation as in orchiopexy can be utilized. As the number is very small, no procedure is proved to be better over others. Jesus et al. reported Dennisbrowne trans-scrotal orchiopexy (eversion of tunica vaginalis with fixation in subdartos pouch) is associated with good results [2].

Conclusion:

Scrotoschisis seems to affect otherwise healthy newborn males with no associated illness requiring repositioning of eviscerated testis with scrotal repair. The immediate prognosis is good, but long term results need to be studied.

References:

1. Hadley GP, Wiersma R, Scrotoschisis. *Pediatricsurg int.* 1994;9:148-9.
2. Jesus LE, Dekermacher S, Filho JA Rocha LJ. Scrotoschisis: An extremely rare congenital uropathy. *Uropathy* 2012;79:219-21.
3. Premkumar MH, Colen JS, Roth DR, Fernandes CJ. Could scrotoschisis mimic an iatrogenic injury? A case report. *Urology* 2009;73:795-6.
4. Gongaware RD, Sussman AM, Kraebber D M, Michigan S. Scrotoschisis as a mechanism for extracorporeal testicular ectopia. *J Pdiatsurg* 1991;26:1430-1.
5. Togami J, Radhskrishna J. Testicular extrusion due to scrotoschisis. *Urology* 2002;60:1112-3.
6. Premkumar MH, Colen SJ, Roth DR, Fernandez CJ. Could scrotoschisis mimic an iatrogenic injury? A case report. *Urology* 2002;73:795-6.
7. Jesus LE, Dekermacher S, Fiho JA, Rocha LJ. Scrotoschisis: An extremely rare congenital uropathy. *Urology* 2012;79:219-21.



Pediatrics Association of India

PAICON Annual National Conference

16-17th December 2017

At,

Raipur, Chhattisgarh

Contact . Dr. Anoop Verma - 9826142411