

New classification of Penoscrotal Positional Anomalies

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Abstract

Background: Partial or complete positional exchange between the penis and scrotum is a rare anomaly which may be manifested in different phenotypes. Revision of a wide variant of such anomalies enabled elaboration, classification and shading some light on this rare abnormality.

Objective: To provide a simple classification and scoring of the penoscrotal positional anomalies, which may be helpful for accurate description, recognition and sorting cases that may deserve surgical correction.

Materials: During the last 14 years, the record data of 14450 babies aged from 1 week to 4 years were assessed and 92 cases of abnormal penoscrotal positional anomalies of different diversity identified, their hormonal profile, associated anomalies, and other details reviewed.

Results: 92 cases of penoscrotal positional anomalies presented as complete cephalic scrotal eversion in 9 and incomplete in 14. Minor cases are 41 with cephalic scrotal transposition which is bilateral in 21, 13 had midline scrotalization, and another 15 cases had a caudal scrotal regression, other genitourinary anomalies identified in 78% of cases, mainly with major and bilateral minimal cases. Sex hormonal assay showed insignificant difference in comparison with a control group, and there were gross chromosomal anomalies in 7 cases.

Conclusion: Penoscrotal transposition classified herein to cranial or cephalic scrotal migration, cranial type subdivided into major and minor where the last subdivided to bilateral, unilateral or central. A new category of caudal scrotal regression documented and described.

Biography

Mohamed Abdel Baky Fahmy is an Egyptian national working currently as Professor and Head of pediatric surgery Dept, Faculty of medicine for Girls, Al Azher University. He is the member of several organizations such as British Association of Pediatric Surgeon and World Association of Medical Editors WAME.



4th World Congress on Rare Diseases and Orphan Drugs, October 23, 2020

Citation: M A Baky Fahmy: New classification of Penoscrotal Positional Anomalies, Rare Diseases Meetings 2020, 4th World Congress on Rare Diseases and Orphan Drugs, October 23, 2020, Page No-08