

ISSN 0972-3757

International Journal of

HUMAN GENETICS

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PRINT: ISSN 0972-3757 ONLINE: 2456-6360

Int J Hum Genet, 12(2): 99-103 (2012)

DOI: 10.31901/24566330.2012/12.02.04

***SRY* (Sex Determining Regions in Y) Basis of Sex Reversal in XY Females**

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KEYWORDS XY Females. Gonadal Dysgenesis. Cytogenetics. 46,XY. 45,X/46,XY. *SRY* Gene Analysis

ABSTRACT 46,XY sex reversal condition is known to be caused by the point mutations or deletions in *SRY* gene at Yp11.3. Individuals with 46,XY status are phenotypically females with gonadal dysgenesis and poorly developed secondary sexual characters. In the present study, it is aimed to report the *SRY* basis of sex reversal in 25 XY female probands aged 4 to 39 years. The karyotypes in 21 were 46,XY and 45,X/46,XY in 4. The presence of the *SRY* gene was determined in 20 probands (80%), out of which 18 had 46,XY and 2 had 45,X/46,XY karyotypes. *SRY* gene was not detected in 5 probands (20%), among them 3 had 46,XY and 2 had 45,X/46,XY karyotypes and in these 5 case, *SRY* gene was considered to be deleted. The present study confirmed the importance of the genetic evaluation of the *SRY* gene in females with XY status for further management.