

ISSN 0972-3757

*International Journal of*

**HUMAN GENETICS**

*Special Volume*

© Kamla-Raj 2010

Int J Hum Genet, 10(1-3): 179-181 (2010)

PRINT: ISSN 0972-3757 ONLINE: 2456-6360

DOI: 10.31901/24566330.2010/10.01-3.25

**A 21/22 Translocation in a Female with Repeated Abortions:  
A Case Report**

A. Venkateshwari<sup>1</sup>, Ashrafunnisa Begum<sup>1</sup>, A. Srilekha<sup>1</sup> M. Sujatha<sup>1</sup>  
Pratibha Nallari<sup>2</sup> and A. Jyothy<sup>1</sup>

<sup>1</sup>*Institute of Genetics and Hospital for Genetic Diseases, Osmania University, Begumpet,  
Hyderabad 500 016, Andhra Pradesh, India*

<sup>2</sup>*Department of Genetics, Osmania University, Hyderabad 500 007, Andhra Pradesh, India*

**KEYWORDS** Repeated Abortions. Acrocentric Chromosomes. Robertsonian Translocation.  
Karyotype

**ABSTRACT** Robertsonian translocations (RT's) are present in 0.1% of the general population and 1% of the infertile population. Two types of RT's occur more frequently than all others, being 45,XX,rob(13;14)(q10;q10) and 45,XX,rob(14;21)(q10;q10) respectively. In the present report, an uncommon RT in a female with spontaneous repeated abortions is reported. Cytogenetic analysis of a couple with repeated abortions revealed the presence of 45,XX,rob(21;22)(q10;q10) chromosomal constitution in the female partner. The history of repeated abortions could be the outcome of unbalanced gametes (either monosomy or trisomy) resulting during the meiotic segregation of the balanced heterozygote female carrier.