

Conference Abstract

DAY 1 15th September 2023 (Friday)

ORAL 1

2.00-3.30 pm

Scientific Session 6

Constitutional Reciprocal Balanced Translocation t(11;22)(q25;q13) in a couple with recurrent foetal loss: A case report

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Introduction/ Background: Recurrent pregnancy loss is classically defined as the occurrence of three or more consecutive abortions; however, the American Society of Reproductive Medicine has redefined recurrent pregnancy loss as two or more abortions. Pregnancy loss is a clinically recognized pregnancy, involuntarily ending before 20 weeks of gestation. About 10 and 15% of the clinically recognizable pregnancies result in spontaneous miscarriages, with an additional preclinical loss of 22%. Constitutional balanced translocations are seen in about 1 in 600 live births.

Case description: A 28 yrs old female with non consanguineous marriage came with a history of 3 spontaneous first trimester abortions. Her married life was 3 years and her family history revealed that her elder sister had secondary infertility and her mother also had history of 3 spontaneous abortions in the first trimester. Clinical examination, lab investigations and her follicular study of the couple were within normal limits. Hence the chromosomal study was advised.

Results: The karyotyping of the women showed 46XX,t(11;22)(q25;q13) and her husband's karyotyping was normal 46XY. Her mother's and her sister's karyotyping also revealed the similar translocation.

Conclusion: It is important to be aware of this translocation, its inheritance pattern and the diverse effects, so that parents and/or siblings and members of the extended family can be studied. This would help to predict the likelihood of other carriers in the family having children with chromosomal imbalance as a result of this translocation.

Key words: Recurrent foetal loss, Karyotyping, Reciprocal translocation