Cytogenetic analysis of 13 Iranian women with premature ovarian failure.

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ABSTRACT

Background & Aims: This retrospective cohort study was to determine the frequency and types of chromosomal abnormalities in Iranian women with well-documented premature ovarian failure (POF).

Materials & Methods: Karyotype analysis and correlation to phenotypes were performed on 13 Iranian patients with proven POF (FSH > 40 mIU/ml) attending reproductive clinics in Sarem Hospital. G-banded metaphase chromosomes were prepared and analyzed, in the case of mosaicism, 100 cells were examined.

Results: Chromosomal abnormalities were present in 2 of 13 (15.38%) POF cases. These were numerical and structural abnormalities of X chromosome, described as 45,X[8]/46,XX[42], and 46,XX,t(X,9)(q22.1;q22.1).

Conclusion: The overall prevalence of chromosomal abnormalities was 15.38% in this report in women with POF. Our findings emphasize the need to investigate chromosomal abnormalities.

keywords: cytogenetics, POF, premature ovarian failure, prevalence, chromosomal abnormality.