

## 9<sup>th</sup> Yazd International Congress and Student Award on Reproductive Medicine with 4<sup>th</sup> Congress of Reproductive Genetics

### Oral Presentations

#### O-48

#### Y chromosome microdeletion in azoospermia factor region in globozoospermic man

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**Background:** Thin long tail deletion of Y chromosome is the most common molecular genetic cause of infertility. It is considered to be severe in men which occurs in the three region of the azoospermic

factor; AZFa, AZFb and AZFc. These region contain multiple genes involved in spermatogenesis.

**Objective:** The aim of this study was to investigate the Y chromosome deletion pattern among infertile men with globozoospermic referring to Yazd Infertility Treatment Center.

**Materials and Methods:** 19 infertile men referred to Yazd Reproductive Science Institute with globozoospermia (from 2014 to 2016) were studied considering microdeletions in Y chromosome. Using multiplex PCR and six different STS (Sequence-Tagged Site) markers microdeletions of Y chromosome in AZFa, AZFb and AZFc regions was analysed.

**Results:** In our samples, the deletion of AZF regions of the Y chromosomes was not observed in any blood sample of globozoospermic man.

**Conclusion:** In 19 samples, no defect was observed in the AZF regions of the Y chromosomes was not the cause of globozoospermia.

**Key words:** Male infertility, Globozoospermia, Y chromosome deletion, Azoospermic factor, multiplex PCR.