

# 6. ULUSLARARASI MULTİDİSİPLİNER ÇALIŞMALARI KONGRESİ

(26-27 Nisan 2019, Gaziantep, Türkiye)

## ÖZET KİTABI

(Sağlık/Tıp Bilimleri, Spor Bilimleri, Veteriner Hekimliği)



# 6TH INTERNATIONAL MULTIDISCIPLINARY STUDIES CONGRESS

(26-27 April 2019, Gaziantep, Turkey)

## ABSTRACT BOOK

(Health / Medical Sciences, Sports Sciences, Veterinary Medicine)



multicongress

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## Oral Presentation

### A Retrospective Analysis of Cytogenetic Studies in 152 Pregnancy Loss Materials

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#### **Abstract**

**Introduction:** Pregnancy loss is the most common complication, which occurs in nearly 15–20% of clinically recognized pregnancies. Although it is known multiple factors lead for early miscarriages, genetic factors including numerical and structural chromosomal aberrations are the main causes of pregnancy loss. **Material Method:** Between 18-43 years old, 152 female patients were admitted to the Polyclinic of Gynecology and Obstetrics at Faculty of Medicine in Mersin University for miscarriage. This study for a twelve years period (2007-2018) of evaluating case notes of all patients who sent to our department. Samples from the fetuses which generally first trimester of pregnancy (71%) were processed using the flask cell culture method and GTG banding technique. At least 20 metaphase plates from each fetal tissue samples were cytogenetically examined. Karyotype analyzes and reporting were performed according to ISCN criteria. **Results:** A total of %74 samples were analyzed (113) and 28.31% (32) were abnormal. 20 cases with anomalies were observed as non-mosaic and 12 samples as a mosaic. In which 46.87% (15/32) were numerical, 34.37% (11/32) were sex chromosome and 18.75% (6/32) were structural anomalies. In 10.61% (12/113) showed mosaic karyotypes. While 50% (6/12) mosaic samples showed sexual mosaicism, 25% (3/12) showed autosomal mosaicism and 25% (3/12) showed structural mosaicism. **Conclusion:** Chromosomal aberrations are one of the important reason for the miscarriages, especially aneuploidy is the primary cause of the first trimester miscarriages. In accordance with our study, the most common karyotypic anomaly in early miscarriages is autosomal trisomy. Also, polyploidy, sex chromosome, and structural anomalies can also be cause pregnancy loss.

**Keywords:** Pregnancy Loss Material, Flask Cell Culture, Cytogenetic, Chromosome Analysis, Chromosomal Anomalies