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Prevalence of Chromosome Abnormalities Following Invasive Prenatal Testing at a National Referral Hospital in Indonesia

MP Mahindra^{1,2,3}, ASD Hertika², MP Mapindra^{1,2,3}, AN Al Fattah², RA Kusuma^{2,3}, L Pratanu³,

¹University College London EGA Institute for Women's Health, London, United Kingdom

²Indonesian Prenatal Institute, Jakarta, Indonesia

¹Harapan Kita National Women and Children Hospital, Jakarta, Indonesia

Introduction

- Fetal chromosome abnormalities > major congenital anomalies and perinatal death.
- The most common chromosome abnormalities reported = trisomies 21, 18, 13, and sex chromosome abnormalities.

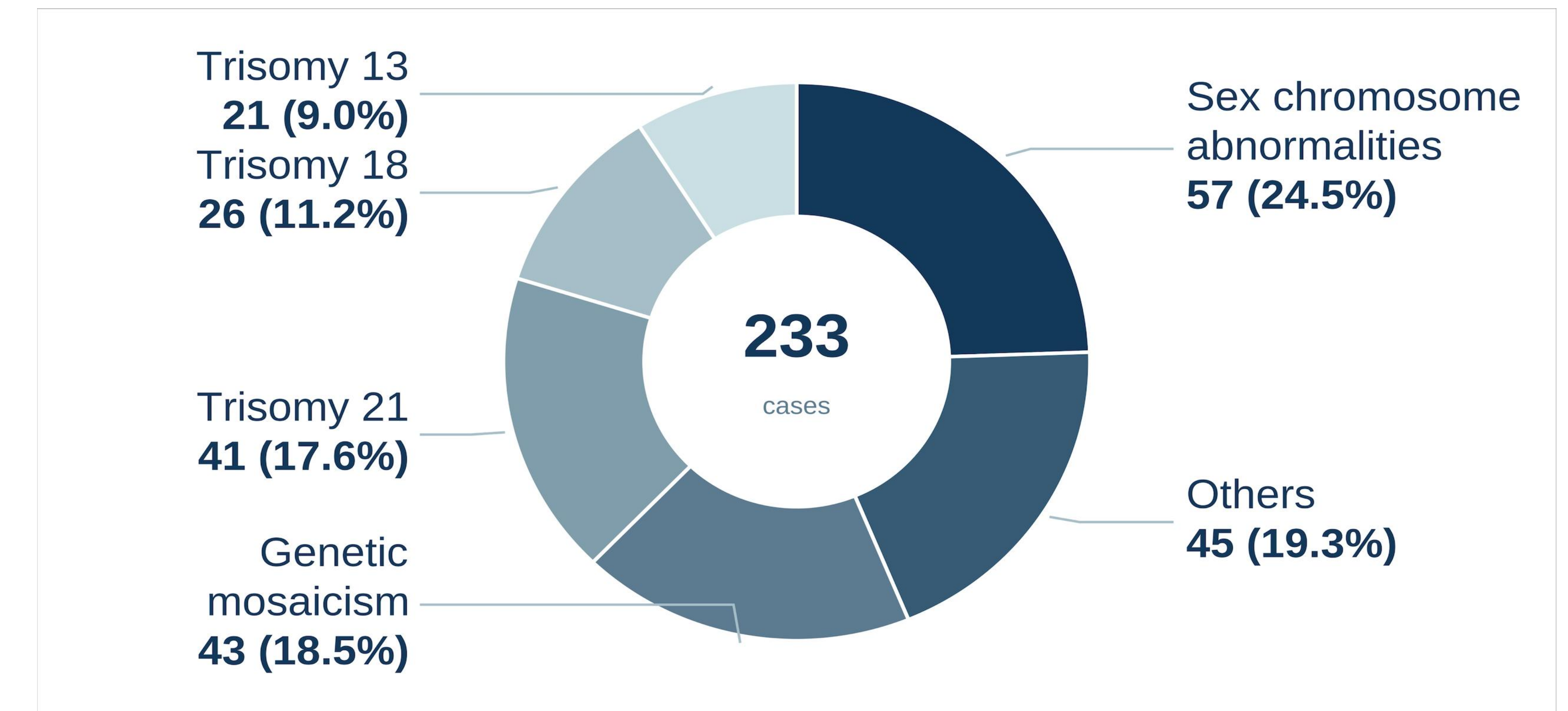
Study objective

To report the prevalence of chromosome abnormalities following prenatal invasive testing in the Indonesian population from the database of a national referral hospital

Methods

- The medical registry of cytogenetic testing following amniocentesis and cordocentesis samples medically indicated by abnormal 20- to 24-week anomaly scans between January 2010 and May 2024 was retrieved from the medical database system of the Harapan Kita National Women and Children Hospital in Indonesia.

Results



Conclusion

- In the Indonesian population, abnormal sex chromosomes and trisomy 21 were the common aneuploidies.
- Better strategies to screen sex chromosomes and Down syndrome are urgently required to optimise decision-making for pregnant women at risk.