

EP10.60. Chorionic Villus Sampling: Current Trends and Outcomes in a Middle-Income Setting

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Objectives

- Evaluate the clinical outcomes and complications of chorionic villus sampling (CVS) in a tertiary academic hospital in a middle-income setting, focusing on safety and its role in early prenatal genetic screening

Methods

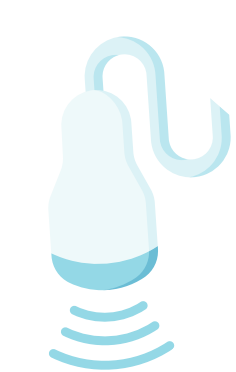
- A cross-sectional study at the Instituto Nacional de Perinatologia, Mexico City, analyzed data from 2017 to 2024
- Singleton and twin pregnancies undergoing CVS for genetic assessment were included
- Complications within two weeks post-procedure were assessed
- Continuous variables are presented as mean $\pm$ standard deviation (SD) or median with interquartile range (IQR); categorical variables as numbers and percentages

Results

A total of 69 pregnant individuals met the inclusion criteria:



- Mean maternal age: 35 ± 6.6 years; mean gestational age at the procedure: 13.4 ± 1.40 weeks. Mean BMI: 27.18 ± 5.45 kg/m². Median gravidity: 2 (IQR 1–3). Most pregnancies were singleton (97.1%) and spontaneously conceived (97.1%)



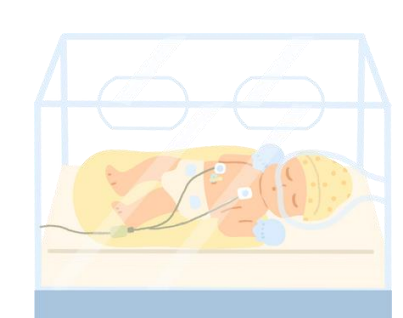
- Main biopsy indications for CVB (not mutually exclusive): increased nuchal translucency (53.6%), fetal anomalies (46.3%), ultrasound markers of high chromosomal risk (43.5%), maternal age ≥ 35 years (40.6%), and family history of congenital/genetic anomalies (5.8%)



- Genetic studies performed (not mutually exclusive): karyotyping (98.6%), MLPA (1.4%), test type missing in the EMR (1.4%)



- Procedures (Figure 1) were performed by maternal-fetal medicine fellows (10.1%) or attending physicians (89.9%), all under supervision. No operator changes were required. Most were a transcervical approach (94.2%)



- Only complication reported: pregnancy loss (N=1, 1.4%)
- Mean gestational age at delivery: 34.2 ± 10.8 weeks, latency from procedure to delivery: 20.4 ± 10.8 weeks

Conclusions

- CVS performed in a tertiary academic center within a middle-income setting is reliable and safe, with a low incidence of maternal-fetal complications comparable to high-income countries
- These findings support patient counseling and decision-making for those considering CVS in similar healthcare environments



Figure 1. Simulated CVS Procedure