

Center of Medical Genetics

Sir Ganga Ram Hospital

Rajinder Nagar, New Delhi 110060

Telephone Nos: Direct 011-25861767; 42251992/93

Fax No. 011-42251034. Email: dr_iverma@yahoo.com

Procedure for Prenatal Diagnosis on Chorionic Villus Sampling (CVS)

1. Take 3-4 ml of blood from the affected child and parents, and other relatives who have to be tested, and add to the EDTA tube, rotate to mix well to prevent clotting.

2. We prefer the Chorionic villus sample (CVS) be collected in Delhi under our supervision.

If the obstetrician is experienced in this sampling only then collect the sample locally.

Commonly samples sent from outstation are too small in quantity causing problems in diagnosis.

3. Collect 20 to 30 mg of CVS. For DNA tests and cytogenetic diagnosis 20 mg of CVS may be enough. However for biochemical tests at least 30 mg is required, as the enzyme assay needs lot of tissue. If you have facilities you may remove blood clots from the sample. Fine cleaning of the sample we like to do ourselves, so as to avoid maternal contamination.

4. Alternatively, if media is not available send CVS in ~ normal saline with antibiotics. (Add 0.5 ml of solution containing 10,000 units/ml of crystalline penicillin and 10mg/ml of streptomycin to 15 ml of normal saline)

5. Put the CVS pieces into the tube containing the media /normal saline. Close the lid tightly to prevent leakage and contamination.

6. Return by courier to the Genetic Lab using the label provided. The sample should reach us within 48 hours of collection.

