

## 2b. Prenatal and Perinatal Genetics

Co-ordinator: Dr. Beena Suresh, Dr. Poornima Ramkumar, Mrs. Chandhini Rajendran

| Time                                                                                                             | Program                                                       | Speaker                               |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------|
| 08.30 - 08.50                                                                                                    | Registration                                                  |                                       |
| <b>Session 1 - Overview of Genetic testing - Principle / Samples / Indications</b>                               |                                                               |                                       |
| 08.50 - 09.00                                                                                                    | Welcome and Scope of Workshop                                 | Dr. Sujatha Jagadeesh                 |
| 09.00 - 09.20                                                                                                    | Karyotype / CMA                                               | Dr. Meenal Agarwal                    |
| 09.20 - 09.40                                                                                                    | Next generation sequencing (NGS)                              | Dr. Ashwin Dalal                      |
| 09.40 - 09.50                                                                                                    | CMA / NGS reports what to look for / how to read a report     | Dr. Meenal Agarwal / Dr. Ashwin Dalal |
| 09.50 - 10.00                                                                                                    | Audience interaction                                          |                                       |
| <b>Session 2 - Planning prenatal testing steps needed</b>                                                        |                                                               |                                       |
| 10.00 - 10.05                                                                                                    | Introduction                                                  | Dr. Beena Suresh                      |
| 10.05 - 10.25                                                                                                    | Genetic history taking                                        | Dr. Pradeep Kumar M                   |
| 10.25 - 10.45                                                                                                    | Index case work - up                                          | Dr. Sujatha Jagadeesh                 |
| 10.45 - 11.05                                                                                                    | Family history of problem / only records                      | Dr. Sheela Nampoothiri                |
| 11.05 - 11.10                                                                                                    | Audience interaction                                          |                                       |
| 11.10 - 11.40                                                                                                    | Coffee Break                                                  |                                       |
| <b>Session 3 - Mode of inheritance / recurrence risk / interpreting results according to mode of inheritance</b> |                                                               |                                       |
| 11.40 - 11.45                                                                                                    | Introduction                                                  | Dr. Pradeep Kumar M                   |
| 11.45 - 12.00                                                                                                    | Autosomal dominant (AD)                                       | Dr. Meenal Agarwal                    |
| 12.00 - 12.15                                                                                                    | Autosomal recessive (AR)                                      | Dr. Beena Suresh                      |
| 12.15 - 12.30                                                                                                    | X-Linked recessive (XLR)                                      | Dr. Sheela Nampoothiri                |
| 12.30 - 12.45                                                                                                    | Mitochondrial                                                 | Dr. Meenal Agarwal                    |
| 12.45 - 13.00                                                                                                    | Audience interaction                                          |                                       |
| 13.00 - 14.00                                                                                                    | Lunch Break                                                   |                                       |
| <b>Session 4 - Result interpretation problems</b>                                                                |                                                               |                                       |
| 14.00 - 14.05                                                                                                    | Introduction                                                  | Dr. Sheela Nampoothiri                |
| 14.05 - 14.25                                                                                                    | VUS - How to decide PND - Case examples                       | Dr. Ashwin Dalal                      |
| 14.25 - 14.40                                                                                                    | Pseudogene (CAH as example)                                   | Dr. Meenal Agarwal                    |
| 14.40 - 15.00                                                                                                    | Value of phenotype genotype correlation                       | Dr. Ratna Dua Puri                    |
| 15.00 - 15.10                                                                                                    | Audience interaction                                          |                                       |
| <b>Session 5 - Fetal / Preimplantation testing</b>                                                               |                                                               |                                       |
| 15.10 - 15.15                                                                                                    | Introduction                                                  | Dr. Sujatha Jagadeesh                 |
| 15.15 - 15.35                                                                                                    | Fetal testing for anomalies - how to plan                     | Dr. Sudarshan S                       |
| 15.35 - 15.55                                                                                                    | Case selection / Precautions - PGT                            | Dr. Ashwin Dalal                      |
| 15.55 - 16.15                                                                                                    | Fetal growth disorders - Deeper Genetic insights (Imprinting) | Dr. Ratna Dua Puri                    |
| 16.15 - 16.25                                                                                                    | Audience interaction                                          |                                       |
| 16.25 - 17.05                                                                                                    | Challenging Case based discussion                             |                                       |
| <b>Presenter :</b> Dr. Gayathri K, Dr. Mythili T, Dr. Sakshi yadav                                               |                                                               |                                       |
| <b>Discussants :</b> Dr. Ratna Dua Puri, Dr. Ashwin Dalal, Dr. Sujatha Jagadeesh                                 |                                                               |                                       |
| 17.05 - 17.30                                                                                                    | Quiz                                                          | Dr. Sujatha Jagadeesh                 |