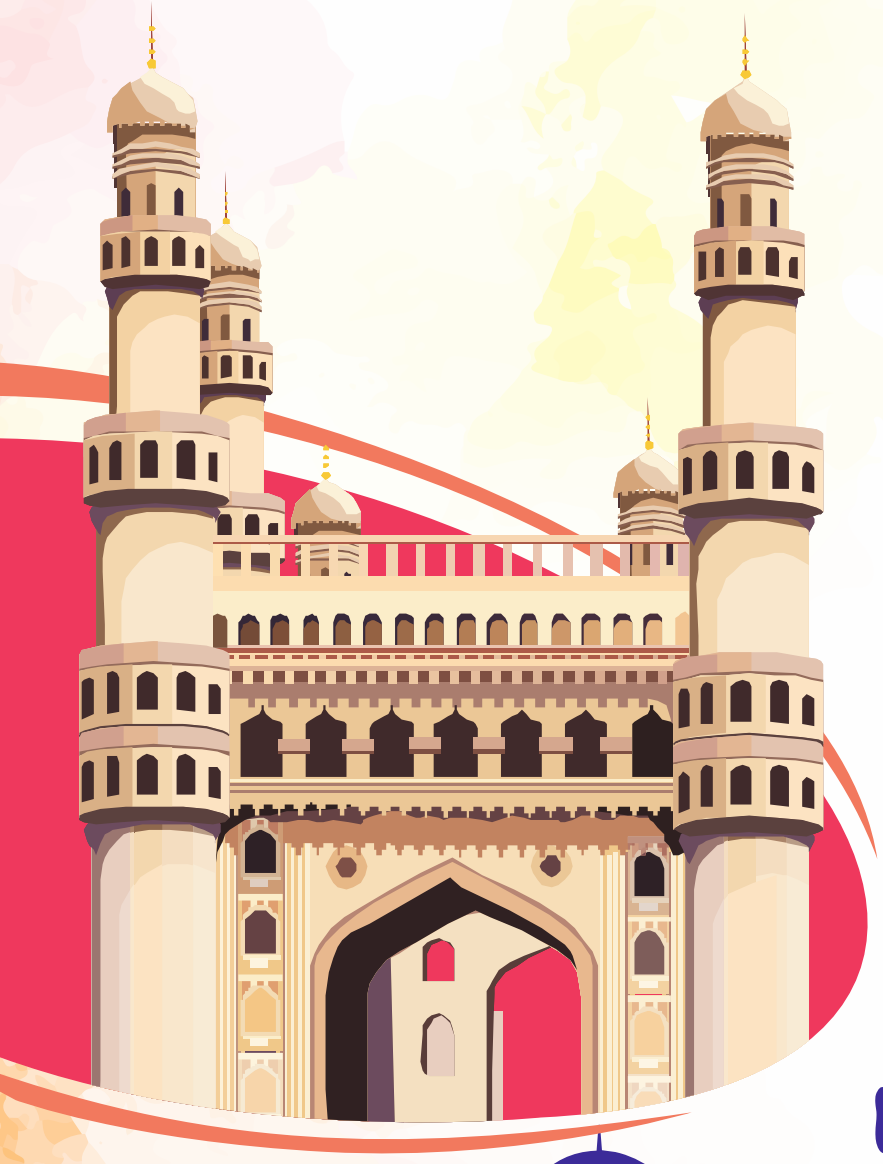
FetoGenetics

International Congress of SFM Telangana Chapter & International Society for Prenatal Diagnosis (ISPD)

SOCIETY OF FETAL MEDICINE

ispd
International Society for Prenatal Diagnosis

Demystifying Fetal Genetics



13th - 15th December, 2024

The Park Hotel

Hyderabad | India

Scientific Brochure

www.sfmfetogenetics.com

CONFERENCES INTERNATIONAL

Welcome Message

On behalf of the Telangana Chapter of The Society for Fetal Medicine, India it is our proud privilege to extend a warm welcome to each one of you to the First International Congress from 14th-15th December 2024 in collaboration with the International Society for Prenatal Diagnosis announces Fetogenetics. The Congress aims to demystify genetics for the fetal medicine practitioner through interactive learning with leading National and International Faculty. Multiple immersive workshops precede the congress on the 13th December promising one of its kind hands on experience in fetal syndromic diagnoses, genetic counselling and genetic report interpretation.

We welcome all to Hyderabad, the erstwhile city of pearls, and also the city of futuristic living, to participate in this academic extravaganza

Dr Mohit V Shah
National President SFM

Dr Ashok Khurana
Mentor Emeritus SFM

Dr Chinmayee Ratha
Organising Chairperson

Dr Shagun Aggarwal
Organising Secretary

EARLY BIRD REGISTRATIONS TILL 20th NOVEMBER

SFM MEMBER	INR 8000
NON MEMBER	INR 10000
PG STUDENT	INR 7000

SCAN QR TO **REGISTER**

WORKSHOP REGISTRATIONS

ONE WORKSHOP FEE	TWO WORKSHOP FEE
SFM MEMBER INR 3200	SFM MEMBER INR 5900
NON MEMBER INR 4000	NON MEMBER INR 7500

The above fees is inclusive of 18% GST

Pre-Conference Workshops - 13th December, 2024

Pre-Lunch - ATGC of Genetic Tests- From Lab to Clinic

Venue: Department of Medical Genetics, Nizam's Institute of Medical Sciences, Punjagutta, Hyderabad
(9:00 am - 1:00 pm)

Convener- Dr Shagun Aggarwal, Head, Department of Medical Genetics, Nizam's Institute of Medical Sciences

This workshop is focused on a practical application for various genetic tests in fetal medicine practice. It would involve a tour of the Medical Genetics laboratory, live analysis of experiments and case/report based discussion of scenarios like abnormal reports, reports with variants of uncertain significance; and pre and post test counselling issues with genetic tests. Various tests like aneuploidy testing, karyotype, Sanger sequencing, chromosomal microarray and exome sequencing would be covered in this workshop.

Introduction to genetic tests in Fetal medicine	**Dr Shagun Aggarwal**
Live Demos and visit to lab	
Coordinators	Dr Karthik Bharadwaj, Dr Neelam Saini
Assistants	
Test 1	QF-PCR- aneuploidy and MCC
Test 2	Karyotype
Test 3	Sanger sequencing for target variant- thalassemia
Test 4	Chromosomal microarray
Test 5	Exome sequencing

Post-Lunch - Genetic Counseling in Fetal Medicine-Navigating the Maze

Venue: Department of Medical Genetics, Nizam's Institute of Medical Sciences, Punjagutta, Hyderabad
(2:00 pm - 6:00pm)

Convener- Dr Shagun Aggarwal, Head, Department of Medical Genetics, Nizam's Institute of Medical Sciences

This workshop would involve case based interactive discussions and group activity. It would involve actual and simulated case scenarios and cover critical aspects of history taking, pedigree drawing, approach to index child workup, abnormal ultrasound workup, pre-test and post-test counselling for complex situations like variants of uncertain significance, NIPT result interpretation, choosing the right genetic investigations, etc. and other scenarios relevant to fetal medicine practice.

Introduction to Genetic Counseling and Pedigree drawing in Fetal Medicine	**Dr Shagun Aggarwal**
Live exercises	
Coordinators	Dr Gayatri Nerakh, Dr Surya Balakrishnan
Assistants	
Case 1	Previous child with abnormality
Case 2	Prenatal ultrasound with abnormality
Case 3	Pre and post test counselling for NIPT
Case 4	VOUS on Prenatal exome report
Case 5	Bad obstetric history/ Recurrent pregnancy losses

Pre-Lunch - Fetal Echo and Cardio Genetics

Venue: Resolution Centre of Fetal Medicine 2nd Floor KIMS Sunshine Hospital Building, Begumpet, Hyderabad
(9:00 am - 1:00 pm)

The Cardiogenetics workshop, involves a deep dive into the intricate relationship between fetal cardiac abnormalities and genetic association. This workshop is designed for doctors interested in fetal echocardiogram and to understand the genetic underpinnings of heart disease. The participants will explore the latest advancements in fetal echo, demonstration of fetal echocardiogram, relation of various genetic abnormalities associated with cardiac diseases in fetus, when to offer testing, what to test and what results to expect. Also, regarding what and how to counsel the patients.
Join us as we unravel the complexities of Cardiogenetics.

Session 1 **Evaluation of the Fetal Heart**	
Topic 1	Second Trimester fetal heart demonstration
Topic 2	Ultrasound indicators rising suspicion of evolving congenital cardiac abnormalities
Topic 3	Basic cardiac evaluation in the first trimester
Session 2 **Opening the pandora box of genetics in congenital heart disease**	
Topic 1	Four Chamber abnormalities and genetic association
Topic 2	Conotruncal anomalies and genetic association
Topic 3	Connecting the dots between CHD and aneuploidies
Session 3 **Diving deep into the Cardiogenetics**	
Topic 1	The cardiac channelopathies –Inherited arrhythmias
Topic 2	Jumbled organs and the genetic associations
Topic 3	Genetics and epigenetics of 22q11.2 – The DiGeorge syndrome

Post-Lunch - Fetal Neurosonography and Neuro Genetics

Venue: Resolution Centre of Fetal Medicine 2nd Floor KIMS Sunshine Hospital Building, Begumpet, Hyderabad
(1:00 pm - 4:30pm)

Disorders of the developing nervous system may be of genetic origin, comprising congenital malformations of spine and brain that effect normal brain development. Fetal neurogenetics integrates aspects of genetics and development of CNS and how genetic variations influence neurodevelopmental processes
Understanding neurogenetics helps in improving prenatal diagnostic by utilizing advanced genetic tests and help for the counselling the patients.

Session 1 **Critical Evaluation of CPU of the body**	
Topic 1	Syndromes and Brain – No more sorrow
Topic 2	Fetus CNS in First Trimester
Topic 3	Role of MRI in evaluation of fetal CNS
Session 2 **Major CNS abnormalities - guiding to choose the right test**	
Topic 1	Demonstration of Second Trimester Fetal CNS
Topic 2	Ventriculomegaly
Topic 3	Corpus Callosal abnormalities
Topic 4	Not so innocent CPC
Session 3 **Session Name: Diving deep into the Neurogenetics**	
Topic 1	Posterior fossa malformations
Topic 2	Aneuploidies and CNS malformations
Topic 3	NTD's and Genetics

Scientific Program

14th December, 2024

08:50-09:00	Welcome
Session 1: Setting the Stage	
09:00-09:22	Genetic Red Flags in First Trimester Scans
09:23-09:45	Second Trimester Markers: Present Day Interpretation
09:46-10:08	Third Trimester Red Flags
10:09-10:20	Audience Interaction
10:20-10:45	**Tea Break/ Trade Partner Interaction/ Poster Viewing**
Session 2: Sonographic Probing for Syndromes	
10:45-11:07	Central Nervous System: What to Expect and Document
11:07- 11:30	Interactive Case Based Discussion
11:30-11:52	Cardiovascular System: What to Expect and Document
11:52-12:15	Interactive Case Based Discussion
12:15- 12:37	Craniofacial Anomaly: What to Expect and Document
12:37-13:00	Interactive Case Based Discussion
13:00-13:22	Skeletal Anomaly: What to Expect and Document
13:22-13:45	Interactive Case Based Discussion
13:45-14:30	**Lunch/ Poster Evaluation**
14:30-15:10	Googly Session: Audience Driven
15:10-16:10	Free Paper Presentations (Each 3.5 minutes Presentation+1.5 minutes Discussion)
16:10-16:30	**Tea**
Session 3: Newer Technologies in Clinic	
16:30-16:45	NIPT for Chromosomal Disorders
16:45-17:05	NIPT as a Contingent Screen: The Barcelona Model
17:05-18:00	Dr IC Verma Memorial Kahoot Quiz
18:00	Inauguration
19:00 onwards	**Gala Dinner and Cultural Program**

15th December, 2024

08:50-09:00	Welcome Welcome on behalf of ISPD
09:00-09:25	Basics of Genetics for Fetal Medicine Practitioner
09:25-09:50	Cytogenetic Testing in Fetal Anomalies
09:50-10:15	**Tea break**
10:15-10:40	Buffet of Genetic Tests: Choosing the Best Fit
10:40-10:55	Exome Sequencing for Fetal Anomalies
10:55-11:20	How to Optimize Genetic Referrals in Resource Restricted Settings
11:20-11:45	Interactive Audience Discussion
11:45-12:45	Panel Discussion: Genetic Evaluation for Lethal Fetal Anomalies
12:45-13:00	Audience Interaction
13:00-14:00	**Lunch**
14:00-15:00	Panel Discussion: Genetic Evaluation for Non-Lethal Fetal Anomalies
15:00-15:15	Audience Interaction
15:15-16:45	Indian Guidelines for Reproductive Genetic Testing 1. Preconceptional Carrier Screening 2. Prenatal Invasive Testing Aneuploidy Screening
15:45-16:15	ISPD Guidelines for Reproductive Genetic Testing
16:15-16:30	Audience Interaction
16:30-16:55	**Tea Break**
16:55-17:10	NIPT for Single Gene Disoders
17:10-17:30	Fetal Medicine as the New Frontier of Genetic Discoveries
17:30-17:45	Valedictory
17:45-18:00	Vote of Thanks