FetoGenetics

International Congress of SFM Telangana Chapter &

International Society for Prenatal Diagnosis (ISPD)

Demystifying Fetal Genetics





Pre-Conference Workshops - 13th December, 2024 Nizam's Institute of Medical Sciences, Punjagutta & KIMS Sunshine Hospital Building, Begumpet



Welcome Message

Telangana Chapter of The Society for Fetal Medicine, India in collaboration with the International Society for Prenatal Diagnosis announces Fetogenetics, its First International Congress from 14th-15th December 2024. 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 ShahNational President SFM



Dr Ashok Khurana Mentor Emeritus SFM



Dr Chinmayee RathaOrganising Chairperson



Dr Shagun AggarwalOrganising Secretary

REGULAR REGISTRATIONS TILL 10th DECEMBER

SFM MEMBER INR 8800 NON MEMBER INR 11000 PG STUDENT INR 8000

WORKSHOP REGISTRATIONS

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

SFM MEMBER INR 5900 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.

Welcome and participant introductions

Dr Shagun Aggarwal

Introduction to genetic tests in Fetal medicine

Dr Prajnya Ranganath

Wolcome and Participant Introductions

Feedbacks and certificates

Live Demos and visit to lab		
Lead Coordinators	Dr Karthik Bharadwaj, Dr Neelam Saini	
Workstation resource faculty	Dr Spoorthi, Dr Sirisha Reddy Baddam, Dr Mayuri Sanjay Dixit, Dr Soumya Penmetssa, Dr Anuradha Manchikanti, Dr B.Roopadarshini, Dr Prathyusha Koneru, Dr Safura Sultana, Dr S Valli, Dr Thipparapu Shankar, Ms Harika Patnaik, Dr Tushar Pallewar	
Test 1	QF-PCR- aneuploidy and MCC	
Test 2	Karyotype	
Test 3	Sanger sequencing for target variant	
Test 4	Chromosomal microarray	
Test 5	Exome sequencing	
Participant driven presentations Feedbacks and certificates	Dr Shagun Aggarwal, Dr Karthik Bharadwaj, Dr Neelam Saini	

Post-Lunch - Genetic Counseling in Fetal Medicine-Navigating the Maze
Venue: Department of Medical Genetics, Nizam's Institute of Medical Sciences, Punjagutta, Hyderabac
(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.

Dr Chagun Aggarwal

e exercises
Gayatri Nerakh, Dr Surya Balakrishnan
Gowri Rao, Mr Prashanth Rao D, Ms Neeraja Reddy Malleda, R Sahithi Rathod, Ms Javeria Nisar,Dr S Valli, Prathyusha Koneru, Dr Thipparapu Shankar, B. Roopadarshini, Dr Tushar Pallewar
vious child with abnormality
natal ultrasound with abnormality
and post test counselling for NIPT
JS on Prenatal exome report
obstetric history/ Recurrent pregnancy losses
Shagun Aggarwal, Dr Gayatri Nerakh, Surya B <mark>alakrishnan</mark>
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Pre-Lunch - Fetal Echo and Cardio Genetics Genetics of Congenital Heart disease: The glass half empty

Venue: Resolution Centre of Fetal Medicine, 2nd Floor, KIMS Sunshine Building, Prakash Nagar, Opposite to Old Airport, Begumpet, Hyderabad (9:00 am - 1:00 pm)

Workshop Convenors: Dr. Sunil Mehta, Dr. TLN Praveen, Dr. Chinmayee Ratha

Introduction: 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.

Join us as we unrav	el the complexities of Cardiogenetics.			
	Session 1			
Evaluation of the Fetal Heart				
Session Coordinators: Dr.K Sahithi Reddy, Dr.Harshitha				
Chairpersons: Dr Mishu Mangla, Dr Alok Varshney				
Time	Topic	Speaker		
8:00 AM	Registration			
09:00 - 09:20 am		Dr Sudeep Verma		
09:20 - 09:40 am	Ultrasound indicators rising suspicion of evolving congenital cardiac abnormalities	Dr Geeta Kolar		
09:40 - 10:00 am	Basic cardiac evaluation in the first trimester	Dr TLN Praveen		
	Session 2			
О	pening the pandora box of genetics in congenital I	heart disease		
Session Coordinators: Dr Aditi Shastri, Dr Radhika P				
Chairpersons: Dr Roonmoni Deka, Dr Seetha Ramamurthy Pal				
10:00 - 10:20 am	Four Chamber abnormalities and genetic association	Dr Sudeep Verma		
10:20 - 10:40 am	Conotruncal anomalies and genetic association	Dr Alok Varshney		
10:40 - 11:00 am	Connecting the dots: first trimester cardiac	Dr Vandana Bansal		
	Session 3			
	Diving deep into the Cardiogenetics			
Session Coordinators: Dr Priyanka, Dr Chandana				
	Chairpersons: Dr Arati Singh, Dr Sushma Mo	eka		
<mark>11:00 -</mark> 11:20 am	The cardiac channelopathies - Inherited arrhythmias	Dr Asit Jena		
11:20 - 11:40 am	Jumbled organs and the genetic associations	Dr TLN Praveen		
<mark>11</mark> :40 - 12:00 pm	Genetics and epigenetics of 22q11.2 - The DiGeorge syndrome	Dr Prajnya Ranganath		
12:00 - 12:30 pm	Discussion			

Post-Lunch - Fetal Neurosonography and Neuro Genetics

Venue: Resolution Centre of Fetal Medicine, 2nd Floor, KIMS Sunshine Building, Prakash Nagar, Opposite to Old Airport, Begumpet, Hyderabad (1:00 pm - 4:30pm)

Workshop Convenors: Dr. Chinmayee Ratha, Dr. Suseela Vavilala

Introduction: 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 b	ody		
Session Coordinators: Dr Sushma Meka, Dr Neha Reddy				
Chairpersons: Dr TLN Praveen, Dr Arati Singh				
Time	Topic	Speaker		
01:00-01:20 pm	Syndromes and Brain - No more sorrow	Dr Prajnya Ranganath		
01:20 -01:40 pm	Fetus CNS in First Trimester	Dr Suseela Vavilala		
01:40-02:00 pm	Role of MRI in evaluation of fetal CNS	Dr Eashwar Chandra		
	Session 2			
Major CNS abnormalities - guiding to choose the right test				
Session Coordinators: Dr K Sahithi Reddy, Dr Hars hitha				
	Chairpersons: Dr Suseela Vavilala, Dr Vaisha	ali Deshmukh		
2:00 -2:20 pm	Demonstration of Second Trimester Fetal CNS	Dr Chinmayee Ratha		
2:20-2:30 pm	Ventriculomegaly	Dr KV Sridevi		
2:30-2:45 pm	Corpus Callosal abnormalities	Dr Alok Varshney		
2:45-3:00 pm	Not so innocent CPC	Dr Priti Dubey		
	Session 3			
	Diving deep into the Neurogenetic	CS		
	Session Coordinators: Dr Aditi Shastri, D	r Jyotsna		
	Chairpersons: Dr Vandana Bansal, Dr Alol	c Varshney		
3:00-3:15 pm	Posterior fossa malformations	Dr TLN Praveen		
3:15-3:30 pm	Aneuploidies and CNS malformations	Dr Suseela Vavilala		
3:30 - 3:45 pm	NTD's and Genetics	Dr Seetha Ramamurthy Pal		
		First Trimester guidelines		
3:45-4:00 pm	Guidelines for neurosonogram	Dr Radhika P		
3.43-4.00 pm		Second Trimester Guidelines		
		Dr Aditi Shastri		
4:00 - 4:30 pm	Discussion			

Scientific Program 14th December, 2024

08:50-09:00 am	Welcome	Dr Chinmayee Ratha	
09:00-10:20 am	Session 1: Setting the Stage Chairpersons: Dr TLN Praveen, Dr B Srinadh, Dr Narsimha Reddy, Dr Geeta Reddy		
9:00-09:22 am	Genetic Red Flags in First Trimester Scans	Dr Geeta Kolar	
9:22-09:44 am	Second Trimester Markers: Present Day Interpretation	Dr Chinmayee Ratha	
9:44-10:08 am	Third Trimester Red Flags	Dr Ashok Khurana	
0:08-10:20 am	Audience Interaction		
0:20-10:45 am	Tea Break/ Trade Partner Interaction/ Poster Viewing		
0:45-12:15 pm	Session 2: Sonographic Probing for Syndromes Chairpersons: Dr Sunil Mehta, Dr Geeta Kolar, Dr Sirisha Reddy Baddam		
0:45-11:07 am	Central Nervous System: What to Expect and Document	Dr Bimal Sahani	
1:07- 11:30 am	Interactive Case Based Discussion	Dr Amitha Indersen Dr Shagun Aggarwal Dr Ramesh Konanki	
1:30-11:52 am	Cardiovascular System: What to Expect and Document	Dr Adinarayan M	
1:52-12:15 pm	Interactive Case Based Discussion	Dr Suseela Vavilala Dr Shagun Aggarwal Dr Nitin Rao	
2:20-1:50 pm	Session 3 Chairpersons: Dr Mamatha Gowda, Dr Ruju Doshi, Dr A	Arati Singh, Dr Roonmoni Deka	
2:20-12:42 pm	Craniofacial Anomaly: What to Expect and Document	Dr Reema Bhatt	
2:42-1:05 pm	Interactive Case Based <mark>Discussion</mark>	Dr Shagun Aggarwal Dr K Sahithi Reddy Dr Parvathi Ravula	
:05-1:27 pm	Skeletal Anomaly: What to Expect and Document	Dr Krishna Gopal	
:27-1:50 pm	Interactive Case Based Discussion	Dr Gayatri Indla Dr Shagun Aggarwal Dr Geeta Kolar	
:50-2:50 pm	Lunch/ Poster Evaluation	n	
:50-3:30 pm	Googly Session: Audience Driven Expert: Dr TLN Praveen, Dr Vandana Bansal	Moderator: Dr Navya KC, Dr Sushma M	
Juc	lges: Dr Brynn Levy, Dr Ashwin Dalal, Dr Seetha Ramamurthy Pal, Dr Re	ema Bhatt, Dr Antoni Borrell	
:30-4:30 pm	Free Paper Presentations (Each 3.5 minutes Presentation+1.5 minutes Discussion)		
:30-4:50 pm	Tea Break		
:50-5:25 pm	Session 4: Newer Technologies		
	Chairpersons - Dr P Balamba, Dr Seetha Ramam		
:50-5:05 pm	NIPT for Chromosomal Disorders	Dr Priya Kadam	
:05-5:25 pm	NIPT as a Contingent Screen: The Barcelona Model	Dr Antoni Borrell	
		Quiz masters: Dr Priya Ranganath, Dr Sameer Bhatia	
5:25-6:20 pm	Dr IC Verma Memorial Kahoot Quiz Experts: Dr Ashok Khurana, Dr Ashwin Dalal, Dr Antoni Borrell	Moderators: Dr Shagun Aggarwal, Dr Chinmayee Ratha	
i:25-6:20 pm		Moderators: Dr Shagun Aggarwal, Dr Chinmayee Ratha	

15th December, 2024

08:50-09:00 am	Welcome	Dr Shagun Aggarwal	
10:50-09:00 alli	Welcome on behalf of ISPD	Dr Mahesh Choolani	
09:00-11:45 am	Session 5: Solving Genetic Puzzles- A symphor		
7.00 TT.45 dill	Chairpersons - Dr Geeta Kolar, Dr Sheetal Sharda		
9:00-09:25 am	Basics of Genetics for Fetal Medicine Practitioner	Dr Ashwin Dalal	
9:25-09:50 am	Cytogenetic Testing in Fetal Anomalies	Dr Brynn Levy	
9:50-10:15 am	Tea break		
10:15-10:40 am	Buffet of Genetic Tests: Choosing the Best Fit	Dr Antoni Borrell	
10:40-11:05 am	Exome Sequencing for Fetal Anomalies	Dr Brynn Levy	
11:05-11:30 am	How to Optimize Genetic Referrals in Resource Restricted Settings	Dr Ashok Khurana	
11:30-11:45 am	Interactive Audience Discussion		
	Chairpersons: Dr Vandana Bansal, Dr Chinmayee Ratha, Dr Brynn Levy		
11:45-12:45 pm	Panel Discussion: Genetic Evaluation for Lethal fetal anomalies- All is not los Panelists: Dr Aditya Kulkarni, Dr Vandana Chaddha, Dr Sheetal Sharda, Dr Gayatri V, Dr VVS Chandrasekharam	st Moderator: Dr Sujatha Jagadeesh	
12:45-1:00 pm	Interactive Audience Discussion		
1:00-2:00 pm	Lunch/ Trade Partner Interaction/Poster viewing		
2:00-2:30 pm	Session 6: The Next frontier in Fetal Medicine Chairpersons: Dr B Vijaya Lakshmi, Dr Ratna Dua Puri, Dr Brynn Levy		
2:00-2:15 pm	Cell based NIPD for monogenic disorders- seeking new horizons	Dr Ida Vogel (Online)	
2:15-2:30 pm	Fetal medicine as a gold mine of genetic discoveries	Dr Shagun Aggarwal	
	Chairpersons: Dr Antoni Borrell, Dr Vandana Chaddha, Dr Sheetal	Sharda	
2:30-3:30 pm	Panel Discussion: Genetic Evaluation for Non Lethal fetal anomalies-Holding hand in uncertain terrain Panelists: Dr Srinivas Murukki, Dr Vandana Bansal, Dr Mamatha Gowda, Dr Arati Singh, Dr Manjula Rao, Dr Nitin Gupta	Moderator: Dr Ratna Dua Puri	
3:30-3:45 pm	Interactive Audience Discussion		
3:45-4:25 pm	Session 7: Professional Guidelines- Setting benchmarks for optimal clinical practice Chairpersons: Dr Ashok Khurana, Dr Manjula Rao, Dr Ashwin Dalal		
3:45-4:05 pm	Indian Guidelines for Reproductive testing 1. Preconceptional Carrier Screening 2. Genome wide sequencing for fetal anomalies 3. Aneuploidy screening	Dr Ratna Dua Puri Dr Shagun Aggarwal	
4:05-4:25 pm	ISPD Guidelines for Reproductive Genetic Testing1. NIPT for Prenatal screening2. Exome Sequencing for prenatal diagnosis	Dr Antoni Borrell	
l:25-4:40 pm	Interactive Audience Discussion		
4:40-5:00 pm	High Tea Break		
5:00-5:20 pm	Valedictory		
5:20-5:30 pm	Vote of Thanks	Dr Shagun Aggarwal	