



8-WEEK FELLOWSHIP

ULTRASOUND IN OBSTETRICS & GYNAECOLOGY

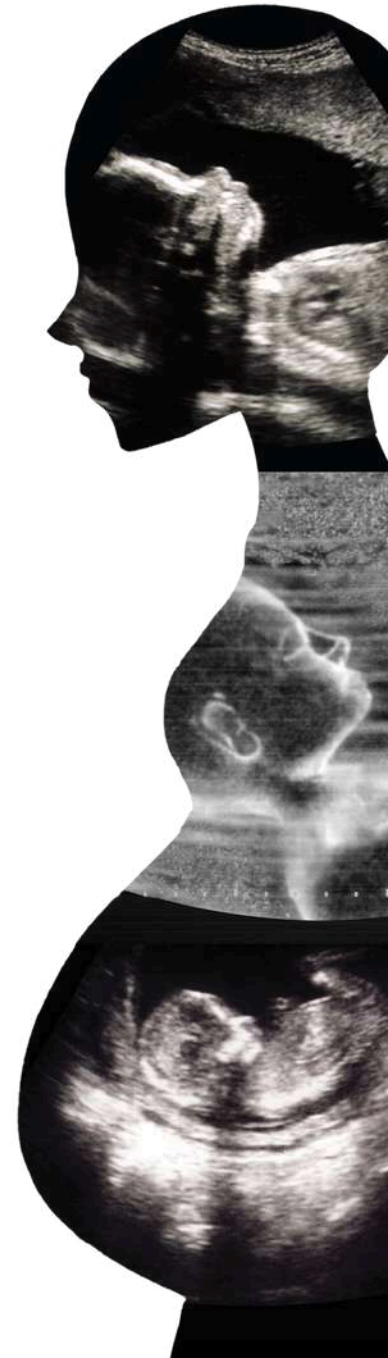
Fellowship alumni (3 batches) and Jammi Scans staff with former IOG Directors - Dr.Cynthia Alexander and Dr.Shaanthy Gunasingh at the valedictory function.



ABOUT THE FELLOWSHIP - A BRIEF



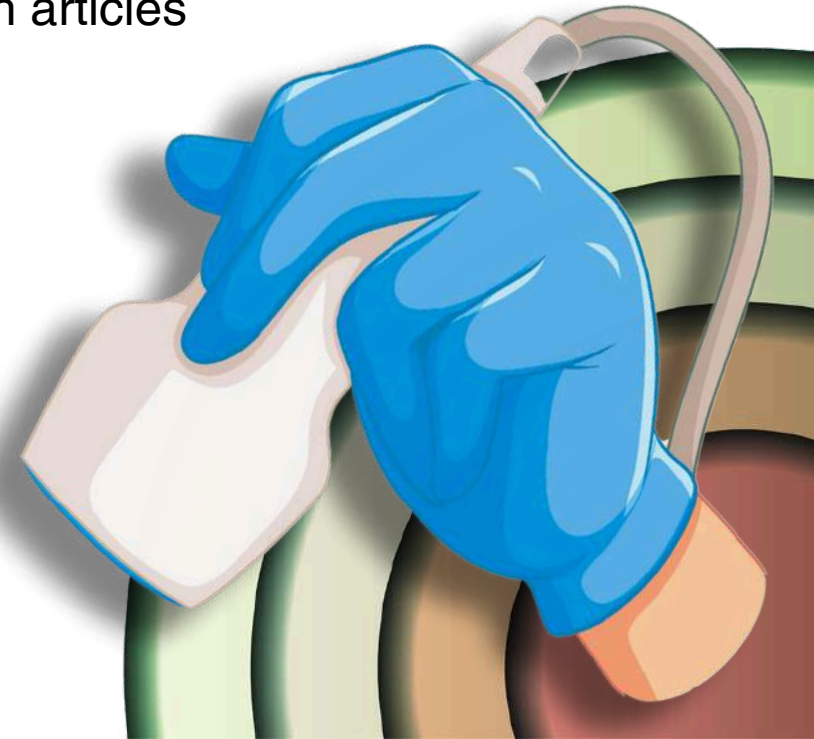
- **NUMBER OF SLOTS PER BATCH - 4**
- **ELIGIBILITY**
 - M.S - OB/GYN
 - DGO - P.G. Diploma in OB/GYN
 - DNB - Diplomate of National Board in OB/GYN
 - Knowledge of (a) Maternal Physiology (b) Fetal Physiology (c) Complications in pregnancy
- **INTAKE (2025) - April , June, August, October, December**
- **LOCATION - Jammi Scans, T.Nagar, Chennai**
- **DURATION - 8 weeks (2 months)**
- **TIMING - 9:00AM - 4:00PM, Monday to Saturday**
- **WHO SHOULD APPLY**
 - Doctors looking to build a career in fetal medicine, medical imaging and diagnostics
 - OB/GYNs who wish to provide advanced care to expectant mothers



INTENDED TAKEAWAYS OF THE COURSE

At the end of the course, candidates would ideally be equipped to,

- Effectively understand and use an ultrasound machine
- Differentiate between normal and abnormal development in a fetus.
- Interpret findings on a scan and reach an accurate diagnosis
- Manage abnormalities integrating the various modalities of investigation for perinatal diagnosis
- Liaise with the appropriate departments as mandated by the case
- Provide pre-pregnancy and perinatal advice to prospective parents
- Critically assess and interpret available literature and research papers
- Attempt publication of case reports and other review/research articles



WEEK BY WEEK CURRICULUM

- **WEEK 1** - Knobology, History taking related to Fetal Medicine and genetics, Obstetric scan planes
- **WEEK 2** - Hands on - Growth Scan
- **WEEK 3** - Hands on - Growth + Anomaly Scans
- **WEEK 4** - Hands on - Growth + Anomaly Scans
- **WEEK 5** - Hands on - Pelvis Scan, Follicular Study
- **WEEK 6** - Hands on - Obstetric + Gynaecology scans
- **WEEK 7** - Observership - Counselling, Fetal Intervention
- **WEEK 8** - Practical and Viva Assessments



SCOPE OF THE FELLOWSHIP

SCANS

- **Early scan (4 -10 weeks)** - detect fetal viability, confirm the number and location of gestational sac.
- **NT scan (11-13 weeks)** - assesses possibility of chromosomal abnormality of the fetus.
- **Anomaly scan (16-24 weeks)** - assesses the structural development of the baby
- **Growth Scan (28-40 weeks)** - measures the interval growth , liquor and fetal activity.
- **Fetal Doppler** - quantifies blood flow through arteries.
- **Fetal Echocardiography** and blood tests (double and quadruple marker)

PROCEDURES

- **Amniocentesis** - Extract amniotic fluid to test for chromosomal and genetic abnormalities (16-20 weeks)
- **Chorionic Villus Sampling** - Extract chorionic villi from the placenta (11-13 weeks)
- **Fetal Reduction** - In case of a multiple pregnancy, reduce fetus under ultrasound guidance to ensure wellbeing of remaining fetuses
- **Intra-Uterine Transfusion** - In case of fetal anemia, due to Rhesus incompatibility to transfuse blood to the fetus
- **Non-Invasive Prenatal Testing** - Tests Cell-free fetal DNA for chromosomal abnormalities.



TEACHING APPROACH

- Classes conducted by highly experienced faculty
- Case-based discussions will form a significant part of the modules.
- Apart from the course faculty, additional faculty will be invited from various allied fields related to Fetal Medicine – Paediatric sub-specialists, Geneticists and high-risk Obstetricians.
- Lectures on some topics will be recorded to allow self-paced learning
- One-to-one hands-on practical training from basics to advanced fetal and pelvic imaging.

Guest Lectures by

- Geneticist
- Neonatologist
- Paediatric Surgeon
- Paediatric Cardiologist



FELLOWSHIP PROGRAM ALUMNI



BATCH	NAME	HOSPITAL	LOCATION
January 2024	Dr.Sneha Sethumadhavan	Child Trust Hospital	Chennai
January 2024	Dr.Vidhya C	Stedford Hospital	Chennai
January 2024	Dr.Priyanka R	DUFOG	Chennai
April 2024	Dr.Vishwapriya J	Ranga Nursing Home	Chennai
April 2024	Dr.Kunguma Sangeta K M	IOG	Chennai
April 2024	Dr.Anshu Bansal	Apollo First Med	Chennai
April 2024	Dr.Pavithra D	Stedford Hospital	Chennai
April 2024	Dr.Shanmugapriya K K	Meenakshi Hospital	Madurai
April 2024	Dr.Divya Chandira R	JIPMER	Pondicherry
July 2024	Dr.Nandini Elumalai	The Gynec Room	Chennai

FELLOWSHIP PROGRAM ALUMNI



July 2024	Dr.Lakshmipriya K	Public Health Centre	Chennai
July 2024	Dr.Smrithi M	Sri Aaradhya Hospital	Tangutur, Andhra Pradesh
July 2024	Dr.Indhumathi B	Meenakshi Medical College	Kancheepuram
July 2024	Dr.Esther Rani Stella B E	Apollo First Med	Chennai
July 2024	Dr.Sri Kiruba Nandini M	Apollo Cradle	Chennai
October 2024	Dr.Mrudula Donthamsetty	Siddhartha Children's & Maternity Hospital	Rajahmundry, Andhra Pradesh
October 2024	Dr.Mohini Sethi Karra	A4 Fertility Centre	Chennai
October 2024	Dr.Aarthi Manoharan	Rainbow Hospital	Chennai
October 2024	Dr.Alekhya Pilli	Kamatchi Memorial Hospital	Chennai
October 2024	Dr.Snehalatha Jain	Arihant Maternity Hospital	Raipur, Chattisgarh
October 2024	Dr.Chindhuja Balasubramanian	Venkateshwara Hospital	Chennai



CLASSES AND SCANS





VALEDICTORY CEREMONIES



ABOUT DR.DEEPTHI JAMMI



- **EDUCATION** - Dr.Deepthi Jammi (Director, Jammi Scans) is a qualified OB/GYN and Post-Doc in Fetal Medicine. In 2011, she did her Obstetric Sonology at Mediscan (Chennai). In 2016, she completed her Post-Doctoral Fellowship in Fetal Medicine at Mediscan (Chennai) and received her degree from Tamil Nadu Dr.M.G.R Medical University (Chennai).
- **EXPERIENCE** - having performed over 1,50,000 scans over the course of her 14-year career thus far, she is an expert at not only performing scans but also in counselling the family in the treatment options in case of a high-risk pregnancy.
- **EXPERTISE** - Dr.Deepthi has successfully managed many mothers requiring advanced interventional procedures such as Amniocentesis, Fetal Reduction, Fetal Intrauterine Blood Transfusion (IUT) and Chorionic Villus Sampling.
- She is a **multiple gold medal awardee** in Fetal Medicine (at international and national conferences), and has appeared in prestigious regional magazines and TV interviews.



DR. DEEPTHI - TECHNICAL PRESENTATIONS



chromosomes instead of the usual 46 (23 pairs). The extra chromosome appears with the 21st pair.

On the eve of this day, Dr. Deepthi Jjammi, from the Department of Fetal Medicine in Apollo Cradle, elaborates on the importance of ultrasound scanning during pregnancy. "An early pregnancy scan done at 11 – 14 weeks of pregnancy along with a blood test referred as first trimester biochemical screening is offered to all pregnant mothers these days to understand the possibility of them carrying a chromosomally affected child", she says.



What is Down syndrome?

Down syndrome is the most common chromosomal disorder which leads to intellectual disability and other various health problems in a child. Children with Down syndrome typically display mild to moderate intellectual disability and other health problems. They generally have a flat facial profile with low set ears and upward slanting eyes. Long term health issues are a concern in these children who require adequate prosthetic treatment.

During their formative stages, a child develops the extended physical, cognitive, communication and social skills expected of him/her. However, there may be certain other areas where they may progress slower than normal and it is for this reason that early detection is strongly recommended. Therapies such as occupational, speech and language therapy have been used to boost the quality of life that a child with Down syndrome can enjoy.

than a decade ago, a woman over the age of 35 would have routinely been offered an invasive testing such as Chorionic villous sampling in her first trimester (uptil 3 months of pregnancy) or an Amniocentesis (4th month of pregnancy) in her second trimester. This is because older mothers are at an increased risk of bearing a child with Down Syndrome. The frequency rises from one in 1,400 babies for a woman between 20 and 24 years old, to one in 25 for a woman over-45 years of age.

What constitutes a first trimester screening?

The first trimester screening examines features unique to fetuses with Down syndrome between 11 and 14 weeks of pregnancy.

In an ultrasound scan which emits high frequency sound waves through the uterus to monitor the pregnancy, Fetal Medicine specialists check the Nuchal translucency (NT - thickness of skin at the back of the neck) and Nasal bone of the fetus to assess the risk of the baby having Down syndrome. The absence of the nasal bone and a thicker-than-normal neck skin indicates an increased risk of the fetus having the abnormality.

Following this the mother's blood is also tested for a combination of markers such as pregnancy-associated plasma protein A (Papp-a), which tends to be low in Down syndrome pregnancies and beta human chorionic gonadotropin (B-Hcg), which is raised in such pregnancies. Other factors, such as the mother's age, are used to assess the risk using the Fetal Medicine Foundation risk calculation software.

If the result is one in 250 or higher, it is typically recommended to undergo an invasive diagnostic procedure such as Chorionic villous sampling (CVS) or Amniocentesis which carries a small percentage risk of miscarriage. Dr. Deepthi explains that in these procedures, a needle is inserted in the woman's uterus to draw out either amniotic fluid (amniocentesis) or tissue from the placenta (CVS). The fluids contain cells from the baby which are examined for the chromosomal abnormality.

Recent technologies such as Non-invasive prenatal testing, a blood test which tests the fetal cells in the mother's blood, have

high sensitivity and specificity of the test for diagnosing such fetuses.

What causes Down syndrome?

While the exact cause is currently unknown, research indicates that as a woman ages, the probability of her bearing a child with Down syndrome increases. However, there is no research finding that suggests that the mother's lifestyle before or during the pregnancy influences this probability. There are multiple types of Down syndrome. Irrespective of the type, all those born with Down syndrome have the extra partial or full part of Chromosome 21, which may be obtained either from the father or the mother.

How can we support them?

Dr. Deepthi strongly stresses that those with Down syndrome, with the help of timely intervention, can be benefited to a significant extent. While they may learn and develop at their own pace, they can have a clear idea of the choices that they make to be as productive, independent and confident they can.

From a parenting perspective, she recommends that parents adopt a system of constantly encouraging a positive attitude and independence. With a balance of guidance and independence, those with Down syndrome can make rapid strides towards strong members of society.

To celebrate and spread awareness
DEPARTMENT OF FETAL MEDICINE
APOLLO CRADLE, KARAPAKKAM, OMR
 March 21st 9 am - 4 pm
DR. DEEPTHI JAMMI
 MBBS., M.S.(OG), Obstetric Sonology (Mediscan)
 Postdoctoral fellowship in Fetal Medicine
 (TN.Dr.MGR University)

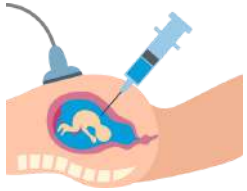


ABOUT JAMMI SCANS



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Founded in 2016.
Over 1,00,000 scans done over 9 years.



Over 3000 interventional procedures done

Google Rated 4.9 ★ stars by 900 patients

Instagram 1,65,000+ followers on Instagram

YouTube 1 million+ subscribers on YouTube



DIALOGUE - our knowledge platform. Conducted 14 conferences / workshops thus far

- April 2016 - DIALOGUE Conference - Raintree, Alwarpet
- April 2018 - DIALOGUE Conference - Deccan Plaza, Royapettah
- November 2019 - DIALOGUE Workshop - Quality Inn, GST Road
- December 2019 - DIALOGUE Workshop - Taj Gateway, OMR
- January 2020 - DIALOGUE Workshop - Savera, Mylapore
- November 2022 - DIALOGUE Workshop - Hyatt Regency, Anna Salai
- December 2022 - DIALOGUE Workshop - Hyatt Regency, Anna Salai
- January 2023 - DIALOGUE Workshop - Hyatt Regency, Anna Salai
- February 2023 - DIALOGUE Workshop - Hyatt Regency, Anna Salai
- March 2023 - DIALOGUE Workshop - Hyatt Regency, Anna Salai
- June 2023 - DIALOGUE Workshop - Taj Gateway, OMR
- July 2023 - DIALOGUE Workshop - Hyatt Regency, Anna Salai
- October 2023 - DIALOGUE Workshop - Hyatt Regency, Anna Salai
- August 2024 - DIALOGUE Workshop - Accord International, T.Nagar



DEDICATED TEACHING HALL & LIBRARY FOR FELLOW DOCTORS



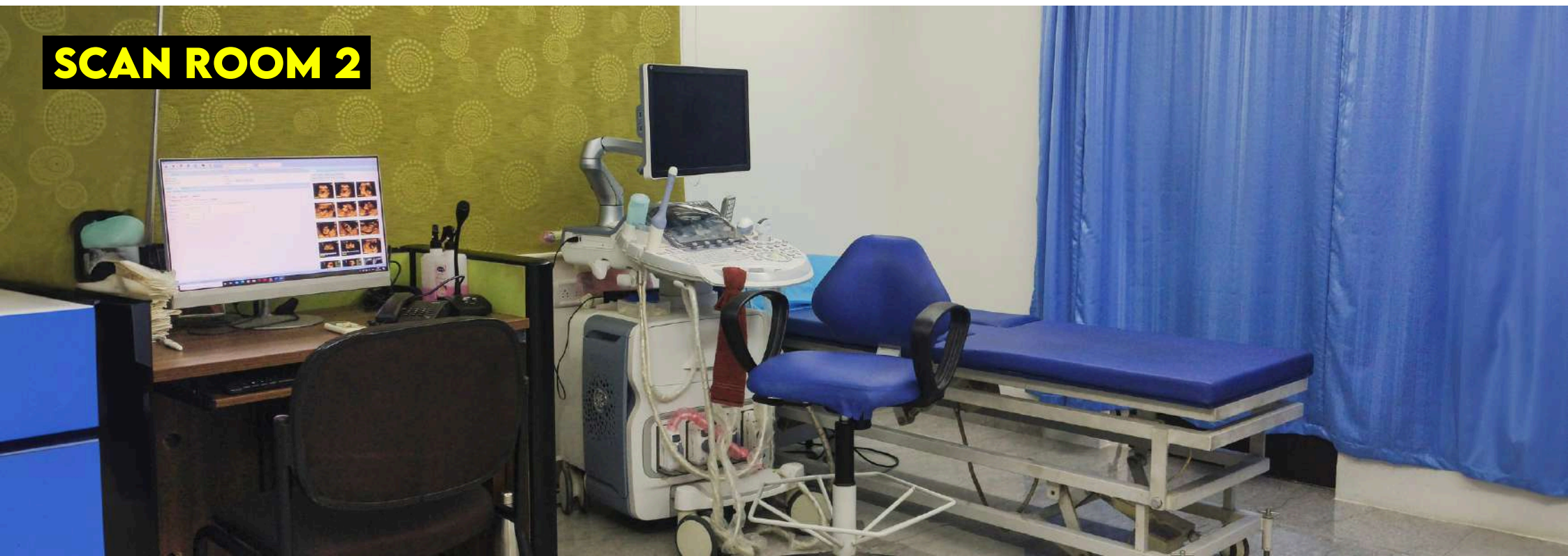
COUNSELLING ROOM



SCAN ROOM 1

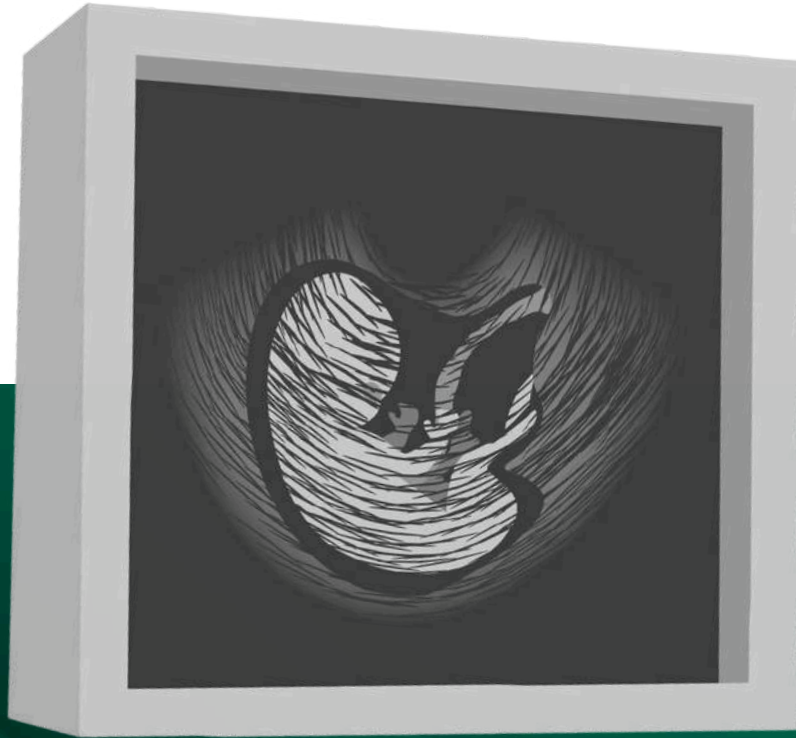


SCAN ROOM 2



WAITING AREA





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