

ENHANCED FIRST TRIMESTER SCREENING

Test FTS

Date of birth:	09 September 2002	Examination date:	15 January 2026
Referring doctor:	Dr Kesari Kapoor Asawari	Hospital no:	1212121212
		Visit no:	2

History

Ethnic origin: **South Asian (Indian, Pakistani, Bangladeshi).**

Parity: 1; Spontaneous deliveries between 16-30 weeks: 0; 31-36 weeks: 0; Deliveries at or after 37 weeks: 1.

Maternal Blood Group: A; Rhesus: positive; Maternal BMI: 27.4; Maternal weight: 76.9 kg; Height: 167.6 cm.

Smoking in this pregnancy: no; Diabetes Mellitus: no; Chronic hypertension: no; Systemic lupus erythematosus: no;

Antiphospholipid syndrome: no; PE in a previous pregnancy: no; Previous small baby: no.

Conception: spontaneous;

last period: 20 October 2025

	Gestational age	EDD
last period	12 weeks + 3 day(s)	27 July 2026
US	13 weeks + 2 day(s) from CRL	21 July 2026

First Trimester Ultrasound

US system: Voluson Swift. View: satisfactory.

Findings	alive fetus	
Fetal heart activity	visualised	
FHR	156 bpm	
Crown-rump length (CRL)	70.7 mm	
Nuchal translucency (NT)	1.60 mm	
Biparietal diameter (BPD)	25.8 mm	
Head circumference (HC)	92.1 mm	
Abdominal circumference (AC)	65.3 mm	
Femur length (FL)	8.6 mm	
Intracranial translucency	present, 2.1 mm	
Ductus Venosus PI	1.24	
Placenta	anterior	
Amniotic fluid	normal	
Cord	3 vessels	

Chromosomal markers:

Nasal bone: present; Tricuspid Doppler: normal.

Uterine artery mean PI:	2.385	equivalent to 1.551 MoM
Mean Arterial Pressure:	84.500 mmHg	equivalent to 0.9769 MoM
Endocervical length:	33.1 mm	

Fetal Anatomy

Skull/brain:	appears normal
Spine:	suboptimal views
Heart	
Abdomen:	appears normal
Stomach:	visible
Bladder / Kidneys:	visible
Hands:	both visible
Feet:	both visible

Maternal Serum Biochemistry

Sample taken on: 15 January 2026.

Free β -hCG	26.30 IU/l	Roche	equivalent to	1.164 MoM
PAPP-A	2.868 IU/l	Roche	equivalent to	0.826 MoM
PIGF	52.500 pg/ml	Roche	equivalent to	0.815 MoM

Risk calculation

Patient counselled and consent given.

FMF Operator: Tina Ann Varghese, FMF Id: 281983

Condition	Background risk	Adjusted risk
Trisomy 21	1 in 1433	<1 in 20000
Trisomy 18	1 in 16916	<1 in 20000
Trisomy 13	<1 in 20000	<1 in 20000

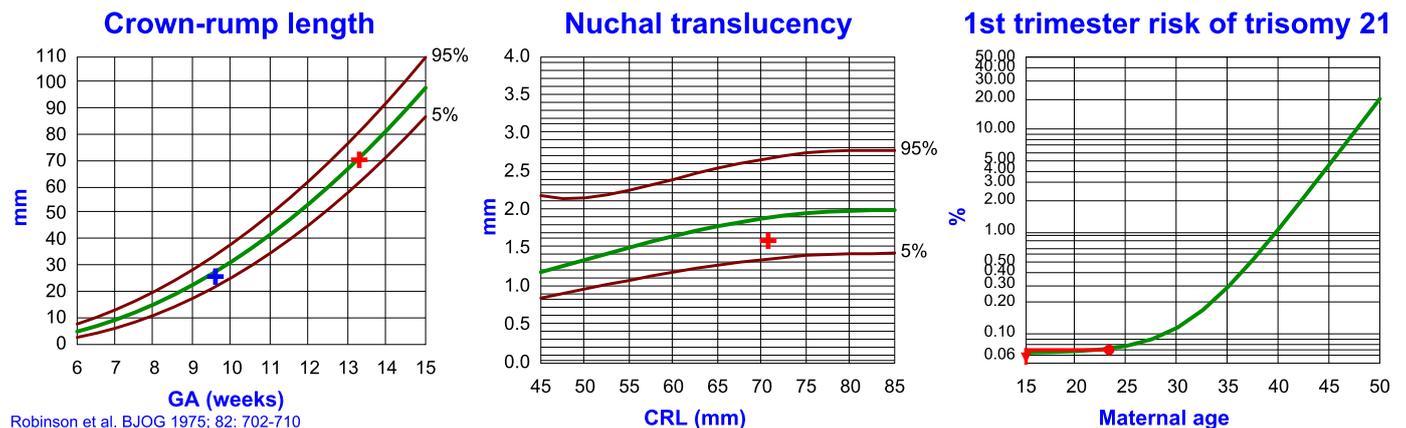
Preeclampsia before 37 weeks	1 in 411
Fetal growth restriction before 37 weeks	1 in 433
Spontaneous delivery before 34 weeks	1 in 386

The background risk for aneuploidies is based on maternal age (23 years). The adjusted risk is the risk at term, calculated on the basis of the background risk, ultrasound factors (fetal nuchal translucency thickness, nasal bone, tricuspid Doppler, ductus venosus Doppler, fetal heart rate) and maternal serum biochemistry (PAPP-A, free beta-hCG, PIGF).

Risks for preeclampsia and fetal growth restriction are based on maternal demographic characteristics, medical and obstetric history, mean arterial pressure (MAP), uterine artery Doppler, serum PIGF and serum PAPP-A. The risk of spontaneous delivery before 34 weeks is based on maternal characteristics, obstetric history and cervical length.

Biophysical and biochemical marker medians used to calculate MoMs are corrected as necessary according to several maternal characteristics including racial origin, weight, height, smoking, method of conception and parity.

The estimated risk is calculated by the FMF-2018 software (version 4.8) and is based on findings from extensive research coordinated by the Fetal Medicine Foundation (UK Registered charity 1037116). The risk is only valid if the ultrasound scan was performed by a sonographer who has been accredited by the Fetal Medicine Foundation and has submitted results for regular audit (see www.fetalmedicine.org).



Recommendations: Routine Anomaly scan at 19-20 weeks

Comments

Thank you for referring your patient **Test FTS**, date of birth 09/09/2002.

This is Patient's routine first trimester screening in our unit today. This is her second pregnancy, conceived in lactational amenorrhea (previous baby 16 months old, born at term via emergency LSCS).

The pregnancy has been dated by today's CRL (irregular cycles, conceived in lactational amenorrhea)

On scan today, the adjusted risk for Down Syndrome combining the nuchal translucency, nasal bone, tricuspid and DV Dopplers, free β hCG, PAPP- A is reduced compared to the age-related risk.

We discussed the options of the further management :

1) Sending maternal blood for a screening test called the Cell free DNA (cfDNA)/ NIPT/ NIPS which has a Detection Rate and Specificity of 99% for T21 if the Fetal Fraction is greater than 7%.

3) They can also opt for a Diagnostic test called the Needle test by invasive testing (CVS or Amniocentesis) but this has a risk of miscarriage 0.5/0.2% respectively)

We shall like to call her back for a routine anomaly scan at 19-20 weeks.

Detailed First Trimester Examination

HEAD and BRAIN

Intact cranium/ normal shape: seen

Midline falx: seen

Choroid plexus/ lateral ventricles: seen

FACE and NECK

Retronasal triangle: seen

Orbits with lenses: seen

THORAX

Thorax shape with lung fields: seen

HEART

Heart intathoracic with regular rhythm: seen

Cardiac size and axis: seen

Four chamber view: seen

ABDOMEN

Stomach filled: seen

Bladder filled (Length < 7MM): seen

Intact abdominal wall: seen

Two umbilical arteries: seen

Kidneys: seen

LIMBS

Upper limbs with three segments: seen

Lower limbs with three segments: seen

SPINE: seen in sub-optimal views

Ultrasound Obstet Gynecol 2023; 61: 127–143.

Please do not hesitate to contact us if you have any further questions or go to www.fetalmedicineindia.in

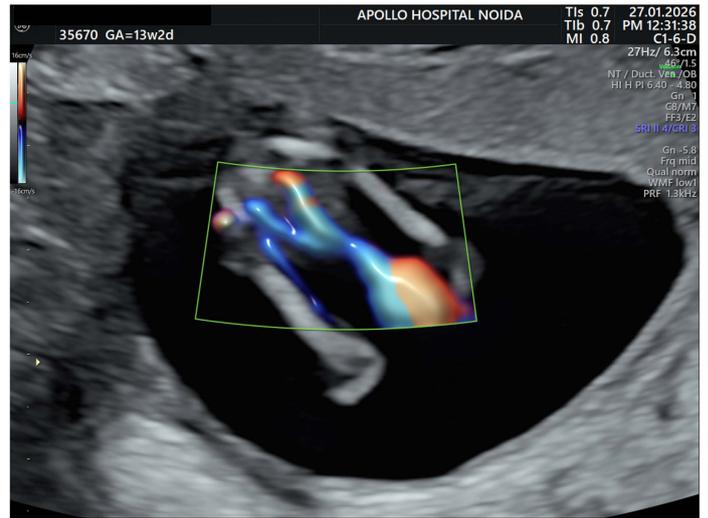
Please do not hesitate to contact me in case of any queries.

I the undersigned declare that while conducting the ultrasound on Mrs FTS Test I have neither detected nor disclosed the sex of the fetus to anyone in any manner.

Best wishes

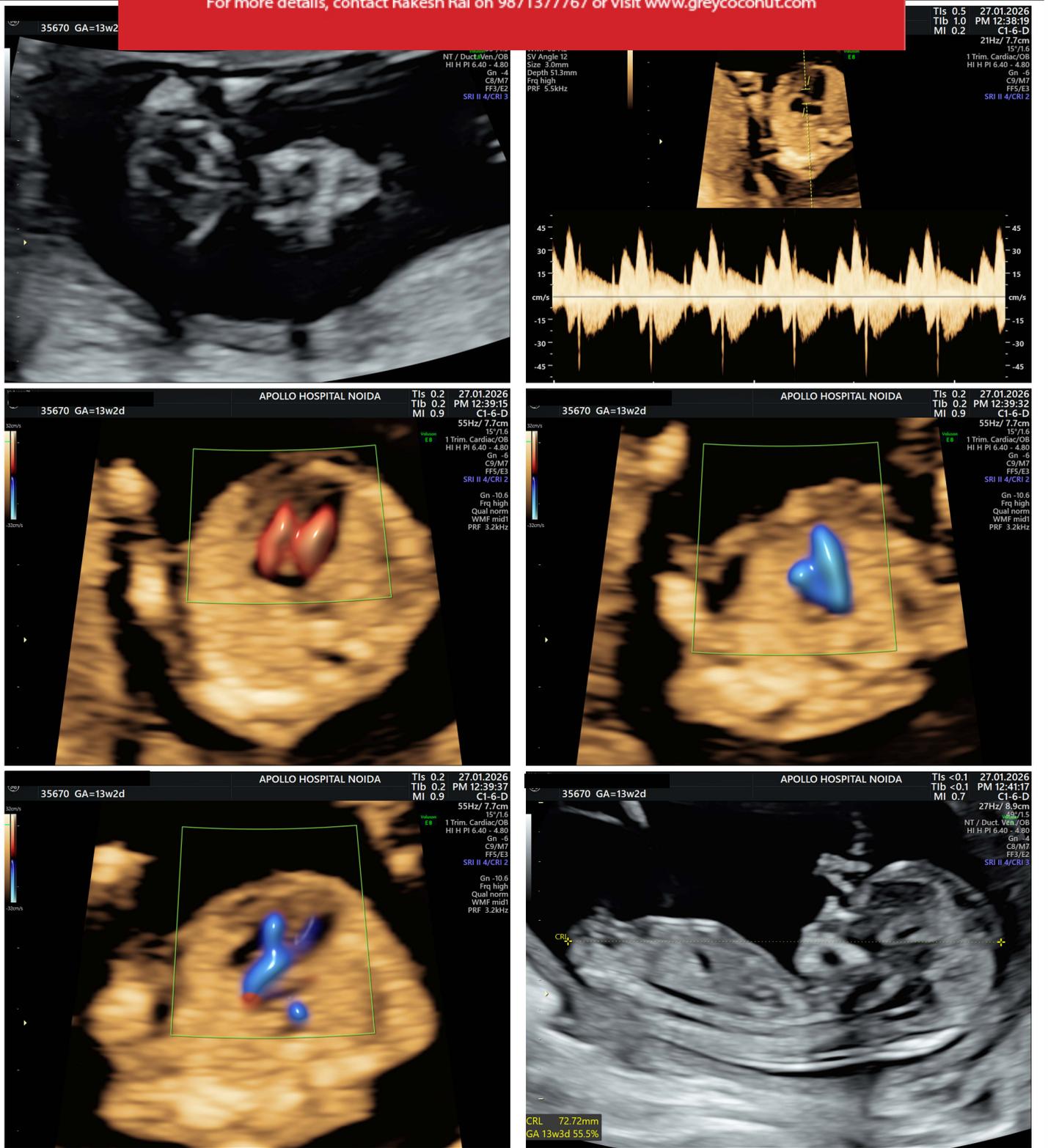
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For more details, contact Rakesh Rai on 9871377767 or visit www.greycococonut.com



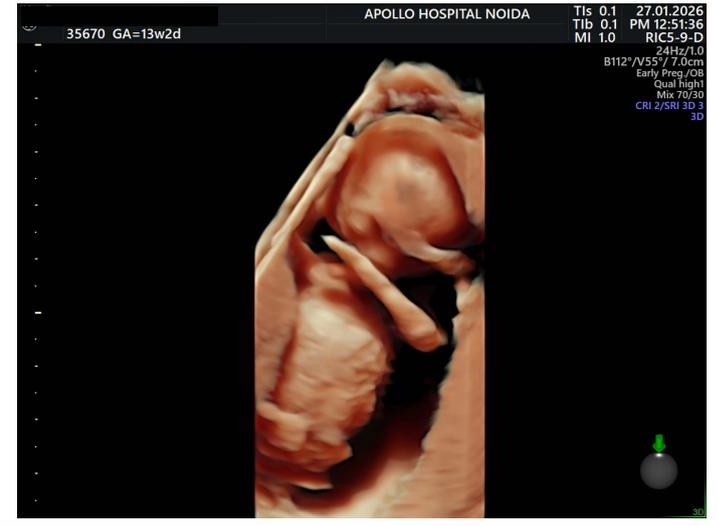
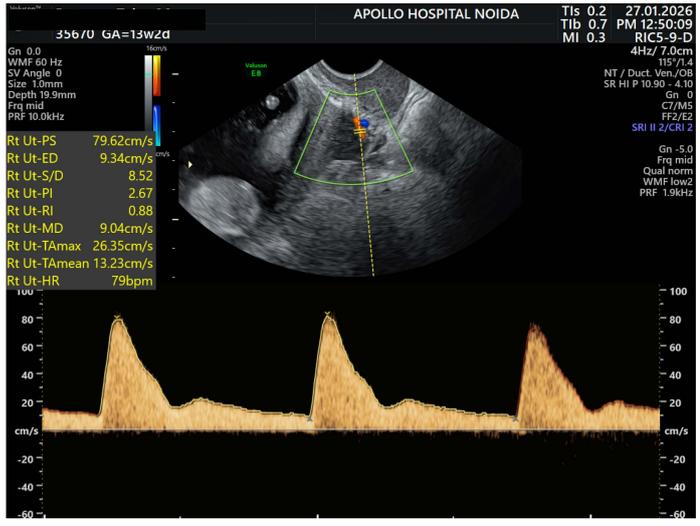
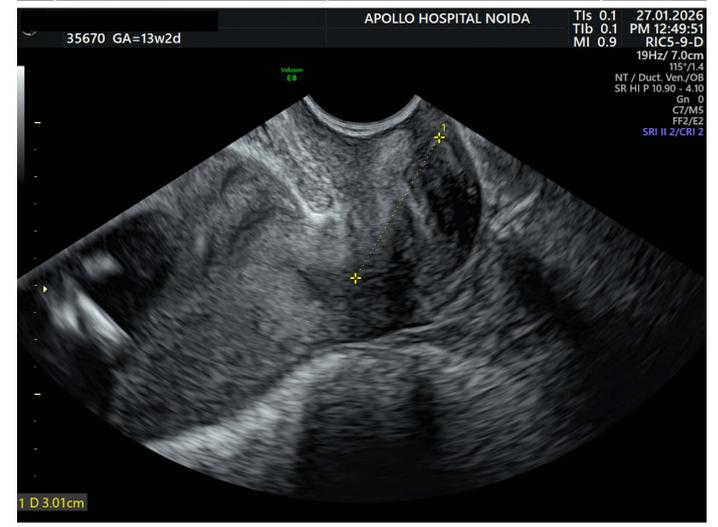
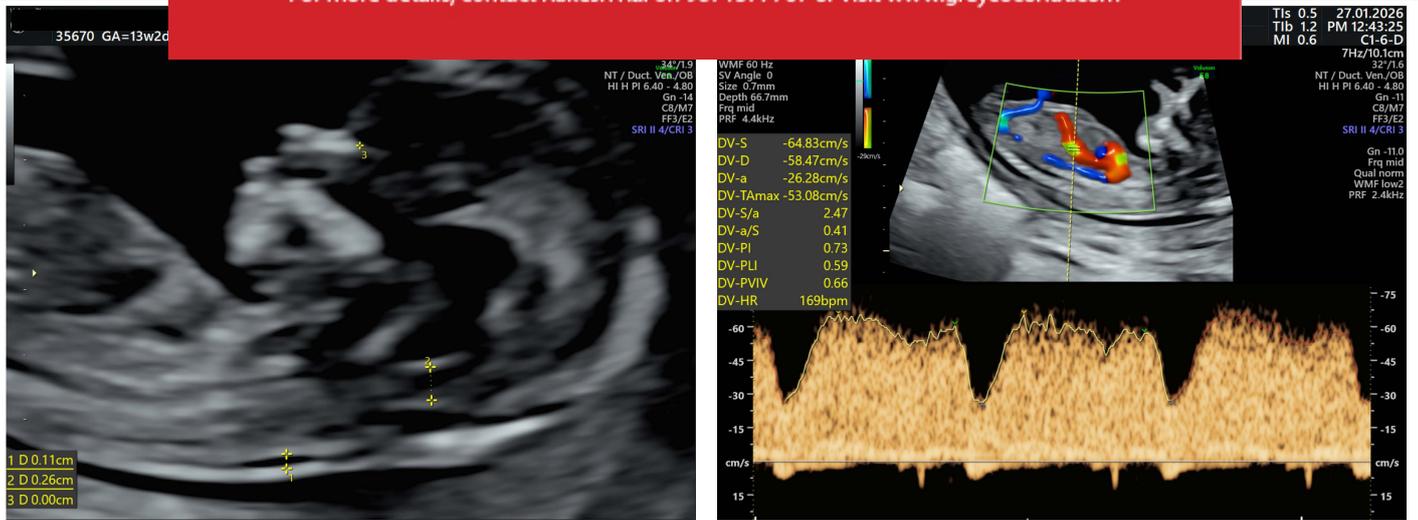
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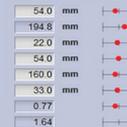


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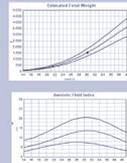
Your benefits at a glance

- > Monitor and document the entire pregnancy from early assessment through to birth outcome with well structured screen for fetal and maternal structures, growth scans, doppler ultrasound, placenta evaluation, cervical assessments and other examinations
- > Latest FMF risk algorithm to calculate risks for 21, 18, 13 Trisomies, intrauterine growth restriction, preterm delivery in the first trimester, as well as the risk for pre-eclampsia in all three trimesters.
- > Both fetalecho and fetalneuro module have been designed by and for specialists in order to provide an expert tool to systematically assess the fetal heart and brain.

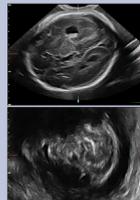
Growth Bars



Reference Charts



Images, Clips, 3D Volumes



Integrated tools, functions and features

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References

