

## First Trimester Screening Report

### Reshma Jagtap

Date of birth: 08 March 1999  
 Referring doctor: Dr. Kokare

Examination date: 27 April 2023  
 Patient id: 586

### History

Ethnic origin: South Asian (Indian, Pakistani, Bangladeshi).  
 Parity: 0; Spontaneous deliveries between 16-30 weeks: 0.  
 Maternal weight: 60.0 kg; Height: 165.1 cm.  
 Smoking in this pregnancy: no; Diabetes Mellitus: no; Chronic hypertension: no; Systemic lupus erythematosus: no; Antiphospholipid syndrome: no.  
 Conception: spontaneous; last period: 25 January 2023

EDD by dates: 01 November 2023

### First Trimester Ultrasound

US system: Voluson E 10 (BT 20). View: good.

Gestational age: 13 weeks + 1 days from dates

EDD by scan: 01 November 2023

Findings	alive fetus	
Fetal heart activity	visualised	
FHR	156 bpm	↔
Crown-rump length (CRL)	66.6 mm	↔
Nuchal translucency (NT)	1.52 mm	
Biparietal diameter (BPD)	23.9 mm	↔
Head circumference (HC)	81.7 mm	↔
Abdominal circumference (AC)	64.2 mm	↔
Femur length (FL)	9.8 mm	↔
Intracranial translucency	present, 1.9 mm	
Ductus Venosus PI	1.15	↔
Placenta	appears normal	
Amniotic fluid	normal	

### Chromosomal markers:

Nasal bone: present; Tricuspid Doppler: normal.

### Fetal anatomy:

Skull/brain: appears normal; Spine: appears normal; Heart: four chambers three vessels seen; Abdomen: appears normal; Stomach: visible; Bladder / Kidneys: visible; Hands: both visible; Feet: both visible.

Comments: BS:BSOB ratio- 0.49.

Uterine artery mean PI:	1.205	equivalent to 0.736 MoM
Mean Arterial Pressure:	86.667 mmHg	equivalent to 1.0299 MoM
Endocervical length:	33.0 mm	

### Risk calculation

Patient counselled and consent given.

FMF Operator: Sonal Phadtare, FMF Id: 198408

Condition	Background risk	Adjusted risk
Trisomy 21	1 in 1010	<1 in 20000

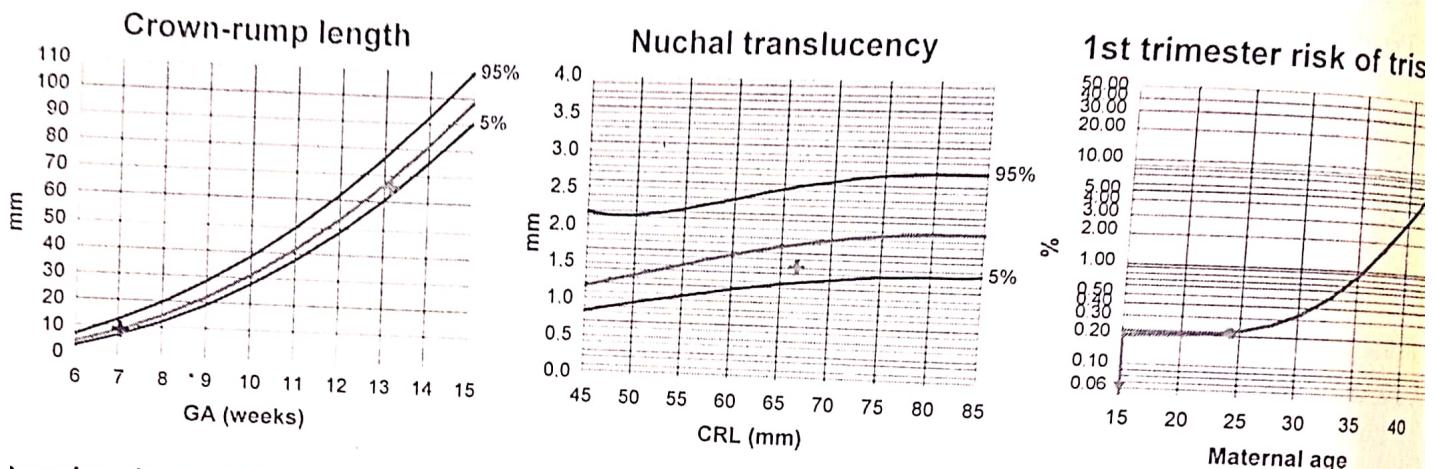
Trisomy 18 1 in 2499 1 in 14836  
Trisomy 13 1 in 7831 <1 in 20000

Preeclampsia before 37 weeks 1 in 428  
Fetal growth restriction before 37 weeks 1 in 311  
Spontaneous delivery before 34 weeks 1 in 204

The background risk for aneuploidies is based on maternal age (24 years). The adjusted risk is the risk at the time of screening, calculated from the background risk and ultrasound factors (fetal nuchal translucency thickness, nasal bone, tricuspid Doppler, fetal heart rate). Risks for preeclampsia and fetal growth restriction are based on maternal demographic characteristics, medical and obstetric history, blood pressure (MAP) and uterine artery Doppler. The risk of spontaneous delivery before 34 weeks is based on maternal characteristics, obstetric and cervical length.

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

The estimated risk is calculated by the FMF-2018 software (version 4.4) 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 is accredited by the Fetal Medicine Foundation and has submitted results for regular audit (see [www.fetalmedicine.org](http://www.fetalmedicine.org)).



#### Doppler ultrasound

Uterine artery	1.370
PI left	1.040
PI right	1.205
Mean PI	
RI left	0.68
RI right	0.60
Notch	no notch
Ductus Venosus	
A-wave	positive
PIV	1.15

#### Cervical assessment

Cervix length 33.0 mm  
Funnelling no  
Comment normal cervical length

#### Conclusions

Diagnosis No obvious fetal defects  
Conclusion routine scan normal uterine artery Doppler and cervical length  
Recommendations adequate assessment  
Rescan at 18-20 weeks to assess the fetal anatomy in detail (5th to 15th June)

#### Comments

There is single viable intrauterine pregnancy corresponding to dates. The nuchal translucency measurements, nasal bone and fetal heart rate has reduced the maternal age related risk for chromosomal abnormalities from 1 in 1010 to less than 1 in 20000.

# Dr. Sonal Phadtare

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# BARAMATI FETAL MEDICINE CENTRE



The nasal bone is present. The Tricuspid valve and Ductus venosus Doppler are normal.

I have offered the option of early risk reassessment for aneuploidies (free bHCG, PAPP-A, PLGF and AFP), i.e. first trimester Quadruple marker test. This also assesses the risk for fetal Neural Tube Defects (NTDs), Fetal Growth Restrictions (FGR) and maternal pre-eclampsia (PE).

If the risk for maternal PE is more than 1:100, scientific evidence based on large study (the ASPRE study) from the Fetal medicine Foundation, UK, has shown that, administration of Aspirin 150mg to the mother at bedtime, would reduce the effects of PE for the mother by 50-80%.

The cervix measures 33 mm with no evidence of funneling. The uterine artery Doppler is normal for this gestation.



The detection rate for chromosomal abnormalities with various screening tests are as follows-

First trimester NT scan only- 75%

First trimester Combined (NT + maternal blood test)- 80-85%

First trimester Combined test with 1T Quad marker- early screening for aneuploidies + fetal NTDs + FGR + maternal PE- 90% detection rate

Sequential screening (Combined + 2nd trimester Quadruple at 15-19w + Genetic sonogram at 18-20w) - 95%

Maternal blood test for cell free fetal DNA- 99%

Invasive testing (CVS/Amniocentesis), which is the definitive test has a procedure related risk of miscarriage about 1:300.

After counselling, the couple decided against invasive testing.

*Please note for all the future visits to ANY SCAN CENTRE, it is mandatory by the GOI to produce prior to the scan*

1. Photocopy (xerox) of Government approved photo ID card of the prospective mother (Aadhaar card, passport, voter ID, driving licences etc)

2. Referral letter from your Doctor with indication for the scan with her/ his SEAL and SIGNATURE.

Also, please keep extra time to fill GOI mandated "F- Form" before the scan which needs to be submitted online prior to the scan.



Please note:

1. All anomalies cannot be ruled out on ultrasound due to technical limitations, maternal factors like amount of liquor, maternal habitus previous scar, advanced gestational age etc. and fetal conditions like multiple pregnancies, fetal position, late appearance of few anomalies etc.

2. Absence of fetal anomalies on ultrasound scan does not absolutely rule out the possibility of having one.

3. The opinion reported is based on data generated by the computer, clinical correlation is required for deciding a treatment plan.

I Dr. Sonal Phadtare (M.S OBGY; Fetal Medicine Consultant), declare that while conducting ultrasound/ image scanning on patient Mrs. Reshma Jagtap, I have neither detected nor disclosed the sex of her fetus to anybody in any manner.

## Recommendations

Rescan at 18- 20 weeks to assess the fetal anatomy in detail (5th to 15th June)

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