

1.53 Mrs. Radha Nayak 25 Quadruple
F marker

DOB - 01/01/1998

Height - 5'2

Weight - 48 kg

- Advanced 1.5 Tesla 16 Channel MRI • Whole Body Cardiac 128 slice CT
- MRI Perfusion Study • MRI Cardiac • MRI Breast • USG • Color Doppler
- 3D / 4D Sonography • 2D - Echo • ECG • Digital X-Ray • Cephalogram
- Pathology • Full Body Health Check-up

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PATIENT NAME	MRS. RADHA NAYAK	AGE/SEX	25 Y / FEMALE
REF BY:	SAMUDAYAK SWASTH KENDRA	DATE	09.04.2024

LEVEL II (TARGETED IMAGING FOR FETAL ANOMALIES)

LMP - 01.11.2023

GA by LMP - 22 WEEKS 6 DAYS

E.D.D. By LMP 07.08.2024

E.D.D. By scan 13.08.2024

- Single live fetus is seen with unstable presentation at the time of study.
- Fetal movements and cardiac activity are well visualized.
- Fetal heart rate is **155 beats / minute** and is regular in rhythm.
- Biometric data of the fetus is as follows -

Fetal parameters		Corresponding gestational age	
	Cm	Weeks	Days
BPD	5.03	21	2
HC	19.3	21	5
AC	16.17	21	2
FL	3.72	21	6
HL	3.61	22	4
TIB	3.37	22	3
FIB	3.34	22	1
RAD	3.14	22	3
ULNA	3.32	22	6

- Mean gestational age by fetal parameter is 22 weeks 0 day.
Fetal weight is approx. 431 gms, +/- 63 gms
Amniotic fluid volume appears adequate. Cervical length is ~ 3.4 cm.
Placenta is **posterior**. No evidence of retroplacental collection.
Umbilical cord is showing normal "3 vessel appearance".
Mean uterine artery PI : 0.9 (normal for GA)

DETAILED ANATOMIC SCAN

• HEAD AND NECK:

- **Cerebellum**- normal in shape and size.
- **Cisterna magna**- < 10mm.
- **Nuchal skin fold thickness** - < 6mm.
- **Choroid plexus**- echogenic.
- **Lateral cerebral ventricles**- normal in calibre.
- **Midline falx**- present.
- **Cavum Septum Pellucidum** - present

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• **FACE:**

- The side profile is normal with normal chin and lips scan.
- The nose and lips are normal.
- Bilateral orbits are seen normal in size with normal inter orbital distance.

• **CHEST:**

- Four chambered heart & 3VV- present. **Echogenic focus in left ventricle of heart.**
- RVOT (right ventricular outflow tract) - is seen normally.
- Aorta outflow from left ventricle is seen.

• **ABDOMEN:**

- **Echogenic bowel loops are seen.**
- Stomach bubble seen on left side.
- Bilateral kidneys are normally visualized.
- Urinary bladder is normal in shape and outline.

• **SPINE:**

- The cervical, thoracic, lumbar and sacral spine was seen in sagittal and longitudinal views and vertebral segments were visualized normally with normal skin seen covering from neck to sacrum.
- No abnormal vertebral defects / splaying seen.

• **EXTREMITIES:**

- The fetal upper limbs x 2.
- Radius / ulna / humerus x 2.
- Hands x 2.
- Fetal lower limbs x 2.
- Tibia / fibula / femur x 2.
- Feet x 2.
- The echogenicity of visualized bones of bilateral upper and lower limbs is normal with normal shape, movements and position.

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IMPRESSION:-

SINGLE LIVE FETUS WITH UNSTABLE PRESENTATION WITH MEAN GESTATIONAL AGE OF 22 WEEKS 0 DAY.

TWO SOFT MARKERS OF ANEUPLOIDY ARE SEEN AS FOLLOWS :

- ECHOGENIC FOCUS IN LEFT VENTRICLE OF HEART.
- ECHOGENIC BOWEL LOOPS

ADVICE :- AMNIOCENTESIS FOR CHROMOSOMAL EVALUATION .

NOTE:-

- The overall sensitivity rate of detection of congenital anomalies by USG is approx 60% moreover a normal study does not exclude a significant anomaly.
- At least 40 to 50% fetus with Down syndrome will have no recognizable sonographic abnormality.
- Subtle abnormalities like polydactyl and cleft palate are not looked up in a routine scan, which are surgically correctable after birth.
- Some conditions present late in intra uterine life and require serial follow up scans to confirm their presence.
- Few of the congenital abnormalities (Viz. functional / infection) will have no recognizable sonographic abnormality.

I, Dr. Satya Jha declare that while conducting ultrasonography on Mrs. Radha Nayak, I have neither detected nor disclosed the sex of her fetus to anybody in any manner.

Thanks for the reference with regards.


DR. SATYA JHA (DNB, PDCC, EDiR)
Consultant Radiologist
MP - 23558



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