



AN ISO 9001 : 2015 CERTIFIED
IMAGING CENTRE

Dr. Kumar Rakesh

डॉ. कुमार राकेश

MBBS, MD (Radiodiagnosis)

PDCC in Abdominal Imaging, ILBS Hospital, New Delhi

Ex Senior Resident- AIIMS, New Delhi

Ex Senior Resident- Maulana Azad Medical College and GB PANT Hospital, New Delhi

USG PREGNANCY (ANOMALY SCAN/LEVEL II)

Patient's Name: Kanchan Jha

Bill no: 0461

Referred by: Dr. Ekta Jha, M.B.B.S, DGO.

Age/ Sex: 25 Yrs/F

Date: 19/05/2024

Clinical information: Fetal wellbeing.

LMP: 31/12/2023.

Technique: Transabdominal 2D and M-mode sonography of the gravid uterus was performed with static gray-scale and Doppler images obtained for the documentation of images.

Findings:

FETAL WELLBEING:

- Single, viable, intrauterine pregnancy seen.
- Presentation—Breech.
- Gross fetal and cardiac movements are present.

FETAL PARAMETERS:

PARAMETERS	MEASUREMENT	GESTATIONAL AGE
Biparietal Diameter (BPD)	41.0 mm	18 W 3 D
Head Circumference (HC)	166.1 mm	19 W 2 D
Abdominal Circumference (AC)	134.5 mm	18 W 6 D
Femur Length (FL)	29.5 mm	19 W 1 D
Humeral Length	30.6 mm	19 W 5 D
Radius	24.0 mm	19 W 4 D
Tibia	29.2 mm	20 W 1 D
Cerebellar Diameter	20.1 mm	
Binocular Distance (BOD)	29.2 mm	
Interocular Distance (IOD)	10.5 mm	
Lateral Ventricle	4.7 mm	
Cisterna Magna	5.5 mm	
Nuchal Fold Thickness	2.1 mm	

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यहाँ प्रसव पूर्व लिंग (पैदा होने से पहले लड़का या लड़की) की पहचान नहीं की जाती। यह दंडनीय अपराध है।

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FETAL ANATOMY:

HEAD:

- Head appears normal in shape, size and outline.
- Cranial vault appears intact with no obvious appreciable bony defect.
- Cerebral structures and lateral ventricles appear grossly normal.
- The choroids plexus of bilateral lateral ventricles appears normal with no obvious appreciable cystic focal lesion.
- Cavum septum pellucidum is visualized.
- Bilateral thalami are normally seen.
- Posterior fossa structures (Cerebellar hemispheres, cerebellar vermis and Cisterna Magna) appears normal.

NECK:

- No cystic/ solid lesion appreciable around the fetal neck.

SPINE(Axial, Sagittal and Coronal planes):

- Normal alignment of vertebrae is seen with no obvious appreciable defect.
- Overlying skin appears normal.
- The sacral tapering is noted.

FACE(profile and coronal scans):

- Both orbits and eyeballs appear normal. Clear lens seen bilaterally.
- Nasal bone is visualized.
- Retro Nasal triangle (RNT)/ PMT appears intact.
- No obvious appreciable defect seen in lips.

THORAX:

- Shape of the chest appears normal.
- Both lungs were visualized with normal echogenicity. No obvious cystic lucencies seen.
- No free fluid is present.
- Diaphragm visualized in normal location.

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HEART:

- It is normal in position with normal chamber size.
- Cardiac axis and cardiac situs appears normal.
- Crux is visualized with normal offsetting of the AV Valves.
- 4- Chamber view, 3V and 3VT view also appears normal with normal directional flow in ductus arteriosus.

ABDOMEN:

- Abdominal situs is normal.
- Anterior abdominal wall appears intact with normal umbilical cord insertion.
- The stomach bubble is seen below the diaphragm on the left side.
- Both kidneys are visualized. The renal pelvis and pelvi-calyceal system appears normal.
- Urinary bladder is well visualized with normal distension.
- Bowel loops appear normal.
- No ascites is seen.

UMBILICAL CORD:

- Cord appears normal (two arteries and one vein).
- Cord insertion is normal.

LIMBS:

- Four limbs are seen with three bones in each limb.
- Both hands are visualized along with hand opening.
- Both feet are visualized having normal angle with leg.

Composite Gestational age by USG:	19 Weeks	0 Day
Gestational age by LMP:	20 Weeks	0 Day
Expected date of delivery (EDD) by USG:	Date: 13/10/2024	
Expected date of delivery (EDD) By LMP:	Date: 06/10/2024	

Estimated fetal weight (EFW): 265 Grams (Hadlock).

Fetal heart motion: 151 Bpm with regular cardiac activity.

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PLACENTA:

Position—Anterior upper uterine segment.

Relation to Internal OS—Clear. Appearance—Normal.

No evidence of placenta previa or retroplacental haemorrhage seen.

Amniotic fluid: Liquor amnii is adequate. Single largest pocket: 4.2 cm.

Cervix: appears normal with closed internal OS. It measures 41 mm in length.

IMPRESSION:

1. Single viable intrauterine pregnancy of gestational age: 19 Weeks 0 Day. Presentation: Breech.
2. *No Gross congenital anomaly detected.
3. Placenta: Anterior upper uterine segment.
4. Fetal heart motion: 151 Bpm.
5. Estimated fetal weight (EFW): 265 Grams (Hadlock).
6. EDD by USG: 13/10/2024.
7. EDD by LMP: 06/10/2024.

Note:

*All measurements are subject to standard statistical variations. All congenital anomalies are not detected on sonography. By 2D- ultrasound, it is very difficult to study the fingers, toes, palate, lips etc. Few developing anomalies may not be detected in second trimester. Some congenital abnormality may be masked/undetected due to relatively large size of foetus, unfavourable foetal position, inadequate liquor and in obese individuals. Report of sonography are interpretations of shadows and images, which depend on various factors, hence clinical and pathological correlation is necessary before coming to a final diagnosis. As per requirements of PC-PNDT Act, consent of the patient is taken and sex of the foetus is neither detected nor disclosed to anybody by me, in any manner.

With regards,

Dr. Kumar Rakesh
MD (Radiodiagnosis), PDCC
Consultant Radiologist

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Ultrasound Report

Patient ID	572	GA (LMP)	20w0d	Date	19/05/2024
Patient Name	KANCHAN	EDD (LMP)	06/10/2024	Operator	
Age				Physician	

"&": used for EFW ^ : Extrapolated

Fetus A	U/S GA 19w0d	U/S EDD 13/10/2024			
Author	Value	Age	Based on GA	Based on U/S	
Hadlock2 (BPD, AC, FL)	265 g	18w6d	7%tile	41%tile	

U/S	Value	Age		m1	m2	m3	Author	Method
& ✓ BPD	41.0 mm	18w3d	4%tile	41.0			Hadlock	Last
✓ HC	166.1 mm	19w2d	14%tile	166.1			Hadlock	Last
& ✓ AC	134.5 mm	18w6d	14%tile	134.5			Hadlock	Last
& ✓ FL	29.5 mm	19w1d	14%tile	29.5			Hadlock	Last
HL	30.3 mm	19w5d	37%tile	30.3			Merz	Last
RAD	24.0 mm	19w4d	32%tile	24.0			Merz	Last
TIB	29.2 mm	20w1d	54%tile	29.2			Merz	Last

Ratios	Ratio	Low	High
CI	73.3	70.0	86.0
HC/AC	1.23	1.09	1.26
FL/BPD	NOT VALID	71.0	87.0
FL/HC	17.8	17.0	20.0
FL/AC	21.9		

Comment