

# Critical Ultrasonography Clinic

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Weekdays: 9.00 a.m. To 6.00 p.m. Saturday: 9.00 am. To 1.00 p.m.  
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Patient:	Date:	Region:	Tech.:
Mrs. Priyanka Patil ID: 219401-133548-2	18 December 2023	Obstetric	2D, Doppler, 3D, Anomaly scan
Ref.: Dr Priyanka Suryawanshi			
Clinical Background:			
<ul style="list-style-type: none"><li>• She has 18 weeks 5 days amenorrhoea by LMP date on 09-08-23.</li><li>• Gestational age is expected to be 18 weeks 5 days. Gestational age is based on LMP date. GA by LMP and Biometry at 11 weeks 6 days are similar.</li><li>• Expected Due Date is Wednesday 15-05-2024.</li><li>• She is known to have twin gestation. It was thought to be a dichorionic twin gestation on previous USG.</li></ul>			

## Obstetric ultrasound examination Report

- 18 weeks 5 days maturity live twin fetuses are seen. Twinning is monochorionic diamniotic rather than dichorionic diamniotic.
- Visualised appearances are normal in both the fetuses at this stage.
- Both the fetuses show concordant growth.
- Both fetuses have adequate liquor.
- Endocervical length measures 42.2 mm.
- Uterine artery Doppler indices are normal.
- A follow-up examination after 4 weeks will be useful.

Please find detailed description of findings on following pages ...

I, Dr. Manoj Chinchwadkar, declare that while conducting ultrasonography on Mrs. Priyanka Patil, I have neither detected nor disclosed the sex of the fetus to any body in any manner.

  
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MBBS, DMRD,  
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## Description of Ultrasound findings

### Twinning



- | Twinning is monochorionic diamniotic.
- | Thin septum runs between the two.
- | Both the fetuses show normal cardiac activity and movements.
- | Heart rate measures 152 beats/min in the first fetus.
- | Heart rate measures 150 beats/min in the second fetus.
- | They lie one below the other.
- | Right sided fetus is the first fetus. Second lies to maternal left and cranial to first fetus.

### Fetal growth

- | First fetus has size corresponding to the size of fetus at 17 weeks 6 days. It shows adequate growth.
- | Second fetus has size corresponding to the size of fetus at 18 weeks 0 days. It shows adequate growth.
- | Estimated weight measures 197 gm  $\pm$  30 gm in first fetus and 217 gm  $\pm$  33 gm in the second fetus.
- | Discrepancy in estimated weights of the two fetuses is 9.2% (should be less than 20%).

### Liquor

- | Amniotic fluid is adequate in amount in sac of the first fetus. It is adequate in sac of the second too.
- | Two quadrant AFI measures 6.37 and 6.84 in sacs of first and second fetus respectively.
- | Maximum pocket depth (MPD) measures 3.24 cm and 3.87 cm in sacs of first and second fetus respectively.
- | No evidence of oligohydramnios-polyhydramnios sequence is seen.

### Placenta

- | Single placenta lies on the anterior, left lateral, posterior walls.
- | Lower border of the placenta is 30 mm from internal os today. It is not low placed.
- | No evidence of velamentous insertion of cord is seen in either of the fetuses.
- | No evidence of unequal sharing of placenta is seen.

Continued:



**Cervix**

- Endocervical length measures 42.2 mm.
- Internal os is closed and does not show funneling.

**Doppler - Uterine arteries**

- On Doppler interrogation, right uterine artery shows pulsatility index of 1.
- On Doppler interrogation, left uterine artery shows pulsatility index of 0.9.
- Average pulsatility index is 0.95, which is below the 95th centile values.

**Doppler - Umbilical artery**

- Umbilical artery for the first fetus shows pulsatility index of 1.43 which is below the 95th centiles values. Diastolic component in the umbilical artery flow is not absent.
- Umbilical artery for the second fetus shows pulsatility index of 1.3 which is below the 95th centiles values. Diastolic component in the umbilical artery flow is not absent.

**Doppler - Middle cerebral artery**

- Middle cerebral artery for the first fetus shows peak systolic velocity of 26.67 cm/s (1.09 MoM as expected median velocity is 24.3 cm/s).
- Middle cerebral artery for the second fetus shows peak systolic velocity of 26.33 cm/s (1.08 MoM as expected median velocity is 24.3 cm/s).

**Fetal appearances**

- No evidence of cardiomegaly or hydrops is seen in either of the fetuses.
- Visualised structures show normal appearances in both the fetuses.
- Anomaly detection is dependent on many factors such as gestational age at scanning, fetal orientation, amount of surrounding fluid, maternal obesity, subtlety of the abnormality, etc.

Region	Findings	Remarks
Craniospinal structures	Normal in both	No evidence of hydrocephalus is seen. Cavum septum pellucidum is seen. Posterior fossa structures show normal appearances. No evidence of mega cisterna magna is seen. No evidence of large defect is seen in visualised parts of the spine. Small spinal defects can get undetected on ultrasound.
Thoracic structures	Normal in both	Both the lungs show normal echogenicity. No evidence of mediastinal shift is seen.



Region	Findings	Remarks
Cardiac structures	Normal in both	Normal situs is seen. Cardiac chamber sizes are normal. No evidence of large VSD is seen, though some VSD will not get detected on ultrasound. Atrioventricular and ventriculoarterial connections are normal.
Abdominal structures	Normal in both	Stomach is seen (some types of oesophageal atresia, tracheo-oesophageal fistula can still get undetected on ultrasound). No evidence of duodenal or bowel dilatation is seen today. No evidence of diaphragmatic hernia is seen. No evidence of omphalocele is seen.
KUB	Normal in both	No significant pyelectasis or hydronephrosis is seen on either sides. Both the kidneys normal appearances. Urinary bladder is seen.
Limbs	Normal in both	Visualised parts of the limbs show normal appearances. No evidence of overlapping fingers are seen. No evidence of club foot is seen.
Miscellaneous structures	Normal in both	Nuchal pad is not thickened. Nasal bone has formed. No evidence of cleft lip is seen (An isolated cleft palate deformity can get undetected on ultrasound). Three vessel cord is seen.

Gestational age		As on Date	18-Dec-23
Amenorrhoea By LMP date 09-Aug-23 By Biometry at 11 weeks 6 days		18 weeks 5 days 18 weeks 3 days $\pm$ 7 days	
Best estimate of gestational age (GA) Best estimate of Expected Due Date (EDD)		18 weeks 5 days Wednesday 15-May-2024	
Gestational age is based on LMP date. GA by LMP and Biometry at 11 weeks 6 days are similar.			



Date of Exam: 18.12.2023 Page: 1/13  
Exam Type:

## CRITICAL ULTRASONOGRAPHY

Name Patil, Priyanka

DOB

Sex

Female

Pat. ID E81659-23-12-18-3

Perf. Phys.

Ref. Phys.

Sonogr.

Indication

Fetus: A/2

LMP 09.08.2023

GA(LMP)

18w5d

EDD(LMP)

15.05.2024

G

Ab

DOC

GA(AUA)

17w6d

EDD(AUA)

21.05.2024

P

Ec

EFW (Hadlock)

Value

Range

Age

Range

GP

Hadlock

AC/BPD/FL/HC

197g

± 29g

17w3d

+

3.5%

2D Measurements

AUA

Value

m1

m2

m3

Meth.

GP

Age

BPD (Hadlock)

☒

4.11 cm

4.11

avg.

39.1%

18w3d

OFD (HC)

5.05 cm

5.05

avg.

5.1%

17w4d

HC (Hadlock)

☒

14.41 cm

14.41

avg.

5.3%

17w5d

HC\* (Hadlock)

☒

14.43 cm

14.43

avg.

8.7%

17w2d

AC (Hadlock)

☒

11.51 cm

11.51

avg.

10.9%

17w4d

FL (Hadlock)

☒

2.52 cm

2.52

avg.

31.9%

18w1d

HL (Jeanty)

☒

2.60 cm

2.60

avg.

2D Measurements

Value

m1

m2

m3

m4

m5

m6

Meth.

Uterus

Cervix Length

4.22 cm

4.22

avg.

Date of Exam: 18.12.2023 Page: 1/13  
Exam Type:

## CRITICAL ULTRASONOGRAPHY

Name Patil, Priyanka

DOB

Sex

Female

Pat. ID E81659-23-12-18-3

Perf. Phys.

Ref. Phys.

Sonogr.

Indication

Fetus: B/2

LMP 09.08.2023

GA(LMP)

18w5d

EDD(LMP)

15.05.2024

G

Ab

DOC

GA(AUA)

18w0d

EDD(AUA)

20.05.2024

P

Ec

EFW (Hadlock)

Value

Range

Age

Range

GP

Hadlock

AC/BPD/FL/HC

217g

± 32g

17w6d

+

11.1%

2D Measurements

AUA

Value

m1

m2

m3

Meth.

GP

Age

BPD (Hadlock)

☒

4.14 cm

4.14

avg.

43.0%

18w4d

OFD (HC)

5.36 cm

5.36

avg.

17.0%

18w1d

HC (Hadlock)

☒

15.09 cm

15.09

avg.

14.4%

18w0d

HC\* (Hadlock)

☒

14.98 cm

14.98

avg.

18.2%

17w6d

AC (Hadlock)

☒

12.12 cm

12.12

avg.

20.2%

18w0d

FL (Hadlock)

☒

2.64 cm

2.64

avg.

12.1%

17w4d

HL (Jeanty)

☒

2.43 cm

2.43

avg.

2D Measurements

Value

m1

m2

m3

m4

m5

m6

Meth.

Uterus

Cervix Length

4.22 cm

4.22

avg.