

292/05, Tulsidas Marg, Basement Chowk, Lucknow-226 003 **Phone**: 0522-4062223, 9305548277, 8400888844

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CMO Reg. No. RMEE 2445133 NABL Reg. No. MC-2491 Certificate No. MIS-2023-0218

Patient Name : Ms. KHUSHBOO DEVI Visit No : CHA250042758

 Age/Gender
 : 23 Y/F
 Registration ON
 : 10/Mar/2025 09: 30AM

 Lab No
 : 10140053
 Sample Collected ON
 : 10/Mar/2025 09: 30AM

Referred By : Dr.OMH Sample Received ON

Refer Lab/Hosp : CHARAK NA Report Generated ON : 10/Mar/2025 11:08AM

TARGETED IMAGING FOR FETAL ANOMALY (TIFFA)

- LMP is 31/10/2024 EGA by LMP is 18 weeks + 4 days.
- Single live intrauterine foetus is seen in variable lie with biometric measurement of: -
 - BOD 25 mm 16 weeks + 5 days
 - AC 130 mm 18 weeks + 4 days
 - HL 28 mm 19 weeks + 2 days
 - ULNA 25 mm 19 weeks + 1 days
 - RADIUS 22 mm 18 weeks + 2 days
 - FL 28 mm 18 weeks + 5 days
 - TIB 24 mm 18 weeks + 4 days
 - FIB 24 mm 18 weeks + 3 days
- Mean gestational age is 18 weeks + 2 days (+/- 2 weeks).
- EDD by CGA is approx. 19/08/2025 (on basis of present Sonographic age).
- Placenta is fundo-posterior wall. It shows grade-I maturity. No evidence of retro placental collection.
- Amniotic fluid is adequate. DVP measures 2.87cm.
- Cervical length appears normal.

Foetal morphological characters

- Cranial vault is absent and cerebral hemisphere is not visualized. Bilateral orbits can be visualized (frog like faces) S/O anencephaly-acrania complex.
- Foetal lips are grossly normal.
- Foetal neck does not show any obvious mass lesion.
- Foetal spine appears normal in configuration. Cross sectional imaging shows normal trilaminar pattern. No evidence of mass / spina bifida is seen.
- Foetal chest shows normal heart lung ratio. Foetal heart shows normal position and ratio. 4 chamber foetal heart appears normal. No mass lesion is seen in chest. Bilateral diaphragms are normal. **EICF is seen in left ventricle.**
- Foetal abdomen shows normal position of foetal stomach. Liver appears normal in position. Gall bladder is anechoic in lumen. Visualized bowel loops are normal. No evidence of abnormal dilatation / mass is seen in bowel.



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• Foetal urinary bladder is moderately distended.

• Foetal both kidneys are normal in size, shape & echotexture. Both renal pelvises are normal.

• No evidence of dilated ureters is seen.

- Foetal umbilical cord is three vessels and shows normal insertion. No evidence of foetal abdominal wall defect is seen.
- Foetal limbs are normal. Bilateral femur, tibia and fibula, humerus and radius and ulna are normal in size.
- Bilateral foetal hands & foots are grossly normal.
- Foetal cardiac activity is regular, heart rate measuring 148/min.
- Foetal body and limb movements are well seen.

OPINION:

- SINGLE LIVE FOETUS WITH MEAN GESTATION AGE OF 18 WEEKS + 3 DAYS (+/- 2 WEEKS).
- ANENCEPHALY-ACRANIA COMPLEX.
- EICF IN LEFT VENTRICLE.

COUNSELLING

This fetus has acrania (anencephaly) and EICF in left ventricle. Anencephaly has prevalence of 1 in 1000 at 12 week's gestation. CNS or other defects are found in about 50% of cases, including spina bifida in 25%. Is is a lethal condition with death within the first week of life. There is recurrence of one previous affected sibling of 5%. The risk of recurrence can be reduced by 75 % by supplementation of FOLIC ACID 5mg/day for 3 months before and 2 months after conception.

EICF is a soft marker for chromosomal abnormalities especially trisomy 21. However it does not increase the risk over background risk. The apriori risk of trisomy 21 in this fetus is 1:1060(serum screening not done). This can further be modified by serum screening(quadruple test) which is advised to the patient. Quadruple test has sensitivity of around 70% for trisomy 21. Availability of screening test with >99% sensitivity for trisomy 21 ie NIPT has been explained to the couple. Amniocentesis remains to be the diagnostic test for aneuploidies. In absence of aneuploidies, EICF is a benign marker and does not adversely affect cardiac function.

Note:-- I **Dr. Atima Srivastava**, declare that while conducting ultrasound study of **Mrs. Khushboo Devi**, I have neither detected nor disclosed the sex of her foetus to any body in any manner. All congenital anomalies can't be excluded on ultrasound.

- Dedicated fetal 2D-echo is not a part of routine structural anomaly scan.
- Chromosomal / Genetic disorders cannot be ruled out by ultrasound.

[DR. ATIMA SRIVASTAVA]
[MBBS, DNB (OBSTETRICS AND GYNAECOLOGY)]
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NOTE:

 $\bullet\,$ Ideal gestational age for TIFFA is between 18-20 weeks POG. Limitations of USG -

- USG has potency of detecting structural malformations in up to 60-70% of cases depending on the organ involved.
- Functional abnormalities (behavior/ mind/hearing) in the fetus cannot be detected by USG.
- Fetal hand and foot digits are difficult to count due to variable positions.
- Conditions like trisomy 21 (Down syndrome) may have normal ultrasound findings in 60% cases as reporting in literature. Serum screening (double marker at 11-14 weeks/quadruple or triple test at 15-20 weeks) will help in detecting more number of cases (70% by triple test/87% by quadruple and 90% by double test).
- Few malformations develop late in intrauterine life and hence serial follow up scans are equaled to rule out their presence.
- Subtle anomalies/malformations do not manifest in intrauterine life and may be detected postnatally for the first time. Surgically correctable minor malformations (cleft/lip/palate/polydactyly) might be missed in USG.

Clinical correlation is necessary.

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Transcribed By: Purvi

*** End Of Report ***



