

## **The Sound Of Babies... 3D - 4D ULTRASOUND!**

**Excellence in  
ULTRASOUND  
@ VITAL**

*Prenatal diagnosis of fetal abnormalities has become one of the most important aspects of maternal fetal medicine.*

*Patients and referring physicians heavily rely on correct diagnosis of potential congenital abnormalities.*

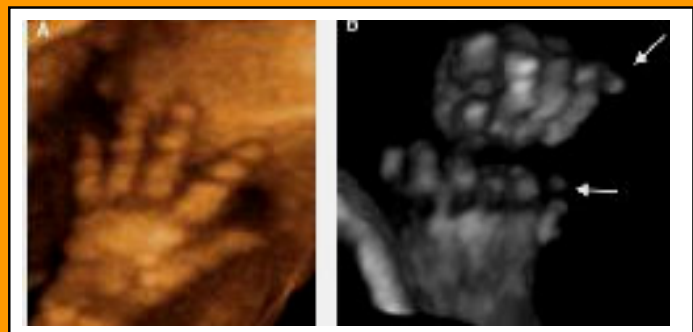
**3D / 4D USG has revolutionized the field of imaging with its ability to use multiple planes in which the area of interest can be displayed.**

**Advantages:**

- Accurate diagnosis about fetal abnormalities
- Improved understanding of fetal anatomy by parents
- Improved maternal fetal bonding.

The importance of reassurance provided by 3D/4D USG in the absence of any fetal abnormalities is a blessing in disguise especially in high-risk families

**3D images are helpful in assessing motion of the ankles, opening & closing of the mouth, movement of the arms & legs & counting digits of the hands.**

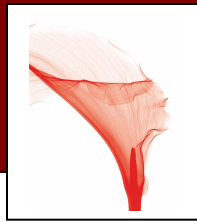


**REAL TIME  
4D USG  
IS  
LIVE ACTION  
3D!**



### **VITAL PREGNANCY SONOGRAPHY PACKAGES**

- DATING SCAN at 6 – 8 wks
- FIRST TRIMESTER at 11 – 14 wks SCREENING
- ANOMALY SCAN at 18 - 20 wks
- 3D / 4D SCAN at 18 - 20 wks
- 3D / 4D SCAN at 28 - 34 wks
- COLOUR DOPPLER at 30 - 40 wks



- **Cleft Lip & Palate** is one of the most common congenital abnormality & is highly associated with other congenital abnormalities
  - 3D / 4D USG is a useful tool in **correct identification & determination of the extent** of facial clefting
  - **Accuracy** of diagnosis of facial clefting is higher using 3D US in comparison with 2D USG
- A clear view of a fetal face with anomalies has a tremendous role in **making decisions** regarding **continuation of pregnancy, bonding, & conceptualization of the postnatal surgical care of the newborn***

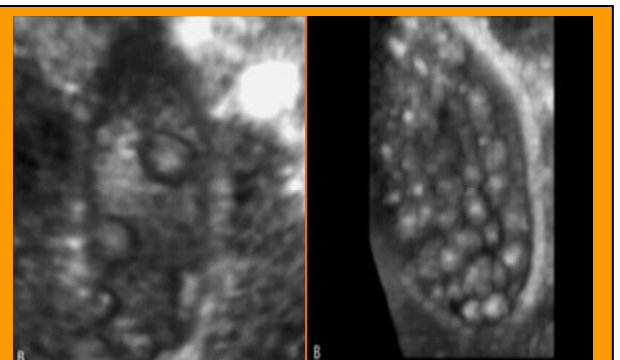
### 3D / 4D APPLICATIONS IN ABDOMEN:

- Bladder – Masses, Polyps, Diverticula, Calculi.
- Prostate - BPH
- Vessels – Dissection, Plaques
- Gall bladder – Mass, Calculi, sludge
- Stomach – Rugal folds, masses
- Volumes of liver masses, gallbladder, or gallstones.
- Cysts & Collections

3-D is particularly helpful in evaluation for **Club Foot**, both because the ankle can be displayed & evaluated in a standard orientation & movement of the ankle can be assessed using 4-D



### **Urinary Bladder Masses**



**GB Polyps**

**GB Stones**

Pg: 2

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