

Overview of OB measurement

Clinical Application Team

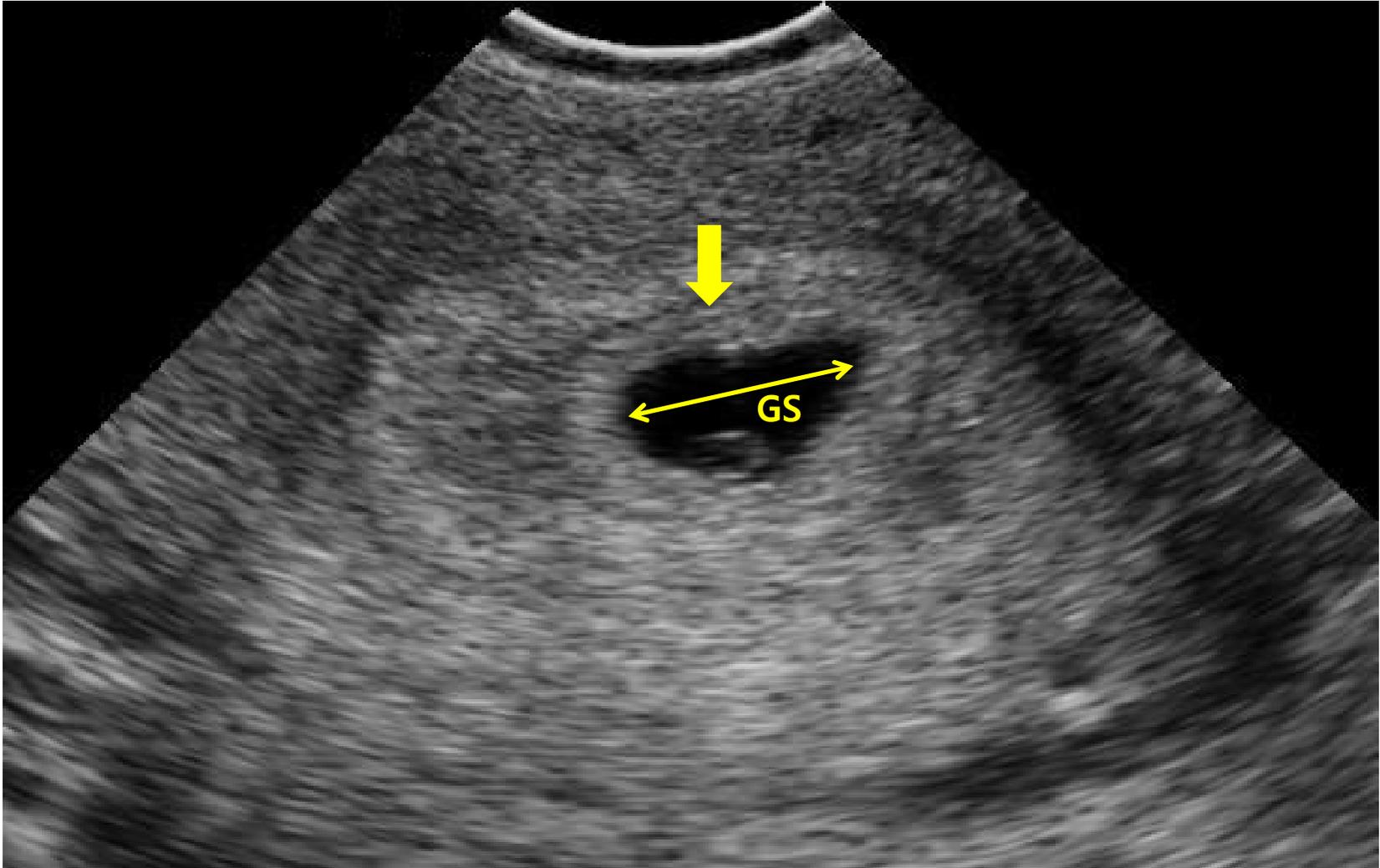


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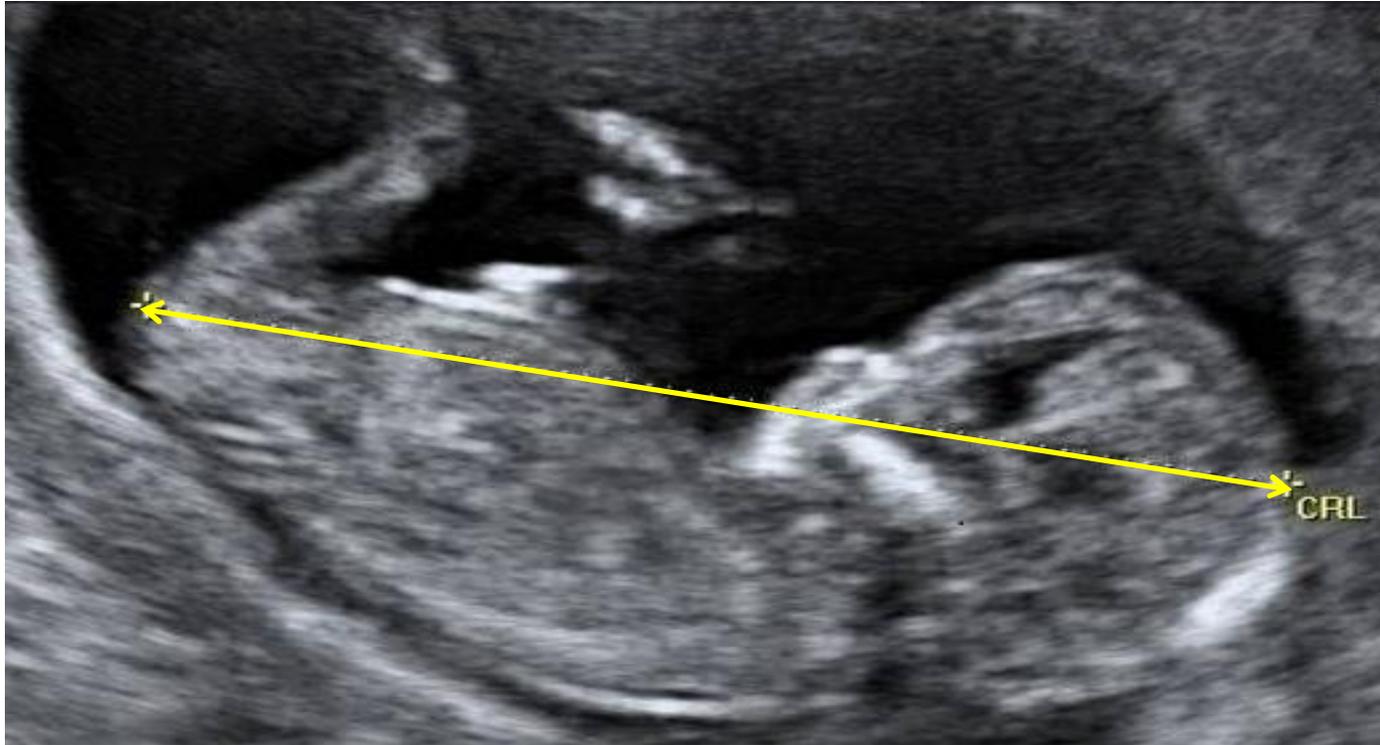
- “ **Location of GS**
- “ **Identification of embryo or fetus**
- “ **Fetal number**
- “ **Fetal cardiac activity**
- “ **CRL (Crown – rump length)**
- “ **Uterus and adnexae structure**

1st trimester

- “ Gestation sac – 4w
- “ Yolk sac – 5w
- “ Embryo – 6w
- “ Heartbeat – 6⁺³ w ~ (120~160bpm)
- “ CRL – 8~12w
- “ NT – 11~13⁺⁶w + nasal bone



Crown-Rump Length

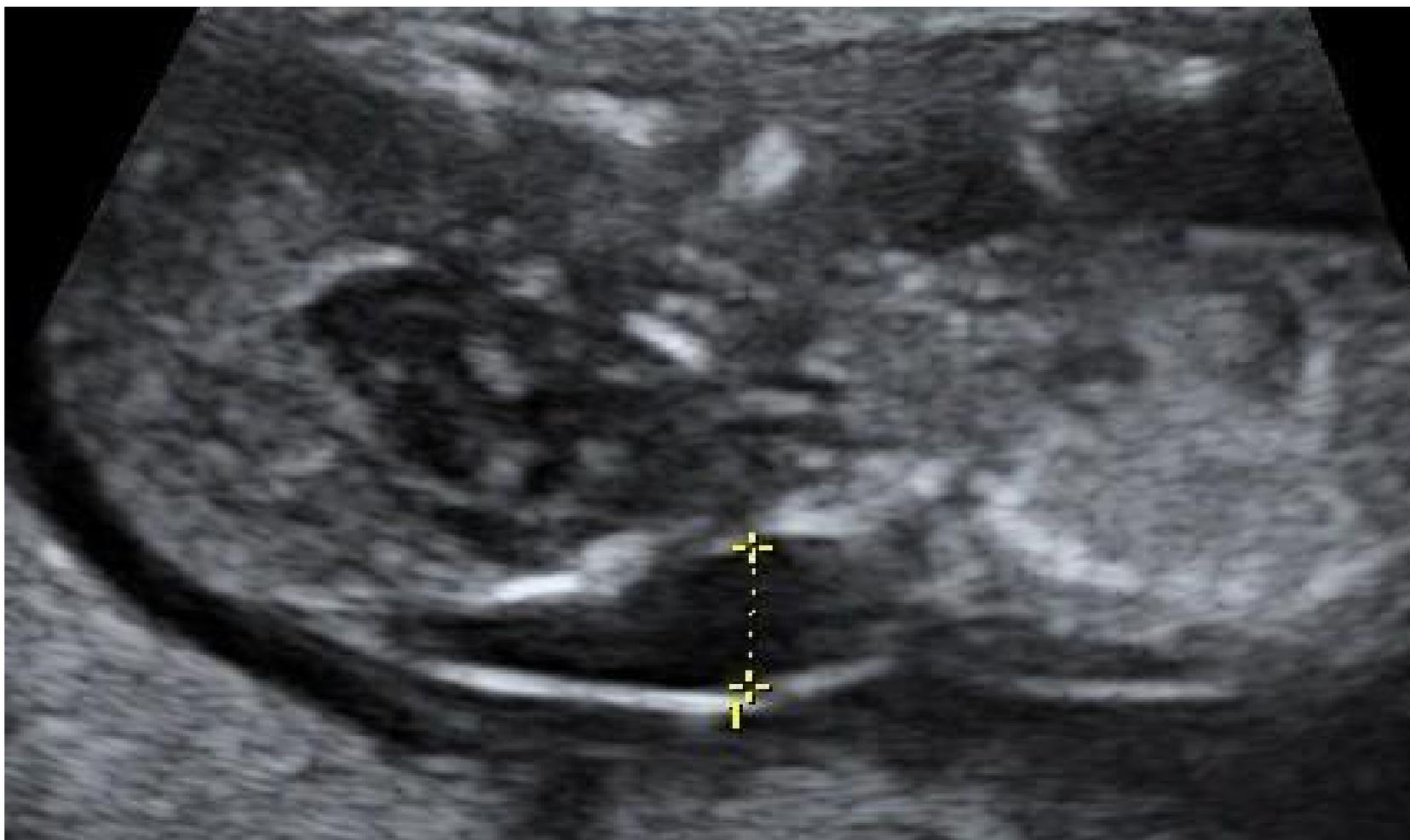


- ✓ 7~12 week
- ✓ 가장 정확한 Gestational Age 측정법

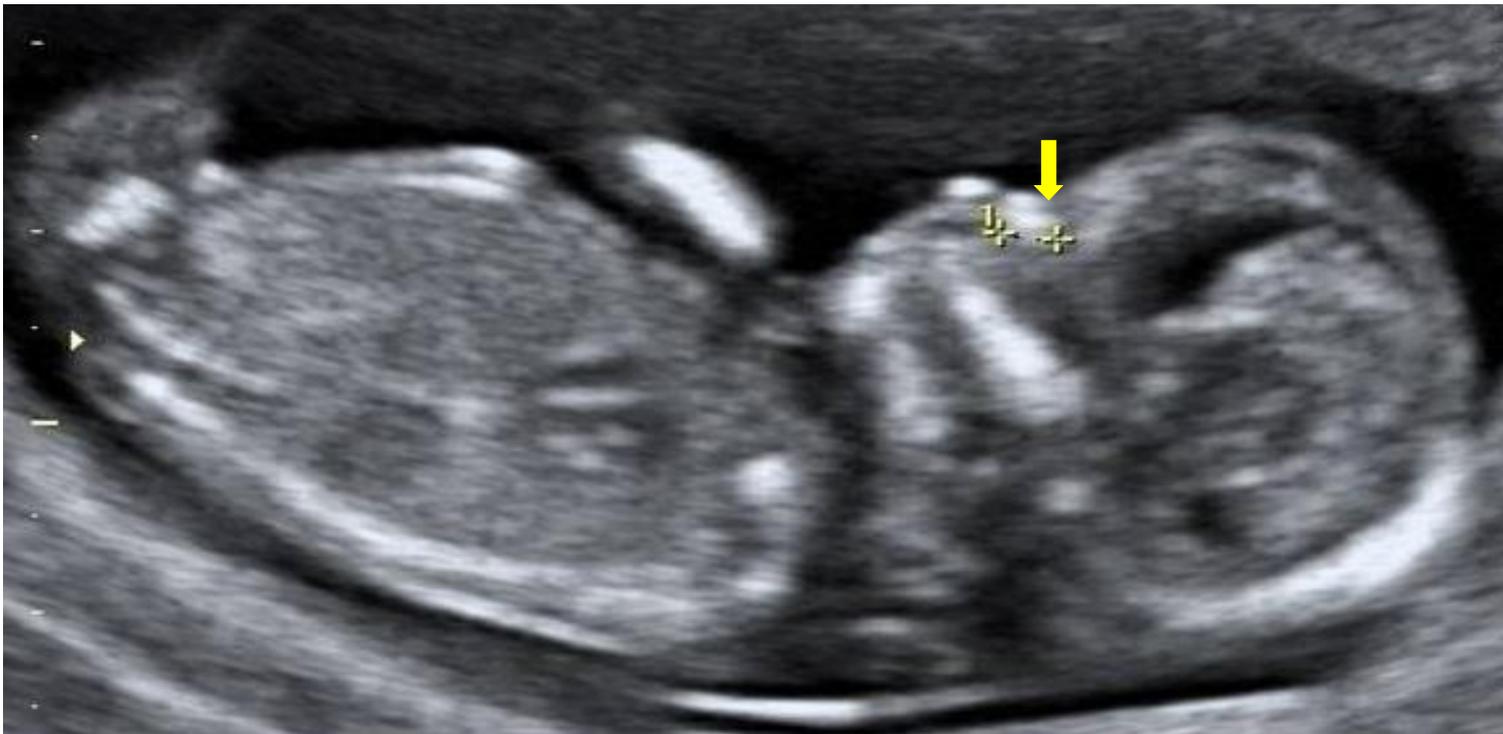


- ” 11~13⁺⁶w
- ” True Sagittal line
- ” Inner-Inner
- ” 2.5~3mm
- ” 염색체 이상 선별

NT



Nasal bone



✓ 2~3mm정도 이며, 유무의 판별이 중요함.

✓ **항상 확인**

” **BPD (Biparietal diameter)**

” **HC (Head Circumference)**

” **AC (Abdominal Circumference)**

” **FL (Femur Length)**

✓ **18~22w screening ultrasonography**

“ **Skull & brain**

“ **Face**

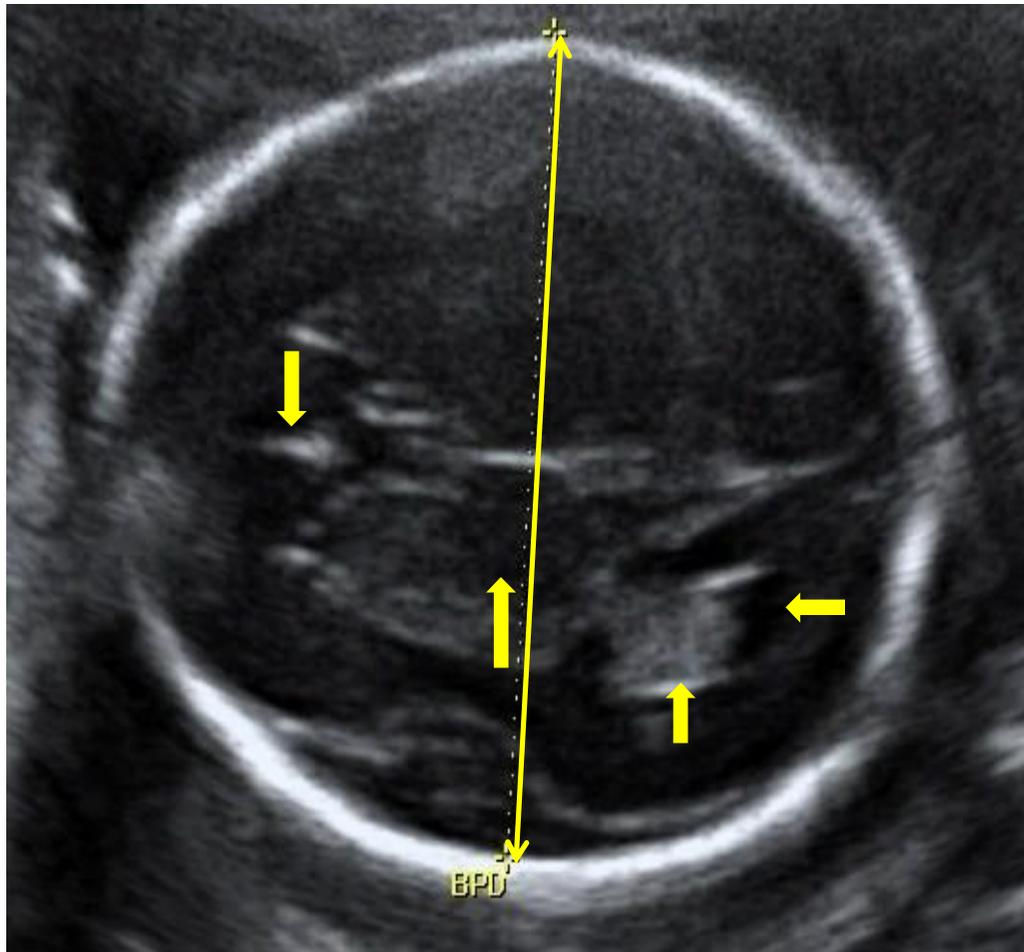
“ **Heart**

“ **Adbomen**

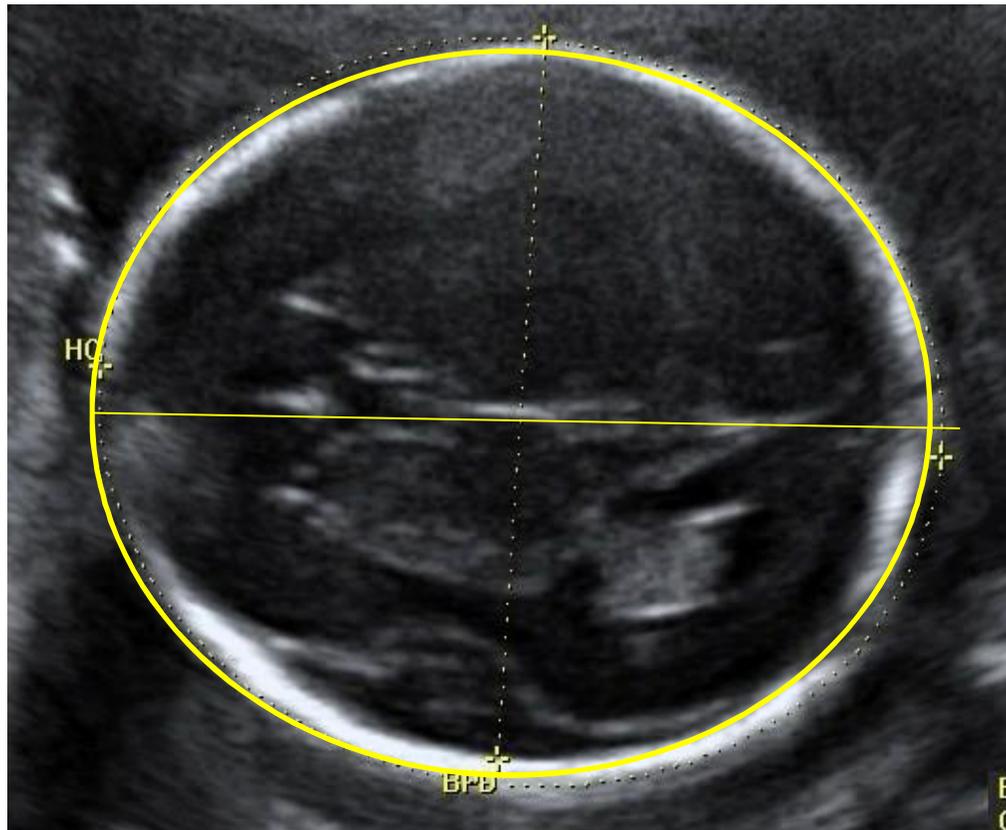
“ **Lone bone**

“ **AFI(7~25cm)**

- ✓ 기본적으로 확인해야 하는 것
 - “ Head shape
 - “ Lateral Ventricle
 - “ Cavum Septum Pellucidum
 - “ Thalamus
 - “ Cerebellum
 - “ Cisterna magna, corpus callosum..

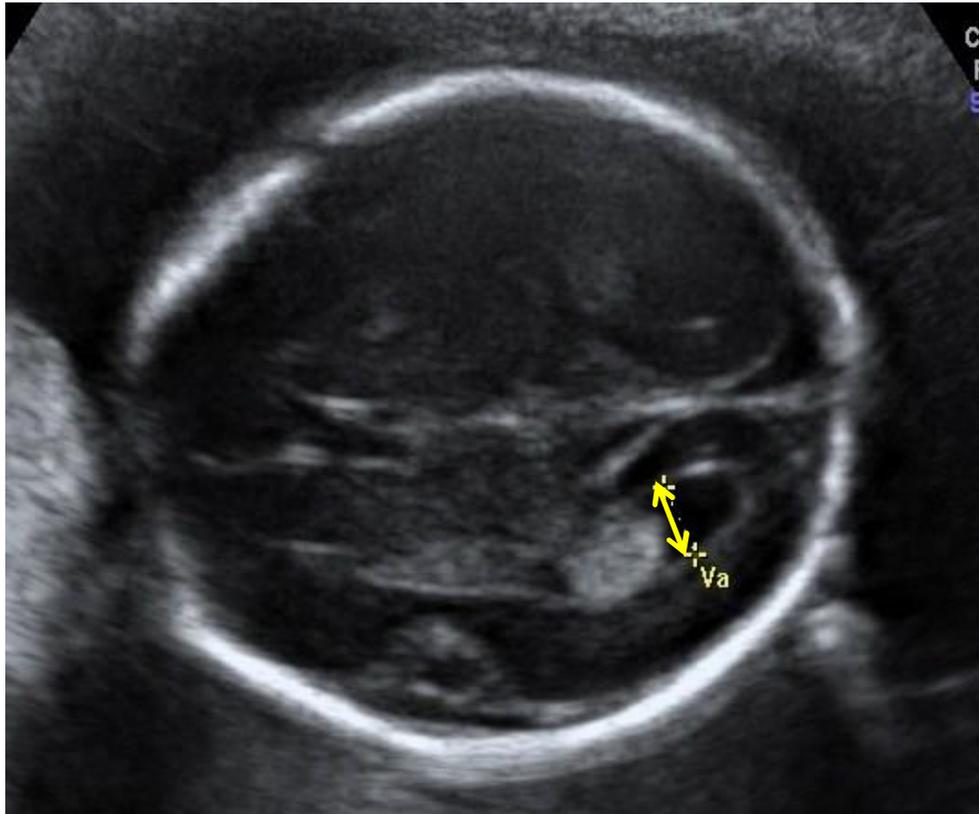


- ” Outer-Inner
- ” Symmetric plane
- ✓ Falx, CSP
- ✓ Thalamus
- ✓ Lateral Ventricle
- ✓ Choroid flexus



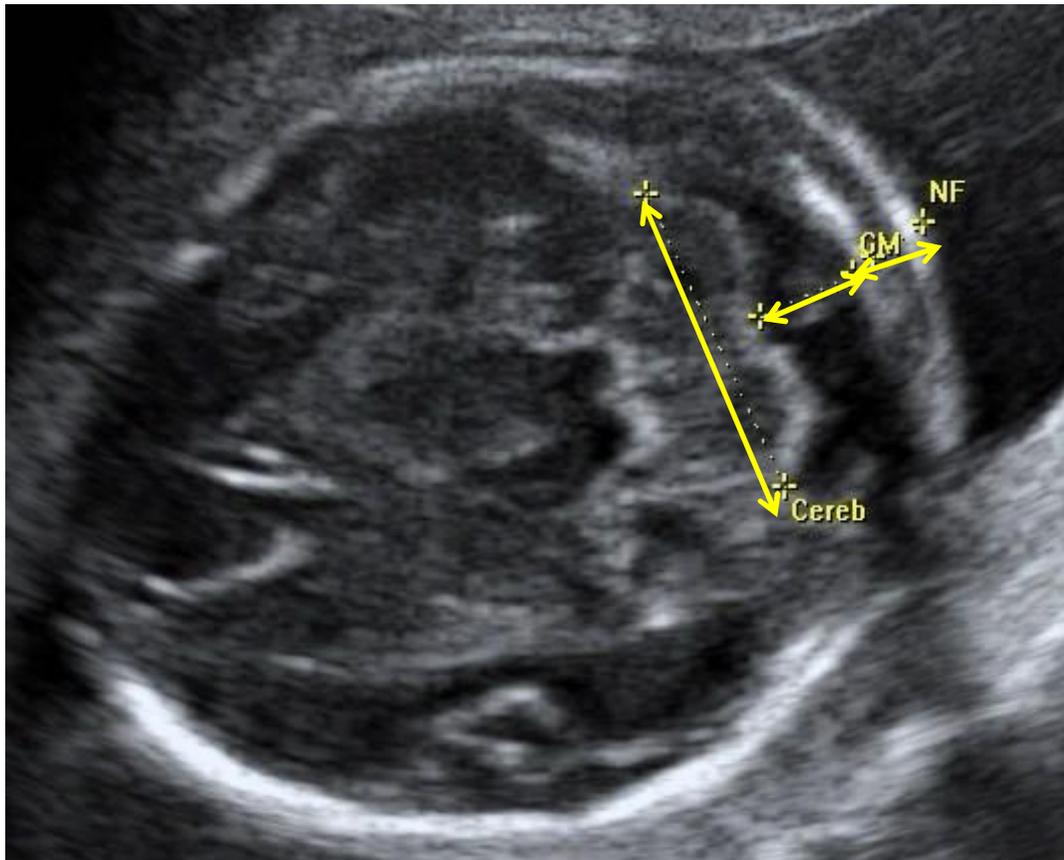
**“Cephalic index
= $BPD/OFD * 100$
(75~85)**

Lateral Ventricle



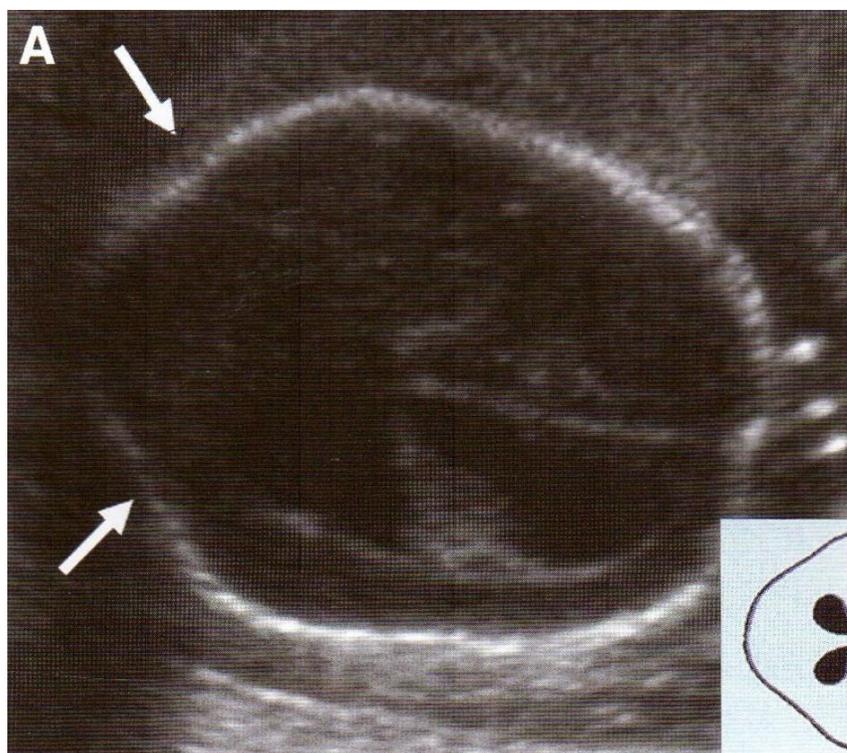
- ” Atrium의 choroid plexus 옆에서
- ” Inner-Inner 측정
- ” 임신 후반기까지 10mm정도

Cerebellum & CM

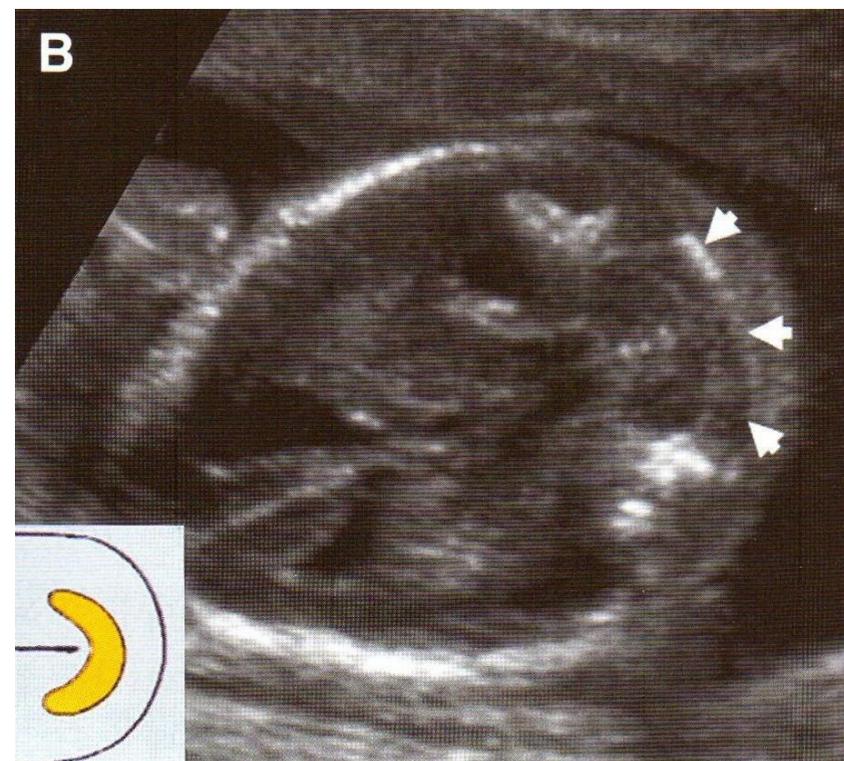


- ” Cerebellum
 - 임신 주수와 비슷한 크기
- ” CM-1cm
- ” NF-15~21w (6mm)

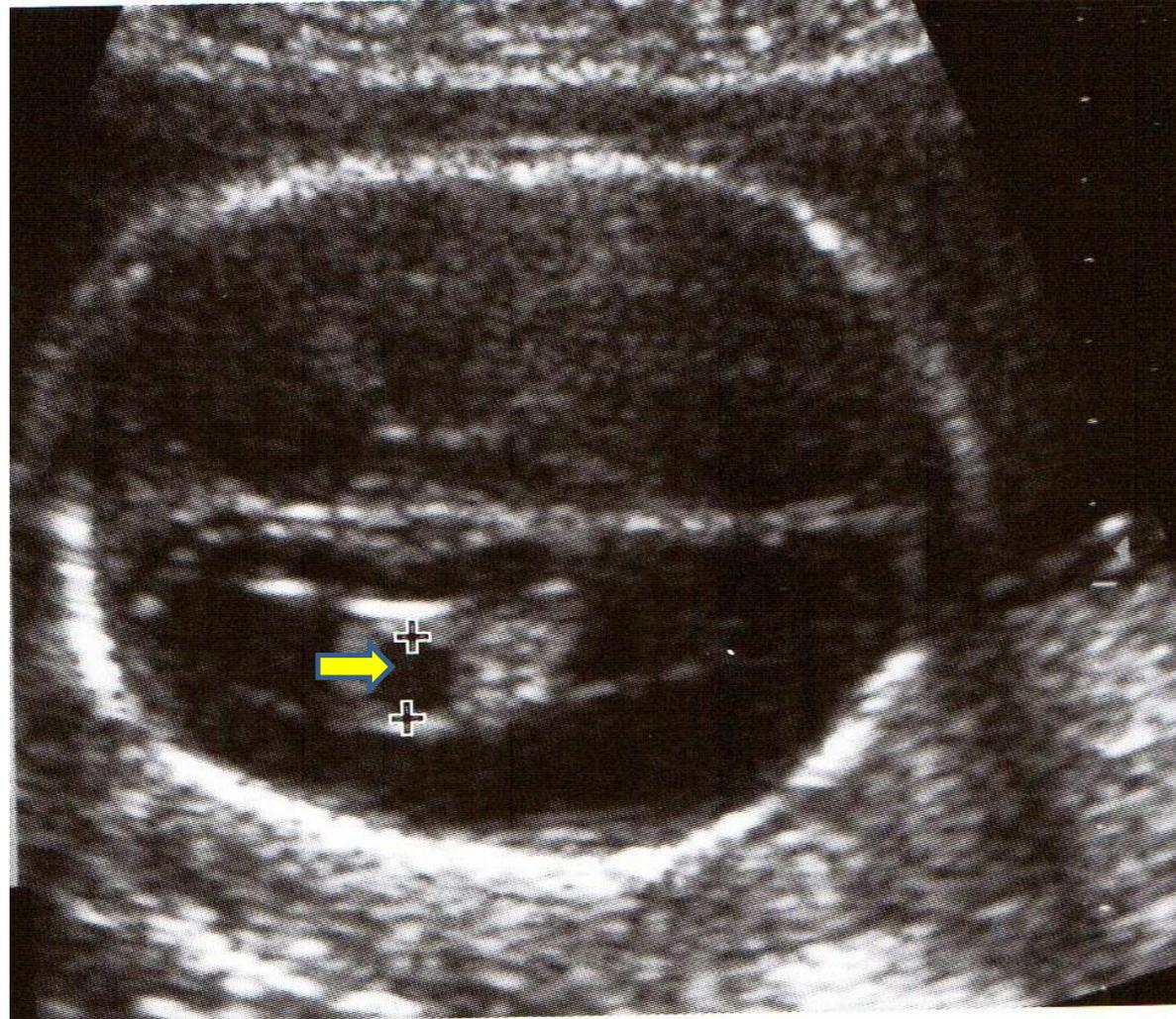
Lemon sign



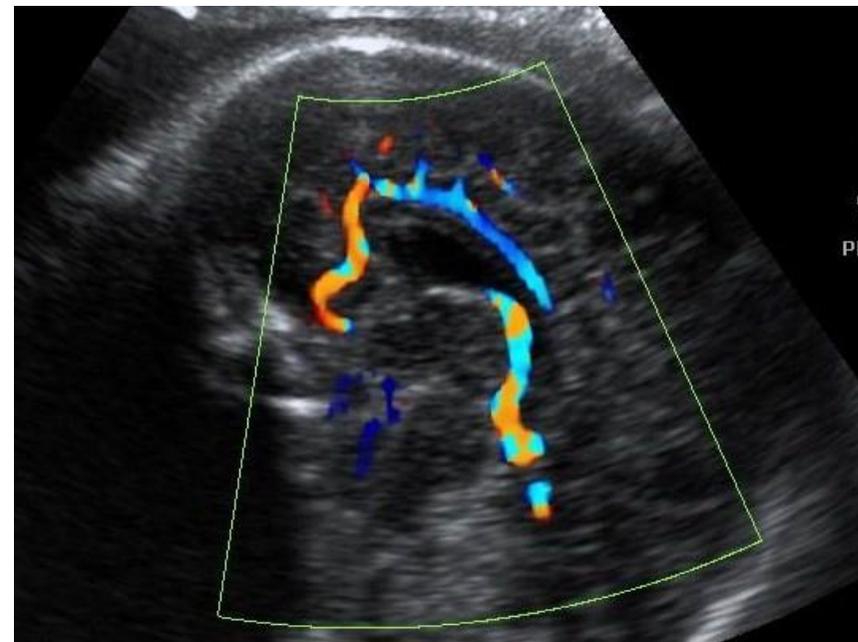
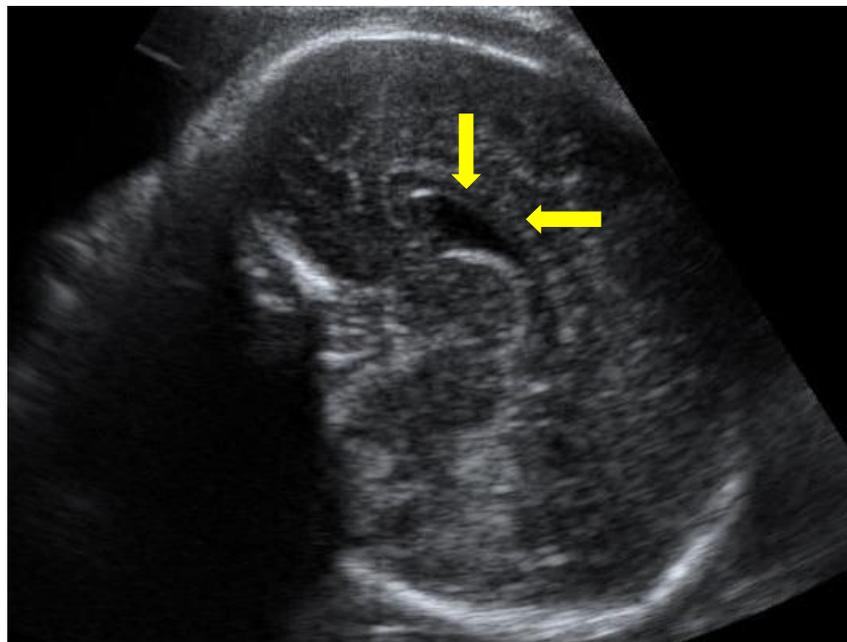
Banana sign



Choroid plexus cyst



Corpus Callosum



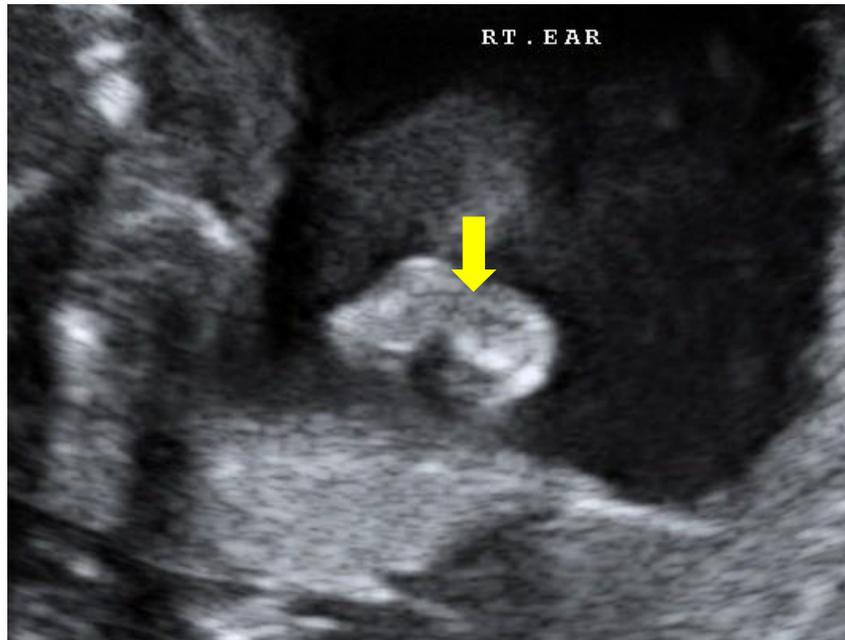
Nose, lip, chin



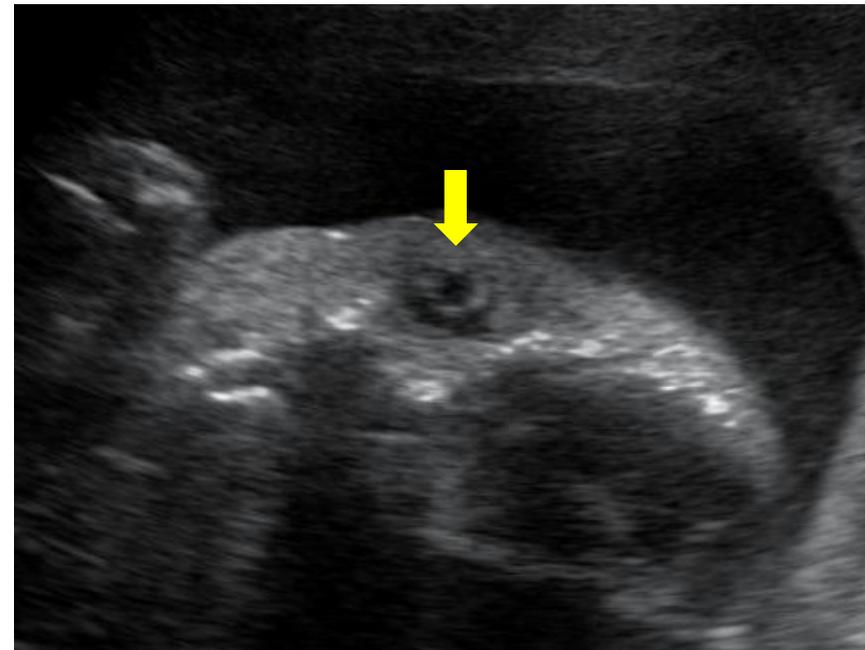
Profile



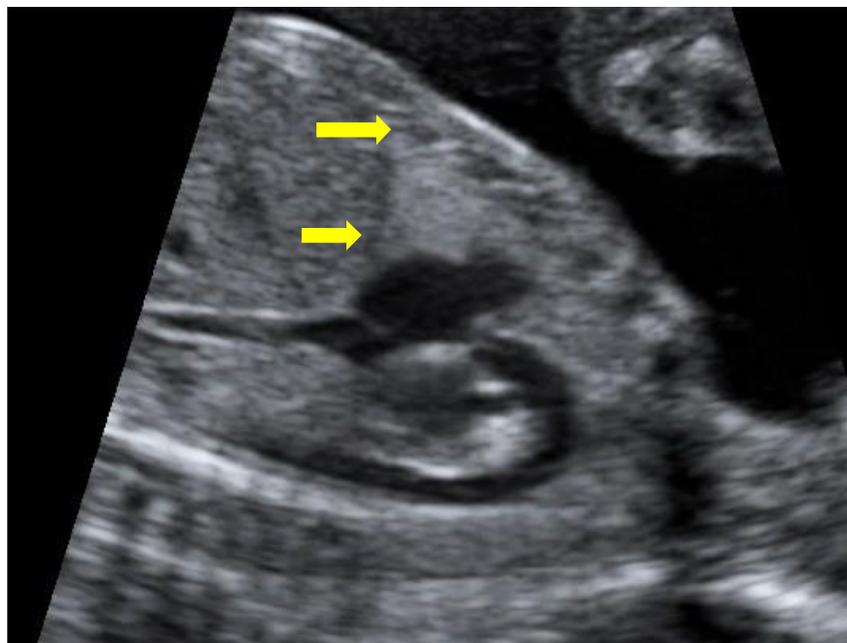
Ear lobe



Eyeball



Diaphragm & Spine



✓ **확인해야 하는 view**

“ **4ch**

“ **3vs**

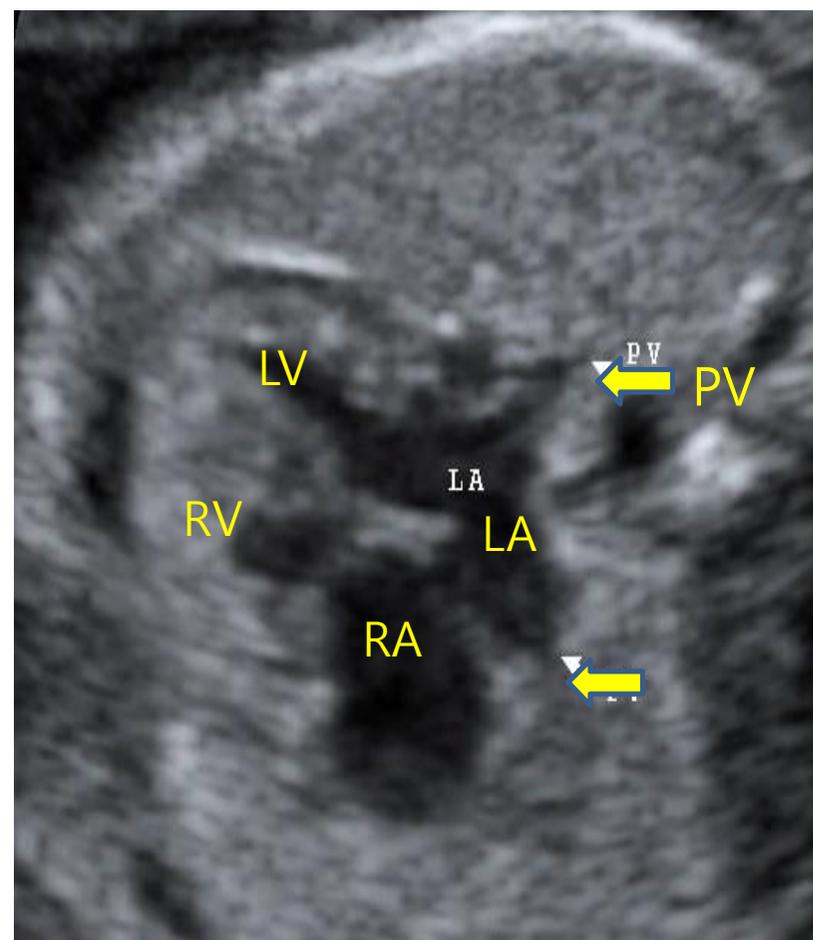
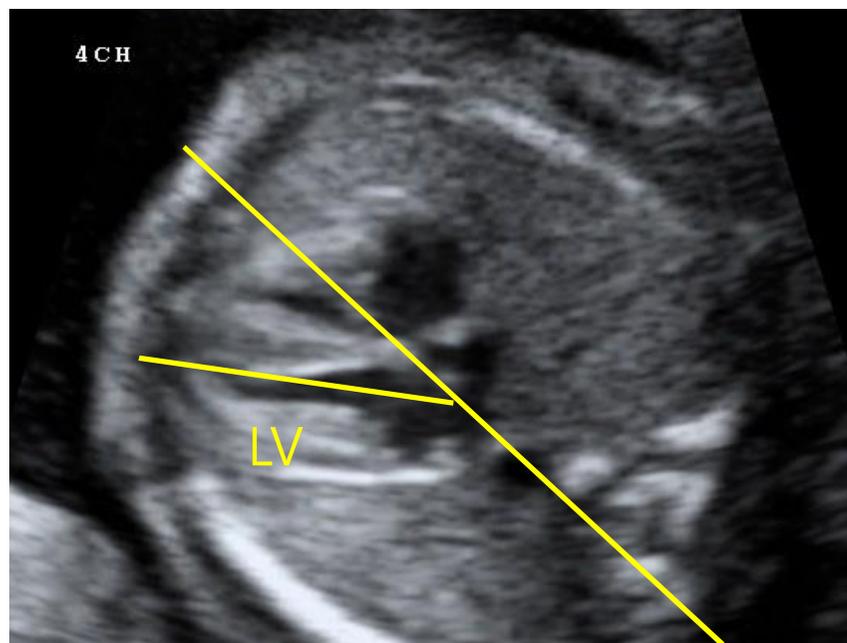
“ **LVOT**

“ **RVOT**

“ **Aortic arch**

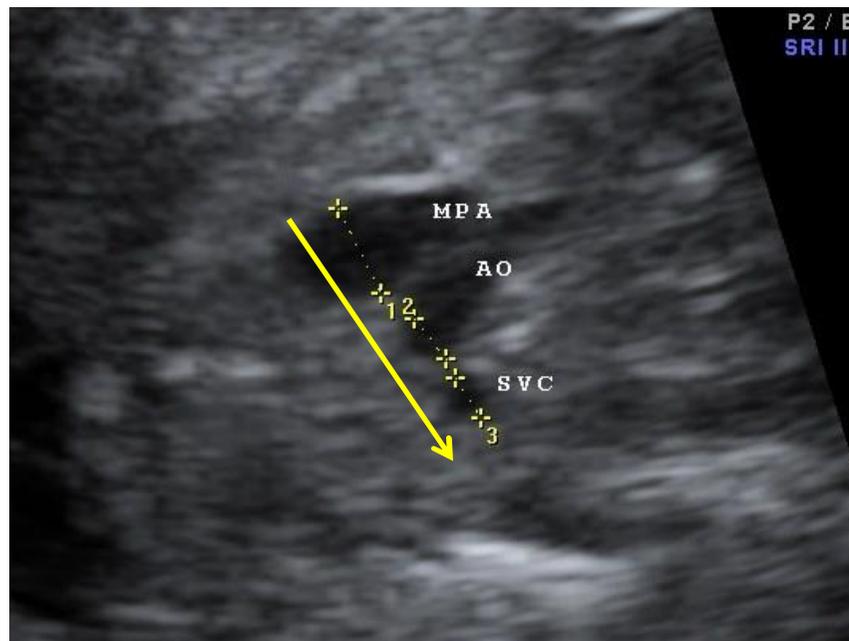
“ **Ductal arch**

Heart : 4ch



Heart : 3vs , Thymus

3VS

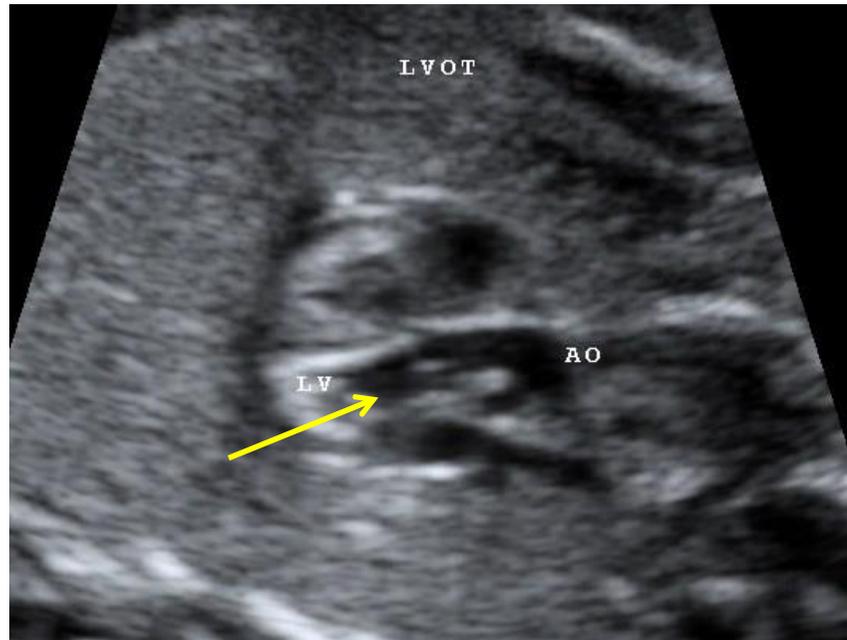


Thymus

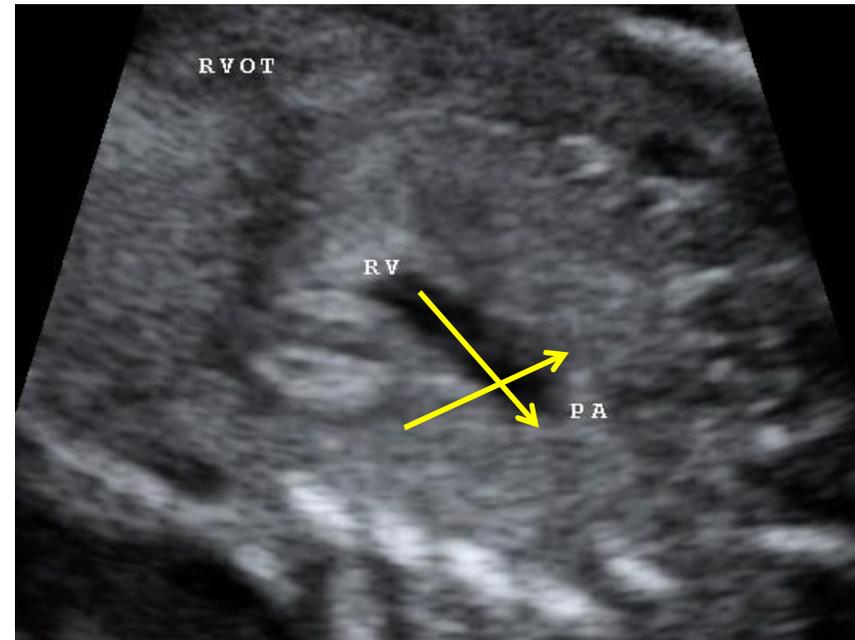


Heart : LVOT, RVOT

LVOT



RVOT

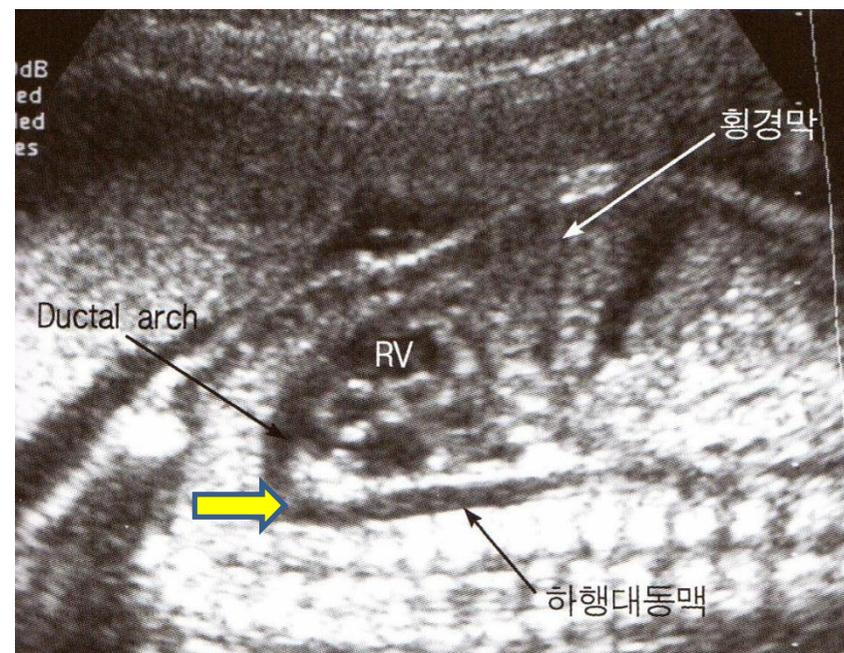


Heart : Aortic arch, Ductal arch

Aortic arch

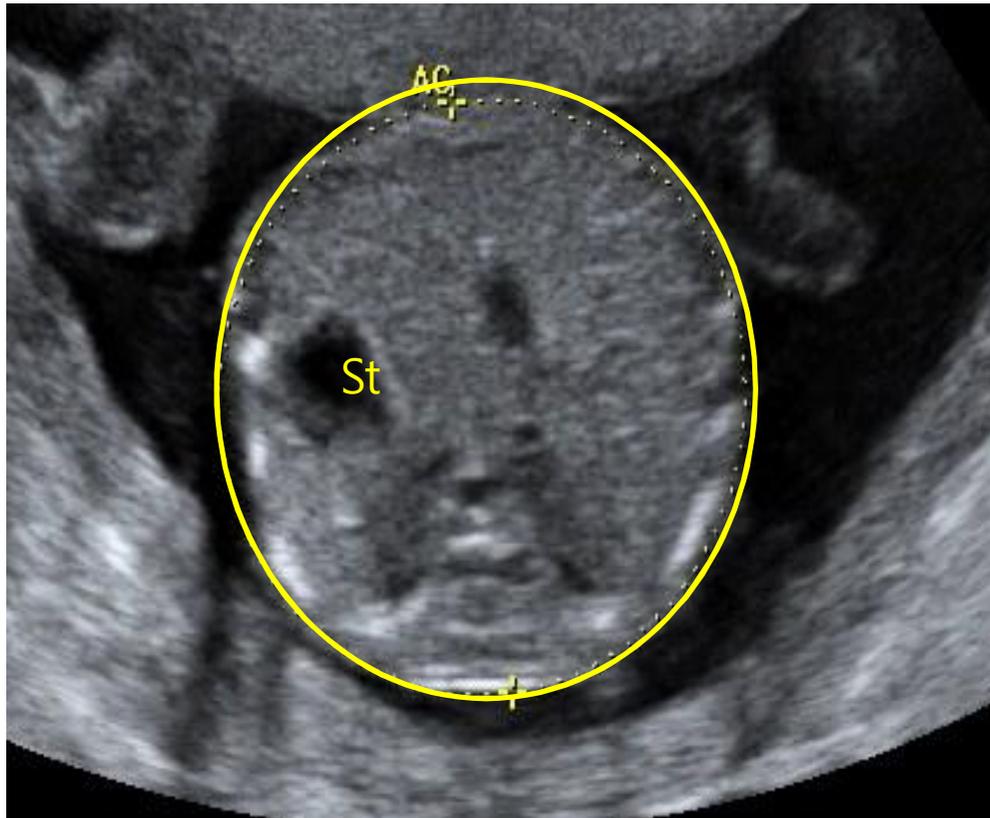


Ductal arch



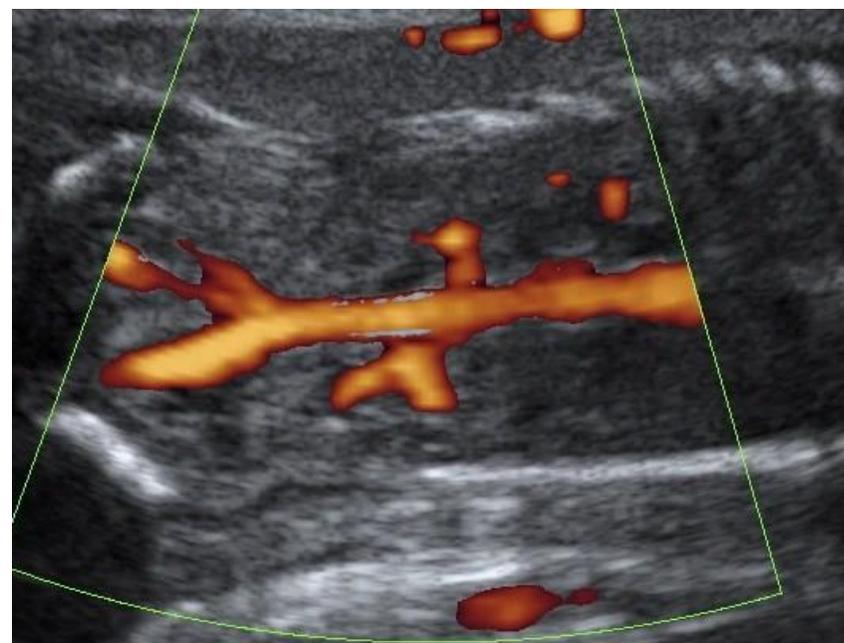
- “ **Stomach**
- “ **Bowel (dilatation, echo)**
- “ **Liver, GB**
- “ **Kidney (renal pelvis)**
- “ **Bladder (umbilical artery)**
- “ **Umbilical insertion**

Abdominal Circumference

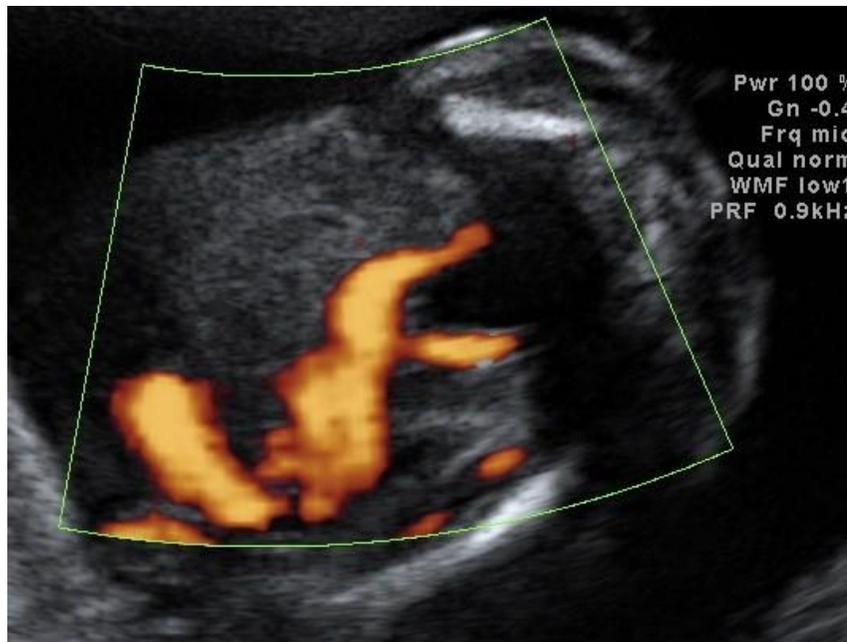


- " PV bifurcation
- " Spine
- " Stomach
- " Outer line
- " \exists variable

Kidney



Bladder & Umbilical insertion

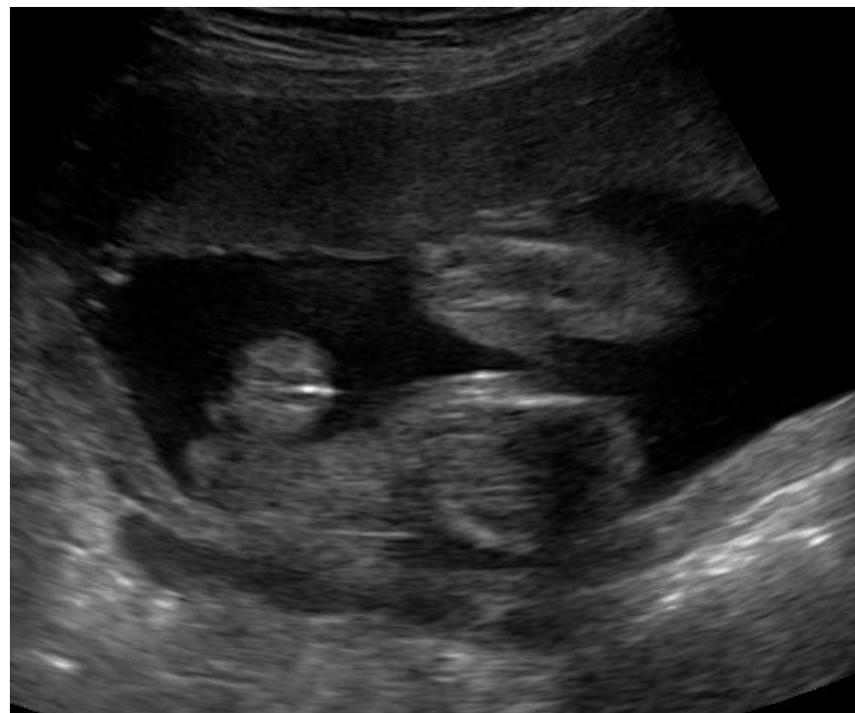


Gender

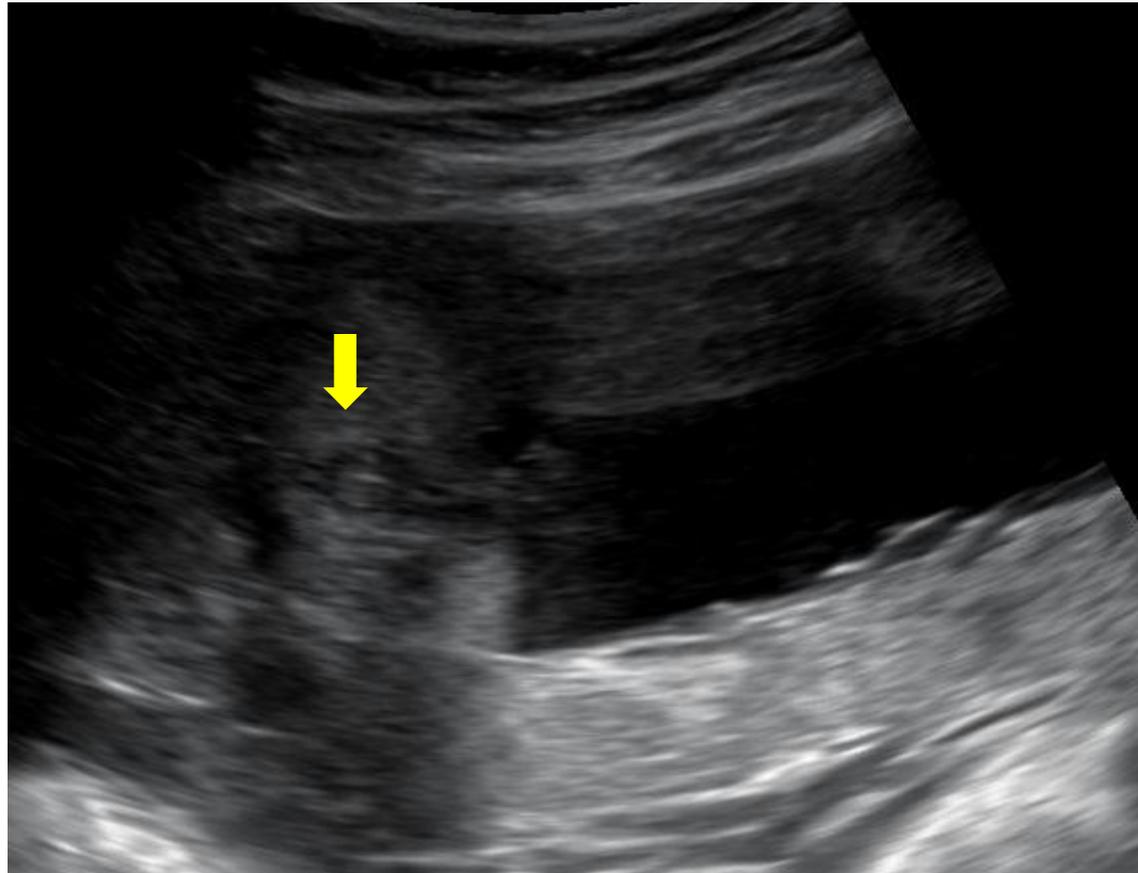
Male



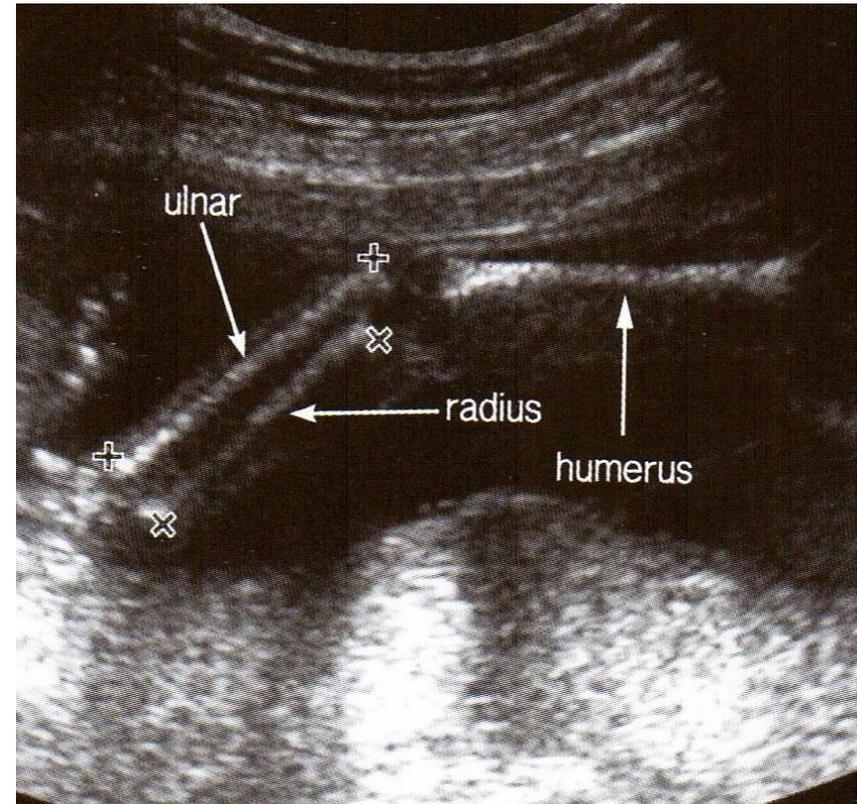
Female



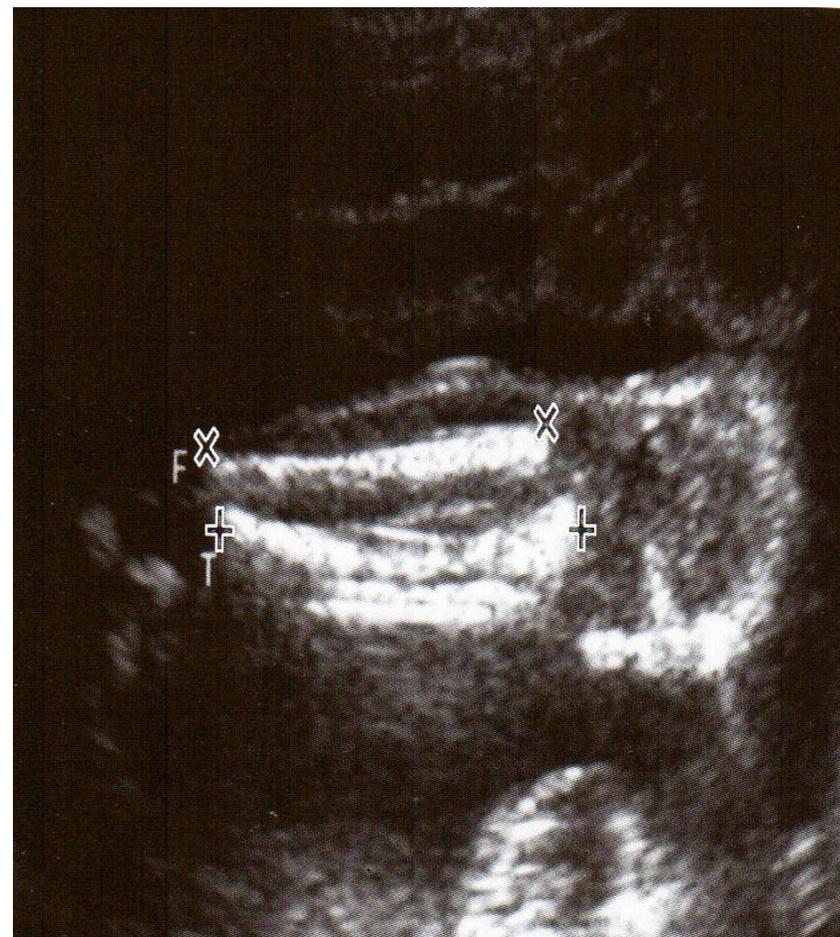
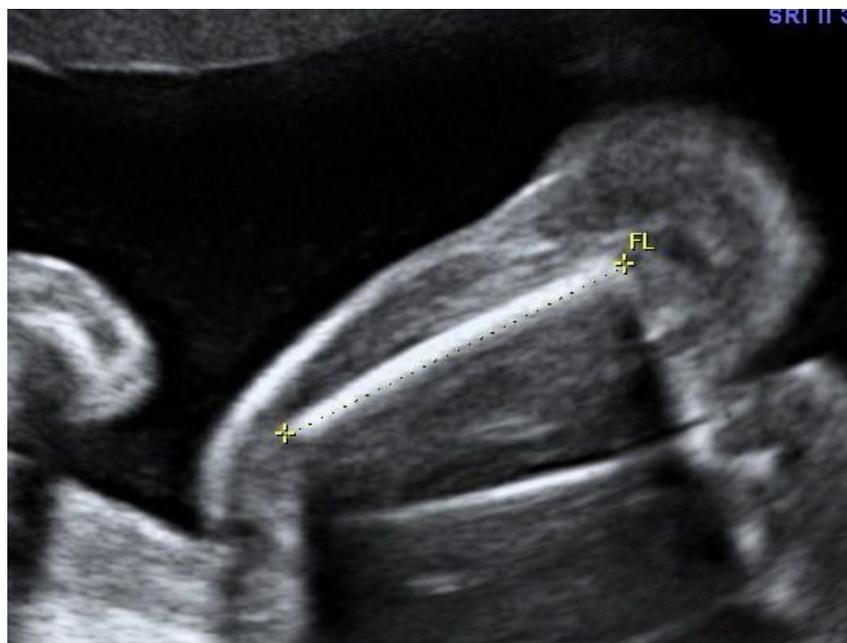
Anus



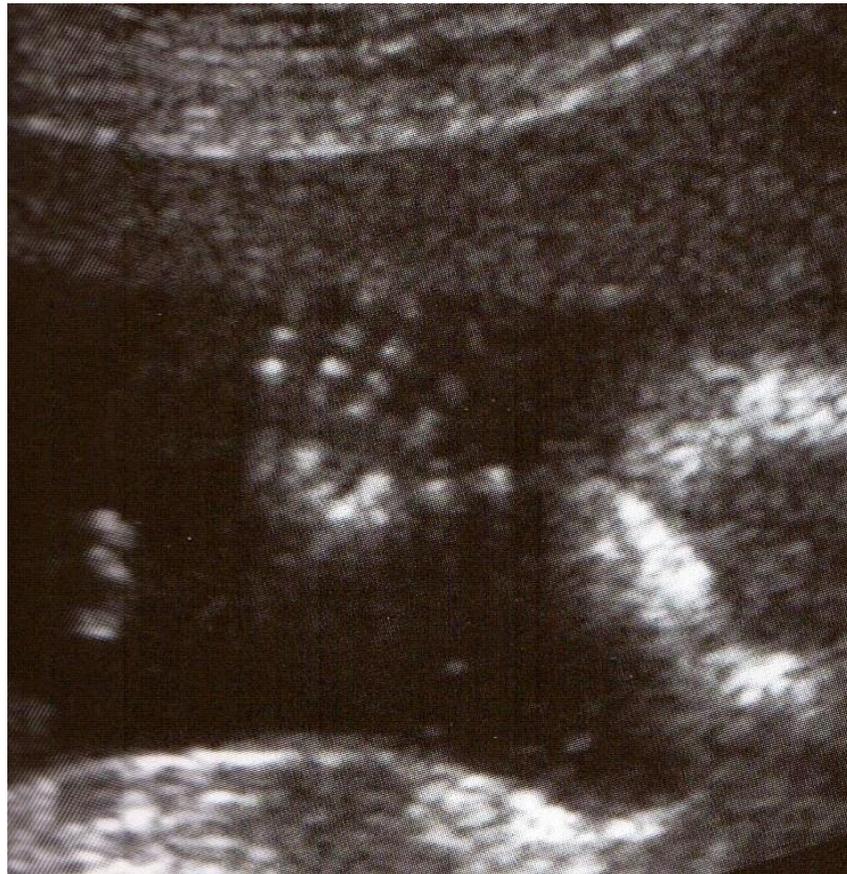
Extremity : Upper

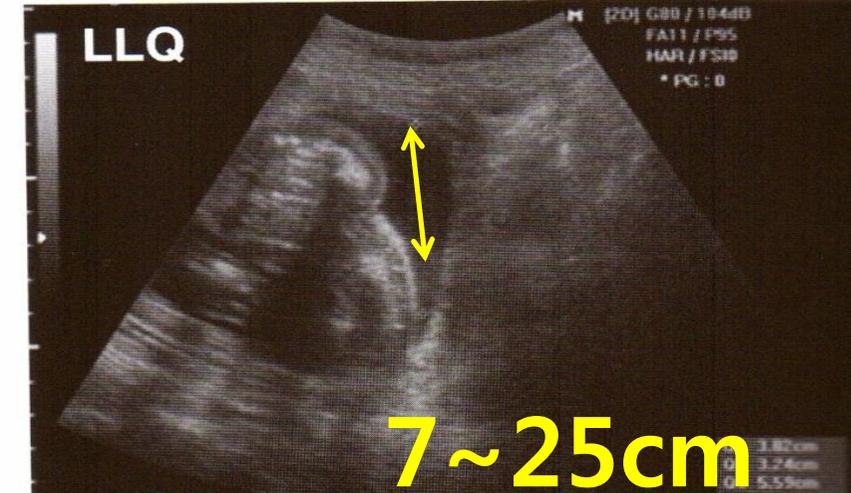
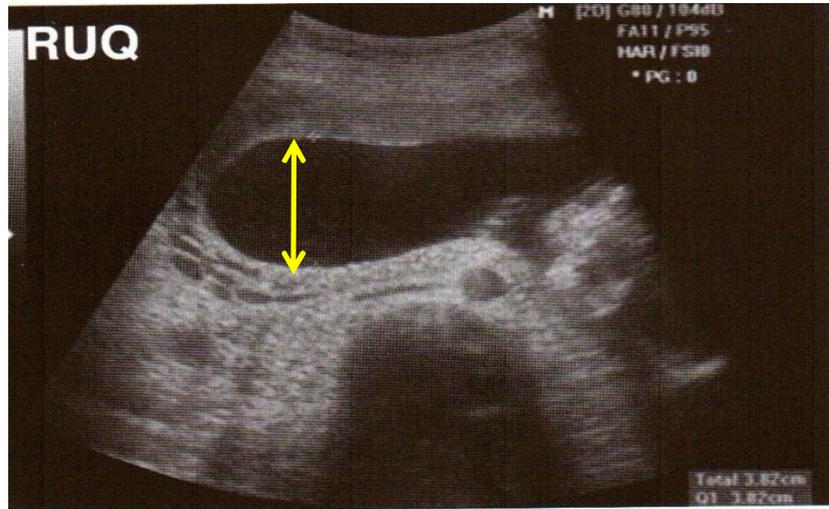


Extremity : Lower



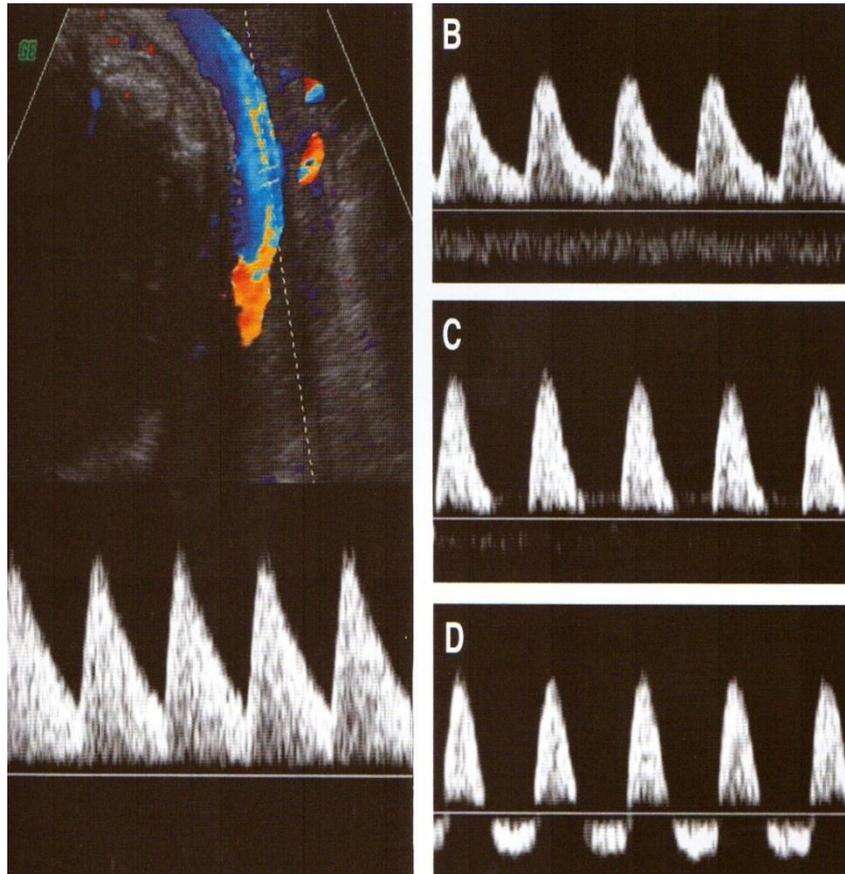
Hands & Feet





Placenta & Cervix





- ” Placenta 가까운 UA
- ” 초기에는 높은 S/D(4) – 40w(2)
- ” ED값이 낮을수록 태아-태반혈관의 저항이 증가한 것으로 태반기능의 소실과 비례

Thank you!



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