# ASUS Portable Ultrasound Glossory

## M – M mode measurement

**Ventricle Measure**

- LVIDd : Left ventricular internal diameter end diastole
- LVIDs: Left ventricular internal diameter end systole
- EDV: End diastolic volume, amount of blood in the ventricle during diastole
- ESV: End systolic volume, amount of blood in ventricle after systole
- EDVIndex: End-diastolic volume index, referred to as EDV corrected for BSA
- ESVindex: End- systolic volume index
- SV: Stroke volume, volume of blood pumped from the heart in one cycle of diastole and systole, is affected by Preload, contractility and Afterload
- CO: Cardiac output, quantity of blood pumped per minute through the aorta and into the peripheral circulation, is proportional to (Arterial pressure / Total peripheral resistance)
- EF: Ejection fraction, reflects the percentage of blood ejected from the ventricle
- FS: Fractional shortening

## OB - OB calculations

- GA: Gestational Age.
- Fetal age: Conceptional age.
- EFW: Estimated fetal weight.
- AUA: Arithmetic ultrasound age.
- DOC: Date of conception.
- LMP: Last menstrual period.
- EDD: Estimated due date.

**In Early OB**

- CRL: Crown-rump length
- GS: Gestational sac.

**In Mid-late OB**

- AC: Abdominal circumference.
- HC: Head circumference.
- FL: Femur length.
- BPD: Biparietal diameter.

**References**


1. Early OB calculations: Hadlock 1992. Fetal Crown-Rump Length: Reevaluation of Relation to Menstrual Age with High-Resolution Real-Time US.
2. Mid-late OB calculations: Hadlock 1984 Hadlock F.P, Deter R.L, Harrist R.B. and Park S.K, Estimating fetal age: computer-assisted analysis of multiple fetal growth parameters, Radiology, 152, pp 497-501, 1984
3. EFW equations: EFW by AC, BPD FL, and HC: Hadlock 1985 Hadlock F.P, Harrist R.B, Sharman R.S, Deter R.L, Park S.K, Estimation of fetal weight with the use of head, body, and femur measurements–a prospective study, Am.J.Obstet.Gynecol., 151, pp 333-337, 1985

## PW - PW mode measurement

**The glossary of "Auto Measure"**

- HR (bpm) : Heart rate
- PSV (cm/s) : Peak systolic velocity
- EDV (cm/s) : End diastolic velocity
- PI : Pulsatility index (of Gosling)
  PI = (PSV–EDV)/MV
  MV (cm/s) : Mean velocity
- RI : Resistance index (of Pourcelot)
  RI = (PSV–EDV)/PSV
- VTI (cm) : Velocity-time integral
- TAV Max (cm/s) : The maximum of time-averaged velocity
- S/B : The average RI of a cycle
- SD : Systolic/Diastolic Ratio
  SD = PSV/EDV
- ACCL (cm/s²) : The acceleration index
  ACCL = (PSV – EDV)/ACCT
- ACCT (s) : The time from the lowest (EDV) to the highest (PSV)
- VFM (ml/min) : Volume flow per minute
- VFC (ml) : Volume flow per cycle
- VFM Max (ml/min) : The maximum of volume flow per minute
- Diam (mm) : Diameter

**The glossary of measure tool "PW V, T, HR"**

- T (s) : Time
- HR (bpm) : Heart rate
- Range (cm/s) : The range of flow velocity

**The glossary of measure tool "RI, S/D"**

- PSV (cm/s) : Peak systolic velocity
- EDV (cm/s) : End diastolic velocity
- S/D : Systolic/Diastolic Ratio
  SD = PSV/EDV
- RI : Resistance index (of Poucelot)
  RI = (PSV–EDV)/PSV

**The glossary of measure tool "PI"**

- PSV (cm/s) : Peak systolic velocity
- D (cm/s) : End diastolic velocity
- Area (cm²) : Blood vessel cross-sectional area

- Diam (mm) : Diameter
- PI : Pulsatility index (of Gosling)
  PI = (PSV–EDV)/MV
  MV (cm/s) : Mean velocity
- VFM Max (ml/min) : The maximum of volume flow per minute
- TAV Max (cm/s) : The maximum of time-averaged velocity

**The glossary of measure tool "VTI"**

- VTI (cm) : Velocity-time integral

## CARDIAC - Cardiac measurement in B mode

- BSA: Body Surface Area
  = (Height * Weight / 3600)^½
- SV (ml): Stroke volume
  = EDV - ESV
- SI (ml/m²): Stroke volume index
  = SV / BSA
- CO (l/min): Cardiac output
  = SV * HR / 1000
- CI (l/m/m²): Cardiac Index
  = CO / BSA
- EF (%): Ejection fraction
  = SV / EDV * 100%