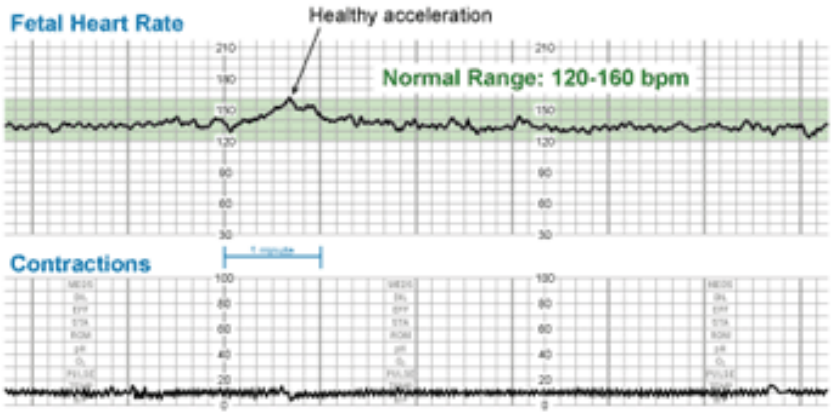
Fetal Surveillance

MADE EASY FOR ERPM

Fetal Monitor Patterns

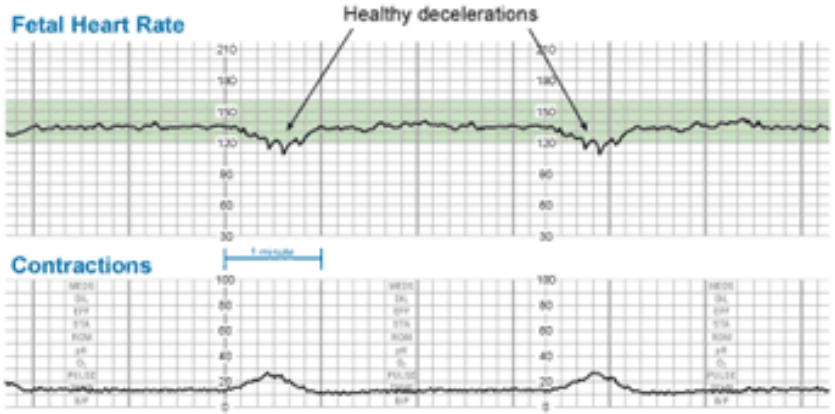


Reassuring Pattern

Baseline fetal heart rate is 120-160, preserved beat-to-beat and long-term variability.
Accelerations last for 15 or more seconds above baseline, and peak to 15 or more bpm.

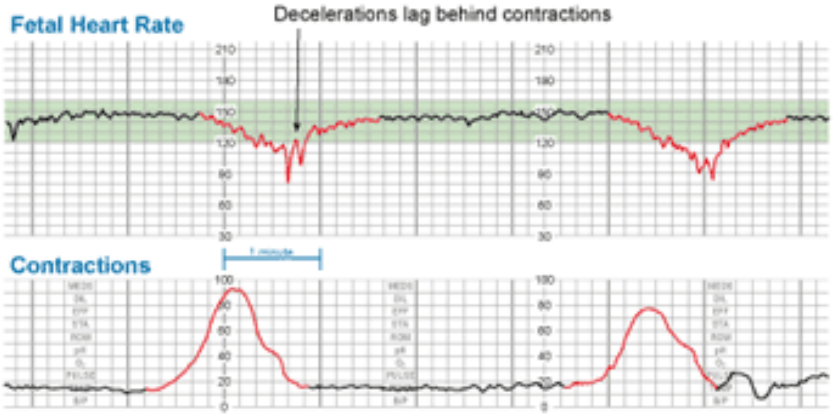
Elevated Heart Rate: Tachycardia

Baseline fetal heart rate is above 160, possible onset of decreased variability.
Usually due to fetus lacking nourishing blood supply, or resultant effects of some drugs.



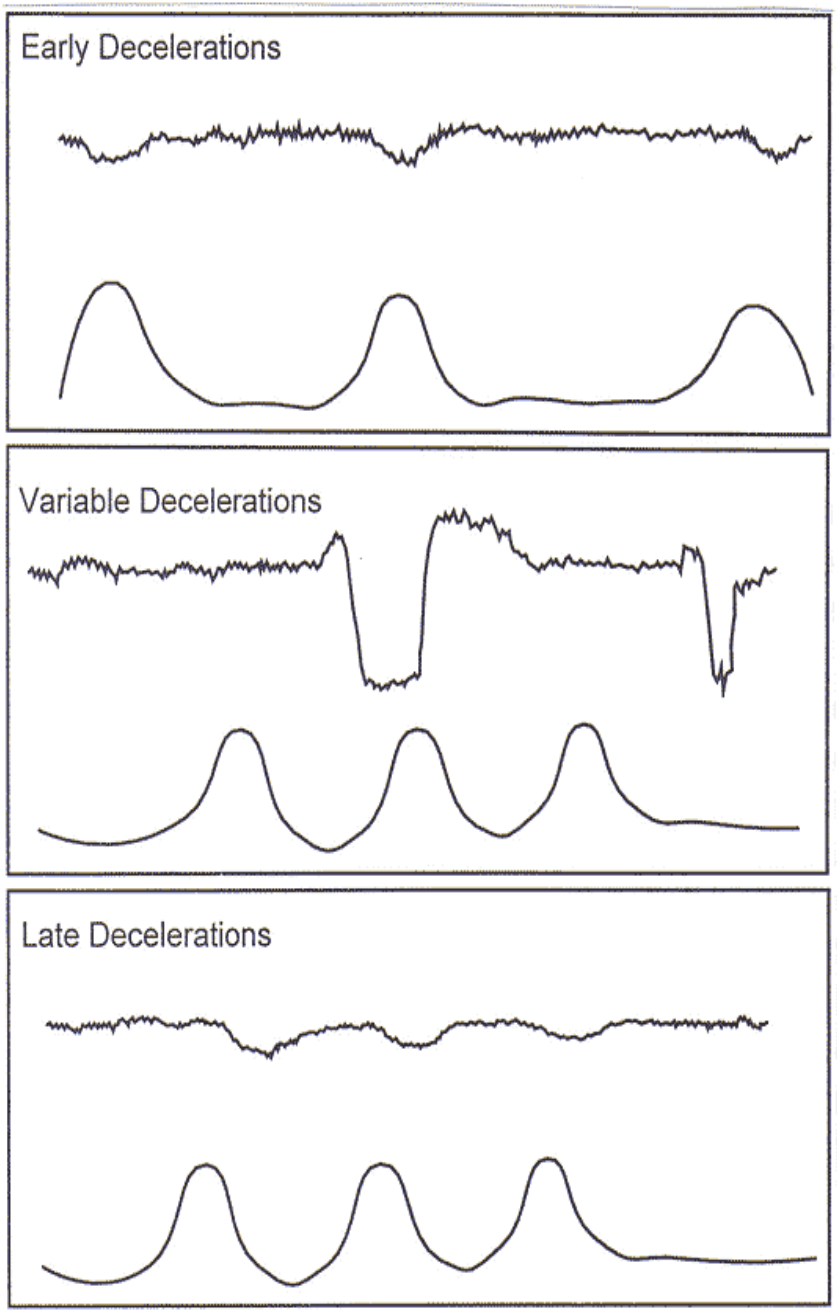
Early Deceleration

The onset and the return of the deceleration coincides with the start and the end of the contraction.
Decelerations are associated with fetal movement, stimulation, and uterine contractions.



Late Deceleration with Preserved Variability

Fetal heart rate returns to baseline AFTER the contraction has ended.
Late decelerations are associated with uteroplacental insufficiency, or decreased uterine bloodflow.



Fetal heart rate decelerations

CTG Signs suggestive of fetal compromise

- Fetal tachycardia (> 160bpm or steady rise over the course the labor)
- Loss of baseline variability (< 5bpm)
- Recurrent late decelerations
- Persistent variable decelerations
- Fetal bradycardia (100 bpm for more than 3 minutes)

USS

Biophysical profile		Biometry
• Fetal breathing movements		• BPD
• Gross movements		• HC
• Tone		• AC
• CTG	**Modified biophysical profile**	• FL
• AFI		• EFW

Early scan (11 -14 weeks)

- IUP / Ectopic pregnancy
- Live / miscarriage
- Single / multiple pregnancy
- Accurate estimation of POA – CRL
- Gross fetal abnormality
- Uterine anomalies
- Extra uterine anomalies
- Chorionocity
- Nuchal translucency


RAB 4-8L/OB
MI 1.2
LONDON IRYO CENTRE
0579 GA=10w1d
6.5cm / 48Hz
TIs 0.1
JD
19.07.2008
11:36:50 AM
2+3 Trim.
Har-low
Pwr 100 %
Gn -1
C7 / M7
P3 / E2
SRI II 3
GE
Cine 508
11 sec


A
B

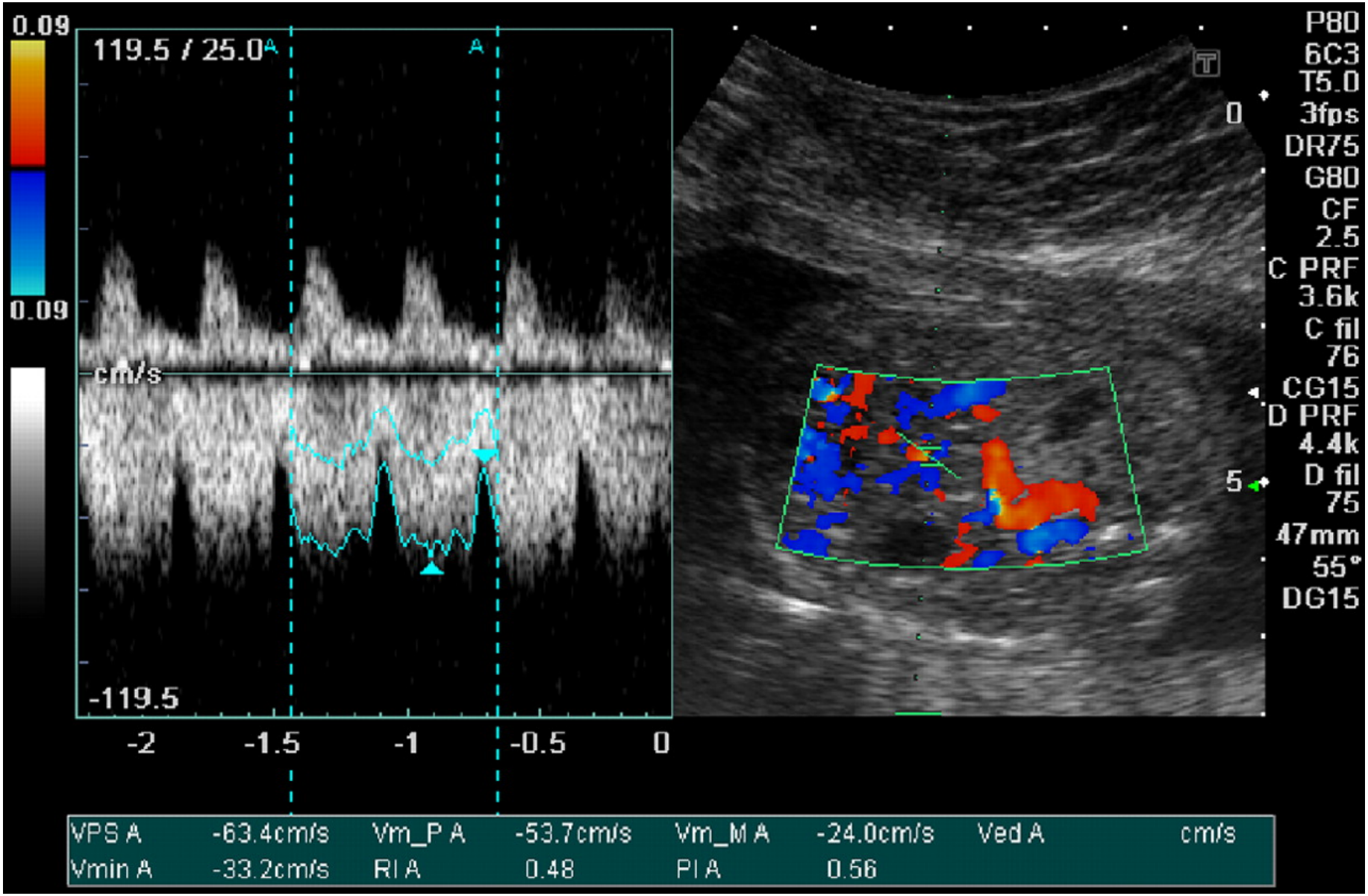
Anomaly Scan (18 – 22 weeks)

- Detailed fetal abnormalities
- Location of placenta
- Estimation of AFI
- If dating scan not done
  - Estimation of POA by using serial BPD, HC
  - Identify multiple pregnancy

Doppler Scan

- Uterine artery Doppler

- Umbilical artery Doppler


0.09
119.5 / 25.0
A
A
0.09
cm/s
-119.5
-2
-1.5
-1
-0.5
0
P80
6C3
T5.0
3fps
DR75
G80
CF
2.5
C PRF
3.6k
C fil
76
CG15
D PRF
4.4k
D fil
75
47mm
55°
DG15
0
5
VPS A -63.4cm/s Vm_P A -53.7cm/s Vm_M A -24.0cm/s Ved A cm/s
Vmin A -33.2cm/s RI A 0.48 PI A 0.56