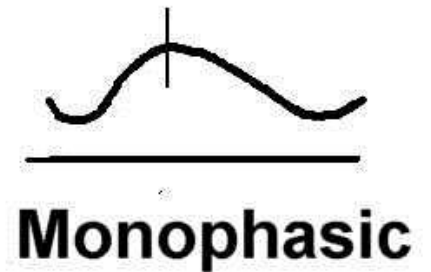
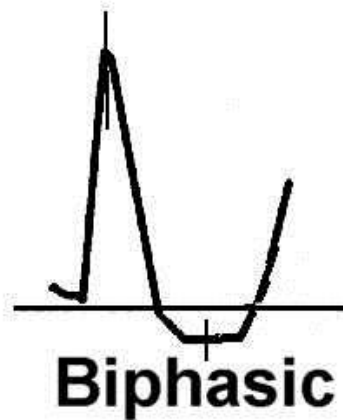
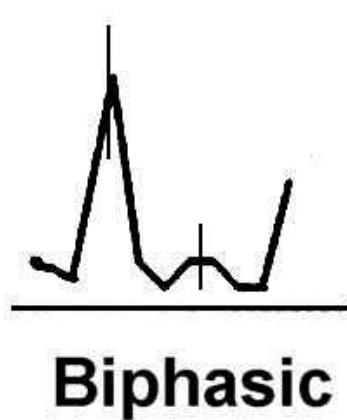
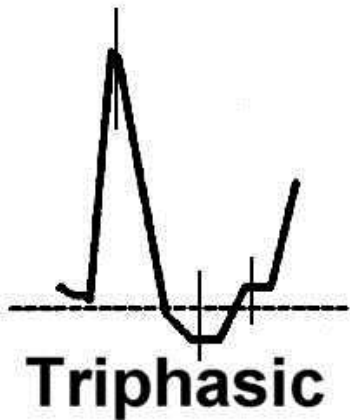


**SONOGRAPHIC PHYSICS,
INSTRUMENTATION & DOPPLER
REVIEW**

**2012
Part 6**



ANALOG ARTERIAL DOPPLER WAVEFORMS

TRIPHASIC WAVEFORM:

- **blood vessel supplying
an extremity at rest**
- **high resistance pattern**

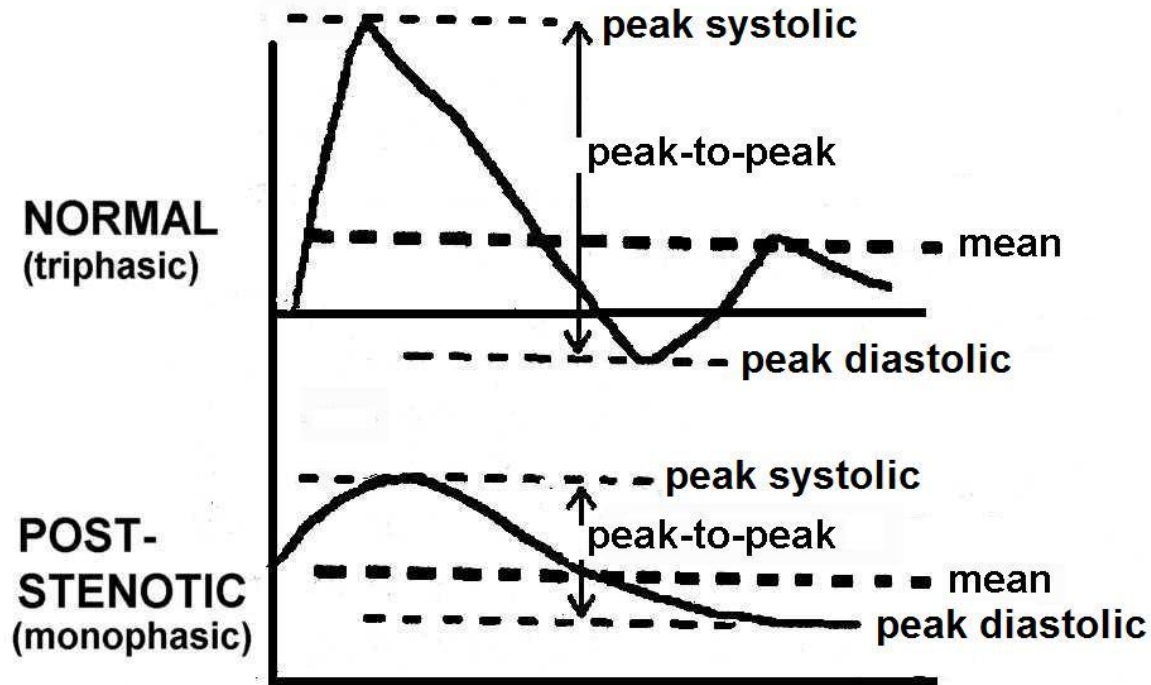
BIPHASIC WAVEFORM:

- **high resistance vascular
beds**

MONOPHASIC WAVEFORM:

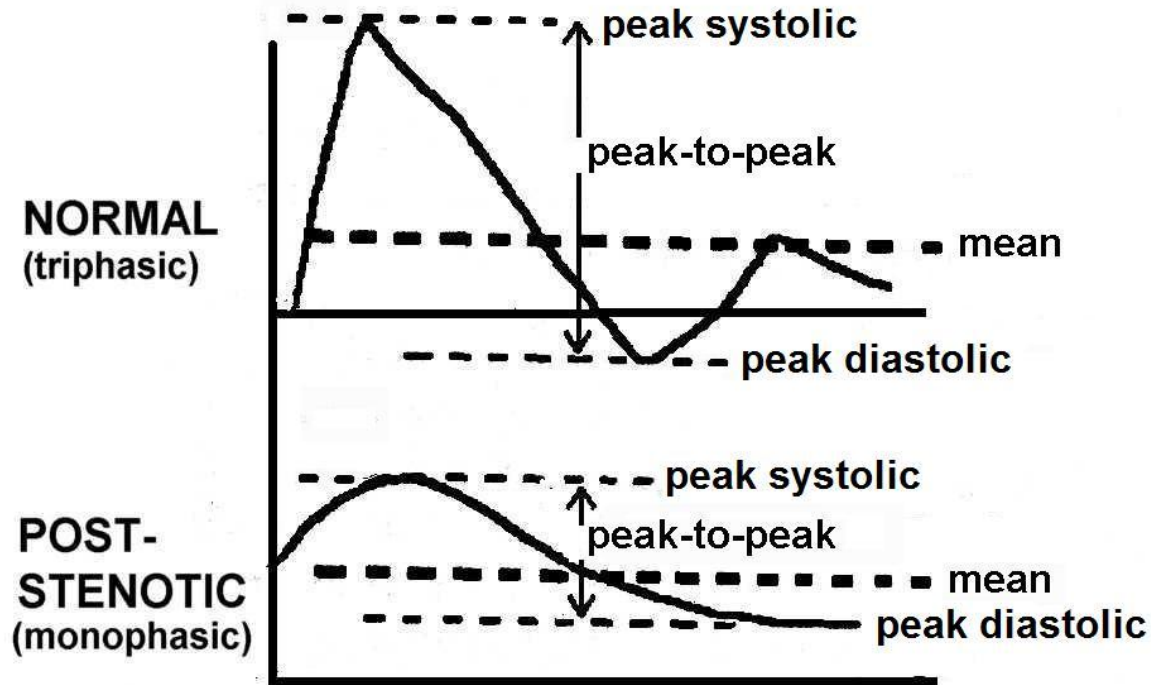
- **low resistance pattern of
blood flow**

PULSATILITY INDEX: (PI)



$$\text{peak-to-peak} \div \text{mean}$$

RESISTIVITY INDEX: (RI)



$$(\text{systolic} - \text{diastolic}) \div \text{systolic}$$

