

MCQs Doppler ultrasound devices - safety aspects

1. The Doppler frequency shift is proportional to the velocity of blood cells and depends also on ...

- a.) the speed of sound in the propagation medium
- b.) the ultrasound frequency
- c.) the direction of the blood flow
- d.) all of the above

2. Which Doppler mode provides the velocity content as a function of time at one selected location?

- a.) Tissue Doppler Imaging (TDI)
- b.) Color Doppler Imaging (CDI)
- c.) Pulsed Doppler (PD)
- d.) Continuous wave Doppler

3. Which Doppler mode provides only qualitative flow information?

- a.) Color Doppler Imaging (CDI)
- b.) Pulsed Doppler (PD)
- c.) Continuous wave Doppler
- d.) none of the above

4. Which Doppler mode emits the highest spatial peak, temporal average intensity?

- a.) cw-Doppler
- b.) Pulsed Doppler
- c.) Color Doppler Mapping
- d.) fetal heart beat monitoring (CTG)

5. Care should be taken during examinations ...

- a.) with combinations of PD and CDI
- b.) of pregnant women
- c.) involving ultrasound contrast agents
- d.) all of the above

Correct answers:

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| 1d: all of the above |
| 2c: Pulsed Doppler |
| 3a: Color Doppler Imaging (CDI) |
| 4b: Pulsed Doppler |
| 5d: all of the above |