

MCQs Elastography - safety aspects

1. **Elastographic techniques are used to map ...**
 - a) Tissue stiffness
 - b) Tissue thickness
 - c) Tissue density
 - d) Tissue attenuation

2. **Shear wave elastography uses propagation of ...**
 - a) Longitudinal waves
 - b) Transverse waves
 - c) Surface waves
 - d) Rayleigh waves

3. **Shear wave velocities in tissue are within the range of ...**
 - a) 1480 - 1580 m/s
 - b) 330 - 340 m/s
 - c) 1 - 10 m/s
 - d) 3000 - 4000 m/s

4. **For ARFI methods the highest temperature increase is ...**
 - a) Near the surface
 - b) At the beam's focus
 - c) Does not vary with depth
 - d) Does not increase

5. **During ARFI imaging ...**
 - a) TI & MI may be correctly estimated
 - b) TI & MI may be overestimated
 - c) TI & MI may be underestimated
 - d) Are not displayed on screen

Correct answers:

- | | |
|-----|-------------------------------|
| 1a: | Tissue stiffness |
| 2b: | Transverse waves |
| 3c: | 1-10 m/s |
| 4b: | At the beam's focus |
| 5c: | TI & MI may be underestimated |