

## MCQs Radiation Stress Tutorial

### 1. What can be an effect of radiation stress ?

- a.) acoustic streaming
- b.) transducer cracking
- c.) thermal heating
- d.) acoustic noise

### 2. The radiation pressure gradient increases with ... ?

- a.) lower acoustic frequencies
- b.) higher acoustic frequencies
- c.) higher speed of sound
- d.) lower local intensities

### 3. For an unscanned Doppler beam the radiation pressure gradient is ... ?

- a.) greatest at the surface
- b.) equal over depth
- c.) too low to measure
- d.) greatest at the focus

### 4. Radiation force effects are in nature ... ?

- a.) thermal
- b.) cavitation
- c.) non-thermal & non-cavitation
- d.) thermal & cavitation

### 5. Which medical applications are assumed to be mainly based on radiation stress ... ?

- a.) imaging in general
- b.) sonothrombolysis & bone healing
- c.) physio-therapeutic applications
- d.) lithotripsy

correct answers:

5b:	sonothrombolysis & bone healing
4c:	non-thermal & non-cavitation
3d:	greatest at the focus
2b:	higher acoustic frequency
1a:	acoustic streaming

\*\*\*