1. Effects of respiration on stroke volume (right + left) and arterial blood pressure.

2. Electrical properties of the cell membrane.

3. Sound properties velocity.

4. How does the chest piece membrane affect the coupling of sounds?

5. Nociceptors

6. Current versus voltage application on EFPS

7. The total effective conductivity of tissue.

8. Penetration depth of the light in tissue.

9. What parameter determines thermal sensitivity of the bilayer sensor?

10. Laplace law of the aterial walls.

11.a. show the blood pressure wave over a cardiac cycle for the early reflection compared to the late reflection.

11.b. How does the blood pressure wave change when it travels from elastic vessels to stiff vessels?

11.c. What is the baroreflex?