

## II. EXPERIMENTAL OBJECTIVES

1. To listen to human heart sounds and describe them qualitatively in terms of intensity or loudness, pitch, and duration.
2. To correlate the human heart sounds with the opening and closing of cardiac valves during the cardiac cycle and with systole and diastole of the ventricles.
3. To determine the nature of the change in the relationship between electrical and mechanical events of the cardiac cycle as heart rate increases.

## III. MATERIALS

- BIOPAC Stethoscope (SS30L)
- BIOPAC Electrode Lead Set (SS2L)
- BIOPAC Disposable Electrodes (EL503,) 3 electrodes per Subject
- BIOPAC Electrode Gel (GEL1) and Abrasive Pad (ELPAD)
- Biopac Student Lab System: BSL 4 software, MP36, MP35 or MP45 hardware
- Computer System (Windows 8, 7, Vista, XP, Mac OS X 10.5 – 10.8)

## IV. EXPERIMENTAL METHODS

### A. SETUP

#### FAST TRACK Setup

1. Turn the computer **ON**.
  - If using an MP36/35 unit, turn it **OFF**.
  - If using an MP45, make sure USB cable is connected and "Ready" light is **ON**.
2. **Plug the equipment in** as follows:  
Stethoscope (SS30L) — CH 1  
Electrode lead set (SS2L) — CH 2
3. Turn **ON** the MP36/35 unit.

Setup continues...

#### Detailed Explanation of Setup Steps



Fig. 17.5 MP36 (top) and MP45 (bottom) equipment connections

# Biopac Lesson 17 With Answers

**Hongru Du**



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