

CVS-Physiology

Archive

lecture 3

**Pumping action of the
heart**

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CVS-Physiology

Lecture 3

1. Which of the following is not true?

Select one:

- a. As you start to move from arterioles to capillaries the cross-sectional area and velocity are going to start rising
- b. Increase the preload would increase the stroke volume and thus the perfusion blood pressure
- c. Turbulent blood flow observed in both pathological and physiological conditions
- d. Hypertension would increase afterload and thus decrease stroke

Answer: A

2. In heterometric auto regulation? End diastolic volume increase

3. All are true except? cardiac muscle can't be stimulated in relative refractory period

4. Which of the following matched pairs regarding contraction of the cardiac muscle are not true , select one :

- a. Calcium-Calmodulin
- b. Calcium bind to ryanodine receptor type2- Calcium outflow from sarcoplasmic reticulum
- c. Calcium bind to C troponin- Move tropomyosin away from the myosin head
- d. Functional syncytium - Very slow synchronized contraction between nodal and myocardial cells
- e. Cross bridge between actin and myosin- Heart pumping

Answer: D

5. Which of the following matched pairs are not true regarding cardiac muscles ? MW

Select one:

- a. Repolarization of the cardiac muscle- Calcium proton ATPase
- b. Repolarization of cardiac muscle- Sodium calcium exchanger
- c. Refractory period- Cannot be tetanized
- d. Phase 3- Only potassium channels are open
- e. Relative refractory period - Phase 1 midway through phase

Answer: E