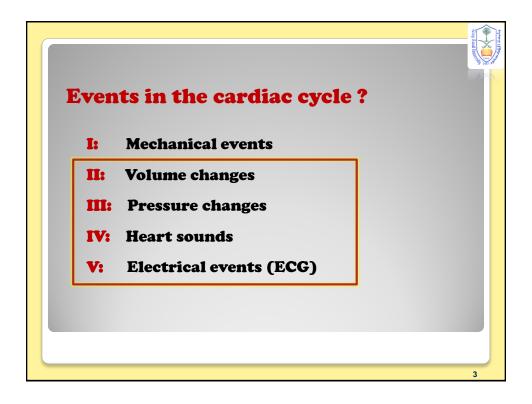
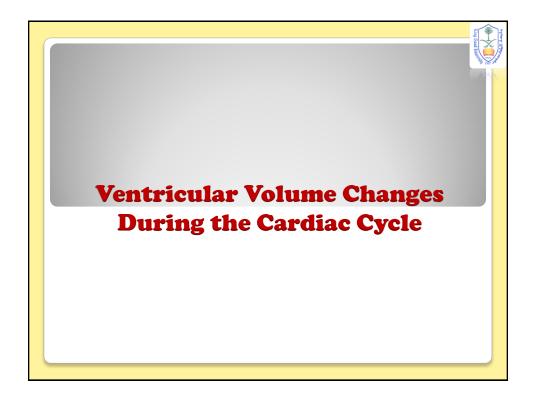


## At end of this lecture you should be able to know:

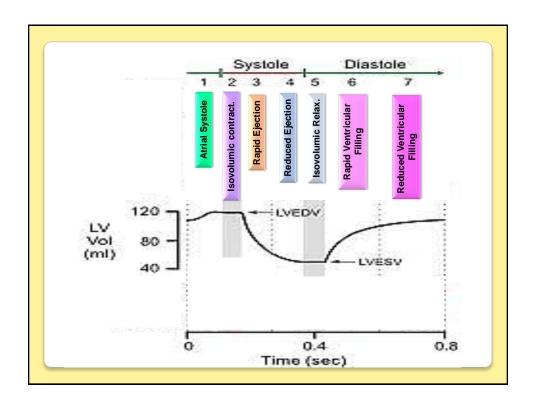
- ✓ Volume changes that occur during cardiac cycle
- ✓ Pressure changes that occur during cardiac cycle
- Electrical changes that occur during cardiac cycle
- ✓ Different heart sounds produced during cardiac cycle
- Correlation of different events that occur during cardiac cycle
- ✓ Volume-Pressure relationship in the left ventricle

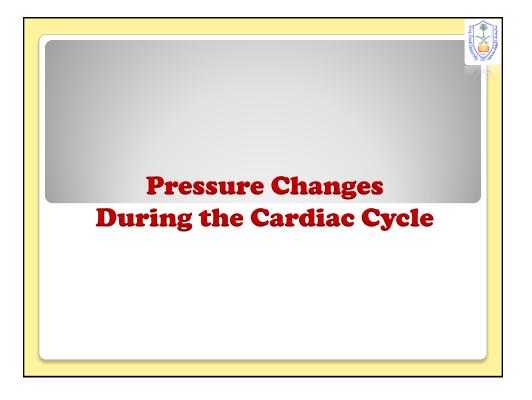
2





Ventricular Volume Changes	
Phases	Ventricular volume
1. Atrial systole	<b>↑</b>
2. Isometric contraction phase	Constant
3. Rapid ejection phase	↓ rapidly
4. Reduced ejection phase	↓ slowly
5. Protodiastole	Constant
6. Isometric relaxation phase	Constant
7. Rapid filling phase	↑ rapidly
8. Reduced filling phase	↑ slowly
5	





## **Pressure Changes:**

- Ventricular pressure
- Aortic pressure
- Arterial pressure waves
- Pulmonary artery pressure
- Atrial pressure
- Jugular venous pulse wave

