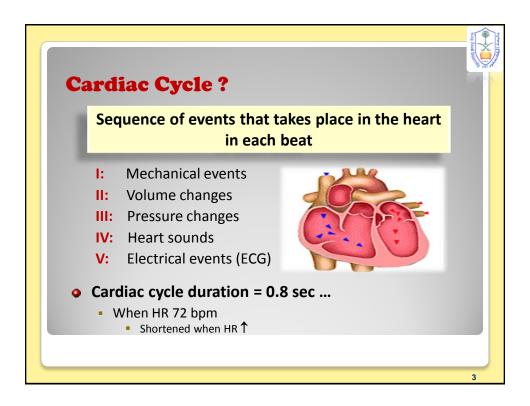


At end of this lecture you should be able to know:

- ✓ General principles of cardiac cycle
- ✓ Different events that occur during cardiac cycle: mechanical, electrical, volume/pressure changes & heart sounds
- Correlation of the different events that occur during cardiac cycle
- ✓ Various phases of mechanical events of cardiac cycle

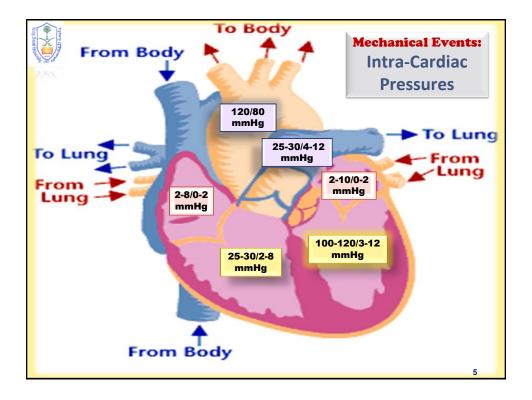
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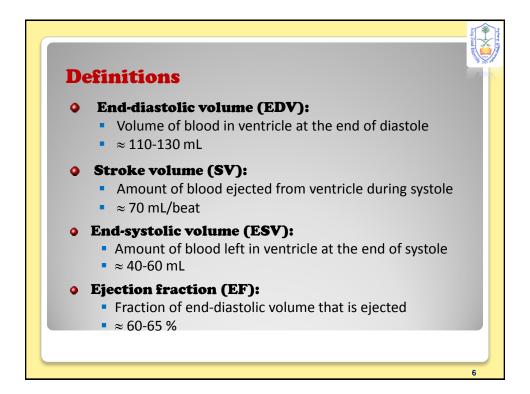


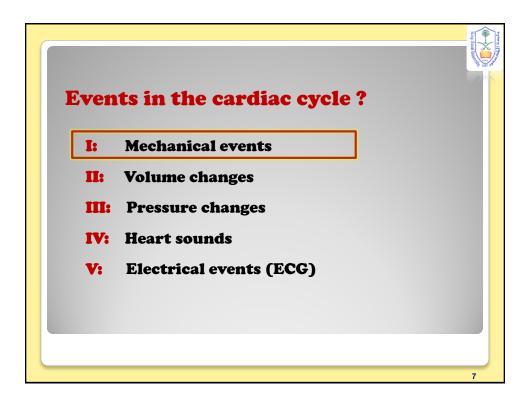
General Principles

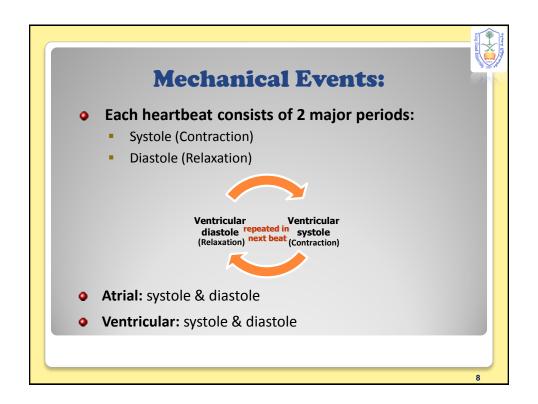
- Contraction of the heart generates pressure changes, resulting in orderly blood movement
- Blood flows from an area of high pressure to an area of low pressure
- Heart is a double pump: right & left sides that work together
- Events in the right & left sides of the heart are the same, but with lower pressures in the right side

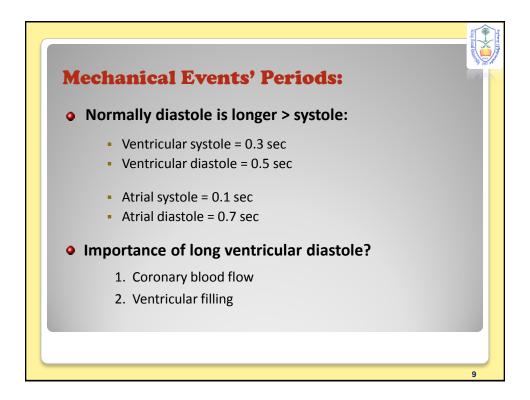
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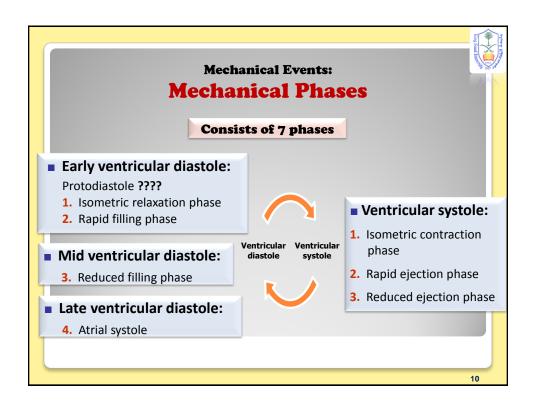


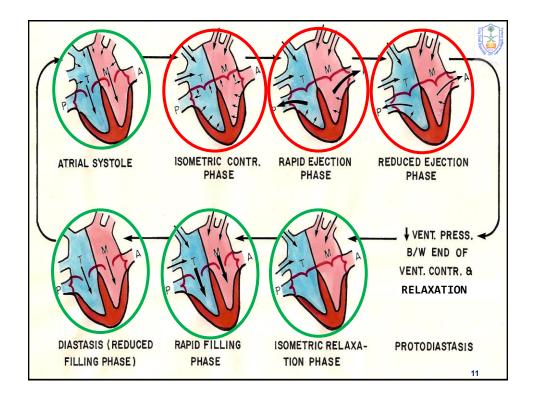


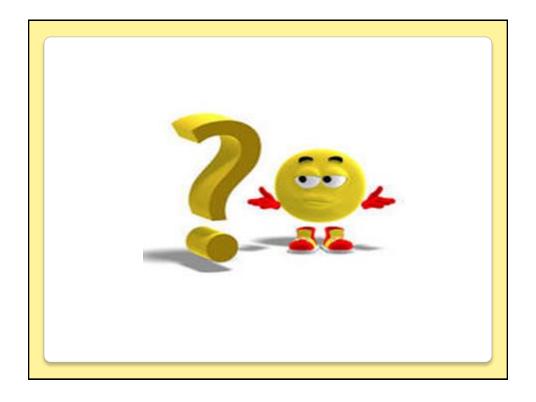


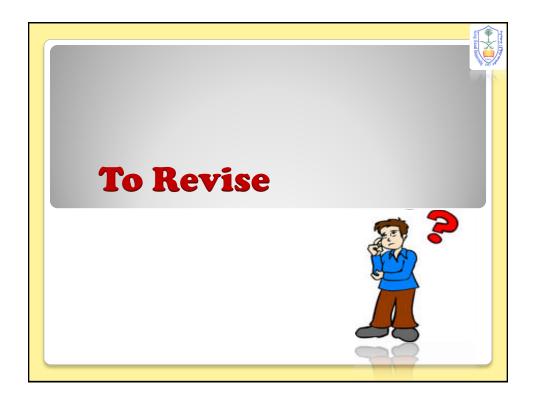


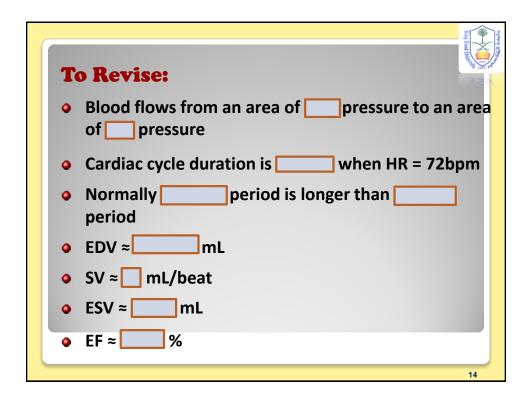


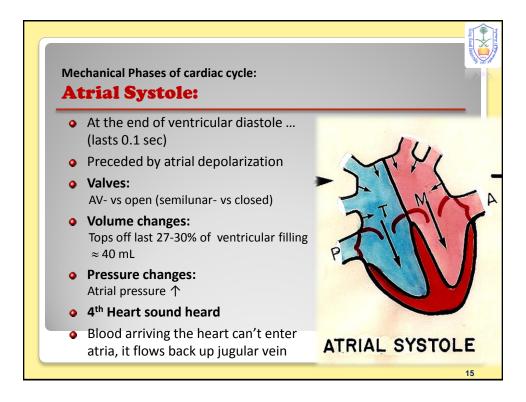


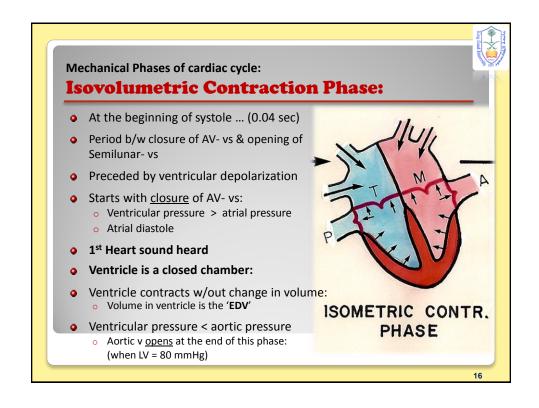


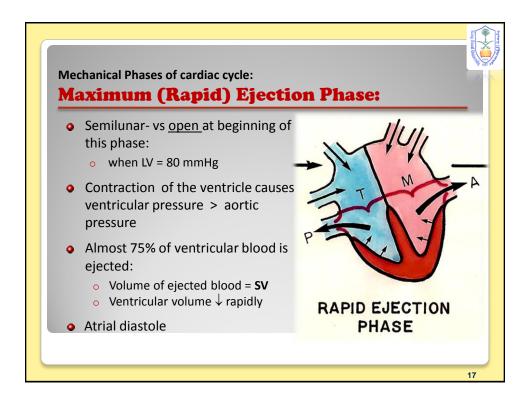


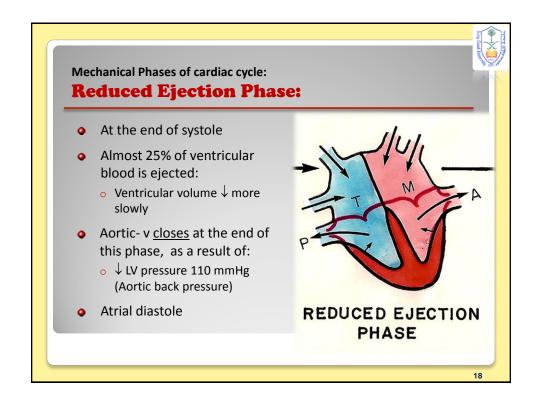












Mechanical Phases of cardiac cycle: Protodiastolic Phase ???? Period b/w end of ventricular systole & ventricular diastole Very short ... (lasts 0.04 sec) Atrial diastole: Atrial pressure still \(^1\), due to continuous VR

