

Arrhythmias

Definition:

- Irregular heartbeat → electrical signals that coordinate the heart's beats don't work properly
- *Tachycardia*: fast heartbeat/over 100BP (★)
- *Bradycardia*: slow heartbeat/under 60BPM

Risk factors/causes:

- *Structural*: increasing age, males, hypertension, valvular heart disease, heart failure, cardiomyopathies, congenital heart disease, hyperthyroidism, diabetes, myocarditis, pulmonary disease, post-surgical state, obesity, alcohol
- *Electrical*: Channelopathies, genetic factors, lone (idiopathic) AF, autonomic imbalance

Pathophysiology & mechanism:

- ↓ in effectiveness of heart contractions
- Deficient or altered blood flow & tissue perfusion

Signs & symptoms:

- Light headedness
- Fainting (possible)
- Palpitations
- Cardiac arrest (if severe)
- Fatigue
- SOB
- Chest discomfort

Treatment: Medication, lifestyle change, invasive therapies, electrical devices, or surgery

Valvular disease

Definition:**Risk factors/causes:****Pathophysiology & mechanism:****Signs & symptoms:****Complications:****Treatment:**

Arrhythmias (copy)

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Complications:**Treatment:**