

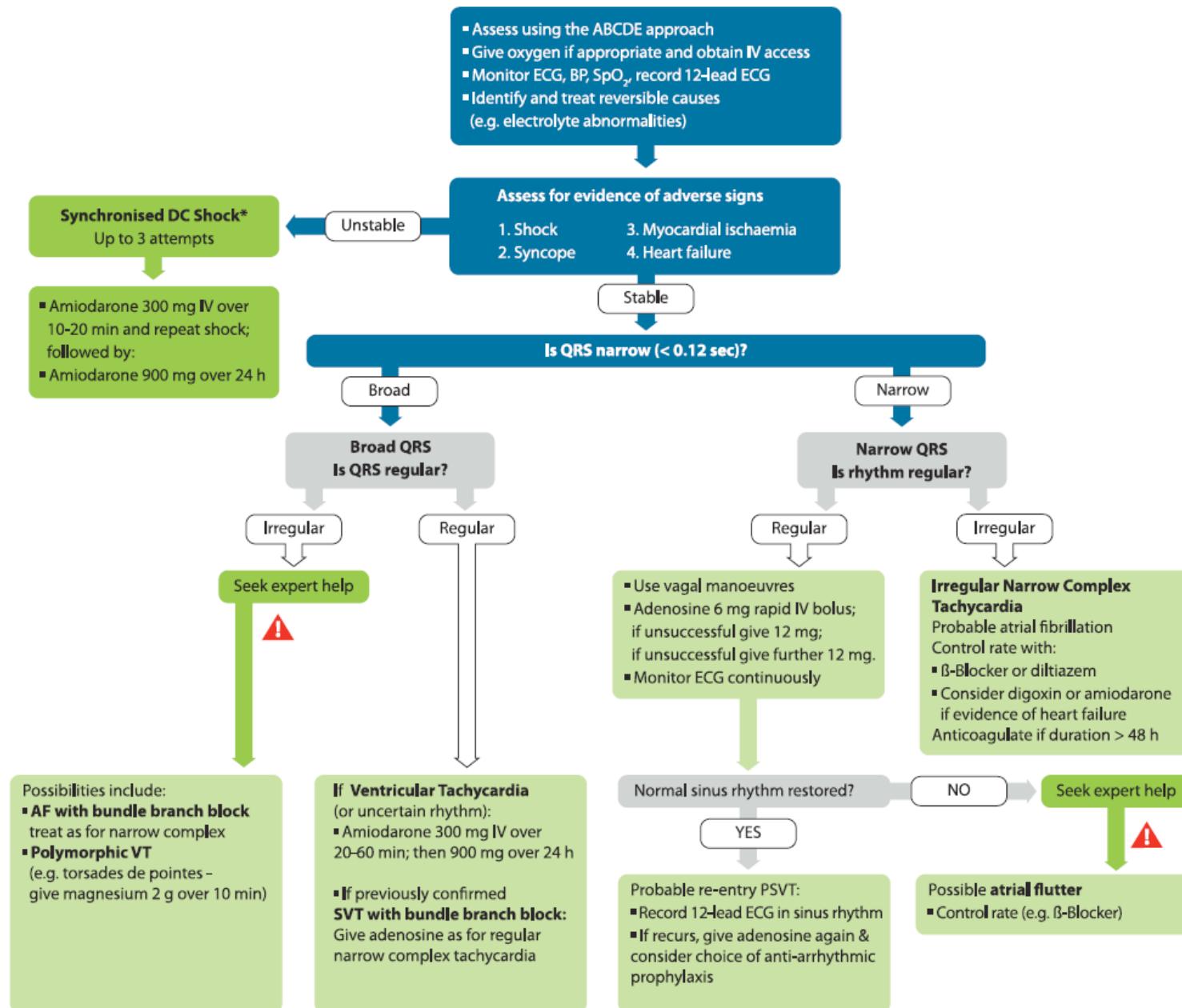
Arrhythmias

MUDr. Jan Stašek

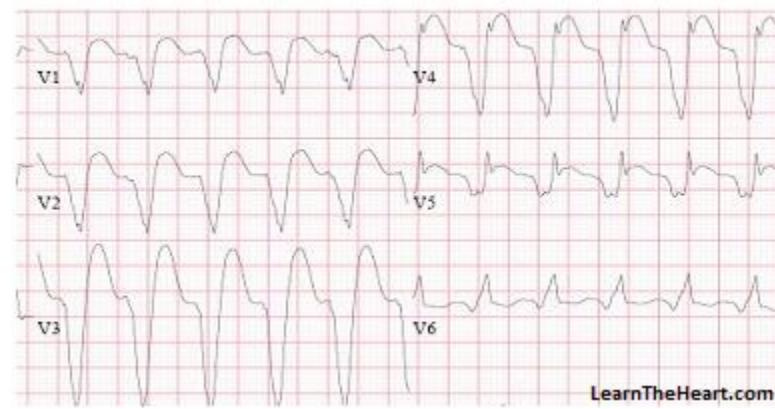
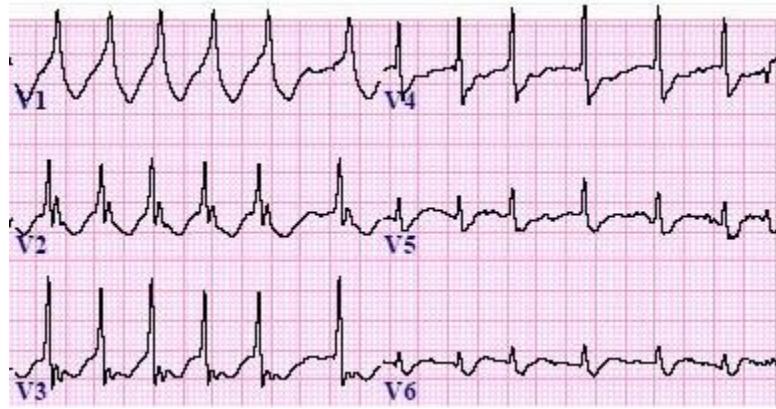
Clinical significance

- Arrhythmias leading to cardiac arrest
- Arrhythmias with circulatory decompensation
 - shock
 - syncope
 - heart failure
 - myocardial ischemia
- Arrhythmias with preserved heart function

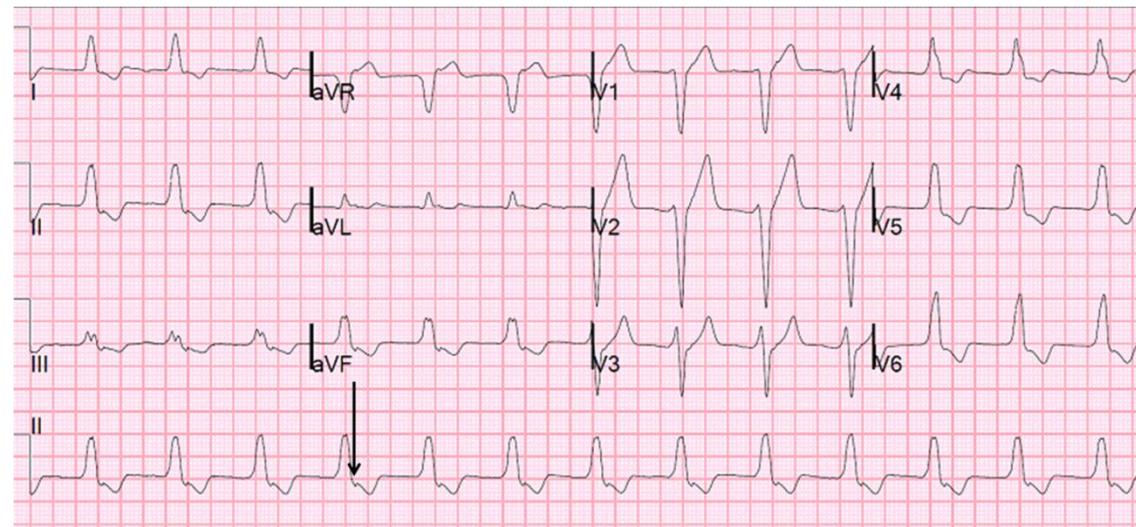
Tachycardia Algorithm (with pulse)



*Attempted electrical cardioversion on conscious patients is always undertaken under sedation or general anaesthesia



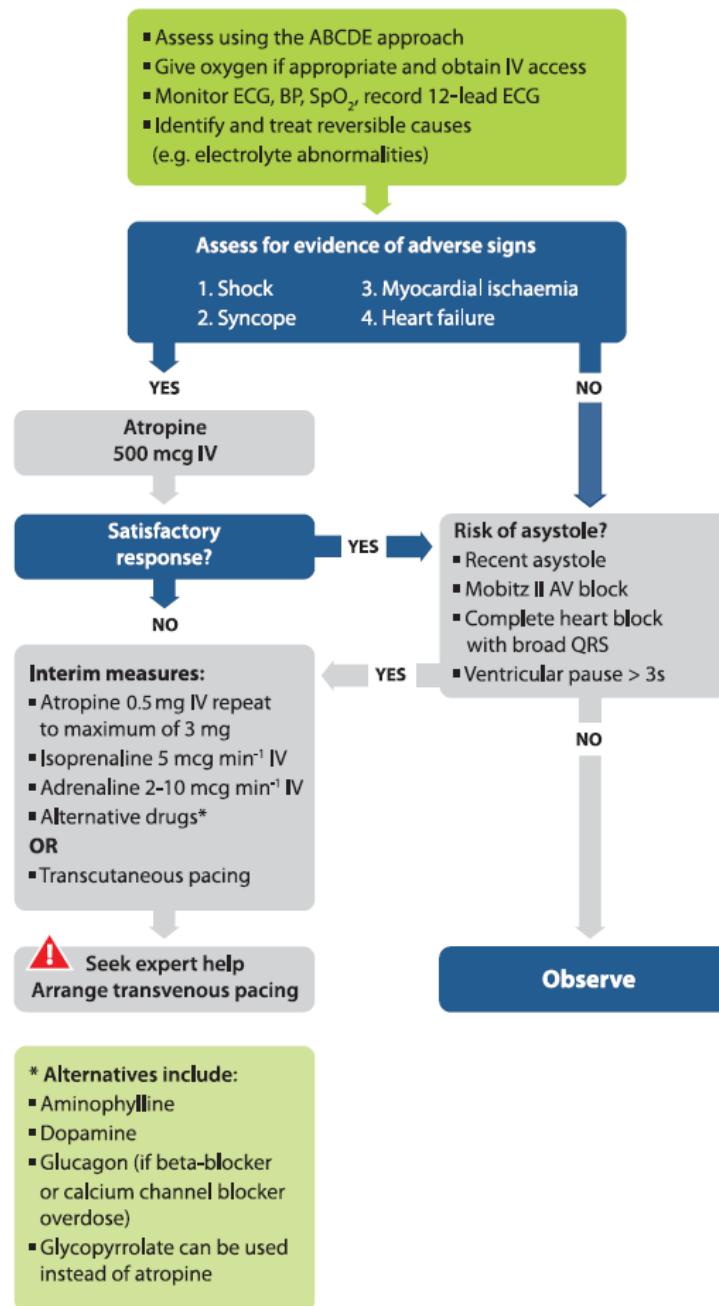
LearnTheHeart.com



Tachyarrhythmias with adverse signs

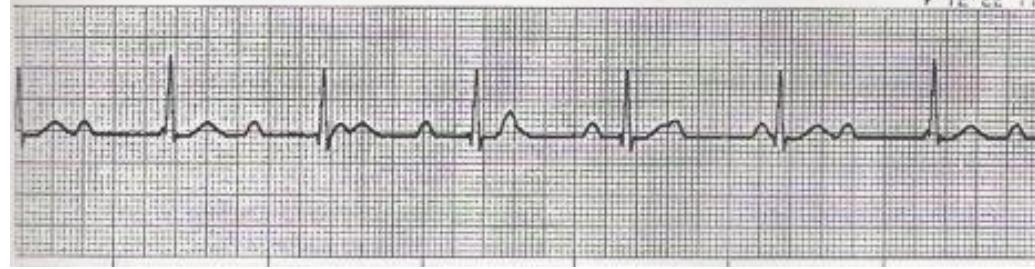
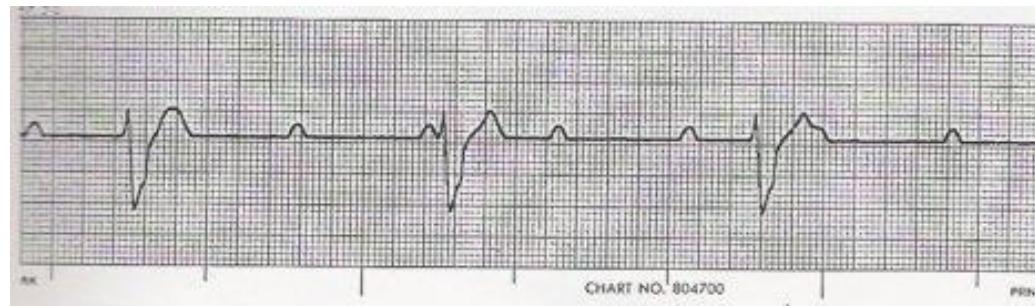
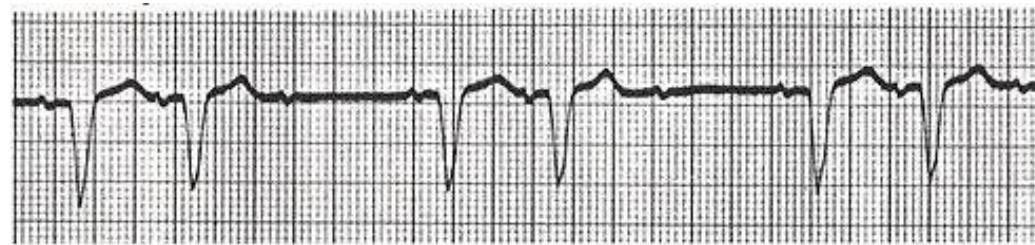
- Electrical cardioversion
- Sedation
- Synchronised biphasic discharge 120 – 150 J in VT and AF, in atrial flutter or PSVT 70 – 120 J
- In case of failure i.v. amiodaron 300 mg, then 900 mg / 24 hod
- Repeat electrical discharge after amiodaron

Bradycardia Algorithm

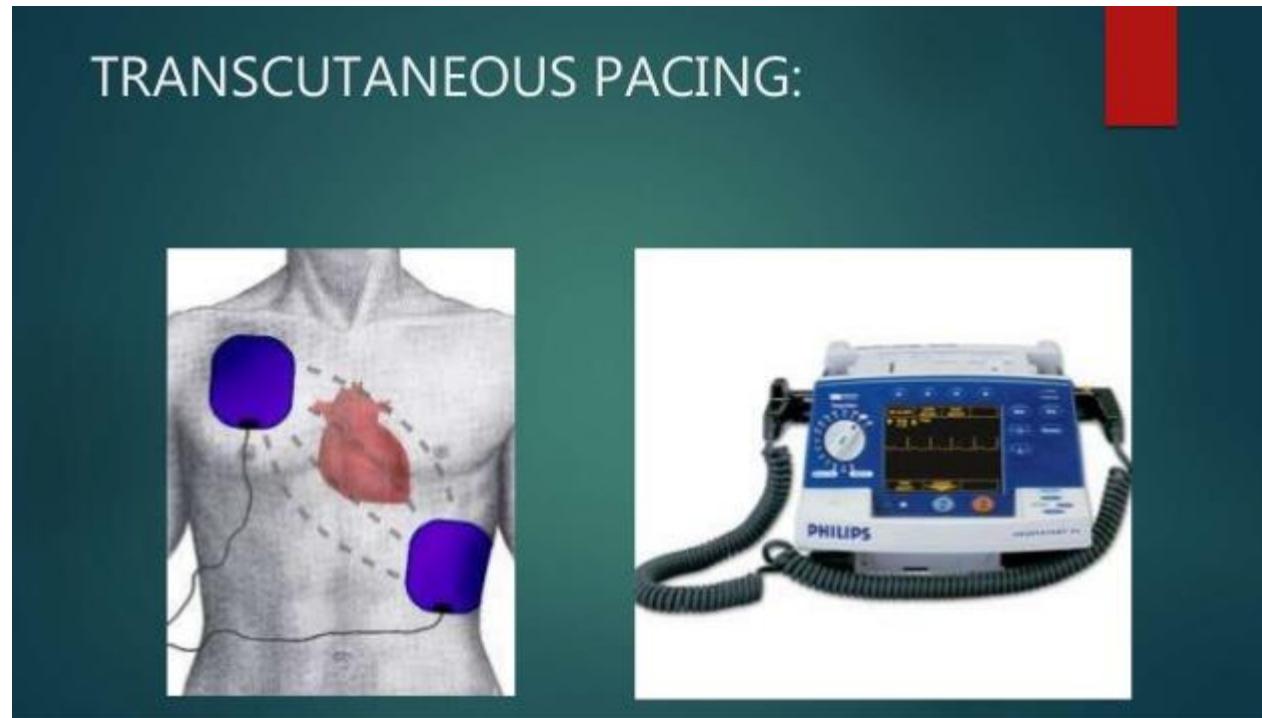


Bradycardia

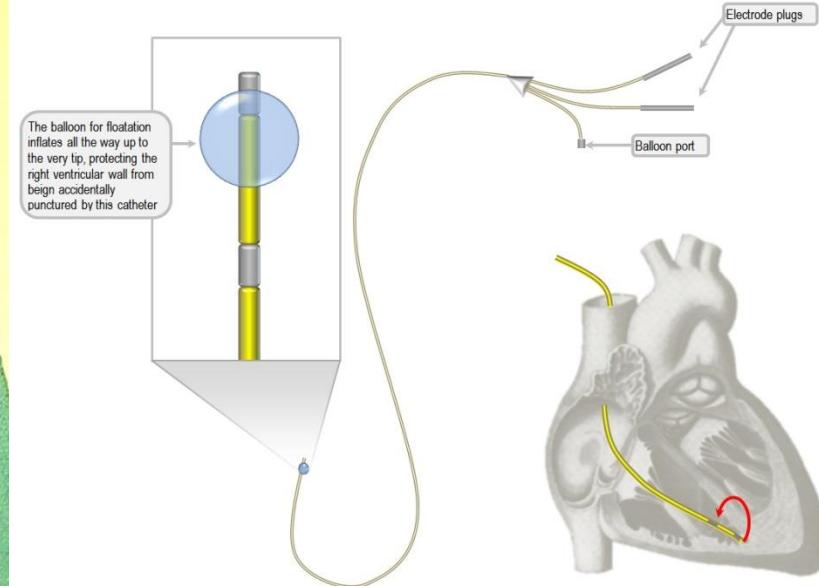
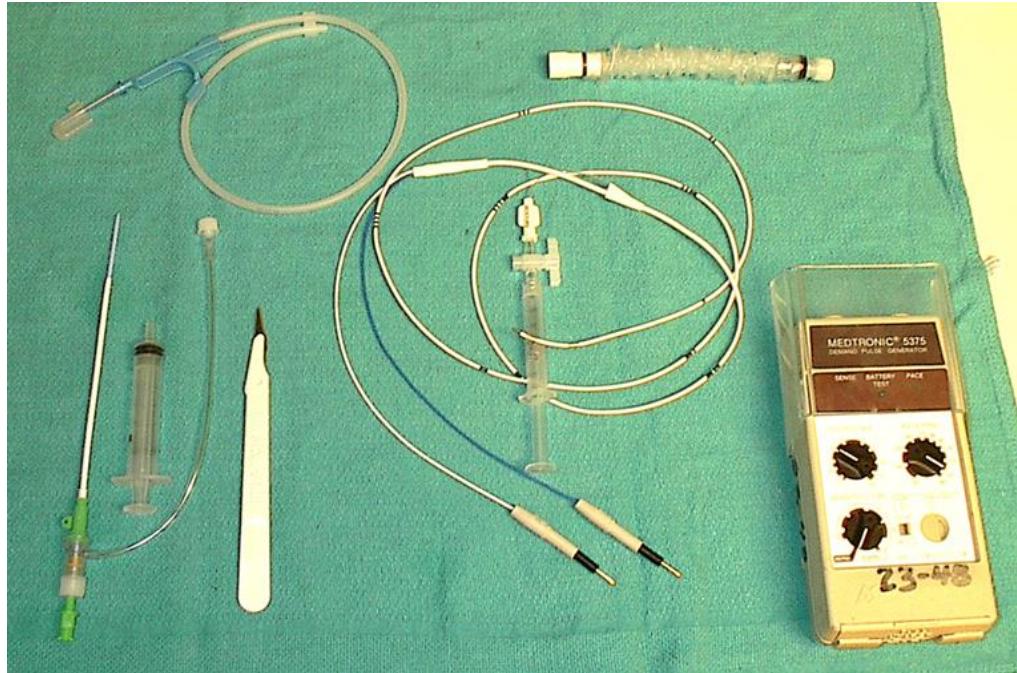
- Atropine 0,5 mg i.v. (full dose in an adult is 3 mg i.v.)
- Izoprenaline, adrenaline, dopamine, dobutamine



Transcutaneous pacing



Temporary transvenous pacing



Thanks for Your attention