

Cheatography

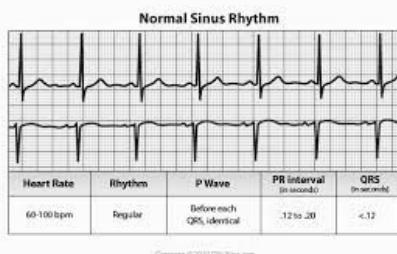
Pt Management & Problems of the CV System - Part 3 Cheat Sheet by Maria K (mkravatz) via cheatography.com/71404/cs/18110/

Normal Rhythms

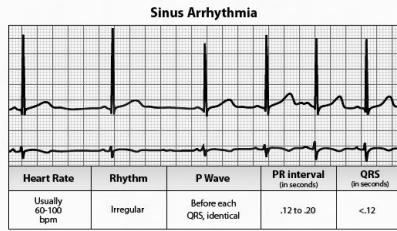
Normal Sinus Rhythm

Sinus Arrhythmia

Normal Sinus Rhythm



Sinus Arrhythmia



Inc. prevalence w/ younger age

Rhythm based on breathing, r/t changes in intrathoracic pressure:

- Inspiration = HR inc. / Expiration = HR dec.

Irregular Rhythms

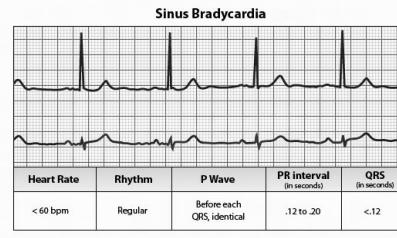
Sinus Bradycardia

Sinus Tachycardia

Premature Atrial Contractions (PAC)

Arrhythmias r/t changes in CO & perfusion

Sinus Bradycardia



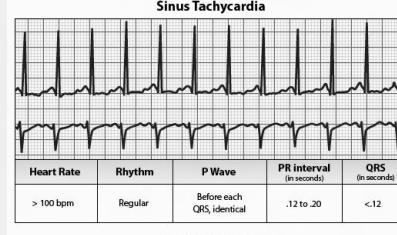
Low HR = give atropine! - epi, pacemaker

(temporary/permanent)

Usually no symptoms, not treated unless symptoms present - AMS, cyanosis, extreme syncope/fatigued, hypotensive, SOB

Treated by treating cause - can occur after: vagal nerve stimulation, beta-blockers, digoxin, inferior wall MI (back of heart), **hyperkalemia**, **hypothyroid**, falls asleep

Sinus Tachycardia



Heart beats too fast to allow to fill

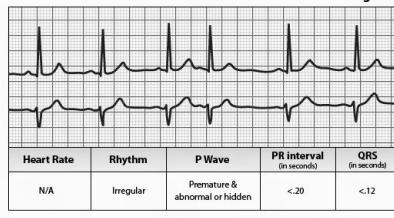
PR interval may be smaller depending on rate

Causes: anxiety, hypovolemia, infection, fever, caffeine, pain, HF, **hyperkalemia**, **nitro** & **epi**

Only treat if necessary - treat underlying cause! - beta-blocker or CCB if necessary, bear down, O₂, digoxin, calm environment, relax/meditate

Premature Atrial Contractions (PAC)

Premature Atrial Contraction • Isolated PAC's: Occur Single

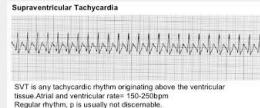


Beat not coming from SA node (ectopic focus)

Not usually treated, told to dec. cause - treated if more frequent/several consecutive

Causes: MI, stretching of cardiac muscle, alcohol, smoking, HF & pericarditis, meds, irritability of cardiac muscle

Supraventricular Tachycardia (SVT)



P-waves = buried in T-waves, hard to see

PR interval = usually not possible to measure

QRS = normal (0.06-0.10) but may be wide if abnormally conducted through ventricles

Person symptomatic

Perfusion and CO affected

Treat with adenosine & flush w/ 20 mL NSS

→ heart restarts

Causes: anxiety, caffeine, **amphetamines**, **irritability of atrial muscle**



By Maria K (mkravatz)

cheatography.com/mkravatz/

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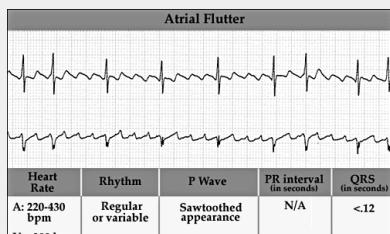
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More Rhythm Disorders

Atrial Flutter

Atrial Fibrillation

Atrial Flutter



Saw-toothed appearance

Ectopic pacemaker

Causes: **pulmonary emboli, CHF, pericarditis, cardiac ischemia**

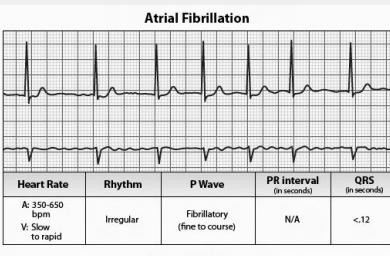
Can walk around if low rate

Want to control rate - digoxin, CCB, anti-arrhythmics; override pacing to fix rhythm, ablation therapy

May see ratio of beats to QRS's

Similar shape = coming from same site

Atrial Fibrillation



Biggest concern = blood pooling → clots (a fib → NSR = clots → stroke/PE
Dec. CO < 30%
Not effective beats, rapid & chaotic
Causes: MI, CHF, **cardiomyopathy** (anything that causes heart to expand)

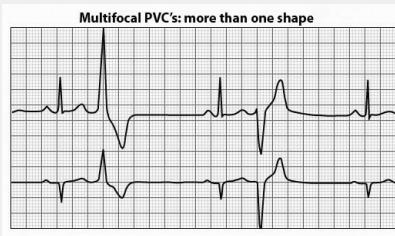
Ventricular Rhythms

Premature Ventricular Contractions (PVC)

Ventricular Tachycardia

Ventricular Fibrillation

Premature Ventricular Contractions (PVC)



Unifocal: 1 ectopic site on ventricle

Multifocal: 1+ site on ventricle - more dangerous!

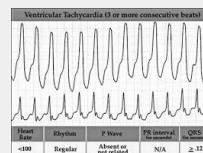
Inc w/... age, **ischemia, CHF, hypokalemia, acidosis, hypomagnesemia, stress, caffeine, nicotine**

Symptoms: palpitations

Runs of PVCs → V-tach

May not treat if limited number

Ventricular Tachycardia



Usually w/ significant heart disease (CHF, MI)

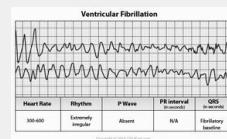
Causes: anything that inc. automaticity of heart

Symptoms: r/t dec. CO

Treatment: anti-arrhythmics (amiodarone, lidocaine, cardizem); beta-blockers (control rate); betapace (controls rate & rhythm); cardiovert (ICD)

If not treated → V-fib

Ventricular Fibrillation



Ventricles quivering

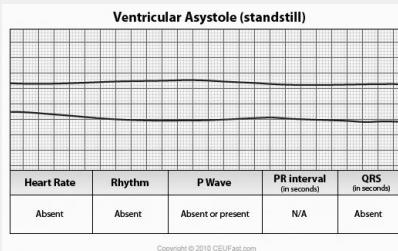
O₂ demand is through the roof → ischemia

Treatment: defibrillate

Causes: CAD, MI, CHF, **hypokalemia, hypomagnesemia**

Pt is often... unconscious, no pulses, no BP, acidotic, may seize

Asystole



Cannot shock → CPR & epi

Occurs w/ myocardial hypoxia

Atrioventricular (AV) Blocks

First Degree Second Degree

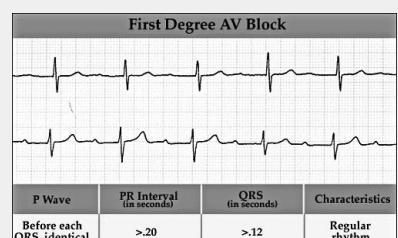
Third Degree Bundle Branch

Diagnosis: EKG

Asymptomatic unless HR is too low

Treatment (w/ slow HR): O₂, atropine, pacemaker

First Degree AV Block



Causes: ischemia, MI

Not usually treated

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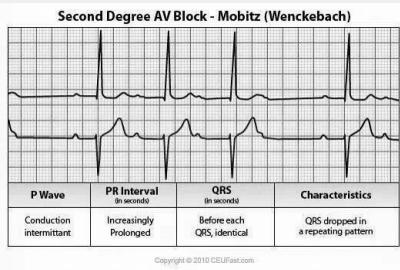
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Second Degree AV Block

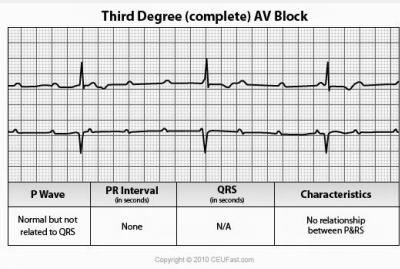


Causes: MI, digoxin, Lyme's disease

Symptoms: usually none unless HR is too low

Treatment: atropine, pacemaker

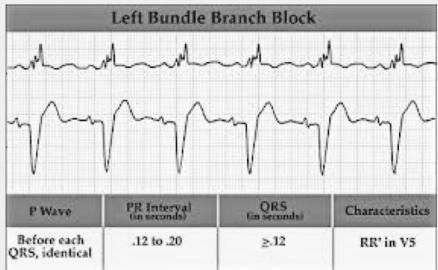
Third Degree (Complete) AV Block



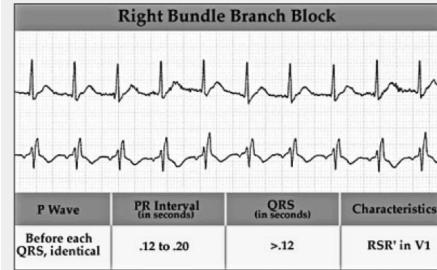
Causes: ischemia, CAD, MI

Treatment: pacemaker

Left Bundle Branch Block



Right Bundle Branch Block



Defibrillation vs. Cardioversion

Defibrillation: shock heart in emergency

Cardioversion: sync w/ heart, want normal rhythm

- Want to medicate beforehand
- Fibrillate in middle → shock & defib.

External Defibrillator Vests

ZOLL® LifeVest®



Worn 24/7 except showers

Ablation Therapy

Want to go in & stop abnormal beats

3 Types - all cause destruction to area of heart causing problem

- *Chemical*
- *Mechanical* (cut, lasers)
- *Radiofrequency*

Used w/ electrophysiology/conduction problems

Evaluation of Treatment

Improved CO Improved tissue perfusion

Improved EKG

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