

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

Normal Rhythms

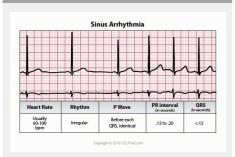
Normal Sinus Rhythm

Sinus Arrythmia

Normal Sinus Rhythm



Sinus Arrythmia



Inc. prevalence w/ younger age Rhythm based on breathing, r/t changes in intrathoracic pressure:

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

Irregular Rhythms

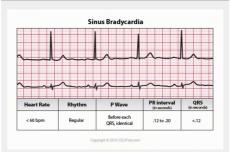
Sinus Bradycardia

Sinus Tachycardia

Premature Atrial Contractions (PAC)

Arrythmias r/t changes in CO & perfusion

Sinus Bradycardia

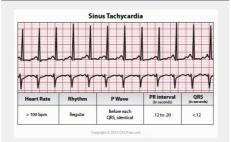


Low HR = give atropine! - epi, pacemaker (temporary/permanent) Usually no symptoms, not treated unless

symptoms present - AMS, cyanosis, extreme syncope/fatigued, hypotensive, SOB

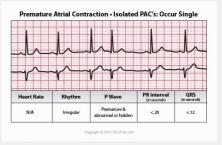
Treated by treating cause - can occur after: vagal nerve stimulation, beta-blockers, digoxin, inferior wall MI (back of heart), hyperkalemia, hypothyroid, falls asleep

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)



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/

Published 2nd December, 2018. Last updated 2nd December, 2018. Page 1 of 3. Sponsored by **Readability-Score.com**Measure your website readability!
https://readability-score.com

Cheatography

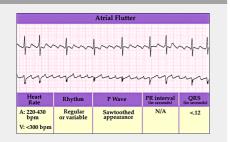
Pt Management & Problems of the CV System - Part 3 Cheat Sheet by Maria K (mkravatz) via cheatography.com/71404/cs/18110/

More Rhythm Disorders

Atrial Flutter

Atrial Fibrillation

Atrial Flutter



Saw-toothed appearance

Ectopic pacemaker

Causes: pulmonary emboli, CHF, pericarditis, cardiac ischemia

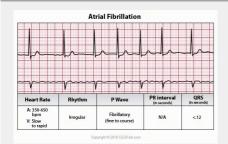
Can walk around if low rate

Want to control rate - digoxin, CCB, antiarrythmics; 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

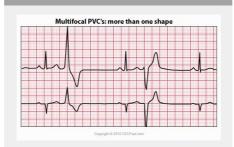
that causes heart to expand)

Premature Ventricular Contractions (PVC)

Ventricular Tachycardia

Ventricular Fibrillation

Premature Ventricular Contractions (PVC)



Unifocal: 1 ectopic site on ventricle

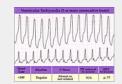
Multifocal: 1+ site on ventricle - more

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

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

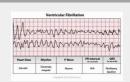
heart

Symptoms: r/t dec. CO

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

If not treated → V-fib

cardiovert (ICD)



Ventricles guivering

O2 demand is through the roof → ischemia

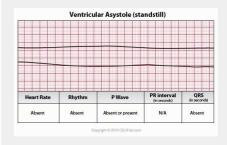
Treatment: defibrillate

Causes: CAD, MI, CHF, hypokalemia,

hypomagnesemia

Pt is often... unconscious, no pulses, no BP,

acidotic, may seize



Cannot shock → CPR & epi

Occurs w/ myocardial hypoxia

Atrioventricular (AV) Blocks

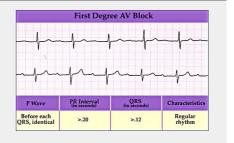
First Degree Second Degree Third Degree **Bundle Branch**

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

By Maria K (mkravatz)

cheatography.com/mkravatz/

Published 2nd December, 2018. Last updated 2nd December, 2018.

Page 2 of 3.

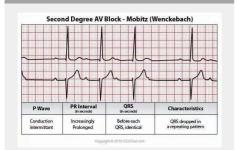
Sponsored by Readability-Score.com Measure your website readability!

https://readability-score.com



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

Second Degree AV Block

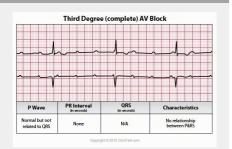


Causes: MI, digoxin, Lyme's disease

Symptoms: usually none unless HR is too low

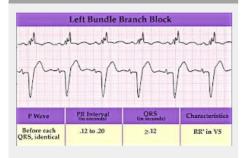
Treatment: atropine, pacemaker

Third Degree (Complete) AV Block



Causes: ischemia, CAD, MI Treatment: pacemaker

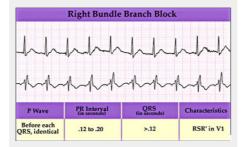
Left Bundle Branch Block



By Maria K (mkravatz)

cheatography.com/mkravatz/

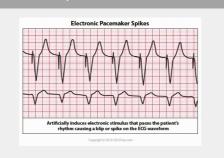
Right Bundle Branch Block



Analysis

Dec. CO Tissue Perfusion

Pacemaker Spikes



Pharmacological Interventions

Anti-Arrythmics Beta-Blockers

Calcium Channel Blockers

Implantable Cardioverter Defibrillator (ICD)

What is it?

An internal defibrillator

Who are candidates?

Pts who have survived an episode of sudden cardiac arrest

Documented life-threatening dysrhythmias

Uncomfortable, not necessarily painful

Published 2nd December, 2018. Last updated 2nd December, 2018. Page 3 of 3.

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



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

Sponsored by **Readability-Score.com**

Measure your website readability!

https://readability-score.com

