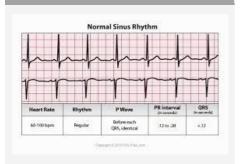


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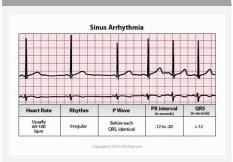
Normal Rhythms

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

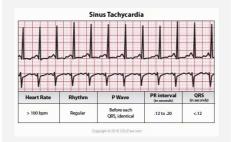


Low HR = give atropine! - epi, pacemaker (temporary/permanent)

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

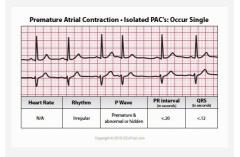


Heart beats too fast to allow to fill PR interval may be smaller depending on rate

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



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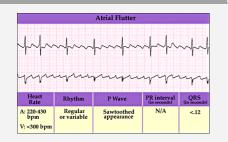


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More Rhythm Disorders

Atrial Flutter Atrial Fibrillation

Atrial Flutter



Saw-toothed appearance

Ectopic pacemaker

Causes: pulmonary emboli, CHF, perica-

rditis, cardiac ischemia
Can walk around if low rate

Want to control rate - digoxin, CCB, anti-arrythmics; 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)

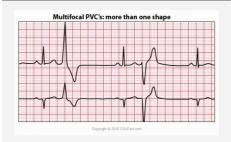
Ventricular Rhythms

Premature Ventricular Contractions (PVC)

Ventricular Tachycardia

Ventricular Fibrillation

Premature Ventricular Contractions (PVC)



Unifocal: 1 ectopic site on ventricle

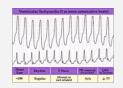
Multifocal: 1+ site on ventricle - more

dangerous!

Inc wl... 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,

IVII)

Causes: anything that inc. automaticity of

hoor

Symptoms: r/t dec. CO

Treatment: anti-arrythmics (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

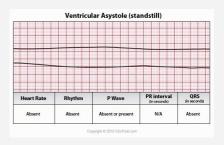
Causes: CAD, MI, CHF, hypokalemia,

hypomagnesemia

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

acidotic, may seize

Asystole



Cannot shock → CPR & epi
Occurs w/ myocardial hypoxia

Atrioventricular (AV) Blocks

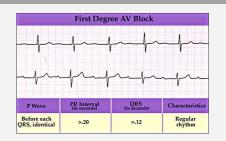
First Degree Second Degree
Third Degree Bundle Branch

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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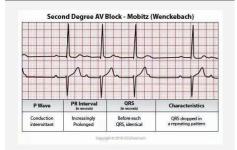
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Second Degree AV Block



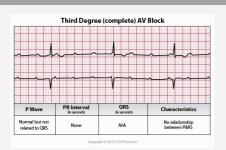
Causes: Ml, digoxin, Lyme's disease

Symptoms: usually none unless HR is too

low

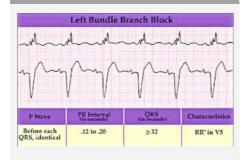
Treatment: atropine, pacemaker

Third Degree (Complete) AV Block



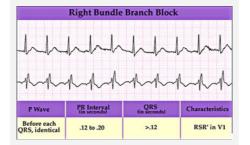
Causes: ischemia, CAD, MI Treatment: pacemaker

Left Bundle Branch Block



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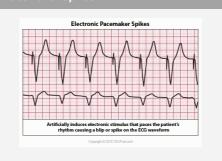
Right Bundle Branch Block



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 dysrhy-

Uncomfortable, not necessarily painful

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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

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