

Sinus Bradycardia



Characteristics

Normal sinus rhythm with a heart rate <60 bpm
Consistent P wave
PR: 0.12-0.20
QRS: <0.12
QT: <1/2 R to R

Physical Manifestations

May be asymptomatic
Lightheaded
Syncope
Chest pain
Hypotension

Treatment

Treat symptomatic bradycardia:
Atropine
Epinephrine
External Pacemaker in an emergency

Sinus Tachycardia



Characteristics

Normal sinus rhythm with a heart rate of >100 bpm
Consistent P wave
PR: 0.12-0.20
QRS: <0.12
QT: <1/2 R to R

Physical Manifestations

Subjective: feeling of anxiety, racing heart, or chest pain
Objective: decreased BP,

Treatment

Sinus tachycardia is always a symptom of something else: treat the underlying cause
Encourage rest
Administer CCBs like Cardizem or diltiazem

Atrial Fibrillation



Characteristics

A lot of ectopic cells in atria causing it to be "irregularly irregular."
Paroxysmal or persistent
Random QRS spacing
No clear P wave

Physical Manifestations

Irregular fast heart rate
Patients may feel like their heart is racing, or chest pain

Treatment

Because of the increased risk of clots you want to give blood thinners like heparin
Control HR: give CCBs (Cardizem), amiodarone
Cardioversion in extreme cases

Atrial Flutter



Characteristics

A lot of ectopic foci synchronized with each other. SA node firing over and over again. No pause for QRS
HR: <200, no P wave, skinny QRS
Regular saw tooth wave pattern

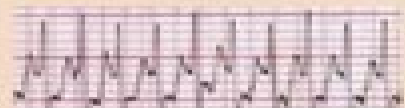
Physical Manifestations

LOC changes
Irregular fast heart rate
Patient may feel like their heart is racing, chest pain

Treatment

Give Heparin and amiodarone
Cardiovert back into sinus rhythm
Long-term: Beta blockers (metoprolol), CCBs (Cardizem)

Supraventricular Tachycardia



Characteristics

HR >100 (faster than sinus tach)
Skinny QRS, lump in middle
Paroxysmal
Sinus node is not getting a chance to fire

Physical Manifestations

Fainting, dizziness
Chest pain
Rapid pulse
Diaphoretic

Treatment

1: Vagal Maneuvers (like a deep cough)
2: Stable: give Adenosine rapid IV push (6-12-12)
3: Unstable: Cardioversion

Ventricular Tachycardia



Characteristics

Fast PVCs, no atrial kick
Paroxysmal
HR: 150s, fast but not as fast as SVT
No P wave

Physical Manifestations

Cardiac Arrest!!
SOB, chest pain, dizzy, lightheaded, nausea
Palpitations

Treatment

Pulseless: code, CPR, Defib
Unstable w/ pulse: cardioversion (keep filling pulse)
Stable: Try vagal maneuver and adenosine. Amiodarone, cardioversion

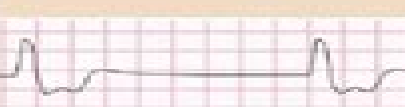
Ventricular Fibrillation



Characteristics

A lot of ectopic foci in ventricles
No P, QRS, T
Basically a wavy line
Lethal

Idioventricular



Characteristics

HR: slow, 40-60
No P wave
QRS: abnormal wide shape (>.12)
SA node does not fire, AV node takes over

Ecg National Study Guide Answers

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Ma,David Cline,Rita Cydulka,Garth
Meckler**

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Professional Careers Sourcebook Sara T. Bernstein, Kathleen M. Savage, 1995-09 Where to find help planning careers that require college or technical degrees **EKG Technician** National Learning Corporation, 2018 Frequently reprinted with the same ISBN but slightly differing bibliographical details *National Boards Examination Review for Part III* Barbara Ann Allen, 1989 *Tintinalli's Emergency Medicine: A Comprehensive Study Guide, Seventh Edition* Judith Tintinalli, J. Stapczynski, O. John Ma, David Cline, Rita Cydulka, Garth Meckler, 2010-11-12 The landmark emergency medicine text is now in full color 17 additional chapters available for download With 418 contributors representing over 120 medical centers around the world Tintinalli's Emergency Medicine is the most practical and clinically rigorous reference of its kind It covers everything from prehospital care disaster preparedness and basic resuscitative techniques to all the major diseases requiring emergency treatment such as pulmonary emergencies renal and GU disorders and hemophilia This authoritative in depth coverage makes this classic text indispensable not only in emergency departments but also for residents and practitioners when studying or preparing for any exam they may face While continuing to provide the most current information for acute conditions the seventh edition of Tintinalli's Emergency Medicine has been substantially revised and updated to cover all of the conditions for which patients seek emergency department care in a concise and easy to read manner NEW Features Full color design with more figures and tables than ever Reader friendly chapter presentation makes it easy to find important material Updated tables covering drugs and important clinical information Patient safety considerations and injury prevention are integrated into chapters as appropriate Total revision of the dermatology section enables diagnosis by lesion description and body area affected and provides current treatment Organ systems sections reorganized to reflect considerations for actual clinical practice New chapters New adult chapters include Natural Disasters Aneurysms of the Aorta and Major Arteries Hip and Knee Pain Aortic Dissection Acute Urinary Retention Subarachnoid Hemorrhage and Intracranial Bleeding Clotting Disorders Community acquired Pneumonia and Noninfectious Pulmonary Infiltrates Type I Diabetes Type II Diabetes Anemia Tests of Hemostasis Clotting Disorders Head Injury in Adults and Children the Transplant Patient Grief Death and Dying and Legal Issues in Emergency Medicine Twelve new pediatric chapters including The Diabetic Child Hematologic Oncologic Emergencies Ear and Mastoids Eye Problems in Infants and Children Neck Masses GI Bleeding Nose and Sinuses Urologic and Gynecologic Procedures in children Renal emergencies in children Behavioral and Psychiatric Disorders in children Pediatric Procedures Pediatric ECG Interpretation Greater coverage of procedures throughout for the most common conditions seen in the emergency department Available content for download includes an additional 17 chapters such as Hyperbaric Oxygen Therapy Principles of Imaging Prison Medicine Military Medicine The Violent Patient Forensics Wound Ballistics and Drug Interactions Free downloads also feature videos and animations for teaching and learning performance of important procedures especially Ultrasound Guided Procedures Emergency, 1991

LANGE Vascular and Endovascular Surgery: Clinical Diagnosis and Management Munier Nazzal, John

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