

The Ultimate ACS Study Guide

Advanced Cardiac Life Support (ACLS) provides guidelines for healthcare professionals for all types of cardiac emergencies.



EKG Anatomy



P-Wave = electrical activity in the upper heart chambers; represents contraction of SA node and AV node.

PR Interval = time from P wave to QRS complex.

QRS Complex = ventricular depolarization.

ST Segment = transition from ventricular depolarization to repolarization. Repolarization starts at the end of the QRS complex.

T-Wave = repolarization of upper heart.

ECG Rhythms

Ventricular Fibrillation - no organized blood, immediate defibrillation.

Ventricular Tachycardia - ventricular arrhythmia. Heart rate 100-250 bpm. Immediate cardioversion.

P纈tential &逸搏 (Fibrillation Activity) - fibrillation rate 300-500 bpm.

Atrial Fibrillation - on EKG, if leads are all connected, begin CPR immediately.

Sinus Bradycardia - rate less than 60 bpm, no cause/minute. Prolonged PR interval if not otherwise.

1st Degree AV Block - prolonged PR interval. Rhythm normal.

2nd Degree Block Type I - Wenckebach - progressive PR interval lengthening. Gradual complete. Rhythm requires treatment.

2nd Degree Block Type II - Mobitz I - ventricular逸搏 (fibrillation activity). Usually no pulse.

3rd Degree Block - between SA and AV nodes. Complete heart block. Prolonged PR interval.

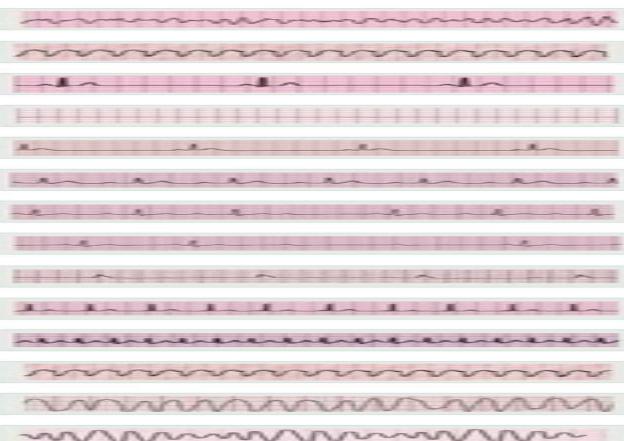
Sinus Tachycardia - increased heart rate of 100-150 beats per minute. No cause/minute. Rhythm normal.

Supraventricular Tachycardia - increased heart rate of 150-250 beats per minute. No cause/minute. Rhythm normal.

Monomorphic Ventricular Tachycardia - no cause/minute. Rhythm normal. Prolonged PR interval.

Polyomorphic Ventricular Tachycardia - no cause/minute. Different shapes and rates.

Torsades de Pointes - different shapes of QRS complexes. Forms a spiral pattern. No cause/minute - treat with magnesium.



Electrical Therapy Basics



Defibrillation - uses an automated external defibrillator (AED).

Synchronized Cardioversion - synchronized to the heart's rhythm.

Transcutaneous Pacing - treats abnormally slow heart rate.

Airway Management



Adjuncts

- Oropharyngeal (OP) airway - use for unconscious patients with a gag reflex.
- Nasopharyngeal (NP) airway - use for unconscious patients without a gag reflex. NEVER USE WITH A HEAD INJURY.

Advanced Airways - recommended method, use with intubation with capnography.

- Endotracheal intubation - use capnography.
- Combitube andotracheal airway (C-MA) - use if unfamiliar with endotracheal tube.

Post-Resuscitation Care



Follow the ABCs:

- Airway - maintain ventilation and oxygenation.
- Breathing - keep PETCO₂ between 35-40mmHg.
- Circulation - use 100% oxygen at a pressure of 90mmHg for 100% oxygen delivery.

Acute Coronary Syndromes (ACS)

Unstable Angina

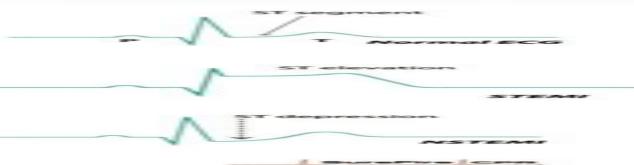
- Unexpected chest pain due to poor blood flow.
- Increased pain.
- Blood thinners - open a narrow or blocked artery.

ST-segment Elevation MI (STEMI)

- Total blockage of a coronary artery.
- Electrical activity during the ST-segment shows ST-segment elevation.
- Coronary intervention (PCI) or emergency CABG surgery.

Non-ST-segment Elevation MI (NSTEMI)

- Partial blockage of a coronary artery.
- ST-segment depression instead of elevated, no elevation.
- Inflammation.
- Immediate PCI or emergency CABG surgery.
- Coronary artery bypass grafting (CABG) surgery.



Stroke Assessment and Treatment

Stroke is a frequent complication after an acute ischemic stroke. If a stroke is suspected, immediately transport to the nearest Stroke Receiving Center.

Cincinnati Prehospital Stroke Scale:

1. Age over 60
2. Arm drift
3. Speech

“You can't teach an old dog new tricks”



Code Termination

Consult with medical control before code termination.



- Persistent asystole 25 minutes or longer.
- Obvious signs of death, withhold resuscitation efforts.

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Proceedings and Addresses of the American Philosophical Association American Philosophical Association, 2012 List of members in v 1 **Title 50 Wildlife and Fisheries Parts 600 to 659 (Revised as of October 1, 2013)** Office of The Federal Register, Enhanced by IntraWEB, LLC, 2013-10 50 CFR

Wildlife and Fisheries **Differenzialdiagnose Innerer Krankheiten** Edouard Battegay, 2017-04-05 Die Differenzialdiagnose ist Kern der ärztlichen Kunst und vielfach kein linearer Prozess. Eine zielgerichtete differenzialdiagnostische Abklärung setzt Wissen und Erfahrung voraus und stellt so manchen Arzt vor Herausforderungen. Dieses Werk führt Sie effektiv und evidenzbasiert vom Symptom zur Diagnose. Erfahren Sie wie Sie Leitsymptome und Symptomkomplexe erkennen und abklären. Patientenanamnese im diagnostischen Prozess bewusst führen. Erkenntnisse gewichteten Verdachtsdiagnosen bestätigen wichtige Triage Entscheide treffen wachsam bleiben und sich in komplexen Situationen schnell orientieren. Fehlerbergreifende und vernetzte Darstellungen helfen Ihnen dabei Zusammenhang systematisch zu verstehen. Nützliches Bildmaterial, übersichtliche Tabellen und klare Stufenkonzepte sind einprägsam gestaltet. Profitieren Sie von mehr als 60 Jahren Erfahrung bei der Differenzialdiagnose innerer Erkrankungen und vertrauen Sie bei Ihrer Entscheidungsfindung auf DAS bewährte und moderne Referenzwerk in welchem die Experten ihr Denken und Ihre Erfahrungen auf den Punkt bringen. Jederzeit zugreifen. Der Inhalt des Buches steht Ihnen ohne weitere Kosten digital in der Wissensplattform eRef zur Verfügung. Zugangscode im Buch. Mit der kostenlosen eRef App haben Sie zahlreiche Inhalte auch offline immer griffbereit.

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Schwinghammer,2017-06-22 More than 150 patient cases teach you how to apply the principles of pharmacotherapy to real world clinical practice The essential study companion to DiPiro s Pharmacotherapy A Pathophysiologic Approach 10th Edition Pharmacotherapy Casebook A Patient Focused Approach uses 157 patient cases to help you develop the skills necessary to identify and resolve the most common drug therapy problems encountered in daily clinical practice The case chapters are organized into organ system sections that correspond to those of the companion textbook This proven effective case based approach makes the book perfect for PharmD Nursing Nurse Practitioner and other allied health courses Sharpen your ability to Identify actual or potential drug therapy problems Determine the desired therapeutic outcome Evaluate therapeutic alternatives Design an optimal individualized pharmacotherapeutic plan Develop methods to evaluate the therapeutic outcome Provide patient education Communicate and the implement the pharmacotherapeutic plan Develop expertise in pharmacotherapy decision making with Realistic patient presentations that include medical history physical examination and laboratory data followed by a series of questions using a systematic problem solving approach A compelling range of cases from a single disease state to multiple disease states and drug related problems Expert coverage that integrates the biomedical and pharmaceutical sciences with therapeutics Appendices containing valuable information on medical abbreviations laboratory tests mathematical conversion factors and anthropometrics

The Writers Directory ,2013

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Reichman's Emergency Medicine Procedures, 3rd Edition Eric F.

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