

The Ultimate ACLS Study Guide

AN EASY-TO-USE GUIDE TO THE LATEST ECLS GUIDELINES FOR THE 2020 AHA ECLS COURSE



EKG Anatomy



P Wave - represents electrical activity in the SA Node. Prolonged P wave indicates a delay in conduction. **PR Interval** - represents the time between the P wave and the QRS complex. Prolonged PR interval indicates a delay in conduction. **QRS Complex** - represents the electrical activity of the ventricles. Prolonged QRS complex indicates a delay in conduction. **T Wave** - represents the electrical activity of the ventricles. Prolonged T wave indicates a delay in conduction.

ECG Rhythms

Ventricular Fibrillation Irregular, chaotic, no discernible P waves, QRS complexes, or T waves.	
Ventricular Tachycardia Rapid, regular, wide QRS complexes. P waves are not visible.	
Supraventricular Tachycardia Rapid, regular, narrow QRS complexes. P waves are visible.	
Atrial Fibrillation Irregular, rapid, narrow QRS complexes. P waves are not visible.	
Sinus Bradycardia Slow, regular, narrow QRS complexes. P waves are visible.	
1st Degree AV Block Prolonged PR interval. P waves are visible.	
2nd Degree Block Type I - Wenckebach Prolonged PR interval that gradually shortens until a QRS complex is dropped.	
2nd Degree Block Type II - Mobitz Prolonged PR interval that remains constant until a QRS complex is dropped.	
3rd Degree Block P waves and QRS complexes are dissociated. P waves are visible.	
Sinus Tachycardia Rapid, regular, narrow QRS complexes. P waves are visible.	
Supraventricular Tachycardia Rapid, regular, narrow QRS complexes. P waves are visible.	
Polymorphic Ventricular Tachycardia Rapid, irregular, wide QRS complexes. P waves are not visible.	
Idioventricular Tachycardia Rapid, regular, wide QRS complexes. P waves are not visible.	
Torsades de Pointes Rapid, irregular, wide QRS complexes. P waves are not visible.	



Electrical Therapy Basics



Defibrillation - use of external defibrillator (AED) to restore normal cardiac rhythm. **Synchronized Cardioversion** - shock synchronized to specific ECG. **Transcutaneous Pacing** - treats abnormally slow heart rate.

Airway Management



Adjuvants - **Oropharyngeal Airway** - use for unconscious patients. **Nasopharyngeal Airway** - use for unconscious patients. **Endotracheal Tube** - use for unconscious patients. **Bag-Valve-Mask** - use for unconscious patients. **Respiratory Support** - use for unconscious patients.

Post-Resuscitation Care

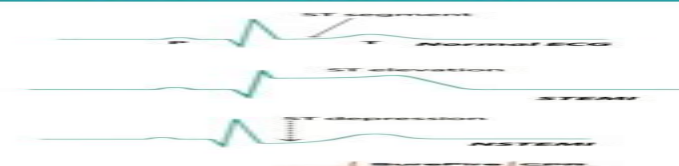


Follow the ABCs: **A**irway, **B**reathing, **C**irculation, **D**isability, **E**xposure. **Respiratory Support** - use for unconscious patients. **Circulation** - use for unconscious patients. **Disability** - use for unconscious patients. **Exposure** - use for unconscious patients.

Acute Coronary Syndromes (ACS)

Unstable Angina - chest pain due to poor blood flow. **Myocardial Infarction** - chest pain due to blocked blood flow. **Angioplasty** - use to open a narrow or blocked artery.

ST Segment Elevation MI (STEMI) - chest pain due to blocked blood flow. **Non-ST Segment Elevation MI (NSTEMI)** - chest pain due to blocked blood flow. **Unstable Angina** - chest pain due to poor blood flow.



Stroke Assessment and Treatment

Stroke Assessment - use of tools to assess the patient's condition. **Stroke Treatment** - use of tools to treat the patient's condition.

Cincinnati Prehospital Stroke Scale:

1. Arm Drift
2. Face Smiling
3. Language Speaking



Code Termination

Consult with medical control before code termination.

- 1. Exhaustive efforts 25 minutes or longer.
- 2. Obvious signs of death, without resuscitation efforts.



This is a study guide only. It is not a replacement for the official ACLS course. It should not be used as a substitute for professional medical advice.

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Tannys Williams



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 Ravi Kumar, 2025-06-02 The Text Book of Human Anatomy and Physiology I is a foundational resource tailored for students
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 the fields of medicine pharmacy and allied health sciences *Yearbook of International Organizations 2014-2015, Volumes
 1a & 1b (Set)* Union of International Associations, 2014-06-16 Volume 1 A and B covers international organizations
 throughout the world comprising their aims activities and events **Learning Science: Theory, Research, and Practice**
 Robert S. Feldman, 2019-08-09 Cutting edge insights and perspectives from today's leading minds in the field of learning
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Francophone D'Arthroscopie,Christel Conso,2023-01-10 Parmi les nombreuses actions que m ne la Soci t Francophone d Arthroscopie SFA figure en bonne place la formation continue des arthroscopistes en devenir mais aussi celle des chirurgiens plus exp riment s Devant les succ s de l ouvrage L Arthroscopie et afin de r pondre l volution des pratiques sp cifiques dans ce domaine la SFA a souhait d cliner les articulations dans des volumes s par s Ce cinqui me volume est consacr l arthroscopie du genou en augmentation croissante et accorde une large place toutes les volution s touchant cette articulation pathologie synoviale et cartilagineuse pathologie m niscale et pathologie ligamentaire et appareil extenseur Un nombre important de l sions pathologiques ou traumatologiques sont abord es tout au long de cet ouvrage les l sions ou d chirures des m nisques les entorses des ligaments crois s les reconstructions du ligament crois les l sions dues aux accidents du sport les l sions traumatiques du cartilage l arthrose les maladies ou arthrites inflammatoires les infections ou arthrites septiques du genou Le contenu exhaustif et didactique est enrichi de plus de 400 illustrations dessins anatomiques et clich s d arthroscopie et d une quarantaine de vid os afin d approcher au plus pr s la r alit du geste chirurgical Cet ouvrage s adresse tous les chirurgiens orthop distes jeunes praticiens et praticiens confirm s *Scholarships, fellowships and loans :a guide to education-related financial aid programs for students and professionals* ,2006 *Editor & Publisher Market Guide* ,1930

Canadian Almanac & Directory, 2015 Tannys Williams,2014-10 The Canadian Almanac Directory is the most complete source of Canadian information available cultural professional and financial institutions legislative governmental judicial and educational organizations Canada s authoritative sourcebook for al **Who's Who of American Women, 1997-1998** Marquis Who's Who,[Anonymus AC01783920],1996-12 WHO S WHO OF AMERICAN WOMEN is the one essential reference to depend on for accurate detailed facts on American women of achievement This new edition includes in depth biographical profiles of prominent accomplished women **Asian Studies Newsletter** ,1992 **Scholarships, Fellowships and Loans 1999** Gale Group,1998-09 *Gale's Guide to Nonprofits* ,2000 *Scholarships, Fellowships, and Loans* ,1999

CAA Newsletter ,1976

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Mark Dutton, 2025-07-25 The 1 most trusted evidence based text in orthopaedic physical therapy The definitive text for orthopedic students Dutton's Orthopaedic Examination Evaluation and Intervention delivers a logical systematic approach to hands on orthopedic treatment This new edition offers the perfect balance in its coverage of the continuum of care emphasizing the appropriate use of manual techniques and therapeutic exercise while outlining the correct applications of multiple adjuncts to the rehabilitative process Aided by decision making algorithms this comprehensive guide covers anatomy biomechanics examination and treatment of each joint and region and features Evidence based and written by a prominent practicing therapist this is an essential resource for physical therapy students and practitioners Dutton's Orthopaedic Examination Evaluation and Intervention Seventh Edition includes 1 200 photos and illustrations depict orthopedic techniques Videos on testing and method techniques available on AccessPhysiotherapy Essential information on balance pain assessment gait and concussions Incorporates the APTA Practice Patterns to address certain dysfunctions

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