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ACLS Acute Coronary Syndromes and Stroke

Acute Coronary Syndromes Algorithm

1. Recognize and respond to a patient with chest pain or discomfort.

2. Obtain 12-lead ECG within 10 minutes.

3. Assess for ST-segment elevation myocardial infarction (STEMI).

4. If STEMI, initiate reperfusion therapy (Primary PCI or Fibrinolysis).

5. If NSTEMI/UA, assess for high-risk features.

6. If high-risk, initiate aspirin, P2Y12 inhibitor, and beta-blocker.

7. If low-risk, consider aspirin and statin.

8. Monitor for complications and provide supportive care.

9. Refer to a specialist for further management.

10. Document and communicate.

Pediatric Cardiac Arrest Algorithm

1. Start CPR (Begin high-quality chest compressions and provide oxygen).

2. Check for rhythm: VF/VT or Asystole/PEA.

3. If VF/VT, Shock, then CPR 2 min, then Rhythm check.

4. If Rhythm check is VF/VT, Shock, then CPR 2 min, then Rhythm check.

5. If Rhythm check is Asystole/PEA, then CPR 2 min, then Rhythm check.

6. If Rhythm check is VF/VT, Shock, then CPR 2 min, then Rhythm check.

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29. If Rhythm check is Asystole/PEA, then CPR 2 min, then Rhythm check.

30. If Rhythm check is VF/VT, Shock, then CPR 2 min, then Rhythm check.

ACLS Study Guide

1. Review the ACLS course objectives and outcomes.

2. Review the ACLS course content and objectives.

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Advanced Cardiac Life Support (ACLS) Review
[WWW.RN.ORG](http://www.rn.org)
 Reviewed December, 2015, Expires December, 2017
 Provider Information and Specifics available on our Website
 Unauthorized Distribution Prohibited
 ©2015 RN.ORG®, S.A., RN.ORG®, LLC
 Developed by Dana Bartlett, RN, MSN
 By Melissa K Slate, RN, BA, MA

Advanced cardiac life support (ACLS) is a two day course that teaches students to recognize and treat cardiac arrest, arrhythmias, acute coronary syndromes, stroke, cardiac arrest in the pregnant woman, and cardiac arrest in situations involving drug overdose, drowning, anaphylaxis, hypothermia, and electrocution. The ACLS course involves lectures, self-study, and simulations of the medical emergencies. Drugs, advanced airways, defibrillation, cardioversion, cardiac pacing, are all covered.

OBJECTIVES

- When the student has finished this module, he/she will be able to:
1. Identify VF, pulseless VT, and PEA.
 2. Know the indications for using amiodarone.
 3. Identify the basic principles of stroke care.
 4. Recognize the components of a basic stroke assessment.
 5. Identify the appropriate treatment for STEMI.
 6. Identify the indications for using adenosine.
 7. Correctly identify aspects of the ACLS algorithm for tachycardia.
 8. Recognize the indications/safety measures of using defibrillation, cardioversion.
 9. Identify a basic method of arrhythmia recognition.
 10. Identify the indications for using vasopressin.
 11. Recognize three conditions for which epinephrine is a first-line treatment.
 12. Identify the ECG characteristics of third-degree heart block.
 13. Identify the antidote for digoxin toxicity.
 14. Identify the primary use for atropine, and the correct dose.
 15. Recognize treatments for cardiac arrest caused by drowning, hypothermia
 16. Recognize treatments for cardiac arrest caused by electrocution, anaphylaxis.
 17. Recognize how to treat cardiac arrest in pregnant women and after an overdose.
 18. Identify four therapies that should not be routinely used to treat cardiac arrest.

