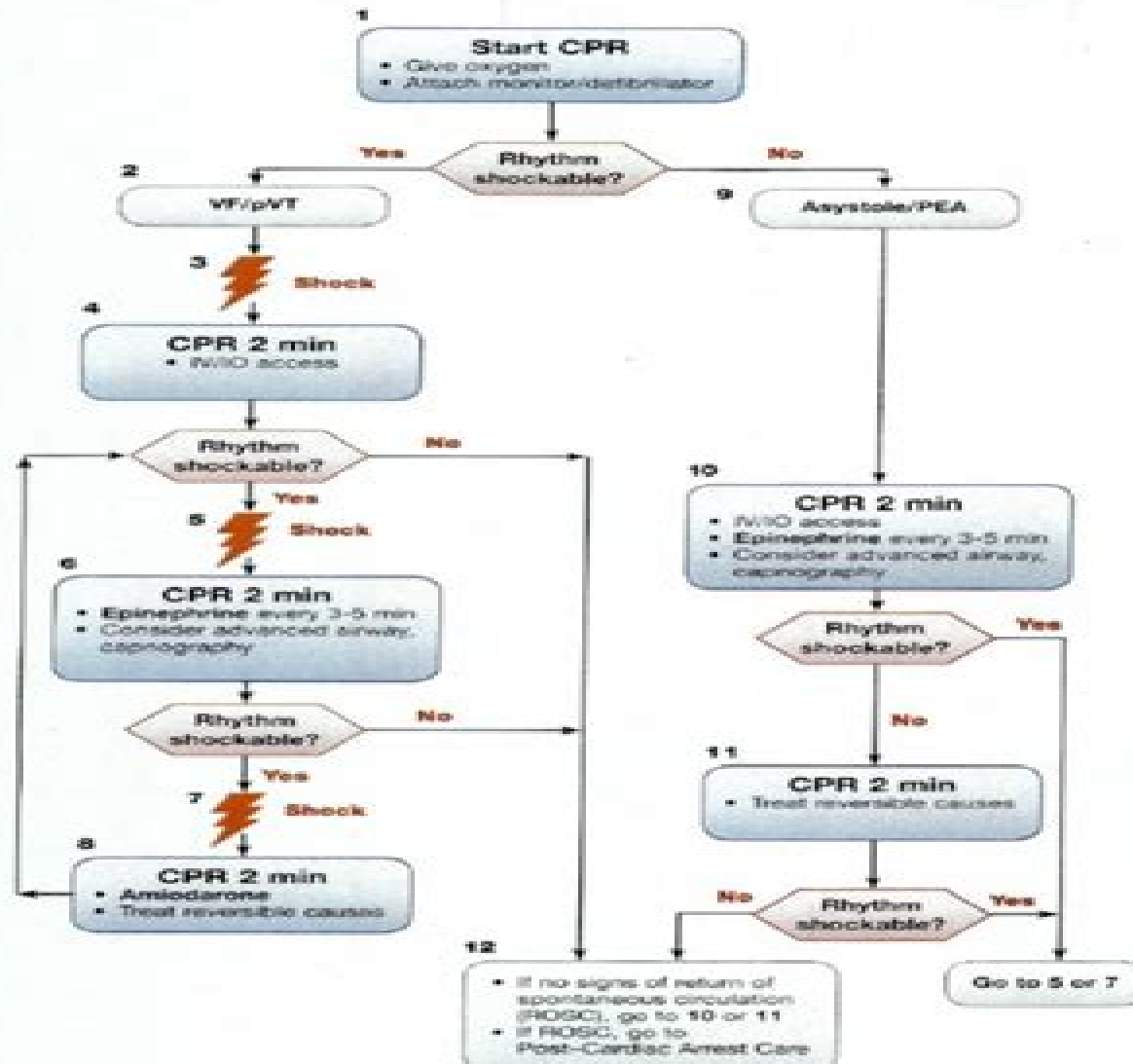


# Adult Cardiac Arrest Algorithm – 2015 Update

## Advanced Cardiovascular Life Support



### CPR Quality

- Push hard (at least 2 inches/5 cm) and fast (100-120/min) and allow complete chest recoil.
- Minimize interruptions in compressions.
- Avoid excessive ventilation.
- Rotate compressor every 2 minutes, or sooner if fatigued.
- If no advanced airway, 30:2 compression-ventilation ratio.
- Quantitative waveform capnography
  - If P<sub>ETCO<sub>2</sub></sub> <10 mm Hg, attempt to improve CPR quality.
- Intra-arterial pressure
  - If relaxation phase (diastolic) pressure <20 mm Hg, attempt to improve CPR quality.

### Shock Energy for Defibrillation

- Biphasic: Manufacturer recommendation (eg, initial dose of 120-200 J; if unknown, use maximum available). Second and subsequent doses should be equivalent, and higher doses may be considered.
- Monophasic: 360 J

### Drug Therapy

- Epinephrine RVO dose: 1 mg every 3-5 minutes
- Amlodarone RVO dose: 1 mg dose, 500 mg bolus. Second dose: 150 mg.

### Advanced Airway

- Endotracheal intubation or supraglottic advanced airway
- Waveform capnography or capnometry to confirm and monitor ET tube placement
- Once advanced airway in place, give 1 breath every 8 seconds (10 breath/min) with continuous chest compressions

### Return of Spontaneous Circulation (ROSC)

- Pulse and blood pressure
- Abrupt sustained increase in P<sub>ETCO<sub>2</sub></sub>, typically >10 mm Hg
- Spontaneous arterial pressure waves with intra-arterial monitoring

### Reversible Causes

- Myocarditis
- Myocard
- Hydrogen ion (acidosis)
- Hypo-/Hyperkalemia
- Hypothermia
- Tension pneumothorax
- Tamponade, cardiac
- Toxins
- Thrombosis, pulmonary
- Thrombosis, coronary



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**Edward R. Yeomans, Barbara L.  
Hoffman, Larry C. Gilstrap, F. Gary  
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S. MELONI, M. Mastenbjörk, 2021-08-20 The content in this handbook is in compliance with the latest 2020 guidelines recently released by the American Heart Association AHA All the protocols illustrated here are based on up to date evidence These guidelines are updated every 5 years This handbook is designed for all medical professionals who undergo ACLS training It aims to establish a sound understanding of the principles of ACLS and the latest guidelines 2020 American Heart Association Guidelines for CPR and ECC American Heart Association, 2020-11-04 20 1101 **Advanced Cardiovascular Life Support** American Heart Association, 2011 Product 90 1014 *ACLS Fundamentals* Adam Voydik, 2021-12-17 This book details Advanced Cardiovascular Life Support ACLS content per the current 2020 American Heart Association AHA emergency cardiovascular care ECC guidelines This book is supplementary to the AHA ACLS Provider Manual and must not be construed as a primary reference document for ECC guidelines ACLS ECC guidelines direct adult oriented patient care whereby ACLS providers administer medications navigate treatment algorithms interpret electrocardiograms ECG and communicate effectively with team members ACLS Fundamentals breaks down the core concepts required to pass the ACLS Provider course The chapters of this book build on one another to reinforce memory retention The ACLS Provider Manual numbers 202 pages and covers a great deal of information ACLS Fundamentals ideally familiarizes the reader with ACLS in a concise manner All AHA courses are OPEN RESOURCE and allow for the use of the provider manual algorithm sheets and notes This book is written as a quick read ACLS Fundamentals utilizes simple diagrams checks on learning a pre and posttest mnemonics and video links to ensure content mastery Attempt the ACLS course shortly after reading this book to maximize your success The author of this book instructs ACLS per the AHA s published curriculum is a Certified Flight Paramedic and Nationally Registered Paramedic with 15 years of experience working in the critical care setting The proceeding content mirrors the author s teaching style which has aided numerous students to pass the AHA s ACLS Provider course on their first attempt

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