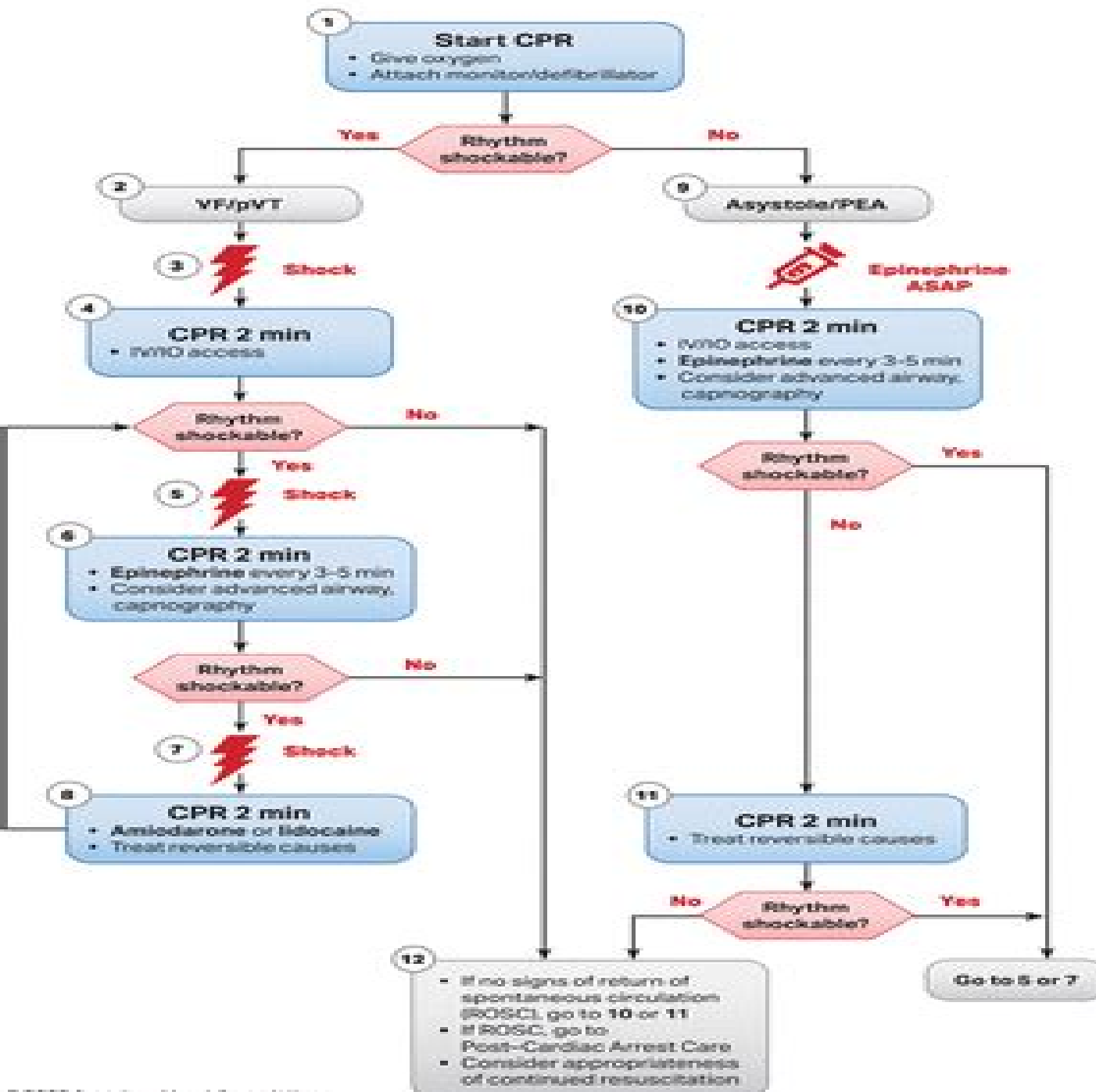


Adult Cardiac Arrest Algorithm



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.
- Change compressor every 2 minutes, or sooner if fatigued.
- If no advanced airway, 30:2 compression-ventilation ratio.
- Quantitative waveform capnography
 - If P_{ETCO_2} is low or decreasing, reassess 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 IV/IO dose:** 1 mg every 3-5 minutes
- Amiodarone IV/IO dose:** First dose: 300 mg bolus. Second dose: 150 mg, or **Lidocaine IV/IO dose:** First dose: 1-1.5 mg/kg. Second dose: 0.5-0.75 mg/kg.

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 6 seconds (10 breath/min) with continuous chest compressions

Return of Spontaneous Circulation (ROSC)

- Pulse and blood pressure
- Absent sustained increase in P_{ETCO_2} , typically >40 mm Hg
- Spontaneous arterial pressure waves with intra-arterial monitoring

Reversible Causes

- Hypovolemia
- Hypoxia
- Hydrogen ion (acidosis)
- Hypo-/hyperkalemia
- Hypothermia
- Tension pneumothorax
- Tamponade, cardiac
- Toxins
- Thrombosis, pulmonary
- Thrombosis, coronary

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**Dean R. Hess, Neil R.
MacIntyre, William F. Galvin**

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Swartz's Textbook of Physical Diagnosis - E-BOOK Mark H. Swartz, 2024-12-20 Offering a compassionate humanistic approach in this critical area Swartz Textbook of Physical Diagnosis Ninth Edition helps you master each aspect of the art and science of interviewing and physical examination This highly regarded text clearly teaches how your interpersonal awareness is just as crucial during the patient interview and physical exam as your level of skill and why clinical competence in this area is essential for physicians osteopathic physicians nurse practitioners physician assistants nurses and all other members of the healthcare profession From cover to cover you ll learn fundamental skills and concepts that result in more accurate diagnoses more effective patient management and better patient outcomes Offers fully revised content throughout including clear easy to understand explanations of interviewing and examination techniques clinical presentations pathophysiology complementary and alternative medicine and physical diagnosis standards and tests Includes three new chapters The Transgender Patient Artificial Intelligence in Clinical Encounters Opportunities and Challenges and Telehealth Adapting Clinical Assessment Explores how cultural differences can influence communication diet family relationships and health practices and beliefs which may affect your approach to a patient s treatment Features hundreds of high quality color images an easy to use design and detailed descriptions of practical techniques throughout Contains new end of chapter review questions in most chapters Highlights clinical ethics and professionalism Includes more than 6 hours of in depth instruction with 40 updated videos featuring step by step aspects of the physical examination for adults toddlers and newborns important interviewing scenarios and audio of heart and lung sounds Features online appendices covering English to Spanish Translations Useful in the Medicine Setting Commonly Misused Substances Signs and Symptoms of Deficiency States and more Evolve Instructor site with an image collection and videos is available to instructors through their Elsevier sales rep or via request at <https://evolve.elsevier.com>

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