



CARDIOPULMONARY ARREST – ADULT / ADOLESCENT NON-TRAUMATIC

**Ventricular fibrillation (VF)
OR
Pulseless Wide Complex Tachycardia (VT)**

1. Initiate or continue CPR and as soon as defibrillator available:
 - ▶ Defibrillate once at maximum energy setting or pre-programmed/manufacturer's recommended defibrillator setting

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2. If before loading and initiation of transport, a rhythm with pulse develops (return of spontaneous circulation [ROSC]):
 - Ventilate and oxygenate
 - Assess for and correct suspected:
 1. hypoxia
 2. hypovolemia
 3. hypoglycemia
 4. hypothermia
 - Make Base contact for CVRC destination

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3. If remains pulseless:
 - Maintain CPR
 - ▶ High-flow oxygen by BVM
 - IV/IO vascular access without interruption of CPR

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4. Monitor cardiac rhythm:
 - If continued VF/pulseless Wide Complex Tachycardia
 - ▶ Defibrillate once at maximum energy setting or pre-programmed/manufacturer's recommended defibrillator setting
 - If PEA or asystole: refer to PEA/Asystole treatment sequence

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5. For continued VF/ pulseless Wide Complex Tachycardia or if reverts back to VF/ pulseless Wide Complex Tachycardia:
 - Maintain CPR, apply Automatic Chest Compression Device, when available
 - ▶ Administer *Epinephrine 1 mg IV/IO (0.1 mg/mL preparation)*, repeat approximately every 3 minutes for continued VF/pulseless Wide Complex Tachycardia
 - ▶ Advanced airway with minimal interruption of CPR and confirm tube placement.

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6. For continued VF/pulseless Wide Complex Tachycardia:
 - Maintain CPR
 - ▶ Defibrillate once at maximum energy setting or pre-programmed/manufacturer recommended defibrillator setting.

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7. For continued VF/ pulseless Wide Complex Tachycardia:
 - Maintain CPR
 - ▶ Administer *Amiodarone 300 mg IV/IO, may repeat 150 mg IV/IO in approximately 3minutes*

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8. After approximately 2 minutes of CPR, if there is continued VF/pulseless Wide Complex Tachycardia:
 - ▶ Defibrillate once at maximum energy setting or pre-programmed/manufacturer's recommended defibrillator setting

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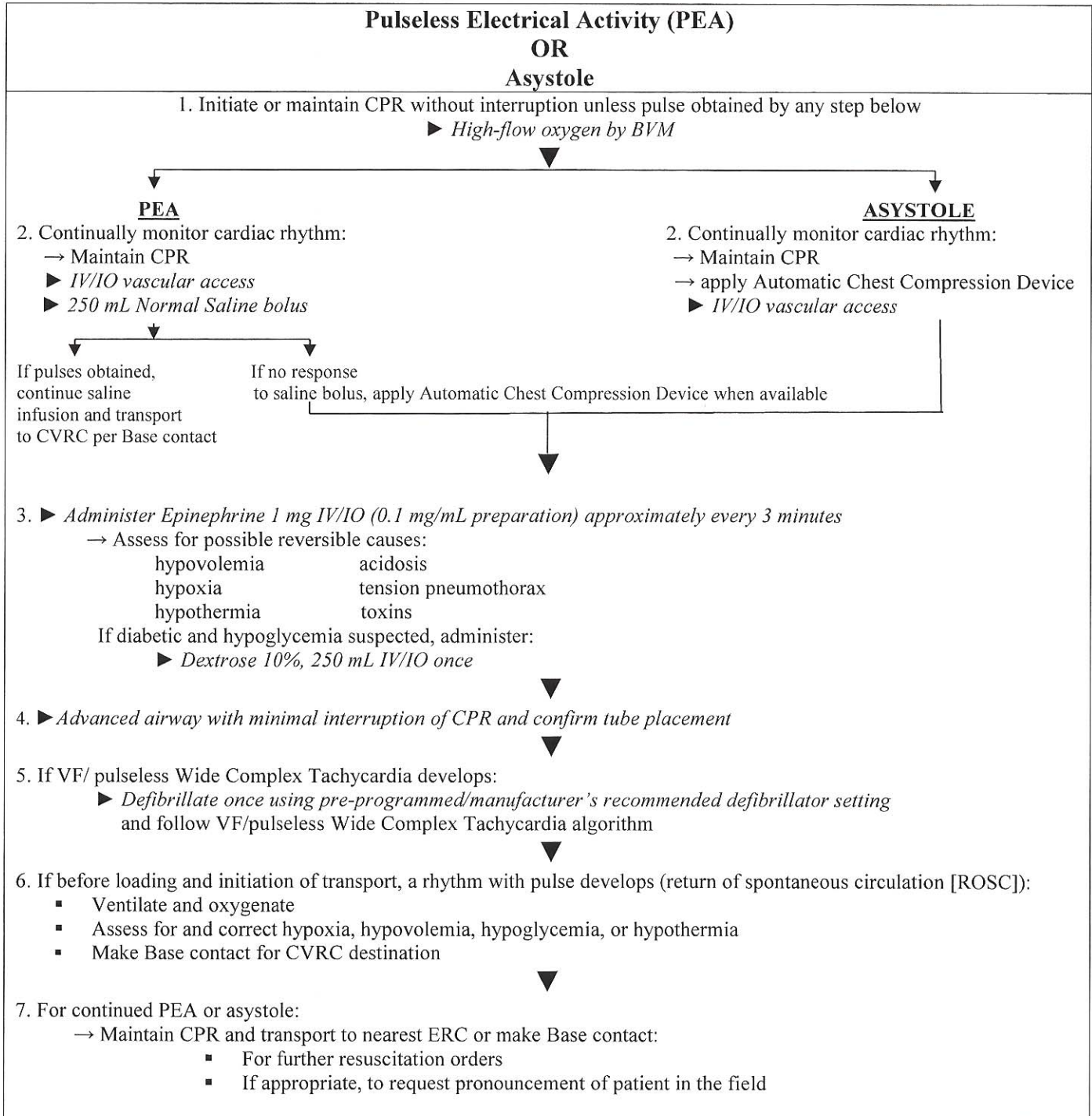
9. For continued VF/ pulseless Wide Complex Tachycardia:
 - Maintain CPR and transport to nearest ERC or make Base contact:
 - For further resuscitation orders
 - If appropriate, To request pronouncement of patient in the field

Approved:

Review Dates: 11/16, 9/18
Initial Release Date: 10/5/2018
Final Date for Implementation: 04/1/2019
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TREATMENT GUIDELINES:

- Agonal gasps are not adequate breathing and when accompanied with a pulseless state the patient should be considered to be in full cardiopulmonary arrest.
- If the patient has an implanted pacemaker or defibrillator/pacemaker, place electrode pads to either side and not directly on top of the implanted device.
- If the patient has a medication patch in place on the chest area, remove the patch and wipe the area clean before attaching an electrode pad.
- Automatic Chest Compression devices should be applied as soon as available for patients with pulseless rhythms or asystole and for whom CPR is to be continued.
- Appropriate advanced airway includes:
 1. Endotracheal intubation
 2. Supraglottic device (Laryngeal Mask Airway)
 3. King® airway
 4. Combitube®
- If a patient is wearing a LifeVest®
 - Proceed with standard evaluation and treatment measures.
 - Initiate CPR unless the vest device is broadcasting “press the response buttons,” “electrical shock possible, do not touch patient,” or “bystanders do not interfere.”
 - Follow standard treatment as described in algorithms above and remove the LifeVest® and monitor/treat the patient with the standard monitor-defibrillator.
 - To remove the LifeVest®, first pull out or disconnect the battery, then remove the garment from the patient.
 - Take vest, modem, charger, and extra battery to the hospital.
- If Base Hospital orders push-dose epinephrine for refractory hypotension, refer to ALS Procedure # 230 (Push-Dose Epinephrine) for technique in performing procedure.

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