

CARDIAC ARREST (ATRAUMATIC)	
ADULT	PEDIATRIC (≤34 KG)
BLS Procedures	
<ul style="list-style-type: none"> Universal Algorithm #601 High Performance CPR (HPCPR) (10:1) per Procedure #712 <ul style="list-style-type: none"> Continuous compressions with 1 short breath every 10 compressions AED application (if shock advised, administer 30 compressions prior to shocking) Pulse Oximetry <ul style="list-style-type: none"> O₂ administration per Airway Management Protocol #602 	<ul style="list-style-type: none"> Same as Adult CPR compression to ventilation ratio <ul style="list-style-type: none"> Newborn - CPR 3:1 Neonate - 1 day to 1 month – CPR 15:2 >1 month – HPCPR 10:1 AED – pediatric patient >1 year Use Broselow tape or equivalent if available
ALS Procedures	
<p>Rhythm analysis and shocks</p> <ul style="list-style-type: none"> At 200 compressions begin charging the defibrillator while continuing CPR Once fully charged, stop CPR for rhythm analysis Defibrillate V-Fib/Pulseless V-tach – Shock at the maximum manufacturer setting and immediately resume CPR. Subsequent shocks will also be at the maximum manufacturer setting. After 3rd shock, pt remains in refractory V-Fib or V-Tach, consider vector change defibrillation. (See notes) No shock indicated – dump the charge and immediately resume CPR <p>V-Fib/Pulseless V-Tach and Non-shockable Rhythms</p> <ul style="list-style-type: none"> Epinephrine 1:10,000 1mg IV/IO repeat every 3-5 min <ul style="list-style-type: none"> Do not give epinephrine during first cycle of CPR <p>V-Fib/Pulseless V-Tach</p> <ul style="list-style-type: none"> Amiodarone 300mg IV/IO push; if rhythm persists after 5 min, administer 150mg IV/IO push refractory dose. <p>ROSC with Persistent Hypotension</p> <ul style="list-style-type: none"> Push-Dose Epinephrine 10 mcg/ml 1ml IV/IO every 1-3 min 	<ul style="list-style-type: none"> <u>Emphasize resuscitation and HPCPR rather than immediate transport</u> <p>Rhythm analysis and shocks</p> <ul style="list-style-type: none"> Coordinate compressions and charging same as adult Defibrillate V-Fib/Pulseless V-Tach – shock at 2 J/kg and immediately resume CPR <ul style="list-style-type: none"> Subsequent shock, after 2 mins of CPR: 4J/kg Recurrent V-Fib/Pulseless V-tach use last successful shock level No shock indicated – dump the charge and immediately resume CPR <p>V-Fib/Pulseless V-Tach and Non-shockable Rhythms</p> <ul style="list-style-type: none"> Epinephrine 1:10,000 0.01 mg/kg (0.1 ml/kg) IV/IO not to exceed 0.3mg, repeat every 3-5 min <ul style="list-style-type: none"> Do not give epinephrine during first cycle of CPR <p>V-Fib/Pulseless V-Tach</p> <ul style="list-style-type: none"> Amiodarone 5mg/kg IV/IO push; repeat every 5 min to a max of 15mg/kg. ROSC with HR < 60; 1 round of CPR and reassess (No EPI 1:10,000 unless pulseless)

<ul style="list-style-type: none"> • Repeat as needed titrated to SBP >90mmHg • <u>See notes for mixing instructions</u> <p><u>OR</u></p> <ul style="list-style-type: none"> • Epinephrine Drip start at 10 mcg/min IV/IO infusion • Consider for extended transport • <u>See formulary for mixing instructions</u> 	
Base Hospital Orders Only	
<p>Contact STEMI Receiving Center (French Hospital)</p> <ul style="list-style-type: none"> • Refractory V-Fib or V-Tach not responsive to treatment • Request for a change in destination if patient rearrests en route • Termination orders when unresponsive to resuscitative measures • As needed <p>Contact the appropriate Base Station per Base Station Report Policy #121- Atraumatic cardiac arrest due to non-cardiac origin (OD, drowning, etc.)</p>	<p>Contact closest Base Hospital for additional orders</p> <p>ROSC with Persistent Hypotension for Age</p> <ul style="list-style-type: none"> • Push-Dose Epinephrine 10 mcg/ml 1 ml IV/IO (0.1 ml/kg if <10kg) every 1-3 min <ul style="list-style-type: none"> • Repeat as needed titrated to age appropriate SBP • <u>See notes for mixing instructions</u> <p><u>OR</u></p> <ul style="list-style-type: none"> • Epinephrine Drip start at 1 mcg/min, up to max of 10 mcg/min IV/IO infusion • Consider for extended transport • <u>See formulary for mixing instructions</u> • As needed
Notes	
<ul style="list-style-type: none"> • <u>Mixing Push-Dose Epinephrine 10 mcg/ml (1:100,000):</u> Mix 9 ml of Normal Saline with 1 ml of <u>Epinephrine 1:10,000</u>, mix well. • Use manufacturer recommended energy settings if different from listed. • Assess for reversible causes: tension PTX, hypoxia, hypovolemia, hypothermia, hyperkalemia, hypoglycemia, overdose. • Vascular access – IV preferred over IO – continue vascular access attempts even if IO access established). • Consider Oral Intubation or Supraglottic Airways (Adults), provider discretion. • If the provider cannot accomplish an ALS airway, they should document in the PCR why an ALS airway wasn't accomplished. • Once an SGA has been placed, it should not be removed for an ETI. • <u>Stay on scene</u> to establish vascular access, provide for airway management, and administer the first dose of epinephrine followed by 2 min of HPCPR. • Adult ROSC that is maintained: 	

- Obtain 12-lead ECG and vital signs.
- Transport to the nearest STEMI Receiving Center ***regardless of 12-lead ECG reading.***
- Maintain O2 Sat greater than or equal to 94%.
- Monitor ETCO2
- Termination for patients > 34 kg – Contact SRC (French Hospital) for termination orders.
- If the patient remains pulseless and apneic following 20 minutes of resuscitative measures, with persistent ETCO2 values < 10 mmHg, consider termination of resuscitation.
- Documentation shall include the patient's failure to respond to treatment and of a non-viable cardiac rhythm (copy of rhythm strip).
- Contact and transport to the nearest Base Hospital.
- Receiving Hospital shall provide medical direction/termination for pediatric patients.
- Lidocaine may be substituted for Amiodarone with SLOEMSA authorization (via Policy #205 Attachment C) when Amiodarone stock is unavailable. Refer to Lidocaine Formulary for dosages.
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- While treating Cardiac Arrest, only one antiarrhythmic may be given to one patient. ALS providers shall not switch between Amiodarone and Lidocaine for the treatment of Cardiac Arrest.
- **Vector change defibrillation:** The two pad placements are anterior-lateral and anterior-posterior. Vector change is the change in pad position placement from one to the other.