

SYMPTOMATIC BRADYCARDIA	
ADULT	PEDIATRIC ( $\leq 34\text{KG}$ )
BLS	
<ul style="list-style-type: none"> <li>Universal Protocol #601</li> <li>Pulse Oximetry <ul style="list-style-type: none"> <li>O<sub>2</sub> administration per Airway Management Protocol #602</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Same as Adult</li> </ul> <p style="text-align: center;"><b>Unstable</b></p> <p style="text-align: center;"><b>HR &lt;60 bpm and decreased level of consciousness</b></p> <ul style="list-style-type: none"> <li>Ventilate with BVM and O<sub>2</sub></li> <li>If HR&lt;60 persists despite ventilations <ul style="list-style-type: none"> <li><b>HPCPR – High Performance CPR Procedure #712</b></li> </ul> </li> </ul>
ALS Standing Orders	
<ul style="list-style-type: none"> <li>Obtain 12-lead ECG</li> <li>With STEMI contact STEMI base prior to administration of Atropine unless in extremis</li> </ul> <p style="text-align: center;"><b>Unstable</b></p> <ul style="list-style-type: none"> <li><b>Normal Saline</b> fluid bolus 500 mL <ul style="list-style-type: none"> <li>Start concurrently with Atropine administration</li> </ul> </li> <li><b>Atropine</b> 0.5 mg IV <ul style="list-style-type: none"> <li>May repeat every 3-5 min (not to exceed 3 mg total)</li> </ul> </li> <li><b>TCP</b> – TCP Procedure #716 <ul style="list-style-type: none"> <li>Initiate TCP for any of the following: <ul style="list-style-type: none"> <li>Patient in extremis</li> <li>Refractory to other treatments</li> <li>High-degree AVB with wide QRS complex</li> <li>Inability to rapidly establish vascular access for other treatments</li> </ul> </li> </ul> </li> <li><b>Pain Management</b> <ul style="list-style-type: none"> <li>If pain is persistent with TCP refer to Pain Management Protocol # 603</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Obtain 12-lead ECG</li> </ul> <p style="text-align: center;"><b>Unstable</b></p> <ul style="list-style-type: none"> <li><b>Epinephrine 1:10,000</b> 0.01 mg/kg (0.1 ml/kg) slow IV not to exceed 0.3 mg per dose <ul style="list-style-type: none"> <li>May repeat every 3-5 min</li> </ul> </li> </ul>
Base Hospital Orders Only	
<ul style="list-style-type: none"> <li><b>Calcium Chloride</b> 1 Gm slow (over 5 min) IV/IO <ul style="list-style-type: none"> <li>Suspected Hyperkalemia with wide complex bradycardia</li> </ul> </li> <li><b>Atropine</b> 0.5 mg IV for stable patient or STEMI patient not in extremis</li> </ul>	<ul style="list-style-type: none"> <li><b>Atropine</b> 0.02 mg/kg IV (minimum dose of 0.1 mg and maximum dose of 0.5 mg) <ul style="list-style-type: none"> <li>May repeat every 3-5 min (not to exceed 1 mg total)</li> </ul> </li> <li><b>Normal Saline</b> fluid bolus 20 mL/kg</li> </ul>

<ul style="list-style-type: none"> <li>● <b>Push-Dose Epinephrine 10 mcg/mL</b> 1 mL IV/IO every 1-3 min           <ul style="list-style-type: none"> <li>○ repeat as needed titrated to SBP &gt;90mmHg</li> <li>○ <u>See notes for mixing instructions</u></li> </ul> <p style="text-align: center;"><b>OR</b></p> </li> <li>● <b>Epinephrine Drip 10 mcg/min IV/IO infusion</b> <ul style="list-style-type: none"> <li>○ Consider for extended transport</li> <li>○ <u>See formulary for mixing instructions</u></li> </ul> </li> </ul> <p style="text-align: center;"><b>Suspected Overdose (Beta-Blocker, Calcium Channel Blocker, Tricyclic, Organophosphate)</b></p> <ul style="list-style-type: none"> <li>● Ingestion/Poisoning/OD Protocol #614</li> <li>● As needed</li> </ul>	<p style="text-align: center;"><b>Suspected Overdose (Beta-Blocker, Calcium Channel Blocker, Tricyclic, Organophosphate)</b></p> <ul style="list-style-type: none"> <li>● Ingestion/Poisoning/OD Protocol #614</li> <li>● As needed</li> </ul>
<b>Notes</b>	
<ul style="list-style-type: none"> <li>● <b><u>Mixing Push-Dose Epinephrine 10 mcg/mL (1:100,000): Mix 9 mL of Normal Saline with 1 mL of Epinephrine 1:10,000, mix well</u></b></li> <li>● Pediatric bradycardia is most commonly due to hypoxia. Treatment should focus on ventilation and oxygenation</li> <li>● Atropine in pediatric patients may cause paradoxical bradycardia</li> <li>● High degree heart blocks (Second degree type II, and Third degree) may respond poorly to Atropine           <ul style="list-style-type: none"> <li>○ Consider obtaining Base Hospital Orders for pressor doses of <b>Epinephrine</b></li> <li>○ If unstable proceed directly to <b>TCP</b> consider early base notification to STEMI Receiving Center (French Hospital)</li> </ul> </li> <li>● Ensure all <b>Calcium Chloride</b> is thoroughly flushed from IV tubing prior to administration of <b>Sodium Bicarbonate</b></li> <li>● Higher doses of <b>Atropine</b> may be needed for organophosphate OD</li> </ul>	