# County of San Luis Obispo Public Health Department

## Division: Emergency Medical Services Agency

**Procedure #707**

**Effective Date 12/1/2017**

## 12-LEAD ECG

<table>
<thead>
<tr>
<th>ADULT</th>
<th>PEDIATRIC (≤34KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BLS</strong></td>
<td>Universal Protocol #601</td>
</tr>
<tr>
<td><strong>BLS Optional</strong></td>
<td>Pulse Oximetry – ( \text{O}_2 ) administration per Airway Management Protocol #602</td>
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</tbody>
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### ALS Standing Orders
- Used in conjunction with appropriate EMS Protocol, or at paramedic discretion
- Obtain early
- Serial 12-lead ECGs should be obtained when possible

### Base Hospital Orders Only
- As needed

### Notes
- **Indications:**
  - Signs and symptoms suggestive of Acute Coronary Syndrome (ACS) as defined in Chest Pain/Acute Coronary Syndrome Protocol #640
  - Atypical symptoms or anginal equivalents such as; shortness of breath, syncope, dizziness, weakness, diaphoresis, nausea/vomiting or altered level of consciousness
  - Cardiac dysrhythmia/respiratory distress/cardiogenic shock
  - Post cardioversion
  - Cardiac arrest patients with return of spontaneous circulation (ROSC)
  - Diabetic patients with shortness of breath
- Consider not performing a 12-lead ECG:
  - Trauma unless an event of cardiac origin is suspected
  - An uncooperative patient
- **Documentation**
  - 12-lead ECG shall be a part of the patient record – either attached or as part of an ePCR
  - A copy of the 12-lead ECG shall be delivered to the personnel at the receiving hospital responsible for continued care of the patient and be included in the patient care record
- **Contact and transport to STEMI Receiving Center (SRC), French or Marian,** when:
  - Positive reading for STEMI – “***STEMI***” or equivalent reading
  - STEMI Alerts or ROSC and when capable – transmit the 12-lead ECG to the receiving SRC (French/Marian) per STEMI Triage and Destination Policy #152
  - 12-Lead Consults - Contact the SLO SRC (French) when transmitting 12-lead ECG for consultations per STEMI Triage Destination Policy #152