## SAN FRANCISCO EMERGENCY MEDICAL SERVICES AGENCY

Effective: 01/01/11 Protocol: P-044.1

**Supersedes: 09/01/06** 

# PEDIATRIC CARDIAC ARREST: NEONATAL RESUSCITATION

### **SUBJECTIVE FINDINGS**

- Gestational age.
- Multiple gestations.
- Meconium (dark staining of amniotic fluid) if membranes have ruptured.
- Mother's use of drugs.

### **OBJECTIVE FINDINGS**

30 second cardiopulmonary assessment:

- Airway, breathing (respiratory rate, quality, work of breathing, presence of cry);
- Circulation (skin color, temperature, pulses, capillary refill, mental status).

DIC Torontono ant	ALC Transferrent
BLS Treatment	ALS Treatment
Dry immediately and stimulate.	Heart rate < 60/min:
Position the airway.	If no improvement with bag-
<ul> <li>Suction the mouth and then the nasopharynx.</li> </ul>	valve mask ventilation and
Keep warm with thermal blanket or dry towel .	oxygenation after 30 seconds,
Cover scalp with stocking cap.	manage airway according to
Clamp and cut the cord.	the Airway Management
Evaluate respirations.	Protocol (P-004).
Assisted BVM ventilation 40-60 breaths/min. with 100% oxygen	
for severe respiratory depression; use blow by or mask with	If no improvement, establish
100% oxygen for mild distress.	IV or IO of NS, and give
• If SaO2 is < 95%, give oxygen by mask or blow by or continue	Epinephrine (1:10,000) 0.01-
with assisted ventilations if respirations depressed.	0.03 mg/kg (0.1-0.3 ml/kg)
Check heart rate at the base of the umbilical cord and/or	IVP or IO; reassess heart rate
auscultate precordium; further treatment depends on heart	and respirations; repeat q 3-5
rate.	min.
	. Decease heavy vets and
If heart rate is < 60/min:	Reassess heart rate and
Continue assisted ventilation.	respirations en route.
Begin chest compressions at 120/min, compression to	
ventilation ratio 3:1.	
If heart rate is 60-80/min:	
Continue assisted ventilation.	
If no improvement after 30 seconds of ventilation with 100%	
oxygen, begin chest compressions.	
If heart rate 80-100/min. and rising:	
Give oxygen by mask or blow by or continue with assisted	
ventilations if depressed respirations.	

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BLS Treatment	ALS Treatment
Reassess heart rate after 15 to 30 seconds.	
<ul> <li>If heart rate &gt; 100/min:</li> <li>Check skin color; if peripheral cyanosis, give oxygen by mask or blow by.</li> <li>Reassess heart rate and respirations en route.</li> </ul>	

#### **DOCUMENTATION**

30 second cardiopulmonary assessment.

Oxygen administered as appropriate.

If heart rate is < 60 bpm, BVM used.

#### PRECAUTION AND COMMENTS

- If meconium with respiratory distress, perform deep ET suction, using appropriate suction adapter if available.
- After deep ET suctioning, manage airway according to the Airway Management Protocol (P-004).
- Perform chest compressions on the neonate with both thumbs (hands encircling the back), at the lower two thirds of the sternum, at a depth of 1/2 1 inch or approximately one third to one half the depth of the chest.
- Avoid **Naloxone** in the neonate.
- Do not give oxygen if heart rate is < 100 and SaO2 is > 95%. Increased oxygen levels may harm the neonate.