SAN FRANCISCO EMERGENCY MEDICAL SERVICES AGENCY

Effective: 09/01/11 Protocol: P-021.1

Supersedes: 01/01/11

RESPIRATORY DISTRESS ACUTE PULMONARY EDEMA

SUBJECTIVE FINDINGS

- History: AMI, CHF and/or dialysis, hypertension, cardiomyopathy, valvular insufficiency.
- Signs/Symptoms: Chest pain, shortness of breath, dyspnea on exertion, orthopnea, cough, pink sputum, rales
- Use of erectile dysfunction drug (see PRECAUTIONS AND COMMENTS)

OBJECTIVE FINDINGS

- Mental Status, skin signs, perfusion.
- Respiratory rate, rhythm, pattern and work of breathing.
- Lung sounds.
- Blood pressure, heart rate and rhythm, oxygen saturation.
- Pedal edema, JVD.

BLS Treatment	ALS Treatment
 Ensure patent airway High flow oxygen 10-15 L/min via nonrebreather mask Assist ventilations with bag valve mask if indicated Position of comfort RMC 	 IV access [see PRECAUTIONS AND COMMENTS] NTG 0.4 mg sublingual spray or tablet. Repeat q 5 min if SBP > 100 mmHg [see PRECAUTIONS AND COMMENTS]. IV not required prior to NTG administration, but should be started as soon as possible. Obtain 12 lead EKG (if possible). Consider use of CPAP (see Protocol CPAP # 004.7). Morphine sulfate 2-4 mg slow IV push repeat as indicated if SBP > 100mmHg to total dose of 20 mg. Consider Ondansetron 4 mg IV/IM for nausea/vomiting, may be repeated q 20" to a maximum dose of 12 mg. If SBP< 90 mmHg (cardiogenic shock), administer Dopamine 5-20 mcg/kg/min IV infusion. Titrate to SBP >90 mmHg. Advanced airway management as indicated.

DOCUMENATION

- Administration of oxygen.
- -Administration of NTG.
- -Obtaining 12 lead EKG if possible.
- -IV placement in moderate/severe distress.
- -Use of CPAP when indicated.

PRECAUTIONS AND COMMENTS

• If the computer interpretation of the EKG indicates ST Segment Elevation Myocardial

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Infarction, take the patient to an appropriate STAR Receiving Facility per Policy 5000 Destination. Follow Protocols P-10 Chest Pain / Acute Coronary Syndrome and P-10.1 ECG for hospital notifications about STEMI patient.

- Do not administer **NTG** to patients who have taken any erectile dysfunction drug within the following time frames.
 - Sildenafil > 24 hours
 - Tadalafil > 72 hours
 - Vardenafil > 72 hours
- NTG dosage may be doubled as long as patient's systolic blood pressure remains > 160 mmHg.
- If patient is treated with CPAP, **notify the receiving hospital that "This is a CPAP patient"** in order to assure time for respiratory therapy to be available and avoid delays in transfer of care.