# MANAGEMENT OF ACUTE SUBMERSION INJURY CLINICAL PRACTICE GUIDELINE FOR EMERGENCY DEPARTMENT

FINAL 7/1/2020



#### **INCLUSION CRITERIA MONITORING EXCLUSION CRITERIA** Any child who had/has respiratory Altered Level of Cardiac & Respiratory impairment (including but not limited to) Consciousness Monitoring difficulty breathing, sustained/prolonged Hemodynamically Unstable Continuous Pulse Ox Monitoring cough, grunting or color change in Intubated association with a submersion event **CONTINUE MONITORING FOR** Assess **6HRS AFTER EVENT** Cardiac Respiratory Support, As Normal Resp Status Respiratory Appropriate, To Keep O<sub>2</sub> Saturations Pulse Ox ≥ 94% Exam? SW consult (if indicated) If at any time, during observation, there is deterioration in respiratory exam or need Reassess 6hrs after EVENT for oxygen Obtain Normal Respiratory Chest x-ray & NO Exam? Blood Gas Evidence indicates that Antibiotics are NOT indicated for a child with a normal within the first 24-48 hours respiratory exam a unless submersion occurred in YES routine chest x-ray is NOT sewer water, grossly muddy indicated water, or stagnant lake water. Admit Per Admit Criteria4 Oxygen Therapy To Keep Patient Meets O2 Sats ≥ 94% NO Discharge Obtain Blood Gas<sup>2</sup> (if Not Criteria? Already Obtained) YES Key Goals **DECREASE:** Discharge Home<sup>3</sup> # of Chest X-rays Provide "Near - Use of Antibiotics Drowning" teaching - # of Blood Gases sheet for patients discharged from the ED <sup>4</sup>ADMIT CRITERIA

## <sup>1</sup>ABNORMAL RESPIRATORY EXAM

- Rales/Crackles On Auscultation In Some Or All Fields
- Hypoxia With Pulse Ox < 94% On RA

#### AND/OR

 Signs/Symptoms Respiratory Distress

# <sup>2</sup>BLOOD GAS

- Indications:
- Abnormal Resp Exam
- Abnormal Chest -X-Ray
- CBG okay (VBG if obtaining other labs)

## <sup>3</sup>DISCHARGE CRITERIA

- Normal Respiratory Exam
- O2 Sats ≥ 94% On RA
- Normal Chest X-Ray (if Obtained)
- Social Work Consult Completed (if Indicated)

# Abnormal Resp Exam &/or Abnormal Chest X-Ray

### PICU Admit Criteria

- NIPPV (HFNC/BIPAP)
- Intubation
- PCO2 >50

#### Gen Admit Criteria

 Low Flow Oxygen Or Venti Mask ≤ 45% Needed To Keep O2 Sats ≥ 94%