

## **Pearls**

- Recommended Exam: Respiratory, Mental status, Trauma Survey, Skin, Neuro
- Drowning is the process of experiencing respiratory impairment (any respiratory symptom) from submersion/ immersion in a liquid.
- Begin with BVM ventilations, if patient does not tolerate, then apply appropriate mode of supplemental oxygen. •
- Ensure scene safety. Drowning is a leading cause of death among would-be rescuers.
- When feasible, only appropriately trained and certified rescuers should remove patients from areas of danger.
- Regardless of water temperature resuscitate all patients with known submersion time of  $\leq 25$  minutes.
- Regardless of water temperature If submersion time  $\geq$  1 hour consider moving to recovery phase instead of rescue.
- Foam is usually present in airway and may be copious, DO NOT waste time attempting to suction. Ventilate with BVM • through foam (suction water and vomit only when present.)
- Cardiac arrest in drowning is caused by hypoxia, airway and ventilation are equally important to high-quality CPR. •
- Encourage transport of all symptomatic patients (cough, foam, dyspnea, abnormal lung sounds, hypoxia) due to • potential worsening over the next 6 hours.
- Predicting prognosis in prehospital setting is difficult and does not correlate with mental status. Unless obvious death, transport. •
- Hypothermia is often associated with drowning and submersion injuries even with warm ambient conditions.
- Drowning patient typically has < 1 3 mL/kg of water in lungs (does not require suction) Primary treatment is reversal of hypoxia.
- Spinal motion restriction is usually unnecessary. When indicated it should not interrupt ventilation, oxygenation and/ or CPR.

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