Induced Hypothermia

**History:**
- Non-Traumatic Cardiac arrest

**Signs/Symptoms:**
- Return of pulse

**Differential:**
- Continue to address specific differentials associated with the original dysrhythmia

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**Postresuscitation protocol**
- Unsuccessful

**Intubation Protocol**
- Successful

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**ROSC**

1. **Criteria for Induced Hypothermia and initial temp > 34C**
   - Yes
     - ET Tube Placed and ETCO₂ reading > 20 mmHg
     - Perform Neuro Exam and Record in ECR
       - Induced Hypothermia Procedure
         - Expose patient
           - Apply Ice Packs to Axilla & Groin
           - Versed 0.15 mg/kg to max 10 mg
             - Vecuronium 0.1mg/kg to max of 10 mg
               - Cold Saline Bolus 30mL/kg to max of 2 liters
                 - Dopamine 10-20 mcg/kg/min for MAP 90-100

**Pearls:**
- **Criteria for Induced Hypothermia:**
  - ROSC after cardiac arrest not related to trauma or hemorrhage.
  - Age greater than 16
  - Pregnant female with obviously gravid uterus
  - Initial temperature > 34C
  - Patient is intubated and remains comatose (no purposeful response to pain)
  - If patient meets other criteria for induced hypothermia and is not intubated, then intubate according to protocol before inducing cooling. If unable to intubate DO NOT initiate induced hypothermia.
  - When exposing patient for purpose of cooling undergarments may remain in place. Be mindful of your environment and take steps to preserve the patients' modesty.
  - Do not delay transport for the purpose of cooling.
  - Reassess airway frequently and with every patient move.
  - Patients develop metabolic alkalosis with cooling. Do not hyperventilate.
  - If there is loss of ROSC after cooling is initiated or any other complication as the result of this protocol please complete hypothermia unusual event reporting form and contact a Medical Director on completion of the call.

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**Legend**
- EMT
- EMT-I
- P
- EMT-P
- M
- MC Order

**AT ANYTIME**
Loss of Spontaneous Circulation:
Discontinue cooling and go to appropriate protocol

**Monitor ETCO₂**
Target 40 mmHg
DO NOT HYPERVENTILATE