

# 1 Wake County EMS System

## Induced Hypothermia

### Screening for Utilization

1. Return of Pulse
2. Age > 16
3. Not obviously pregnant
4. Temperature > 34° C
5. No purposeful pain response
6. Intubated with ETCO<sub>2</sub> >20

### Preparation for Induction

1. Conduct NEURO assessment: 
  - a. Pupils (size, reactivity, equality)
  - b. Motor Response to Pain
2. Remove clothing, protect modesty
3. Apply cold packs- axilla and groin
4. Goal ETCO<sub>2</sub>=40. No hyperventilation
5. Attempt second IV, if not in place

## 2

### Induction of Paralysis

#### 1. Administer **Etomidate**

For Etomidate 2 mg/mL only	<b>All Patients Eligible for Induction Receive</b>  <b>20 mg    (10 cc)</b>
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#### 2. Administer **Vecuronium**

For Vecuronium 1mg/mL only 0.1 mg/kg to max 10 mg	Weight (kg)	Dose (mg)	Volume* (cc)
	30	3	3
	35	3.5	3.5
	40	4	4
	45	4.5	4.5
	50	5	5
	55	5.5	5.5
	60	6	6
	65	6.5	6.5
	70	7	7
	75	7.5	7.5
	80	8	8
	85	8.5	8.5
	90	9	9
	95	9.5	9.5
	100	10	10

### 3 Saline Infusion and Maintenance of Mean Arterial Pressure

1. Initiate cold saline bolus through up to two (2) IV or I/O access points.
2. Infuse cold saline at 30 mL/kg to max 2 Liters

<b>0.9 Normal Saline at near freezing</b>	<b>Weight (kg)</b>	<b>Volume Max (mL)</b>
	30	900
	35	1050
	40	1200
	45	1350
	50	1500
	55	1650
	60	1800
> or = 65	2000	

3. Target Mean Arterial Pressure (MAP): 90-100
4. Check MAP on the LP12 but manually monitor.

<b>Systolic</b>	<b>Diastolic</b>	<b>MAP</b>
<b>110</b>	<b>80</b>	<b>90</b>
<b>120</b>	<b>75-90</b>	<b>90-100</b>
<b>130</b>	<b>70-85</b>	<b>90-100</b>
<b>140</b>	<b>65-80</b>	<b>90-100</b>

5. If chilled saline does not maintain MAP go to card 4

# 4

## Maintenance of MAP with Pressors

1. Support BP with Dopamine as required to maintain MAP of 90 to 100

The values in this chart are drips per minute on a 60 drop per minute drip set

<b>Dopamine infusion guide for 400 mg in 250 mL D5W only</b>	<b>Weight (kg)</b>	<b>5 mcg/kg/min</b>	<b>10mcg/kg/min</b>
	30	6	12
	35	7	13
	40	8	15
	45	8	17
	50	9	19
	55	10	21
	60	11	23
	65	12	24
	70	13	26
	75	14	28
	80	15	30
	85	16	32
	90	17	34
	95	18	36
100	19	38	
105	20	39	
110	21	41	

2. Cold saline is a strong vasoconstrictor. Watch MAP closely!