

## Malignant Hyperthermia (MH) Emergency Response

Circulating Nurse	Dantrolene Nurse	Medication Nurse	Cooling Nurse																					
<b>Primary Duties:</b>	<b>Primary Duties:</b>	<b>Primary Duties:</b>	<b>Primary Duties:</b>																					
<ul style="list-style-type: none"> <li>• <b>Call for all available help</b></li> <li>• Call 911 for transfer to hospital</li> <li>• Call/assign staff member to call MHAUS Hotline</li> <li>• Assist surgeon &amp; scrub tech to prepare patient for transfer</li> </ul>	<ul style="list-style-type: none"> <li>• Bring MH/crash cart</li> <li>• Mix and administer Dantrolene; gain as much help as possible to and administer Dantrolene quickly <b>(minimum of 2-4 people needed)</b></li> </ul>	<ul style="list-style-type: none"> <li>• Bring MH/crash cart</li> <li>• Mix and administer meds as directed</li> <li>• Assist anesthesia and record events</li> <li>• Record medications - second person only recording if available</li> </ul>	<ul style="list-style-type: none"> <li>• Bring cold saline and ice</li> <li>• Cool patient</li> <li>• Monitor patient temperature</li> </ul> <p>Bags of ice in lounge freezer Cold saline in OR &amp; PACU fridges</p>																					
<b>Supplies Needed:</b>	<b>Supplies Needed:</b>	<b>Supplies Needed:</b>	<b>Supplies Needed:</b>																					
<ul style="list-style-type: none"> <li>• 2 large bore IV's (code cart)</li> <li>• Cold normal saline IV bag (cold saline in OR &amp; PACU fridges)</li> <li>• New circuit and soda absorbent (MH cart)</li> </ul>	<ul style="list-style-type: none"> <li>• Dantrolene Sodium (36 x 20 mg vials)</li> <li>• 2 liters preservative-free sterile water for reconstitution</li> <li>• 60 cc syringes &amp; spikes or 16 g needles (All of the above located on MH cart)</li> </ul>	<ul style="list-style-type: none"> <li>• Medications/syringes/needles</li> <li>• Sodium Bicarbonate (MH cart)</li> <li>• Lidocaine/Amioderone (code cart)</li> <li>• Calcium Chloride (MH cart)</li> <li>• Regular Insulin (OR refrigerator)</li> <li>• Dextrose 50% 50ml syringe (MH cart)</li> <li>• Lasix (code cart)</li> </ul>	<ul style="list-style-type: none"> <li>• Ice, cold saline, plastic bags</li> <li>• Toomey syringes</li> </ul> <p><b>Insert:</b></p> <ul style="list-style-type: none"> <li>• Esophageal temperature probe</li> <li>• Nasogastric (NG) tube</li> <li>• 3- way Foley catheter</li> <li>• Rectal tube (large red rubber catheter)</li> </ul>																					
<b>Actions:</b>	<b>Actions:</b>	<b>Actions:</b>	<b>Actions:</b>																					
<ul style="list-style-type: none"> <li>• Start 2 large bore IV's</li> <li>• Discontinue Lactated Ringers and start cold normal saline</li> <li>• Assist anesthesia provider; change out breathing circuit &amp; soda lime absorbent</li> <li>• Assist in "closing" patient and preparing patient for transfer</li> </ul>	<ul style="list-style-type: none"> <li>• Mix Dantrolene - 20 mg vial + 60ml preservative-free sterile water</li> <li>• Administer Dantrolene (2.5 mg/kg) _____ kg x 2.5 mg = _____ mg <b>Given rapidly via large bore IV</b></li> <li>• This dose may be repeated up to four doses as symptoms persist</li> </ul> <p style="text-align: center;"><b>Quick Conversion</b></p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Weight</th> <th colspan="2">Initial Dose - rapid IV push</th> </tr> </thead> <tbody> <tr> <td>110lb = 50kg</td> <td>125mg</td> <td>6.25 vials</td> </tr> <tr> <td>132lb = 60kg</td> <td>150mg</td> <td>7.5 vials</td> </tr> <tr> <td>154lb = 70kg</td> <td>175mg</td> <td>8.75 vials</td> </tr> <tr> <td>176lb = 80kg</td> <td>200mg</td> <td>10 vials</td> </tr> <tr> <td>198lb = 90kg</td> <td>225mg</td> <td>11.25 vials</td> </tr> <tr> <td>220lb = 100kg</td> <td>250mg</td> <td>12.5 vials</td> </tr> </tbody> </table>	Weight	Initial Dose - rapid IV push		110lb = 50kg	125mg	6.25 vials	132lb = 60kg	150mg	7.5 vials	154lb = 70kg	175mg	8.75 vials	176lb = 80kg	200mg	10 vials	198lb = 90kg	225mg	11.25 vials	220lb = 100kg	250mg	12.5 vials	<ul style="list-style-type: none"> <li>• Prepare/administer/record medications</li> <li>• Sodium Bicarbonate - 1-2 mEq/kg _____ kg x 1 mEq = _____ mEq Bicarb Repeat as ordered</li> <li>• Dysrhythmias - Lidocaine/Amioderone DO NOT use Ca++ channel blocking agents</li> <li>• Calcium chloride - 10mg/kg _____ kg x 10 mg = _____ mg CaCl</li> <li>• Insulin/Glucose 10 units insulin + 50ml of 50% glucose</li> <li>• Lasix (furosemide) - 0.5-1mg/kg _____ kg x 0.5 mg = _____ mg Lasix</li> </ul>	<ul style="list-style-type: none"> <li>• Infuse cold saline IV</li> <li>• Ice packs to head/neck, axilla, groin &amp; under patient</li> <li>• Lavage stomach, bladder, rectum via NG, foley &amp; rectal catheter with cold saline</li> <li>• Lavage open cavities with cold saline</li> <li>• Monitor and record patient's temperature &amp; urinary output</li> </ul>
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