

## Malignant Hyperthermia Tool (MH Hotline: 1-800-644-9737)

Date:	Room/Location:	Patient ID (label):
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Person placing RRT call: \_\_\_\_\_ (RN, MD, RT, other specify)

Time of call: \_\_\_\_\_

### Staff Present:

RN \_\_\_\_\_  
 Providers (Anesthesia, Surgeon, Attending, etc) \_\_\_\_\_  
 \_\_\_\_\_

### Immediate Actions:

<input type="checkbox"/> Stop Triggering Agent	<input type="checkbox"/> Notifying Anesthesiologist on call
<input type="checkbox"/> Hyperventilate on 100% oxygen	<input type="checkbox"/> Call 2222 for 'Code Blue- Malignant Hypethermia'
<input type="checkbox"/> Call MHAUS Hotline (1-800-644-9737)	

### Interventions

- Give Dantrolene as indicated
- Apply cooling measures (groin, axilla, head, under patient) discontinue when pt's temp is 38 C (99 F)
- Place foley with temp probe
- Insert monitoring lines when applicable (a-line, central line)
- Have 2 large bore IVs patent
- Give cool fluids (switch to Normal Saline)
  
- Treat Hyperkalemia:
  - Calcium chloride 10 mg/kg or calcium gluconate 10-50 mg/kg
  - Regular insulin 10 units IV in 50 mL of 50% glucose
  - Give Na<sup>+</sup> bicarb if metabolic acidosis is present (1-2 mEq/kg)
  
- Treat Dysrhythmias:
  - Calcium chloride 10 mg/kg or calcium gluconate 10-50 mg/kg
  - Amiodarone or lidocaine
  - Beta blockers (metoprolol, esmolol)
  - Do not use calcium channel blockers (can cause cardiac arrest in the presence of dantrolene)
  
- Monitor renal function: IV fluids, furosemide, mannitol)
- Obtain lab tests:**
- Electrolyte panel: increase K<sup>+</sup>, Ca<sup>++</sup>, Mg <sup>++</sup>, decrease Na<sup>+</sup>
- ABG: watch for acidosis, increase PaCO<sub>2</sub>       CBC: decreased platelets
- Coagulation studies: prolonged PTT, PT (Watch for DIC)
- Serum studies: increase CPK and myoglobin, creatinine, glucose, lactate

Vital Signs							
Time	ETCO2	Temp	Pulse	Rhythm	BP	RR	SpO2

Medications (give Dantrolene as soon as possible)			
Time	Medication	Route	Amount Given

Dantrolene Given					
Time	Amount	Dose	Time	Amount	Dose
	20 mg	1		20 mg (220 mg)	11
	20 mg (40 mg)	2		20 mg (240 mg)	12
	20 mg (60 mg)	3		20 mg (260 mg)	13
	20 mg (80 mg)	4		20 mg (280 mg)	14
	20 mg (100 mg)	5		20 mg (300 mg)	15
	20 mg (120 mg)	6		20 mg (320 mg)	16
	20 mg (140 mg)	7		20 mg (340 mg)	17
	20 mg (160 mg)	8		20 mg (360 mg)	18
	20 mg (180 mg)	9		20 mg (380 mg)	19
	20 mg (200 mg)	10		20 mg (400 mg)	20

Labs													
PH	PCO2	PO2	HCO3-	BE	Hct	O2sat	Na+	K+	Ca++	Glucose	CK	Myoglobin	