

Myocardial Ischemia & Arrest Relevant Technical Actions	Points
<b>PHASE 1</b>	
<b>Recognition</b>	
Tachycardia	1
Hypertension	1
ST Depression	4
PVCs	4
<b>Pre-arrest Treatment</b>	
Deepens anesthetic level	2
NTG or beta blocker Rx of HTN	2
NTG or beta blocker Rx of Ischemia	8
Increases FiO2	2
Lidocaine (for PVCs)	5
Requests other anti-arrhythmic drug	1
<b>PHASE 2</b>	
<b>Initial Cardiac Arrest Management</b>	
Recognizes VF/VT	EI
Declares cardiac arrest	5
Requests code cart	8
Calls for help	3
Ensures CPR is performed	EI
Checks for pulse w & w/o CPR	3
Checks ETCO2 for adequacy of CPR	1
<b>ACLS</b>	
Charges defibrillator	5
Calls "Clear" before defibrillating	2
Administers defibrillating shock	EI
Does not shock through drapes	5
Checks ECG after shocks	2
Checks pulse or art line after shocks	2
Repeats defibrillation as necessary	5
Conforms to ACLS- 3 shocks in a row	4
Gives epinephrine if defibrillation x3 not successful	EI
Administers antiarrhythmic drugs	5
<b>Miscellaneous Cardiac Arrest and Post-resuscitation Management</b>	
Uses FiO2 of 1.0 after Dx of arrest	3
Terminates use of volatile anesthetic	2
Uses high fresh gas flows	1
Ventilates appropriately	4
Verifies patient is being ventilated	1
Sends ABG	2
Gives HCO3 based on ABG	1
Requests ICU bed	2
Sends blood for appropriate lab tests	1
Suggests terminating surgery ASAP	2
Requests equipment for invasive monitoring	1
<b>Maximum Points Possible</b>	<b>100</b>

Malignant Hyperthermia Relevant Technical Actions	Points
<b>PHASE 1</b>	
<b>Recognition</b>	
Tachycardia / hypertension	1
Muscle rigidity (surgeon's comments)	1
Hypercarbia (if constant MV)	2
Hyperthermia	2
Acidosis (if ABG sent)	2
Dx made "quickly" after cues recognized	2
<b>PHASE 2</b>	
<b>Initiation of MH Protocol</b>	
Notifies surgeon of MH emergency	5
Requests MH box	5
Calls for help, or already present	5
Terminates triggering agent within 1 minute of notifying surgeon or requesting MH box	EI
<b>Dantrolene Administration</b>	
Gives dantrolene $\geq$ 20 mg within 10 minutes of MH box arrival	EI
Gives dantrolene $\geq$ 40 mg by end of scenario	10
Uses correct diluent for all vials	8
Uses >30 ml diluent for all vials	6
Request additional dantrolene (only 80 mg in box)	6
<b>Ventilation and Oxygenation</b>	
Uses FiO2 of 1.0	5
Hyperventilates by ventilator or bag	5
Clears triggering agent with high flows or non-rebreathing circuit	5
<b>Metabolic Management</b>	
Requests insertion of urinary catheter	1
Gives mannitol and/or furosemide	2
Checks blood for K level	3
Sends ABG for management, not Dx	2
<b>Hyperthermia Management</b>	
Removes drapes	2
Calls for and places ice	2
Requests lower OR temperature	1
Requests supplies for cold lavage of stomach or peritoneum	2
Requests cold IV solutions	2
Considers planning for CPB	1
<b>Miscellaneous Management</b>	
Treats PVCs with antiarrhythmic drug	2
Places arterial line	1
Reviews MH checklist (in box)	1
Suggests terminating surgery ASAP	1
Requests ICU bed	1
Contacts MH Hotline	1
(no further actions)	
<b>Maximum Points Possible</b>	<b>95</b>