MHS post MH event additional surgery (form J)

Please complete the survey below.	
Thank you!	
J1.0 - Year of procedure:	
	(listed as year of event in MHS report)
J2.0 - Type(s) of procedure scheduled?	cardiothoracic without bypass cardiothoracic without bypass dental ear, nose, or throat eye general surgery gynecology laparoscopic surgery (specify) neurosurgery obstetrics oral surgery orthopedic plastic surgery radiology robot-assisted surgery thoracic surgery thoracic surgery transplant (specify type) trauma urology vascular other (specify) unknown
J2.1 - if other please specify:	
J3.0 - Was the procedure and emergency?	○ Yes ○ No
J4.0 - Anesthetic preparations included:	dedicated vapor free anesthesia machine anesthesia work station flushed with either oxyger or air activated charcoal filter on the inspiratory limb autoclaving ventilator diaphragm and integrated breathing system free standing ventilator not part of anesthesia workstation anesthetic vaporizers bypassed anesthetic vaporizers drained new carbon dioxide absorbent new anesthesia circuit new mask new endotracheal tube other (specify) unknown (Check all that apply)
J4.1 - If other please specify:	

J5.0 - How many minutes was the anesthesia machine flushed?		
(if not applicable do not complete)	(minutes)	_
J6.0 - What flow rate was the anesthesia machine flushed at?		
(do not complete if not applicable)	(L/min)	_
J7.0 - What type of anesthesia workstation was used?		_
J7.1 - What model of anesthesia workstation was used?		_
J8.0 - Was a premedication other than dantrolene given?		
J9.0 - Was dantrolene given before anesthetic induction?		
J9.1 - Pre-induction dantrolene administration dose:		
	(mg)	_
J9.2 - Number of dantrolene doses:		_
J9.3 - Time final dose begun		_
J9.4 - Time final dose completed:		_
J9.5 - Route of initial dantrolene administration:	☐ IV ☐ PO (Check all that apply)	
J9.6 - Were any complication from dantrolene administration noted?	○ Yes ○ No	
J9.7 - What dantrolene associated complications were observed?	☐ phlebitis ☐ excessive secretions ☐ gastrointestinal upset ☐ hyperkalemia ☐ muscle weakness ☐ respiratory failure ☐ other (specify) (Check all that apply)	
J9.8 - If other, please specify:		_

J10.0 - Monitoring utilized:	 □ blood pressure monitor □ electrocardiograph □ stethoscope □ arterial catheter □ central venous catheter □ pulmonary artery catheter □ end-tidal PCO2 □ pulse oximeter □ bladder (Foley) catheter □ processed EEG (e.g. BIS) □ other (specify) (Check all monitoring used)
J10.1 - If other, please specify:	
J11.0 - Temperature probes:	axillary bladder esophageal nasopharyngeal rectal skin - electronic (specify location) skin - liquid crystal (specify type and location) tympanic no temperature monitoring used other (specify)
J11.1 - If other, please specify:	
J12.0 - Were local anesthetic agents used?	○ Yes ○ No
J12.1 - Route of local anesthetic administration:	☐ epidural ☐ intercostals ☐ intravenous ☐ major plexus block ☐ spinal ☐ subcutaneous ☐ topical or mucosal ☐ other (specify) (Check all that apply)
J12.2 - If other, please specify:	

J13.0 - Local anesthetic drugs and vasoconstrictors utilized:	□ LOCAL ANESTHETICS - bupivacaine (Marcaine) □ LOCAL ANESTHETICS - choroprocaine (Nesacaine) □ LOCAL ANESTHETICS - cocaine □ LOCAL ANESTHETICS - etidocaine (Duranest) □ LOCAL ANESTHETICS - levo-bupivacaine □ LOCAL ANESTHETICS - lidocaine (Xylocaine) □ LOCAL ANESTHETICS - mepivacaine (Carbocaine) □ LOCAL ANESTHETICS - prilocaine (Citanest) □ LOCAL ANESTHETICS - procaine (Novocain) □ LOCAL ANESTHETICS - ropivacaine (Naropin) □ LOCAL ANESTHETICS - tetracaine (Pontocaine) □ LOCAL ANESTHETICS - curare □ LOCAL ANESTHETICS - benzocaine (americaine) □ VASOPRESSOR - ephedrine □ VASOPRESSOR - epinephrine (Adrenaline) □ VASOPRESSOR - phenylephrine (Noradrenaline) □ VASOPRESSOR - phenylephrine (Neosynephrine)

02/15/2023 11:27am projectredcap.org

J14.0 - Other anesthetic agents utilized (including	☐ ACETAMINOPHEN - acetaminophen (Tylenol)
premedication):	ANALGESIC/ANTICONVULSANT - gabapentin (Neurontin)
	☐ ANALGESIC/ANTICONVULSANT - pregabalin (Lyrica)
	☐ ANTACID AGENT - cimetidine (Tagament)☐ ANTACID AGENT - dolasetron (Anzemet)
	ANTACID AGENT - doldserion (Anzemet)
	ANTACID AGENT - famotidine (Pepcid)
	☐ ANTACID AGENT - lansoprazole (Prevacid)
	☐ ANTACID AGENT - omeprazole (Prilosec)
	☐ ANTACID AGENT - ranitidine (Zantac)☐ ANTACID AGENT - sodium citrated citric acid
	(Bicitra)
	☐ ANTIEMETIC - metoclopramide (Reglan)
	ANTIEMETIC - ondansetron (Zofran)
	☐ ANTIEMETIC - promethazine (Phenergan)
	☐ ANTIEMETIC - scopolamine (Hyoscine)☐ ANTIHISTAMINE - diphenhydramine (Benadryl)
	☐ ANTIHISTAMINE - dipriently draffille (behadi yi)
	☐ ANTIMUSCARINIC AGENT - atropine
	☐ ANTIMUSCARINIC AGENT - glycopyrrolate (Robinul)
	☐ NSAID - celecoxib
	☐ NSAID - diclofenac
	☐ NSAID - ibuprofen☐ NSAID - ketorolac (Toradol)
	☐ NSAID - Retoroide (1914d61)
	☐ NSAID - naproxen
	☐ SEDATIVE/HYPNOTIC - clonidine (Duraclon)
	☐ SEDATIVE/HYPNOTIC - dexmedetomidine (Precedex)
	SEDATIVE/HYPNOTIC - diazepam (Valium)SEDATIVE/HYPNOTIC- etomidate (Amidate)
	☐ SEDATIVE/HYPNOTIC- etoffidate (Affidate)
	SEDATIVE/HYPNOTIC- lorazepam (Ativan)
	SEDATIVE/HYPNOTIC- midazolam (Versed)
	☐ SEDATIVE/HYPNOTIC- propofol (Diprivan)
	☐ SEDATIVE/HYPNOTIC- thiopental
	☐ OPIOID/OPIOID ANTAGONIST - alfentanil (Alfenta)☐ OPIOID/OPIOID ANTAGONIST - fentanyl (Sublimaze)
	OPIOID/OPIOID ANTAGONIST - Tentany (Subimaze)
	(Dilaudid)
	☐ OPIOID/OPIOID ANTAGONIST - meperidine (Demerol)
	OPIOID/OPIOID ANTAGONIST - methadone
	☐ OPIOID/OPIOID ANTAGONIST - morphine☐ OPIOID/OPIOID ANTAGONIST - nalbuphine
	☐ OPIOID/OPIOID ANTAGONIST - Halbuphine ☐ OPIOID/OPIOID ANTAGONIST - naloxone
	☐ OPIOID/OPIOID ANTAGONIST - remifentanyl (Ultiva)
	OPIOID/OPIOID ANTAGONIST - sufentanil (Sufenta)
	☐ POTENT VOLATILE ANESTHETIC AGENT - desflurane
	(Suprane)
	 ☐ POTENT VOLATILE ANESTHETIC AGENT - halothane ☐ POTENT VOLATILE ANESTHETIC AGENT - isoflurane
	(Forane)
	☐ POTENT VOLATILE ANESTHETIC AGENT - sevoflurane
	(Ultane)
	☐ OTHER VOLATILE ANESTHETIC AGENT- nitrous oxide
	□ NON-DEPOLARIZING NEUROMUSCULAR BLOCK AGENT - atracurium (Tracrium)
	□ NON-DEPOLARIZING NEUROMUSCULAR BLOCK AGENT -
	cisatracurium (Nimbex)
	☐ NON-DEPOLARIZING NEUROMUSCULAR BLOCK AGENT -
	pancuronium (Pavulon)
	□ NON-DEPOLARIZING NEUROMUSCULAR BLOCK AGENT - rocuronium (Zemuron)
	NON-DEPOLARIZING NEUROMUSCULAR BLOCK AGENT -
	vecuronium (Norcuron)
	☐ NON-DEPOLARIZING NEUROMUSCULAR BLOCK AGENT -
	other non-depolarizing neuromuscular block (NDNB)
	□ NON-DEPOLARIZING NEUROMUSCULAR BLOCK REVERSA
02/45/2022 11 27	AGENT - sugammadex (Bridion) □ DEPOLARIZING ŊĘijŖŖŊŊĿŖĊIJLAR B ŢŖĘĸŢ≯ŒĔŊŤ IM
02/15/2023 11:27am	_ DEL OB WIZEWO I projective deap to region of the Live ap III

	succinylcholine (Anectine) DEPOLARIZING NEUROMUSCULAR BLOCK AGENT - IV succinylcholine (Anectine) CHOLINESTERASE INHIBITOR - edrophonium (Tensilon) CHOLINESTERASE INHIBITOR - neostigmine (Prostigmin) CHOLINESTERASE INHIBITOR - physostigmine (Antilirium) CHOLINESTERASE INHIBITOR - pyridostigmine (Mestinon) LOCAL ANESTHETICS - bupivacaine (Marcaine) LOCAL ANESTHETICS - cocaine LOCAL ANESTHETICS - etidocaine (Duranest) LOCAL ANESTHETICS - levo-bupivacaine LOCAL ANESTHETICS - levo-bupivacaine LOCAL ANESTHETICS - mepivacaine (Carbocaine) LOCAL ANESTHETICS - prilocaine (Citanest) LOCAL ANESTHETICS - prilocaine (Citanest) LOCAL ANESTHETICS - procaine (Novocain) LOCAL ANESTHETICS - ropivacaine (Naropin) LOCAL ANESTHETICS - curare VASOPRESSOR - ephedrine VASOPRESSOR - ephedrine VASOPRESSOR - phenylephrine (Noradrenaline) VASOPRESSOR - phenylephrine (Noradrenaline) VASOPRESSOR - vasopressin STEROID - dexamethasone STEROID - hydrocortisone Other (specify) Unknown (check all that apply)
14.1 - If other, please specify:	
15.0 - Type of anesthetic:	monitored anesthesia care regional anesthesia spinal anesthesia epidural anesthesia general anesthesia without endotracheal intubation general anesthesia with endotracheal intubation general anesthesia with a face mask general anesthesia with a laryngeal mask airway tourniquet use (check all that apply)
16.0 - Type of ventilation:	☐ spontaneous ☐ assisted ☐ controlled (Check all that apply)
17.0 - Time of anesthetic of induction for general/regional anesthetic:	(Total time in hours, express parts of an hour using decimal points (example - 3 minutes = 0.05)))
18.0 - Earliest time the patient was stable in ecovery room or ICU (after induction):	(Total time in hours, express parts of an hour using decimal points (example - 3 minutes = 0.05)))

J19.0 - Were any signs of MH note	ed?						() \ () \	'es No										
SIGNS																		
J19.1 - RANK in order of ap	pear	ance	e. (c	lick	the	num	ber	of o	rder	for	eacl	h sig	ın)					
You have completed (of 10%	Forn	1 G -	dur	ing <i>l</i>	AMR	A Ep	isoc	le)										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	n/a
masseter spasm: mouth cannot be fully opened, but direct laryngoscopy is possible.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
masseter spasm: jaw clamped shut, intubation by direct visualization impossible	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
generalized muscular rigidity	\circ	\circ	\bigcirc	\bigcirc	\bigcirc	\circ	\bigcirc	\circ	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\circ	\bigcirc	\bigcirc	\circ	\bigcirc
cola colored urine	\bigcirc	\bigcirc	\bigcirc	\circ	\circ	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\circ	\bigcirc	\bigcirc
tachypnea	\bigcirc	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ
hypercarbia	\bigcirc	\circ	\bigcirc	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\bigcirc	\circ
cyanosis	\bigcirc	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\bigcirc	\bigcirc	\circ	\circ	\circ	\bigcirc	\circ
skin mottling	\bigcirc	\circ	\circ	\bigcirc	\bigcirc	\circ	\bigcirc	\circ	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\circ	\bigcirc	\bigcirc	\bigcirc	\bigcirc
sinus tachycardia	\circ	\circ	\circ	\bigcirc	\bigcirc	\circ	\circ	\circ	\bigcirc	\circ	\circ	\bigcirc	\bigcirc	\circ	\circ	\bigcirc	\bigcirc	\bigcirc
ventricular tachycardia	\circ	\circ	\circ	\bigcirc	\bigcirc	\bigcirc	\circ	\bigcirc	\bigcirc	\circ	\circ	\bigcirc	\circ	\circ	\circ	\bigcirc	\bigcirc	\bigcirc
ventricular fibrillation	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
elevated temperature	\bigcirc	\circ	\bigcirc	\bigcirc	\bigcirc	\circ	\circ	\bigcirc	\bigcirc	\circ	\circ	\bigcirc	\circ	\circ	\bigcirc	\bigcirc	\bigcirc	\bigcirc
rapidly increasing temperature	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
sweating	\bigcirc	\bigcirc	\bigcirc	\circ	\bigcirc	\bigcirc	\bigcirc	\circ	\bigcirc	\circ	\bigcirc	\bigcirc						
excessive bleeding	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
hypertension > 20% baseline	\bigcirc	\bigcirc	\bigcirc	\circ	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\circ	\bigcirc	\bigcirc
other (specify below)	\circ	\circ	\bigcirc	\circ	\circ	\circ	\circ	\circ	\circ	\circ	\circ	0	0	\circ	\circ	\circ	\circ	\circ
J19.2 - What is the time of the first noted (after induction)?	st adv	erse :	sign				(To	tal tir	ne in	hour	s, ex	press	part	s of a	n ho	ur	\	
							uSII	ng de	cima	ı poir	its (e	xamp	ole - 3	3 min	utes	= 0.0	(((د	
J19.3 - What is the time of the sec noted (after induction)?	cond a	adver	se siç	gn									part)5)))	
J19.4 - What is the maximum tem Celsius?	perat	ure n	oted	in										-				
J19.5 - What is the maximum tem Fahrenheit?	perat	ure n	oted	in										-				



J19.6 - Time maximum temperature noted (after induction)	
	(Total time in hours, express parts of an hour using decimal points (example - 3 minutes = 0.05)))
J19.7 - Maximum end-tidal pCO2 noted:	
	(mmHg)
J19.8 - Time maximum end-tidal pCO2 noted after induction:	(Total time in hours, express parts of an hour using decimal points (example - 3 minutes = 0.05)))
Laboratory Tests after MH - Most abnormal artors recommended interval for creatine kinase detadverse reaction.	
J20.0 - FiO2 at the time of this blood gas:	
	
J20.1 - pH at the time of this blood gas:	
	
J20.2 - PCO2 at the time of this blood gas:	
	(mmHg)
J20.3 - PO2 at the time of this blood gas:	
	(mmHg)
J20.4 - BE (mEq/L) at the time of this blood gas:	
	(mEq/L)
J20.5 - Bicarbonate (mEq/L) at the time of this blood	
gas:	(mEq/L)
J20.6 - Liters/minute ventilation at time blood gas was obtained:	(L/min)
J20.7 - Time (after inductions)	
	(Total time in hours, express parts of an hour using decimal points (example - 3 minutes = 0.05)))
J20.8 - Peak lactic acid:	
	(mmol/L)



02/15/2023 11:27am

J20.9 - Peak K+:		
	(mEq/L or mmol/L)	-
J20.10 - peak post-op cretine kinase:		
	(U/L)	-
J20.11 - hours after induction of peak post-op creatine kinase		-
J20.12 - peak serum myoglobin:		
	(ng/mL)	-
J20.13 - hours after induction of peak serum myoglobin		
		-
J20.14 - PT (prothrombin time)		
	(seconds)	-
J20.14.1 - PT laboratory upper limit of normal		
	(seconds)	-
J20.15 - INR		
		_
J20.16 - PTT (partial thromboplastin time)		
	(seconds)	_
J20.16.1 - PTT laboratory upper limit of normal		
	(seconds)	-
J20.17 - Platelet count		
		_
J20.18 - fibrinogen		
	(mg/dl)	_



J21.0 Treatment given for signs of MH:	Volatile anesthetics discontinued (specify hours elapsed from induction) Anesthesia circuit changed Activated carbon filters in circuit Hyperventilation with 100% oxygen (specify max EtCO2) Dantrolene (specify type below: Dantrium, Revonto or Ryanodex) Active cooling (specify method) Fluid loading (specify type and volume) Furosemide Mannitol Glucose, insulin Amiodarone Procainamide Calcium Bicarbonate Albuterol Lidocaine Cardioversion or Defibrillation CPR Inotrope (specify) Vasopressor (specify) None of the above Other (specify)						
	(check all that apply)						
J21.1 - If Dantrolene give, time required (after induction):	(Total time in hours, express parts of an hour using decimal points (example - 3 minutes = 0.05)))						
J21.2 - Total dose of dantrolene give after induction:							
	(mg)						
J21.3 - Method of Active cooling:							
J21.4 - Amount of fluid given:							
	(mL/kg)						
J21.5 - Other, specify:							
J22.0 - Did the patient survive the initial MH reaction?	○ Yes ○ No						
J22.1 - Did the patient develop additional signs of symptoms after initial adequate treatment (recrudesce)?	○ Yes ○ No						
J22.2 - When did the patient recrudesce?							
	(hours after induction)						
J22.3 - Did the patient survive the recrudescence?							

J23.0 - If the patient died, what was the cause of death?	○ N/A○ MH○ Other (specify)	
J23.1 - if other, specify:		
Comments on Patient:		