Please complete the survey below.

Thank you!

### SIGNS
(During the reaction)

#### G2.1 - RANK in order of appearance. (click the number of order for each sign)

| Sign                                                                 | n/a | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
|----------------------------------------------------------------------|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| masseter spasm: mouth cannot be fully opened, but direct laryngoscopy is possible |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| masseter spasm: jaw clamped shut, intubation by direct visualization impossible |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| generalized muscular rigidity                                       |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| cola colored urine                                                   |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| tachypnea                                                            |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| hypercarbia                                                          |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| cyanosis                                                             |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| skin mottling                                                        |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| sinus tachycardia                                                    |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| ventricular tachycardia                                              |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| ventricular fibrillation                                             |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| elevated temperature                                                 |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| rapidly increasing temperature                                      |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| sweating                                                             |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| excessive bleeding                                                   |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| hypertension > 20% baseline                                           |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| other (specify below)                                                |     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |

**G2.1.1 - If other, please specify:**

________________________________________

#### G2.2 - What is the date and time of the first adverse sign noted?

(for example, 2017-12-25 18:30)

#### G2.3 - What is the date and time of second adverse sign noted?

(for example, 2017-12-25 18:30)

#### G2.4 - What is the maximum temperature noted?

(C)

#### G2.5 - What is the date and time of the maximum temperature noted?

(for example, 2017-12-25 18:30)
G2.6 - What's the maximum end-tidal PCO2 noted (mmHg)?

G2.7 - What is the date and time of the maximum end-tidal PCO2 noted?

G2.8 - Did the temperature exceed 40C?

G2.8.1 - How long did the temperature exceed 40C?

G2.9 - Type of ventilation used at the time hypercarbia was first observed:

G2.9.1 - If spontaneous, what's the ventilation rate (liters/minute)?
TREATMENT GIVEN

G3.1 - Treatment given for possible or fulminant 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)

G3.1.1 - If volatile anesthetics discontinued, how many hours elapsed from induction to discontinued time point? (hrs)

G3.1.2 - If Hyperventilation, what's the maximum EtCO2 after initiation of Hyperventilation?

G3.1.3a - If Dantrolene, please specify type:

☐ Dantrium
☐ Revonto
☐ Ryanodex

G3.1.3b - If Dantrolene, how much was the initial dose (mg)? (mgs)

G3.1.3c - If Dantrolene, how many hours elapsed from induction to the initial dose was given: (hrs)

G3.1.3d - If Dantrolene, how much was the total dose (mg)? (mgs)

G3.1.3e - If Dantrolene, how many hours elapsed from induction to the last dose was given: (hrs)

G3.1.4 - If Active cooling, please specify method:

G3.1.5a - If fluid loading, please specify type:

G3.1.5b - If fluid loading, please specify volume: ((ml/kg))

G3.1.6 - If inotrope, please specify:

G3.1.7 - If vasopressor, please specify

G3.1.8 - If other, please specify:
G3.2 - Were any problem noted with the dantrolene administration?  
☐ Yes  ☐ No

G3.3 - If dantrolene was given, mark any of the following that were noted thereafter.  
(check all applicable)

☐ Decrease in heart rate  
☐ Decrease in end-tidal carbon dioxide or carbon dioxide tension in blood  
☐ Decrease in temperature  
☐ Decrease or resolution of rigidity  
☐ None of the above

G3.3.1a - How many minutes after dantrolene administration was the maximum change of heart rate?  
(minutes)

G3.3.1b - What was the maximum change of heart rate (beats/min)?  
((beats/min))

G3.3.2a - How many minutes after dantrolene administration was the maximum change of carbon dioxide?  
(minutes)

G3.3.2b - What was the maximum change of carbon dioxide?  

G3.3.3a - How many minutes after dantrolene administration was the maximum change of temperature?  
(minutes)

G3.3.3b - What was the maximum change of temperature?  
(C)

G3.3.4 - How many minutes after the start of dantrolene, did the rigidity completely resolve?  
(minutes)

G3.4 - What were the observed dantrolene complications?  
☐ excessive secretions  
☐ gastrointestinal upset  
☐ muscle weakness  
☐ phlebitis  
☐ respiratory failure  
☐ hyperkalemia  
☐ other (specify)  
(check all applicable)

G3.4.1 - If other, please specify:  
