

# EMERGENCY MANAGEMENT OF MALIGNANT HYPERTHERMIA



ACT FAST. Successful treatment depends on early diagnosis and aggressive treatment.

The onset of a reaction can be within minutes of induction.

Previous uneventful anaesthesia DOES NOT exclude MH.

#### DIAGNOSIS:

- 1. unexplained, unexpected increase in end-tidal COz together with
- 2. unexplained, unexpected increase in heart rate together with
- 3. unexplained, unexpected increase in oxygen consumption



## ASK COLLEAGUES FOR HELP

#### Eliminate trigger drug

- Turn off vaporisers & remove
- 100 % Oxygen, max flow
- Hyperventilate (2-3 times normal minute ventilation)
- Place Activated Charcoal Filters on both limbs of anaesthetic workstation
- Change soda lime & breathing circuit if/when feasible

#### Give Dantrolene

- 2 3 mg/Kg IV, then
- 1 mg/Kg every 5 min, until
- ETCO2 < 6 kPa & Temp</li>
   38.5 °C , then
- Pause & observe
- Give further 1 mg/Kg as required to keep ETCO2 < 6 kPa & Temp < 38.5 °C, even if this means exceeding total dose of 10 mg/Kg

#### Active body cooling

- · Turn off active warming
- Apply ice to axillae/groins
- · Cold IV fluids
- Cold peritoneal lavage
- Other cooling methods according to need and availability of equipment & expertise
  - Surface cooling devices
  - Intravascular devices
  - Extracorporeal heat exchange

#### MONITOR

ECG, SpOz, end-tidal COz; Direct arterial BP, CVP; Core & peripheral temperature; Urine output & pH; ABGs, K\*, glucose; Haematocrit, platelets, clotting indices; Creatine kinase (peak 12-24 hr)

#### TREAT

- Acidosis: give sodium bicarbonate 50 mmol if pH<7.2 despite hyperventilation</li>
- Hyperkalaemia: sodium bicarbonate 50 mmol, glucose (50 mL 50%) & insulin 10 IU,
   IV calcium 0.1 mmol/Kg (in extremis)
- Myoglobinuria: forced alkaline diuresis (aim for urine output >2 mL/Kg/hr; urine pH > 7)
- DIC: clotting factors, platelets
- Tachyarrhythmias: amiodarone, beta-blockers (N.B., avoid calcium channel blockers
- interaction with dantrolene)
- Compartment syndrome

Manage patient in ICU/HDU for 24 hrs. Further dantrolene may be needed. Counsel patient and family. Refer to MH Unit www.ukmhr.ac.uk

# **Malignant Hyperthermia Crisis Flow Sheet**

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