

## Who can administer

Administration RESTRICTED - see [Appendix 1](#)

## Important information

- For a 70kg patient, if a cumulative dose of 10mg/kg is needed this will amount to approximately **36 vials**
- Beware the risk of **extravasation**

## Available preparations

Dantrium 20mg vial

Pack includes a single use filter device

## Reconstitution

### Water for injection ONLY

60ml per 20mg vial

- Vials should be shaken until the solution is clear
- Using the filter device provided, draw up the reconstituted solution into a syringe
- Use a new filter device for each vial
- Remove the filter device before attaching the syringe to an IV cannula or giving set

## Infusion fluids

**After reconstitution with Water for Injections, no further dilution permitted.**

## Methods of intravenous administration

### Bolus intravenous injection

- **Management of malignant hyperthermia crisis (licensed<sup>(ref 2,4)</sup>), or neuroleptic malignant syndrome (unlicensed<sup>(ref 1,3)</sup>)**
  - The required dose to be given as a bolus intravenous injection - see under 'Dose'
  - Bolus injections may be administered rapidly (over at least one minute)<sup>(ref 2)</sup>

### Intermittent intravenous infusion - using an electronically controlled infusion device

- **Prophylaxis of Malignant hyperthermia crisis<sup>(ref 2,5)</sup>(unlicensed)**
  - Add required dose to an appropriate-size empty sterile IV plastic bag for administration - supplied from pharmacy
  - The required dose is administered over 60 minutes, with the infusion commencing approximately 75 minutes before anticipated anaesthesia
  - See 'dose' for details

# Dose in adults

## Management of malignant hyperthermia crisis

- Dantrolene should be administered by repeated bolus injections, one after another, continuing until symptoms subside or the maximum cumulative dose of 10mg per kg has been reached
- The dose for each bolus injection is 1mg per kg
- If physiologic and metabolic abnormalities reappear after initial control, the regimen may be repeated
- An alternative regimen may be used <sup>(ref 4)</sup>
  - Initial dose: Give 2 to 3mg/kg, then 1mg/kg repeated if necessary; maximum 10mg/kg/course

## Prophylaxis of malignant hyperthermia crisis (unlicensed use) <sup>(ref 1,2,5)</sup>

- Used for the prevention or attenuation of malignant hyperthermia crisis in adults thought to be at risk of developing this condition
- May be given orally or IV prior to surgery (oral dose differs from IV) <sup>(ref 1,5)</sup>
- IV dose: 2.5mg/kg may be given by intravenous infusion over 60 minutes commencing about 75 minutes before anticipated anaesthesia <sup>(ref 1,2,5)</sup>
- Further doses can be given during anaesthesia and surgery if signs of malignant hyperthermia develop

## Management of neuroleptic malignant syndrome (unlicensed use) <sup>(ref 1,3)</sup>

- Give 1 to 2.5mg/kg initially
- If rapid resolution of hyperthermia and rigidity is observed, may follow with 1mg/kg every six hours up to a maximum cumulative dose of 10mg/kg/day, then switch to oral dosage

# Further information

- Care must be taken to prevent extravasation of the intravenous solution into the surrounding tissues.
- **Order code numbers for empty bags are:**
  - 500ml bag (Baxter E3MC-3802)
  - These bags are to be stored beside and to be dispensed along with the Dantrolene injection

# Storage

- Store below 25<sup>0</sup>C
- Do not refrigerate or freeze

# References

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1: Martindale, accessed online 1st Dec 2021

2: Injectable medicines guide Medusa UK site downloaded 1st Dec 2021

3: UpToDate accessed online 1st Dec 2021

4: BNF accessed online 9th Dec 2021

5: Injectable Drugs guide- accessed via Medicinescomplete 9th Dec 2021

# Therapeutic classification

Direct acting skeletal muscle relaxant