

# **Guidance for Clinicians:**

# Medical management for patients dying from COVID-19 related illness

This document covers the medical management of dyspnoea, respiratory secretions and delirium at the end of life.

- Psychological and spiritual distress may be significant (for patients, whānau and staff); consideration should be made to minimize this and provide appropriate support.
- When converting opioids oral to subcutaneous halve the dose (morphine 10mg orally = morphine 5mg SC)
- eGFR <30mL/min we recommend use of fentanyl (if available) instead of morphine or oxycodone
- SC = subcutaneous, CSCI = continuous subcutaneous infusion via syringe driver
- In the absence of syringe driver availability resort to regular Q4H SC opioid dosing (morphine and oxycodone)
  - Divide the total daily dose by 6 and administer Q4H
- All medications discussed in this document are compatible with each other and can be mixed in various combinations in the same syringe for CSCI
- Vital sign monitoring is unnecessary, care should be guided by symptom needs and patient comfort

#### Management of dyspnoea:

- Optimise positioning as guided by patient comfort
- Air movement, such as achieved by the use of a fan, can reduce the sensation of breathlessness
- Remove oxygen mask or nasal prongs if the patient is not tolerating these

#### Opioid naïve patients - oral dosing:

- Morphine elixir 2.5 5 mg PO Q1H PRN OR
- Oxycodone elixir 2.5 5 mg PO Q1H PRN OR
- Fentanyl 12.5 25 micrograms buccally Q1H PRN

#### Opioid naïve patients – injectable dosing (if loss of oral route or poor gut absorption):

- Morphine 2.5 5 mg SC Q1H PRN OR
- Oxycodone 2.5 5 mg SC Q1H PRN OR
- Fentanyl 12.5 25 micrograms SC Q1H PRN

#### Patients already on background opioids:

- Continue background opioid
- Use approximately 1/6th of their total daily opioid dose PRN Q1H as a starting dose and titrate to effect.

#### Benzodiazepines dosing:

Useful in addition to opioids if significant anxiety/panic associated with dyspnoea.

- lorazepam 0.5 mg PO TDS PRN
- clonazepam tablets 0.25 0.5 mg BD PRN
- clonazepam drops (buccal 1 drop = 100 micrograms) 2-3 drops buccally Q8H PRN
- midazolam 1.25 5 mg SC Q1H PRN for anxiety associated with dyspnoea; start at lowest dose and titrate to effect.

## CSCI dosing:

Generic CSCI starting doses for management of dyspnoea for opioid and benzodiazepine naive:

- morphine 10 mg + midazolam 10 mg over 24 hours OR
- oxycodone 10 mg + midazolam 10 mg over 24 hours OR
- fentanyl 100 micrograms + midazolam 10 mg over 24 hours

Ensure SC opioid and benzodiazepine PRNS are prescribed (as above) in addition to CSCI

NB: for patients already on long acting opioids (and benzodiazepines) the CSCI starting dose and PRN doses will need to be calculated based on their current background dose.

 E.g if 24 hour oral morphine = 60mg then prescribe 30mg morphine via CSCI and 5mg morphine Q1H PRN



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#### Management of acute respiratory distress or severe dyspnoea at the end of life:

**Crisis medications** should be available for all patients at risk of respiratory crisis at end of life; aiming to rapidly sedate patient in the context of extreme respiratory distress

Generic SC crisis medications for opioid and benzodiazepine naïve patients:

- morphine 5 10 mg Q10mins PRN OR fentanyl 100 micrograms Q10min PRN
- midazolam 5 10 mg Q10mins PRN
  - o NB: in extreme distress the higher dose may be necessary

If escalating opioid and benzodiazepine doses are required to control respiratory distress consider adding levomepromazine (Nozinan).

- levomepromazine can be effective in reducing respiratory distress without causing respiratory depression.
  - o levomepromazine 6.25 12.5 mg SC Q2H PRN, titrate to effect
  - levomepromazine CSCI starting dose 12.5 mg over 24 hours, increase in 12.5 mg increments to effect

#### Management of excessive respiratory tract secretions:

- Avoid IV fluids;
  - o These are futile at EOL and can contribute significantly to the volume of respiratory secretions
  - o There is no evidence that parenteral fluids (SC or IV) improve a patient's sense of thirst
  - Thirst is mitigated by oral fluids and, if unable to swallow, good mouth care.
- Optimise positioning (as tolerated) to allow drainage of secretions
- Avoid suctioning there is limited role for suctioning, only consider if visible secretions in the mouth are distressing the patient

### Anti-secretory medications to reduce respiratory secretions include:

- hyoscine butylbromide (Buscopan) 20 mg SC Q4H AND/OR start CSCI 60 mg over 24 hours (maximum 120 mg total per 24 hours)
- glycopyrronium bromide (Glycopyrrolate) 200 400 micrograms SC Q4H/PRN AND/OR start CSCI 800-1600 micrograms over 24 hours (maximum 1600 micrograms total per 24 hours)
- octreotide 100 200 micrograms Q8H SC regularly OR CSCI 200 600 micrograms over 24 hours

### Management of delirium/agitation/restlessness:

- Exclude urinary retention, faecal impaction or uncontrolled pain
- Pharmacological options: antipsychotic medication is recommended first line, not benzodiazepines

### Antipsychotic dosing:

- haloperidol 0.5 1 mg SC Q4H PRN (max 5 mg in 24 hours if needing more than this to control agitation switch to levomepromazine)
- levomepromazine (more sedating than haloperidol) 6.25 mg SC Q4H PRN is a reasonable starting dose, a range of 6.25 – 12.5 mg may be used (doses of 25-50mg/24 hours are typically sedating)
- If agitation is severe a higher bolus dose of levomepromazine such as 25 50 mg may be required and/or commencement of a CSCI

#### For management of other symptoms such as pain, cough, nausea, pruritis please refer to our guidelines:

### Waikato DHB Palliative Care Service intranet site:

 $\underline{https://intranet.sharepoint.waikato.health.govt.nz/Pages/Regional\%20Cancer\%20Centre/Palliative-Care-services-and-resources.aspx$ 

# **Hospice Waikato website:**

Health professionals: <a href="https://www.hospicewaikato.org.nz/education">https://www.hospicewaikato.org.nz/education</a> Clinical guidelines and drug protocols:

https://www.hospicewaikato.org.nz/clinicalguidelinesdrugprotocols

For further Specialist Palliative Care advice contact the SMO oncall via switchboard