

## Management of Respiratory Distress and End-of-life Care in COVID-19 Residents in Long-Term Care Homes

This order set is to be used when residents' goals of care include prioritizing comfort **and** the treatment decisions are consistent with DNR, no hospital transfer, symptom and supportive care in place.

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- Discontinue all non-essential medications
  - Discontinue subcutaneous and IV hydration to avoid fluid overload
  - Insert subcutaneous butterfly for medications
  - Avoid the use of the following as they may generate aerosolized SARS-CoV2 virus particles and infect healthcare workers and family members**
    - Humidified air/oxygen
    - Fan
    - Oxygen flow greater than 4 - 6L/min
    - High-flow nasal cannula
    - Continuous positive airway pressure (CPAP) or bilevel positive airway pressure (BiPAP)
    - Nebulized treatments (bronchodilators, epinephrine, saline solutions etc.)
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All doses given below are suggested **starting doses**. COVID-19 symptoms may advance quickly. Be prepared to escalate dosing or start with higher dose in the range given. Consider giving front-line staff dose ranges and capacity for urgent clinical decision making as needed.

### Dyspnea

Position resident as upright as tolerated

Oxygen:

Supplemental oxygen to reduce the work of breathing (titrate to symptoms, not oxygen saturation)

Opioids: If resident **is not** on opioids currently,

- Morphine 1- 2.5 mg subcut or IV q30 mins prn **OR**
- Hydromorphone 0.25 -1 mg subcut or IV q30 mins prn
  - If greater than 3 prns in 24 hrs, MD to reassess
  - Titrate dose as needed according to prns and symptoms
  - If using greater than 3 prns in 24 hrs, consider using standing dose (eg. q 4h), with continued prn doses.
- If resident **is already** on opioids, continue previous opioid but consider increasing dose by 25%.
- To use the subcut route of administration, decrease the PO opioid dose by 50%.

Adjuvants: (these medications can be used in addition to opioids if needed)

- Lorazepam 0.5 mg - 1 mg q 2 hrs prn subcut or IV or sublingual
  - also useful for managing anxiety

**For severe respiratory distress:**

Expect to use opioid and benzodiazepine simultaneously and in higher doses.  
Consider starting with higher dose immediately to achieve sedation if distress severe.

- Lorazepam 1 – 2 mg subcut or IV or sublingual q 20 - 30 mins prn until symptoms controlled
  - If greater than 3 prns in 24 hrs, MD to reassess
  - Titrate dose as needed according to prns and symptoms
  - If using greater than 3 prns in 24 hrs, consider using standing dose, with continued prn dose.
  
- Midazolam 1 mg - 5 mg subcut or IV q 5 mins prn (if available)
  - Consider regular subcut or continuous subcut dosing

### **Respiratory secretions:**

Position resident as upright as tolerated

- Glycopyrrolate 0.4mg subcut q 4 hrs prn **OR**
- Scopolamine 0.4mg subcut q 4h prn
- Atropine ophthalmic drop – use 1 – 2 drops orally under tongue q 8 hours prn
- If volume overload, furosemide 20 mg subcut and monitor response

### **Agitation/restlessness:**

- Non-sedating: haloperidol 0.5- 2 mg subcut or IV q 2 hrs prn
- Sedating: methotrimeprazine 6.25 – 25 mg subcut q 4 hrs prn
  - If greater than 3 prns in 24 hrs, MD to reassess
  - Titrate dose as needed according to PRNs and symptoms
  - If using greater than 3 prns in 24 hrs, consider using standing dose, with continued prn dose.

### **Nausea/vomiting**

- Haloperidol 0.5-1 mg subcut or IV q 4h prn. If haloperidol is contraindicated, use methotrimeprazine 2.5 to 6.25 mg subcut q 4 h prn

### **Fever**

- Acetaminophen 650 mg po/pr q 4h prn

### **Pain:** If not on opioid

- Morphine 1 – 2.5 mg subcut or IV q 30 min prn **OR**
- Hydromorphone 0.2 – 0.5 mg subcut or IV q 30 min prn
  - If greater than 3 prns in 24 hrs, MD to reassess
  - Titrate dose as needed according to prns and symptoms
  - If using greater than 3 prns in 24 hrs, consider using standing dose, with continued prn dose.

### **Laxatives**

- Consider the need for laxatives including suppositories and fleet q 3 days prn.



**Supportive and bereavement care:**

- Consider involving supportive care colleagues (eg. SW, Spiritual Care, activation staff as appropriate)

Other orders as needed:

**These recommendations are for reference and do not supersede clinical judgement. Recommendations compiled collaboratively with input from a team of Palliative Care MDs and pharmacists at Baycrest and Sinai Health System.**

**For further assistance including telephone/virtual support, please contact your local Palliative Consultant.**