## Clinical guidelines for children and young people with palliative care needs in all care settings during the coronavirus pandemic

# This clinical guidance, produced by APPM, is aimed at all professionals looking after children and young people with palliative care needs who are infected with COVID-19, potentially entering their end of life phase and the decision is not for medical escalation into paediatric intensive care.

### Child and Young people

It is important to remember that most people with COVID-19 will survive and recover. Children and young people (CYP), on the whole, experience mild or moderate symptoms. Notwithstanding this, CYP with palliative care needs may become more vulnerable when exposed to COIVD-19, impacting on a CYP's already vulnerable health status.

### Decision-making around treatment escalation plans

In the context of the COVID-19 pandemic, decisions about treatment escalation or shifting the focus to palliative care may need to be made rapidly. Ideally professionals should be identifying high-risk patients early and ensuring advance care planning discussions take place. Conversations around specific pandemic concerns should be addressed and may include:

- Delivery of end of life care in the family's preferred place not being possible (eg due to workforce limitations and restrictions on transfer of patients between care settings)
- Awareness that the presence of family members may be limited, including the end of life phase (because family members are needing to self-isolate and/or access is restricted by an institution's infection control policies).

Where escalation of medical intervention onto a paediatric intensive care unit is not considered appropriate, care will continue with a change in its focus to high quality, compassionate, palliative care.

### Contacting specialist paediatric palliative care

Some regions have access to specialist paediatric palliative care teams. These teams can provide tailored advice and support. Know how to contact your local paediatric palliative care service for advice and support. Consider contacting when:

- > Patient already known to specialist palliative care
- > Needing support and guidance on symptom management or not responding to clinical guidelines
- > Complex symptoms that require specialist advice
- > Decision not to escalate treatment in the face of deterioration or uncertain prognosis

#### Principles of palliative care

Despite the challenging circumstances of the COVID-19 pandemic, the importance of holistic child and family centred care is recognised and should be offered, albeit, in potentially new, unique and innovative ways.

#### Clinical approach:

- Consider and treat reversible causes eg secondary bacterial infections
- Many patients will survive, managing their symptoms during this period remains important
- Use non-pharmacological approaches, especially in mild to moderate infections
- If the patient is severely distressed by shortness of breath and / or agitated then stat doses of medication delivered by SC/IV/buccal offers rapid relief compared to infusions and oral routes.

#### Symptoms of COVID-19

The end of life phase can be distressing and rapid lasting just a few hours. The most common end of life symptoms have been addressed: (Appendix 1)

- Pyrexia and rigors
- Severe dyspnoea
- Cough
- Delirium and agitation

Challenges in secretion management in some patients who have an underlying neurological disorder have also been reported and may be pertinent to the paediatric population, requiring a fine balance between removing and/or 'drying-up' copious loose secretions and loosening thick tenacious secretions.

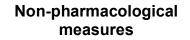
## Management of fever in children and young people at end of life with recognised Coronavirus infection COVID-19 Outbreak

It is generally understood that children and young people experience milder coronavirus symptoms compared with adults. However these guidelines have been written to support symptom management, in the potentially rare event, of a children or young people with a life limiting condition whose advance care plan is not for escalation into a paediatric intensive care unit.

Fever is when a human's body temperature goes above the normal range of 36–37° Centigrade (98–100° Fahrenheit). It is a common medical sign. Other terms for a fever include pyrexia and controlled hyperthermia. As the body temperature goes up, the person may feel cold until it levels off and stops rising.

## Is it fever?

- significant fever is defined as a body temperature of:
  - 37.5°C or greater (oral)
  - 37.2°C or greater (axillary)
  - 37.8°C or greater (tympanic)
  - 38°C or greater (rectal)
  - A few children may have an altered central thermostat related to their neuro-disability. In these cases, smaller temperature rises may require earlier intervention
- associated signs & symptoms:
  - o shivering
  - o shaking
  - o chills
  - Flushed face or cheeks
  - aching muscles and joints
  - o other body aches



- reduce room temperature
- wear loose clothing
- cooling the face by using a cool flannel or cloth
- Keep well hydrated
- cooling the face by using a cool flannel or cloth Portable fans used in clinical areas have been linked to cross infection in health and social care facilities, although there is no strong evidence yet
- portable fans are not recommended for use during outbreaks of infection or when a patient is known or suspected to have an infectious agent

Pharmacological measures\*

Paracetamol PO/IV/PR

Dose is dependent on age and route (cBNF)

NSAIDS is contraindicated in COIVD-19 infections. At end of life, clinicians need to

consider its benefit on a case by case, in reducing the fever.

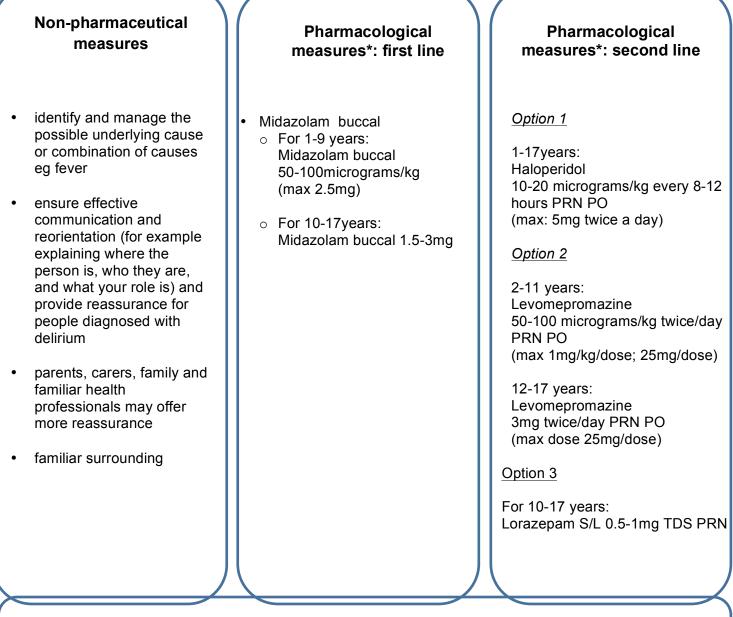
Normal body temperature: 98.6°F (37°C) 98.6°F (37.7°C) Body fever temperature: > 100°F (37.7°C) 100.4°F Rectal fever temperature: > 100.5°F (38°C) 101.8°F

> \*For SC/IV and neonate/infant dosing: consult the APPM formulary 2020 (https://www.appm.org.uk/guidelines-resources/appm-master-formulary/)

## Management of delirium for children and young people at end of life with recognised Coronavirus infection COVID-19 Outbreak

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**Delirium is an acute confusional state that can happen when someone is ill**. It is a SUDDEN change over a few hours or days, and tends to vary at different times of day. People may be confused at some times and then seem their normal selves at other times. People who become delirious may start behaving in ways that are unusual for them- they may become more agitated than normal or feel more sleepy and withdrawn.



Management of this symptom, which is distressing for parents, carers and staff (patients are usually unaware of what they are doing at this time), can be troublesome. Through use of the medications above, titrated appropriately, this can usually be managed effectively.

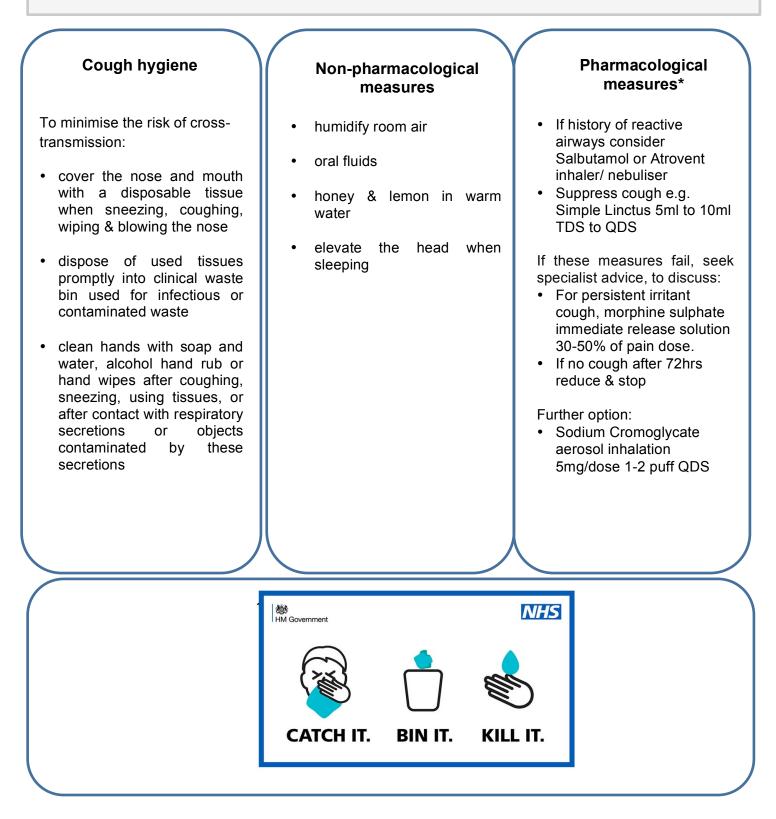
Delirium may be reduced with important delirium prevention strategies (orientation, management of fever and hypoxia, treatment of urinary tract infections, etc)

\*For SC/IV and neonatal/infant dosing: consult the APPM formulary 2020 (https://www.appm.org.uk/guidelines-resources/appm-master-formulary/)

## Management of cough for children and young people at end of life with recognised Coronavirus infection COVID-19 Outbreak

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Cough is a protective reflex response to airway irritation and is triggered by stimulation of airway cough receptors by either irritants or by conditions that cause airway distortion.



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## Management of breathlessness in children and young people at end of life with recognised Coronavirus infection COVID-19 Outbreak

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Breathlessness is the subjective sensation of discomfort with breathing and is a common cause of major suffering in people with acute, advanced and terminal disease.Treat REVERSIBLE conditions. Both COVID-19 and non-COVID-19 conditions (e.g.: respiratory compromise secondary to their neurodisability, metastatic lung disease) *mav* cause severe breathlessness / distress toward end of life.

## **Reversible causes**

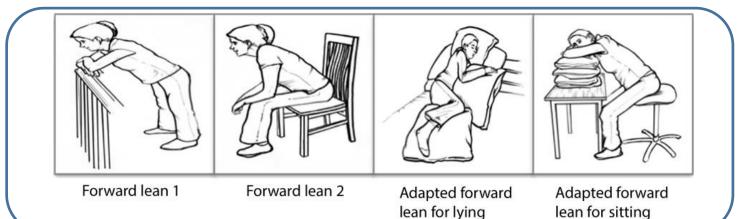
- both COVID-19 and non-COVID-19 conditions *may* cause severe distress / breathlessness toward end of life
- consider reversible or contributing causes eg fever, pain, wheeze
- observe signs/symptoms of breathlessness:
  - o Fatigue
  - Peripheral/central cyanosis
  - Reduced peripheral perfusion
  - Increased respiratory rate
  - Increased respiratory effort: tracheal tug, grunting, intercostal/ subcostal recession and 'abdominal breathing' in infants
- Consider checking oxygen saturation

# Non-pharmacological measures

- positioning (child often finds best position themselves)
- relaxation techniques
- reduce room temperature
- cooling the face by using a cool flannel or cloth
- portable fans used in clinical areas have been linked to cross infection in health and social care facilities, although there is no strong evidence yet
- portable fans are not recommended for use during outbreaks of infection or when a patient is known or suspected to have an infectious agent

## Pharmacological measures\*

- humidified oxygen (no evidence of benefit in the absence of hypoxaemia)
- opioids may reduce the perception of breathlessness
  - For 1-11 years: Oramorph (10mg/5ml) 100micrograms/kg (max 2.5mg) 4hrly PO PRN
  - For 12-17years: Oramorph (10mg/5ml) 2.5mg every 4hrly PO PRN
- anxiolytics for agitation/distress
- For 1-9 years: Midazolam buccal 50-100micrograms/kg PRN (max 2.5mg)
- For 10-17years: Midazolam buccal 1.5-3mg
  For 10-17 years:
- For 10-17 years: Lorazepam S/L 0.5-1mg TDS PRN



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