



## Medicines Optimisation Key Messages – Bulletin 38

### **Anticipatory Prescribing in End of Life (Adults)**

# KEY MESSAGE: Medication for end-of-life symptom control should be made available so that these medicines can be given if required without unnecessary delay

- The term End of Life (EoL) refers to patients who are in their last days of life.
- Medication should be available on an as required basis for symptom control. This may include medication for:
  - o Pain
  - o Agitation

- Nausea & vomiting
- Respiratory tract secretions
- o Acute terminal events e.g. bleeding
- Anticipatory prescribing should ensure that there is a supply of medication available in the patient's home with the necessary equipment, to prevent delay in administration when symptom relief is required.
- Anticipatory medications may be required to be given by a syringe driver as a continuous subcutaneous infusion if the patient is unable to swallow medication orally due to dysphagia, vomiting or a reduced level of consciousness.

#### Pain

- First line subcutaneous (SC) opioid for just in case /as required doses and continuous subcutaneous infusion over 24 hours (CSCI) is **Morphine**.
- Recommended starting doses for **opioid naïve** patients are as follows:
  - Just in case / as required SC injection doses: **2.5mg 5mg** Morphine up to every 2 hours.
  - CSCI / 24 hours: **5mg 10mg** Morphine (for diluent use water for injection).
- If previously on oral opioid, calculate equivalent **oral morphine dose in last 24 hours** including breakthrough doses. Conversion ratio of **oral morphine** to **SC morphine** is **2:1**. Convert to subcutaneous morphine by dividing by 2.
- As required analgesia should be prescribed at 1/6<sup>th</sup> of total morphine daily dose. A stat dose may be required at initiation of CSCI to cover symptoms in the first few hours.
- Increase syringe driver dose by total amount of breakthrough opioid given or by 30-50%, whichever is less. Ensure when required doses are also increased accordingly. Morphine doses greater than 360mg/24hours are difficult to deliver because of the volume of the corresponding breakthrough dose.

#### Pain

- Oxycodone may be used as a second line opioid if morphine causes unacceptable side effects such as drowsiness, hallucinations or confusion. Oxycodone is also an option in patients with mild to moderate renal impairment.
- Recommended starting doses for **opioid naïve** patients:
  - Just in case / as required SC injection doses: 1mg 2.5mg oxycodone up to every 2 hours
  - CSCI / 24 hours: 2.5mg 5mg oxycodone
  - o Doses of more than 100mg oxycodone in 24 hours are not usually required
- Conversion ratio of **oral morphine** to **SC oxycodone** is **3:1.** Convert to subcutaneous oxycodone by dividing oral morphine dose by 3.
- Opioids with active metabolites such as morphine and oxycodone may accumulate in severe renal impairment. Consider Alfentanil if eGFR < 30ml/min/1.73m<sup>2</sup> or patient on dialysis: Seek specialist advice on dosing.

#### Managing patients on opioid patches

- Patients on opioid patches should **continue** with their patch in the last days of life.
- If new opioid responsive pain develops requiring the use of a CSCI, the opioid patch should be left in
  place and continued to be changed as normal. The total daily PRN doses of analgesia should be
  converted for administration via the syringe driver and titrated as required.
- This is to avoid conversion of the transdermal opioid to an alternative SC opioid.
- Opioid patches should **not** be initiated at the end of life when the oral route is no longer available.

Opioid patches should not be used for unstable pain or in opioid naïve patients.

### Other Symptom Relief

#### Agitation

- Midazolam use as first line choice for non-specific agitation or breathlessness:
  - Just in case / as required SC injection doses: 2.5mg 5mg up to every 2 hours,
  - CSCI / 24 hours: 5mg 10mg. Contact specialist advice service for advice regarding dose escalation.
  - Caution in severe liver disease: may cause drowsiness. Dose should be halved and dosage interval increased.
- Levomepromazine use as first line choice for terminal agitation (Caution in Parkinson's disease seek specialist advice\*).
  - Just in case / as required SC injection doses: **6.25mg** up to every 4 hours
  - CSCI / 24 hours: 12.5mg 25mg. Usual maximum dose in 24 hours: 50mg
- Haloperidol use first line for hallucinations and mental anguish (Avoid in Parkinson's disease):
  - o Just in case / as required SC injection doses: 0.5mg 1mg up to every 2 hours
  - o CSCI / 24 hours: 2.5mg 5mg. Usual maximum dose in 24 hours: 10mg

#### Nausea and vomiting

- Levomepromazine first line (Note causes sedation & caution in Parkinson's disease\*)
  - Just in case / as required SC injection doses: 6.25mg up to every 4 hours
  - o CSCI / 24 hours: 6.25mg 25mg. Usual maximum dose in 24 hours: 50mg
- Haloperidol second line (Avoid in Parkinson's disease):
  - Just in case / as required SC injection doses: 0.5mg 1mg up to every 4 hours
  - $\circ$  CSCI / 24 hours: 2.5mg 5mg. Usual Maximum dose in 24 hours: 10mg

#### **Respiratory secretions**

- The risk of respiratory tract secretions can be reduced by avoiding fluid overload. Any intravenous or SC fluids should be reviewed if symptoms develop.
- Hyoscine butylbromide can be used to reduce secretions but may cause dry mouth:
  - o Just in case / as required SC injection doses: 20mg every 4 hours
  - o CSCI / 24 hours: 60mg 80mg. Maximum dose in 24 hours: 120mg
  - Avoid in heart failure use Glycopyrronium bromide: 200micrograms every 4 hours PRN, adjusted according to response. Maximum of 6 doses in 24 hours. CSCI/ 24 hours: 600micrograms 1.2mg. Max 1.2mg in 24hours

#### Other

• In the event of catastrophic bleed or fitting – use midazolam 10mg IM/ SC stat.

\*Please seek specialist palliative care advice for patients with Parkinson's Disease.

At all stages, please consider the underlying cause and alternative treatment options. Please seek early specialist advice for dose escalation and medication changes via CSCI.

For Palliative Care advice 7 days a week / 24 hours a day contact the Specialist Palliative Care Advice Service via 0330 158 8011.

For information on syringe driver compatibilities, see <a href="http://book.pallcare.info/index.php?op=plugin&src=sdrivers">http://book.pallcare.info/index.php?op=plugin&src=sdrivers</a>

#### **Specialist Drugs**

Some medications are not recommended to be initiated in primary care without specialist advice. This includes **alfentanil**, **clonazepam**, **ketamine**, **ketorolac**, **methadone** etc. If symptoms are not controlled with standard, recommended treatments, seek advice from palliative care specialist.

#### References

http://book.pallcare.info/index.php?tid=176

http://www.palliativecareguidelines.scot.nhs.uk/guidelines/pain/Anticipatory-Prescribing.aspx

https://www.bma.org.uk/advice/employment/gp-practices/service-provision/prescribing/focus-on-anticipatory-prescribing-for-end-of-life-care

| Title                             | KEY MESSAGES Bulletin 38 - Anticipatory Prescribing in End of Life (Adults)   |  |
|-----------------------------------|---|--|
| Description of policy             | To inform healthcare professionals  |  |
| Scope                             | All Healthcare professionals involved in prescribing and administering anticipatory medication at end of life.  |  |
| Prepared by                       | Prescribing & Medicines Management Team   |  |
| Other relevant approved documents | Key message bulletin 39: Prescribing Considerations at End of Life (EOL)<br>Key message bulletin 40: Initiation and Management of Opioids in Palliative<br>Care   |  |
| Evidence base / Legislation       | Level of Evidence:<br>A. based on national research-based evidence and is considered best<br>evidence<br><b>B. mix of national and local consensus</b><br>C. based on local good practice and consensus in the absence of national<br>research based information. |  |
| Dissemination                     | Is there any reason why any part of this document should not be available on the public web site? ☐ Yes / No ⊠  |  |
| Approved by                       | Norfolk & Waveney Prescribing Reference Group (Date)  |  |
| Authorised by                     | Norfolk & Waveney Drug & Therapeutics Commissioning Group (Date)  |  |
| Review date and by whom           | v date and by whom January 2023 Medicines Optimisation Team   |  |
| Date of issue                     | April 2023  |  |

#### Version Control (To be completed by policy owner)

| Version | Date            | Author   | Status | Comment  |
|---------|-----------------|--|--------|--|
| 1.0     | April 2017      | Prescribing & Medicines<br>Management Team (LB)              | Final  |  |
| 1.1     | May 2019        | AGEM Medicines<br>Optimisation Team                          | Update | Advice regarding diamorphine shortage added.<br>Conversion ratios added.   |
| 1.2     | January<br>2023 | NHS Norfolk & Waveney<br>Medicines Optimisation<br>Team (NC) | Update | Morphine added as first choice opioid.<br>Information relating to diamorphine removed.<br>'Mcg' abbreviation replaced with 'Micrograms'.<br>Frequency of Levomepromazine for nausea &<br>vomiting changed. Maximum dose of midazolam<br>removed and replaced with note to contact<br>specialist advice service for dose escalation via<br>CSCI. Time ranges removed for PRN doses.<br>Caution regarding use of levomepromazine in<br>Parkinson's disease added. Specialist advice<br>telephone number added. Levomepromazine<br>replaced haloperidol as 1 <sup>st</sup> line drug for nausea<br>and vomiting, cyclizine removed. |