Taunton and Somerset NHS Foundation Trust	Trust Guideline
Title: Use of Naloxone in Palliative Care Adult Patients	
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Accepted by: HCS Board	Active date: 18 September 2018
Accepted date: 18 September 2018	Review date: 18 September 2021
Applies to: All Medical and Nursing Staff who care for patients receiving Modified release Opioids who are at risk of Life Threatening Opioid Induced toxicity	Exclusions: None
	ation of Naloxone for the reversal of ving prescribed modified release opioids for pain management and for patients with life
	nsidered current when viewed via the Policies and Guidance printed or saved to another location, you are advised to valid, with reference to the active date.

Key Points

- This guidance is to intended to provide information about the use of Naloxone, an opioid antagonist, in patients receiving prescribed modified release opioids in a clinical setting
- It is not relevant in the management of acute opioid overdose.
- Naloxone should only be used when opioid induced toxicity is causing severe respiratory depression.
- It should not be used in patients who are dying as a natural result of their disease progression and are taking modified release opioids
- Naloxone cannot reverse symptoms induced by non-opioids, e.g. benzodiazepines.

1 Background

- 1.1 Naloxone is a potent opioid antagonist and is effective in the reversal of opioid-induced respiratory depression.
- 1.2 There is no NICE guidance on the use of Naloxone to reverse respiratory depression in patients prescribed opioids for pain relief. Guidelines have been produced by several local trusts based on the palliative care formulary and expert opinion.
- 1.3 The risk of respiratory depression in a patient who has already been on a regular opioid dose (for even a few days) is very small.
- 1.4 Locally there have been several cases which have highlighted the risk of causing severe pain and distress by the complete reversal of pain relief with the use of Naloxone given rapidly and at high dose. This is highlighted in an NHS Patient safety alert: Risk of distress and death from inappropriate doses of Naloxone in patients on long term opioid/ opiate treatment 20.11.14.

Please see Algorithm on page 4

2 Diagnosis and treatment of opioid toxicity

2.1 Is the patient showing signs of opioid toxicity?

These are drowsiness, confusion, myoclonic jerks and hallucinations. If these are the only symptoms and the patient is easily rousable and there is NO respiratory depression then:

- If the patient has no pain reduce the opioid dose by a third to a half.
- If the patient still has pain consider whether the pain really is opioid responsive and contact a specialist for advice.
- 2.2 Is the patient showing signs of opioid toxicity *and* has a reduced respiration rate (less than **8 breaths per minute**) and is **unrousable**? Then you will need to reverse some but not all of the effect of the opioid. You only want to reverse the respiratory depression and *not* the analgesia.
- 2.3 Administer high flow oxygen.
- 2.4 Draw up 400micrograms of Naloxone in a 10ml syringe and dilute to 10mls with 0.9% Sodium Chloride. You now have 10mls of medication containing 40microgram/ml Naloxone.

- 2.5 Administer 0.5ml = 20micrograms Naloxone IV every 2 minutes until the patient is rousable and has a respiratory rate of more than 10 breaths per minute.
- 2.6 If the patient has been taking slow release opioids (e.g. Oxycodone SR OxyContin[®] or Longtec[®] or Morphine SR MST[®]/ Zomorph[®]) then it is likely that further dosing will be required as the opioid will remain in the circulation for longer than the Naloxone. In this situation consult a specialist and continue close observation of the patient.

3 Other management considerations

- 3.1 Intravenous Naloxone is the preferred route of administration for Naloxone, but can be given intra-muscularly or subcutaneously if venous access difficult. Onset of action will be slower with IM or S/C administration. If giving IM give 200microgram Bolus dose and continue to monitor every 2-3 minutes.
- 3.2 Buprenorphine has a very strong receptor affinity, reflected in its high relative potency with Morphine, therefore Naloxone in standard doses does not reverse the effects of Buprenorphine and higher doses must be used.

4 Ongoing monitoring

- 4.1 Naloxone has a much shorter half-life than Morphine. There is a risk therefore of the opioid toxicity reoccurring as the Naloxone wears off (usually between 1-2 hours) and the opioid remains active. It is essential that respiratory rate and oxygen saturations should be closely monitored until stable. It is recommended monitoring/observation should be for a minimum of 2 hours to maintain adequate reversal.
- 4.2 The half-life of Morphine and other commonly used opioids is prolonged in renal failure.



IF RR≤ 8 BREATHS MINUTE – REPEAT ALGORITHM

References

- NHS patient safety alert: Risk of distress and death from inappropriate doses of naloxone in patients on long term opioid/ opiate treatment 20.11.14.
- Vandenburg.M. medico legal report on The Risks in Use of Naloxone with Patients Dependent on Opiates for Analgesia Especially for Those who have Cardiac Problems, 2012
- Twycross R. Wilcock A. et al. Palliative Care Formulary 4. Fourth Edition, Oxford, 2011. Electronic version available at: www.palliativedrugs.com
- Scottish Palliative Care Guidelines Nov 2014