

**Critical Care Guidelines
FOR ICU USE ONLY**



MORPHINE

- PRESENTATION:** 100mg in 50ml vials, 10mg/ml ampoules.
- INDICATION:** Analgesia and/or sedation or endotracheal tube tolerance.
- DOSE AND ADMINISTRATION:**
- ICU STANDARD IV INFUSION**
For a continuous infusion use the 100mg/50ml preparation undiluted. Usual range: 0-5mg/hour. Adjust dose according to patient response.
- IV BOLUS ADMINISTRATION**
Bolus doses are usually administered via the infusion pump if patients are receiving a continuous intravenous morphine infusion.
- If not receiving a continuous intravenous morphine infusion or if titration of a dose is required, dilute the 10mg/ml ampoule with sodium chloride 0.9% to a volume of 10ml. Administer slowly over 5 minutes (maximum rate 2mg/minute).
- CONCENTRATION:** Infusion: 2mg/ml
- Bolus injection: Use the 10mg/ml preparation, diluted to a final concentration of 1mg/ml.
- STABILITY:** Physically and chemically stable for 24 hours.

References:

1. Morphine Sulfate Injection 10mg/ml solution for injection. Martindale Pharma <https://www.medicines.org.uk/emc/product/3576/smpc>. Last updated 01/11/19
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3. Injectable Medicines Guide accessed online at www.injguide.nhs.uk on 12/06/20.
4. Sedation and analgesia. Scottish Intensive Care Society. <https://www.scottishintensivecare.org.uk/training-education/sics-induction-modules/sedation-10> Accessed 12/6/20.

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