

Critical Care Guidelines
FOR CRITICAL CARE USE ONLY

MORPHINE

PRESENTATION: 100mg in 50mL vials or 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 dose range: 0-2.5mL/hr.
Adjust 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 2mL/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. Summary of Product Characteristics
 - a. Morphine sulfate 10mg/ml solution for injection (AS Kalceks). Accessed via [Morphine sulfate 10 mg/ml solution for injection - Summary of Product Characteristics \(SmPC\) - \(emc\) \(medicines.org.uk\)](#) Last updated 2/10/20.
 - b. Morphine sulfate 10mg/ml solution for injection (Hameln Pharma Ltd). Accessed via [Morphine Sulfate 10 mg/ml solution for injection - Summary of Product Characteristics \(SmPC\) - \(emc\) \(medicines.org.uk\)](#) Last updated 7/9/20.

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- c. Morphine sulfate 10mg in 1ml solution for injection (Martindale Pharma). Accessed via [Morphine Sulfate 10mg in 1ml Solution for Injection - Summary of Product Characteristics \(SmPC\) - \(emc\) \(medicines.org.uk\)](#) Last updated 28/9/20.
2. Injectable Medicines Guide. Accessed via [Injectable Medicines Guide - Display - Morphine sulfate - Intravenous - Version 7 - IVGuideDisplayMain.asp \(medusaimg.nhs.uk\)](#) Last updated 14/9/21.

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