

## Furosemide

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <b>Form</b>                          | 20mg per 2mL<br>50mg per 5mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Store at room temperature in original container |
| <b>Reconstitution</b>                | Already in solution <ul style="list-style-type: none"> <li>• Draw up using a 5 micron filter needle</li> <li>• Use gloves when opening ampoules</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                            |                                                 |
| <b>Compatibility &amp; Stability</b> | Sodium Chloride 0.9% <b>ONLY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                 |
| <b>Administration</b>                | <b>IV Injection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                 |
|                                      | Can be administered undiluted or to aid slow administration can be diluted to any suitable volume.<br>Doses of up to 50mg may be given via slow IV injection at a maximum rate of 4mg/min (e.g. 20mg over 5 minutes)<br>(2.5mg/min in patients with severe renal impairment).                                                                                                                                                                                                                                                                         |                                                 |
|                                      | <b>Intermittent IV Infusion</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |
|                                      | Can be administered undiluted or to aid slow administration can be diluted to any suitable volume e.g. 50-100mL sodium chloride.<br>Preferably administer via a central venous access device to avoid potential venous irritation. If given peripherally, choose a large vein and monitor the injection site closely.<br>Administer slowly using an infusion pump at a maximum rate of 4mg/min (2.5mg/min in patients with severe renal impairment).                                                                                                  |                                                 |
|                                      | <b>Continuous IV Infusion</b> (preferred as may be more effective)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 |
| <b>Monitoring</b>                    | Can be administered undiluted or to aid slow administration can be diluted to any suitable volume. Furosemide is light sensitive. Light protection during infusion is not mandatory, but may be preferable for continuous infusions. Preferably administer via a central venous access device to avoid potential venous irritation. If given peripherally, choose a large vein and monitor the injection site closely.<br>Administer slowly using an infusion pump at a maximum rate of 4mg/min (2.5mg/min in patients with severe renal impairment). |                                                 |
|                                      | <b>IM Injection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                 |
| <b>Extravasation</b>                 | Use restricted to exceptional cases <b>only</b> where the oral and IV routes are unavailable. Maximum IM dose is 50mg.                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                 |
| <b>Additional Information</b>        | Monitor blood pressure, fluid balance, electrolytes (sodium and potassium), blood glucose, LFTs and creatinine.                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |
|                                      | Furosemide has a high pH and may cause venous irritation and tissue damage in cases of extravasation                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 |
|                                      | <ul style="list-style-type: none"> <li>• Infusion at a rate greater than 4mg/min may result in ototoxicity which may not be reversible.</li> <li>• Maximum infusion rate in patients with severe renal impairment is 2.5mg/min to reduce the likelihood of ototoxicity.</li> <li>• IM use is not suitable for the treatment of acute conditions such as pulmonary oedema.</li> </ul>                                                                                                                                                                  |                                                 |

**Information provided relates to Furosemide (Claris and Mercury) Last updated 5/2/2026**

*This information has been summarised to act as a guide for those administering IV medication. The monograph should be used in conjunction with the drug data sheet and BNF for information on dose, adverse effects, cautions and contra-indications. Further information is available from Pharmacy on 22146 or 22542*