



## NEONATAL Medication Monograph

# RIFAMPICIN




This document should be read in conjunction with this [DISCLAIMER](#)

**Highly Restricted:** Requires Neonatologist or Microbiologist approval before commencing

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| <b>Presentation</b>      | <b>Vial:</b> 600mg powder for reconstitution<br><b>Oral Mixture:</b> 20mg/mL  |
| <b>Classification</b>    | Rifamycin antibiotic<br><i>Rifampicin is used mainly as part of a multidrug regimen.</i><br><i>The potential for significant drug interactions must be considered before commencing therapy</i>   |
| <b>Indication</b>        | Prevention of <i>H. influenzae</i> type b disease<br>Prevention of meningococcal disease or staphylococcal infection with other agents<br>Other susceptible infections as per microbiology  |
| <b>Dose</b>              | <b>Contact Microbiology prior to use for adequate dosing regimens</b><br><b><u>All susceptible organisms</u></b><br><b>IV/Oral:</b><br>10mg/kg/every 24 hours - can be given in 1 or 2 doses<br><br><b><u>In severe infections</u></b><br><b>IV/Oral:</b><br>20mg/kg/ every 24 hours - can be given in 1 or 2 doses |
| <b>Compatible Fluids</b> | Sodium Chloride 0.9%, Glucose 5%  |

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| <b>Preparation</b>       | <p><b>IV:</b> Available from CIVAS (KEMH &amp; PCH)</p> <p><b>Step 1:</b><br/> <b>Reconstitution</b><br/> Reconstitute a vial using 10mL of the diluent supplied.<br/> Swirl gently and continuously until the powder has completely dissolved.<br/> The solution is reddish brown.<br/> Concentration is 600mg/mL = 60mg/mL</p> <p><b>Step 2:</b><br/> <b>Dilution</b><br/> Take 1mL of the above solution (60mg/mL) and further dilute to 10mL with appropriate diluent<br/> Final concentration is 60mg/10mL = <u>6mg/mL</u></p> |
| <b>Administration</b>    | <p><b>IV infusion:</b> Infuse over 30 minutes to 3 hours</p> <p><b>Oral:</b> Give on an empty stomach (at least 30 minutes before feed)</p>   |
| <b>Monitoring</b>        | <p><b>Prior to Starting</b></p> <p>Obtain liver function tests, serum creatinine and complete blood count before treatment.</p> <p><b>During Treatment</b></p> <p>Monitor complete blood count regularly during treatment and liver function tests if there is pre-existing liver impairment.</p> <p>Monitor for extravasation</p>  |
| <b>Adverse Reactions</b> | <p><b>Common:</b> extravasation, gastro-intestinal irritation, discolouration of urine, tears, saliva (pink/red), drowsiness, increased hepatic enzymes,</p> <p><b>Serious:</b> blood dyscrasias, hepatitis, hypersensitivity</p>   |
| <b>Storage</b>           | <p><b>Vial:</b> Store below 25°C. Protect from light.</p> <p><b>Reconstituted solution:</b> use immediately</p>   |
| <b>Interactions</b>      | <p><b><i>Rifampicin interacts with a number of medications – contact Pharmacy for further advice</i></b></p> <p>Rifampicin is an inducer of several hepatic enzymes. May increase the metabolism and subsequently reduce the activity of many other drugs.</p>  |

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| <b>References</b> | <p>Truven Health Analytics. Rifampin. In: NeoFax [Internet]. Greenwood Village (CO): Truven Health Analytics; 2020 [cited 2020 Oct 08]. Available from: <a href="https://neofax.micromedexsolutions.com">https://neofax.micromedexsolutions.com</a></p> <p>Society of Hospital Pharmacists of Australia. Rifampicin In: Australian Injectable Drugs Handbook [Internet]. [St Leonards, New South Wales]: Health Communication Network; 2020 [cited 2020 Oct 08]. Available from: <a href="http://aidh.hcn.com.au">http://aidh.hcn.com.au</a></p> <p>Australian Medicines Handbook. Rifampicin. In: Australian Medicines Handbook [Internet]. Adelaide (South Australia): Australian Medicines Handbook; 2020 [cited 2020 Oct 08]. Available from: <a href="https://amhonline.amh.net.au">https://amhonline.amh.net.au</a></p> <p>Takemoto CK, Hodding JH, Kraus DM. Pediatric &amp; neonatal dosage handbook with international trade names index: a universal resource for clinicians treating pediatric and neonatal patients. 24th ed. Hudson (Ohio): Lexicomp; 2019. 1739 p.</p> <p>Rifampicin. In British national formulary for children Joint Formulary Committee (September 2018-19) BNF 74: September 2018-19. London: Pharmaceutical Press.</p> <p>Ainsworth SB. Neonatal formulary 7: drug use in pregnancy and the first year of life. Seventh ed. Chichester (West Sussex): John Wiley &amp; Sons Inc.; 2015. 455.</p> |
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| Keywords:   | Rifampicin, rifadin, rifampin   |                   |              |
| Document owner:   | Head of Department - Neonatology  |                   |              |
| Author / Reviewer:  | KEMH & PCH Pharmacy / Neonatology Directorate   |                   |              |
| Date first issued:  | March 2008  | Version:          | 3.0          |
| Last reviewed:  | October 2020  | Next review date: | October 2023 |
| Endorsed by:  | Neonatal Directorate Management Group   | Date:             | October 2020 |
| Standards Applicable:   | NSQHS Standards:<br>1  Governance<br>3  Infection Control<br>4  Medication Safety; |                   |              |
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