



## NEONATAL MEDICATION PROTOCOLS

**CALCITRIOL**  
 Created by: NCCU  
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NCCU Clinical Guidelines  
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<b>DRUG:</b>	<b>CALCITRIOL</b>
<b>PRESENTATION:</b>	<p>Oral Solution : 1 microgram/mL</p> <p>Oral Solution : 0.05 microgram/mL          (prepared in pharmacy if more dilute solution is required)</p>
<b>ACTION &amp; INDICATION:</b>	<p>Calcitriol is 1,25-dihydrocholecalciferol, an activated form of Vitamin D<sub>3</sub>. This active hormone increases calcium and phosphorus absorption and with parathyroid hormone, increases bone resorption, maintaining calcium and phosphorous at blood levels which permit mineralisation of bone matrix.</p> <p>Used to treat hypocalcaemia, hypoparathyroidism, neonatal rickets.</p>
<b>DOSE:</b>	<p>Starting dose: 0.02-0.25 microgram/dose/day</p> <p>Maximum dose: 2 microgram/day</p> <p>Dose to be individualised depending on indication, and response</p>
<b>ADMINISTRATION:</b>	<p>Oral:          If dose is <math>\geq 0.05</math> microgram, use 1 microgram/mL strength oral solution.</p>
<b>ADVERSE EFFECTS &amp; COMMENTS:</b>	<p>Protect solution from light.</p> <p>Monitor:          Serum alkaline phosphatase, calcium, phosphorus, creatinine</p>
<b>REFERENCES:</b>	<p>BNF for Children 2013</p> <p>Paediatric Pharmacopoeia 13<sup>th</sup> Ed Royal Children's Hospital Melbourne</p> <p>Pediatric Dosage Handbook 17<sup>th</sup> Ed 2010</p>
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