

# PENTAVITE®

<b>Indication</b>	Multivitamin supplementation for neonate who is tolerating EBM or PDHM AND <ul style="list-style-type: none"> <li>o Weight is less than 2000 g OR</li> <li>o *Current gestational age less than 34 weeks</li> </ul>	
<b>ORAL</b>	<b>Presentation</b>	• Oral solution of infant liquid multivitamin
	<b>Dosage</b>	• 0.45 mL daily <sup>1</sup>
	<b>Preparation</b>	• Draw up prescribed dose into oral/enteral syringe
	<b>Administration</b>	• Oral/OGT/NGT • May be mixed with feeds <sup>2</sup>
<b>Special considerations</b>	<ul style="list-style-type: none"> <li>• A variety of regimens are commonly accepted and local protocols may differ</li> <li>• Timing and duration <ul style="list-style-type: none"> <li>o Commence on day 7 of life (if oral feeds commenced and tolerated)</li> <li>o Change from pentavite® to vitamin D (colecalfiferol) at 34 weeks current gestational age</li> <li>o Continue vitamin D as the post discharge supplement until 6 months of age</li> <li>o Advise parents of the risks of hypervitaminosis if other vitamin preparations are given in addition to vitamin D post discharge</li> </ul> </li> <li>• Not usually required if receiving: <ul style="list-style-type: none"> <li>o PN containing water and fat soluble vitamins (commence once ceased)</li> <li>o LBW infant formula or HMF</li> </ul> </li> <li>• If known vitamin D deficiency at any age, prescribe colecalciferol (vitamin D only product) instead of pentavite®</li> </ul>	
<b>Monitoring</b>	• Nil	
<b>Compatibility</b>	• Not applicable	
<b>Incompatibility</b>	• Not applicable	
<b>Interactions</b>	• Not applicable	
<b>Stability</b>	<ul style="list-style-type: none"> <li>• Refrigerate after opening<sup>3</sup></li> <li>• Discard 4 weeks after opening or as per local infection control policy (limited evidence)</li> <li>• Post discharge, advise storage as per product recommendations</li> </ul>	
<b>Side effects</b>	• Nil known	
<b>Actions</b>	<ul style="list-style-type: none"> <li>• Infant vitamin supplement containing (per 0.45 mL daily dose)<sup>1</sup> <ul style="list-style-type: none"> <li>o Vitamin A 390 microgram RE</li> <li>o Vitamin B<sub>1</sub> (thiamine HCl) 540 microgram</li> <li>o Vitamin B<sub>2</sub> (riboflavin) 810 microgram</li> <li>o Vitamin B<sub>3</sub> (nicotinamide) 7.1 mg</li> <li>o Vit B<sub>6</sub> (from pyridoxine HCl 135 microgram) 111 microgram</li> <li>o Vitamin C (ascorbic acid) 42.8 mg</li> <li>o Vitamin D<sub>3</sub> (colecalfiferol) 10.1 microgram (10 microgram=400 units colecalciferol)<sup>2</sup></li> </ul> </li> </ul>	
<b>Abbreviations</b>	EBM: expressed breast milk, HMF: human milk fortifier, LBW: low birth weight, OGT: orogastric, NGT: nasogastric, PDHM: pasteurised donor human milk, PN: parenteral nutrition *Current gestational age is the same as <i>postmenstrual age</i> (PMA)	
<b>Keywords</b>	Multivitamin, vitamin deficiency, penta-vite, pentavite	



The Queensland Clinical Guideline *Neonatal Medicines* is integral to and should be read in conjunction with this monograph. Refer to the disclaimer. Destroy all printed copies of this monograph after use.

## References

1. MIMS Online. Pentavite Infant Liquid Multivitamin. [Internet]: MIMS Australia; June 2021 [cited 2021 September 01]. Available from: <https://www.mimsonline.com.au>.
2. IBM Micromedex®/Neofax®. Multivitamin Drops. In: IBM Micromedex® NeoFax®/Pediatrics (electronic version). IBM Watson Health, Greenwood Village, Colorado, USA. 2021 [cited 2021 September 01]. Available from: <http://neofax.micromedexsolutions.com/neofax>.
3. Pentavite Product Information. [Internet][cited 2021 September 01]. Available from: <https://www.pentavite.com/product/multivitamin-infant-liquid/>.

## Document history

ID number	Effective	Review	Summary of updates
NMedQ22.077-V1-R27	11/01/2022	11/01/2027	Endorsed by Queensland Neonatal Services Advisory Group (QNSAG)

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