Pentavite

Newborn use only

Alert	Vitamin A is expressed as microgram retinol activity equiva-	alents (RAF) or international units (III) or	
Aleit	Vitamin A is expressed as microgram retinol activity equivalents (RAE) or international units (IU units.		
	1 microgram RAE = 1 microgram retinol = 3.3 units of retinol. (3)		
	1 microgram colecalciferol = 40 international units (or units		
Indication	Prevention of vitamin deficiency in infants born < 35 weeks	•	
Action	Multivitamin supplement		
Drug type	Multivitamin		
Trade name	Pentavite Infant liquid 0-3 years		
Presentation	Oral liquid		
1	Each 0.45 mL contains:		
	Vitamin A (from retinol palmitate 714 microgram)	390 microgram RAE (1287 units of retinol)	
	Vitamin B1 (as thiamine hydrochloride)	540 microgram	
	Vitamin B2 (riboflavin) (from riboflavine sodium phosphate 1.1 mg)	810 microgram	
	Vitamin B3 (nicotinamide or niacin)	7.1 mg	
	Vitamin B6 (pyridoxine) (from pyridoxine hydrochloride	111 microgram	
	135 microgram)	1 10 1	
	Vitamin C (ascorbic acid)	42.8 mg	
	Vitamin D (colecalciferol)	10.1 microgram (400 units)	
Dose	Routine supplementation in preterm or low birthweight in		
	0.45 mL daily. NOTE: Dose not based on weight.		
	Continue up to 12 months corrected age.		
	Cholestasis		
	Refer to Vitamins in cholestasis formulary.		
Dose adjustment			
Maximum dose	0.45 mL		
Total cumulative dose			
Route	Oral or intra-gastric tube		
Preparation	No preparation required		
Administration	Do not shake the bottle. Administer undiluted or mixed with a small amount of milk into infant's mouth through a feeding teat or via intra-gastric tube.		
Monitoring			
Contraindications	Not yet tolerating full feeds		
Precautions	Direct administration into the mouth may cause choking ar	nd apnoea	
Drug interactions			
Adverse reactions			
Compatibility			
Incompatibility			
Stability	Use within 9 weeks after opening.		
Storage	Store below 25°C. Protect from light.		
	Refrigerate after opening.		
Excipients	Sodium saccharin, pineapple flavour		
Special comments			
Evidence	No studies were located which examined the impact of multivitamin supplementation on any outcomes in low birth weight (LBW) infants. Policy statements from organisations in developed countries recommend providing multivitamin supplementation with a neonatal multivitamin preparation containing vitamins A, D, C, B1, B2, B6, pantothenic acid and niacin to all LBW infants receiving human milk from birth until the infant		
	attains a weight of 2000 g.		

ANMF consensus group JHCH_NICU_19.052

Pentavite

Page 1 of 2

Pentavite

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	Many units provide a multivitamin preparation to all LBW infants until 6 to 12 months chronological age.
	Vitamin D – There is evidence of reduced linear growth and increased risk of rickets in babies with a birth weight < 1500 g fed un-supplemented human milk. There is no consistent benefit of increasing the intake of vitamin D above 400 units per day. There are no clinical trial data on the effect of vitamin D on key clinical outcomes in infants with a birth weight > 1500 g.
Practice points	Pentavite® contains vitamin D, it may be used for later preterm or term infants at risk of vitamin D deficiency. However, this may be better managed using single ingredient vitamin D preparations (see Colecalciferol formulary). For preterm infants the dose may be halved (i.e. 0.23 mL) and given twice daily to improve tolerability.
	Infants with cholestasis should receive additional vitamin D supplementation until cholestasis/fat malabsorption resolves (see Colecalciferol formulary). Other fat soluble vitamins may also require supplementation.
References	 Product Information: Penta-Vite Multivitamins Oral Liquid. MIMSOnline. Accessed 18/07/2014. Optimal feeding of low-birth-weight infants, technical review. Karen Edmond, MBBS, MSc (Epidemiology), PhD. London School of Hygiene and Tropical Medicine, London, U.K. Rajiv Bahl, MD, PhD. Department of Child and Adolescent Health and Development, WHO, Geneva. https://dietarysupplementdatabase.usda.nih.gov/Conversions.php. Accessed on 17 November 2021.
	4. https://www.pentavite.com/product/multivitamin-infant-liquid/ . Accessed 04/07/2022.

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