

NEONATAL Medication Monograph

PHYTOMENADIONE (Vitamin K)

This document should be read in conjunction with this **DISCLAIMER**

Unrestricted: Any prescriber may initiate treatment

Presentation	Ampoule: 2mg/0.2mL (Konakion MM Paediatric®)				
1 resemation	For IM, Oral, IV administration				
Description	Fat soluble vitamin				
Indications	Prevents and treats haemorrhagic disease of the newborn by promoting the synthesis of blood coagulation factors in the liver				
	For neonatal biliary atresia and liver disease – Cholestasis				
	NOTE:				
	Parent/Guardian consent is to be obtained prior to administration of Vitamin K.				
Contraindications	Oral prophylaxis is not recommended in infants who are premature unwell, on antibiotics, have cholestasis or have diarrhoea - IM/IV Vitamin K must be administered				
	Oral prophylaxis is contraindicated in infants of mothers who are taking rifampicin, vitamin K antagonists including warfarin or anticonvulsants including phenytoin, barbiturates and carbamazepine- IM/IV Vitamin K must be administered				
Precautions	Severe hepatic dysfunction				
	High dose IV administration is associated with a possible risk of kernicterus in premature infants				
	Oral absorption may be impaired in short bowel syndrome, biliary atresia, and pancreatic insufficiency and malabsorption syndromes.				
Dosage	Prophylaxis of Vitamin K deficiency bleeding:				
	IM:				
	Birth Weight ≤ 1500g: 0.5mg (0.05mL) as a single dose				
	Birth Weight >1500g: 1mg (0.1mL) as a single dose				

	Oral:						
	A total of 3 doses must be administered when oral Vitamin K is used						
	Schedule	Days of Life	Dose				
	First Dose	At Birth	2mg (0.2mL)				
	Second Dose	Days 3-5	2mg (0.2mL)				
	Third Dose	Day 28	2mg (0.2mL)				
	IV: Indicated for infants with birth weight ≤ 1000g :						
	0.5mg (0.05mL) as a single dose						
	Cholestasis (neonatal biliary atresia or liver disease): Oral:						
	1mg (0.1mL) once a day						
Dosage Adjustment	Repeated doses are advised if infant vomits within an hour of an oral dose or if diarrhoea occurs within 24 hours of administration. Check with prescriber for further advice.						
Adverse Reactions	Common: pain, swelling and erythema at IM injection site, flushing, cyanosis, rapid weak pulse, hypotension						
	Serious: hypersensitivity-like reaction (anaphylaxis and death has been reported with rapid IV administration), hyperbilirubinemia and kernicterus with excessive doses						
Interactions	Co-administration of anticonvulsants can impair the action of vitamin K						
Compatible Fluids	Glucose 5%, Glucose 10%, Sodium chloride 0.9%						
Preparation	IV: May be diluted to 0.5mL if required for ease of administration						
Storage	Store at room temperature, below 25°C						
	Protect from light- solution should be clear						

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Administration	Intramuscular: (Preferred route of administration)				
	Administer undiluted				
	Oral: undiluted contents of ampoule may be given orally.				
	Break ampoule, place dispenser vertically into ampoule, withdraw solution from ampoule into dispenser until solution reaches marking on dispenser (2mg) and administer contents directly into mouth.				
	Intravenous:				
	Can be given via umbilical arterial or venous injection.				
	Inject undiluted over at least 60 seconds (maximum 1mg per minute). Give slowly and only on recommendation of consultant.				
Storage	Store at room temperature, below 25°C				
	Protect from light- solution should be clear				
Notes	Efficacy of treatment is decreased in patients with liver disease.				
	Oral and IV doses may be less effective than a single IM dose for long-term prophylaxis of haemorrhagic disease of the newborn				
	Near term or term infants with an intravenous line in situ should be administered Vitamin K IM due to the increased clearance of Vitamin K when given intravenously				
Related clinical guidelines	Vitamin K Administration- Neonate				
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