

Drug Protocol: Vitamin K

Drug: Phytonadione (Aquamephyton)

Indication(s) for Use in C.P.M. Practice: Used as prophylaxis to prevent vitamin K deficiency bleeding or hemorrhagic disease of the newborn. Also used to treat the condition.

Mechanism of Action: Acts the same in the body as naturally occurring Vitamin K, promotes clotting factors.

Legal for use in your state/province: Alabama midwifery laws and regulations do not specifically mention whether a midwife may or may not administer Vitamin K to a newborn.

Form	Dose	Route of Administration	Administration instructions	Treatment notes
Prefilled syringe	0.5 - 1 mg/0.5 mL	Injection	Subcutaneous (recommended) or intramuscular, within 1 hour of birth. (If intravenous administration is required, inject very slowly not exceeding 1 mg per minute, dilute with 0.9% Sodium Chloride Injection, 5% Dextrose Injection, or 5% Dextrose and Sodium Chloride Injection)	Onset: 1-2 hours Duration
ampule	2mg/mL 10mg/mL	Injection	Same as above	Same as above

Contraindications: Hypersensitivity to any ingredient.

Adverse reactions/side effects: Use only benzyl alcohol free formulations in neonates. "Hemolysis, jaundice, and hyperbilirubinemia in newborns, particularly in premature infants, may be related to the dose of Phytonadione. Therefore, the recommended dose should not be exceeded. Deaths have occurred after intravenous and intramuscular administration. Transient "flushing sensations" and "peculiar" sensations of taste have been observed, as well as instances of dizziness, rapid and weak pulse, profuse sweating, brief hypotension, dyspnea, and cyanosis. Pain, swelling, and tenderness at the injection site may occur" (International Medication Systems, 2018). "Reactions have included eczematous reactions, scleroderma-like patches, urticaria, and delayed-type hypersensitivity reactions" (Telligent Pharma, 2018).

Storage: Store in original carton until use, protect from sunlight, Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F).

Alabama State Board of Midwifery. (2018). Practice of licensed midwifery. Practice guidelines.

<https://alsbm.org/wp-content/uploads/2018/12/582-X-3.pdf>

International Medication Systems, LTD. (2018). Phytonadione injection USP, safety pre-filled syringe package insert. <https://www.amphastar.com/assets/phytonadione-02-18.pdf> Links to an external site.

Telligent Pharma Inc. (2018). Aquamephyton(phytonadione) ampule package insert. https://www.accessdata.fda.gov/drugsatfda_docs/label/2018/012223s042lbl.pdf

