



BETA-GUARD TOPICAL SPRAY

Description and Composition

BETA-GUARD TOPICAL SPRAY is a colourless clear solution. Each ml contains 0.57mg Gentamicin (as sulphate) and 0.284mg Betamethasone (as valerate) as its active ingredients and 0.8mg Methyl paraben and 0.1mg Propyl paraben as its preservatives.

Pharmacodynamics

Gentamicin has activity against susceptible bacteria, including many Streptococci, Staphylococci (coagulase negative/positive and some penicillinase-producing strains) and gram-negative bacteria including many Klebsiella, *E. coli*, Pseudomonas (often resistant), etc).

Betamethasone is a corticosteroid that is a non-specific anti-inflammatory agent. It acts by inducing phospholipase A2 inhibitory proteins (lipocortins) in cells, thereby reducing the formation, activity, and release of endogenous inflammatory mediators (e.g., histamine, prostaglandins, kinins, etc). Corticosteroids also reduce DNA synthesis via an anti-mitotic effect on epidermal cells. Topically applied corticosteroids also inhibit the migration of leukocytes and macrophages to the area reducing erythema, pruritus and edema.

Pharmacokinetics

Volumes of distribution have been reported to be 0.15 to 0.3 L/kg in adult dogs. The elimination half-lives for gentamicin have been reported to be 0.5 to 1.5 hours in dogs.

Betamethasone sodium phosphate was rapidly de-esterified *in vivo* to betamethasone.

In vitro studies in dog plasma showed that betamethasone was extensively bound to plasma proteins.

Betamethasone was widely distributed to the tissues.

Indication

For the treatment of infected superficial lesions in dogs caused by bacteria susceptible to gentamicin.

Recommended Dose

Hold bottle upright 3 to 6 inches from the lesion and depress the sprayer head twice. Administer 2 to 4 times daily for 7 days. 1 pump delivers 0.7ml of product.

Route of Administration

For external use only.

Contraindications

Aminoglycosides are contraindicated in animals which are hypersensitive to them. Because these drugs are often the only effective agents in severe gram-negative infections there are no other absolute contraindications to their use. However, they should be used with extreme caution in animals with preexisting renal disease with concomitant monitoring and dosage interval adjustments made. Other risk factors for the development of toxicity include age (both neonatal and geriatric animals), fever, sepsis and dehydration.

Several veterinary topical products list tuberculosis of the skin or pregnancy as a contraindication.

Warning and Precautions

Avoid contact with eyes. Wash hands after application or wear gloves when applying.

Interactions with Other Medicaments

None known.

Pregnancy and Lactation

Systemic corticosteroids can be teratogenic or induce parturition during the third trimester of pregnancy in animals. If considering use during pregnancy, weigh the respective risks with treating versus potential benefits.

Side Effects

Prolonged use, or use over large areas with products containing corticosteroids (betamethasone) may cause adrenal suppression; atrophic skin and comedone formation. Iatrogenic Cushing's syndrome is possible. Vomiting and diarrhea have been reported in small animals with use of the products containing betamethasone.

Local skin reactions (burning, itching, redness) are possible, but unlikely to occur. Betamethasone may delay wound healing particularly if used longer than 7 days in duration.

Symptoms and Treatment of Overdose

Systemic toxicity is unlikely to occur unless used on a significant percentage of body area or for prolonged times.

Glucocorticoids when given short-term are unlikely to cause harmful effects, even in massive dosages. Chronic usage of glucocorticoids can lead to serious side effects. Refer to section Side effects.

Storage Condition

Store below 30°C. Protect from light.

Shelf life

3 years.

Discard 6 months after first opening.

Packing

75ml, 200ml

Manufacturer & Product Registration Holder

Range Pharma Sdn Bhd

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