

Veterinêre medisyne
Slegs vir diergebruik

SKEDULERINGSTATUS: S4

Hexasol HB Inspuiting

SAMESTELLING

Elke mL bevat oksitetrasikliendihidraat ekwivalent aan oksitetrasiklien 300 mg/mL en fluniksienmeeglumine ekwivalent aan fluniksien 20 mg/mL. Natriumformaldehyde-sulfoksilaat 0,4% word ten tyde van vervaardiging as antioksidant bygevoeg.

FARMAKOLOGIESE KLASIFIKASIE
C.17.1.11 Antibakteriese kombinasies

FARMAKOLOGIESE WERKING

Die tetrasikliene is 'n familie van wye-spektrum bakteriostatische antibiotika wat proteiensintese in vatbare mikroorganismes inhieber. Die tetrasikliene, insluitende oksitetrasiklien, is aktief teen teenoor vele sensitiewe Gram-positiewe en Gram-negatiewe bakterië. Mikoplasma, chlamydia, rickettsia en sommige protozoa is ook vatbaar. Deur aan die reseptore van die bakteriese ribosoone te bind inhieber oksitetrasiklien proteiensintese. Die werking op proteiensintese is relatief spesifiek vir bakterieselle en 'n soortgelyke werking vind nie teen kliniese dosisse in soogdisselle plaas nie. Oksitetrasiklien is derhalwe selektief toksies vir bakterieselle. Fluniksienmeeglumine is 'n potente nie-narkotiese, nie-steroidie pynstiller met anti-inflammatoire, anti-endotoksiese en koerswrende eisenskappe. Fluniksienmeeglumine tree op as 'n omkeerbare inhibeerder van siko-oksigenase, 'n belangrike ensiem in die aragidoonuuruskaskadebaan, wat verantwoordelik is vir die omskakeling van aragidoonuurusklike endoperoeksiede. Gevolglik word die sintese van eikosanoëde, belangrike medieerders van die inflammatoire proses bestryke by sentrale koors, pyn en weefselinflammasie geinhieber. Deur sy werking op die aragidoonuuruskaskade, inhieber fluniksien die produktie van tromboksaan, 'n plaatjie pro-aggregeerde en vasokonstriktor, wat gedurende bloedstolling vrygestel word. Fluniksien oeef 'n koerswrende effek uit deur die sintese van prostaglandien E₂ in die hipotalamus te inhieber. Deur inhivering van die aragidoonuuruskaskade, verskaf fluniksien ook 'n anti-endotoksiese effek deur onderdrukking van eikosanoëdiformasie, om sodoende hul betrokkenheid in endotoksiese siektes te voorkom. *In vitro* antibakteriese sensitiviteit beteken nie noodwendig *in vivo* aktiwiteit nie.

INDIKASIES

Hexasol HB Inspuiting word aangedui vir die behandeling van respiratoriese infeksies en verwante koors in beeste wat veroorsaak word deur oksitetrasikliensensitiewe organismes.

KONTRA-INDIKASIES

Die gebruik word teenagedui in diere wat aan hart-, lever- of niersiektes ly, of waar daar 'n moontlikheid van gastrointestinale ulserasie of bloeding bestaan, of waar daar hypersensitiviteit teen die middel bestaan. Moenie ander NSAID saam of binne 24 uur na mekaar toedien nie. Die veiligheid van gebruik in dragtigheid is nie vasgestel nie.

WAARSKUWINGS EN SPESIALE VOORSORGSMATREËLS

Vermy intra-arteriële insputing. Diere moet nie gedurende behandeling vir menslike gebruik geslag word nie. Beeste mag slegs na 21 dae na die laaste dosis vir menslike gebruik geslag word. Nie vir gebruik in beeste wat melk vir menslike gebruik produseer nie. Die gebruik in enige dier wat jonger as 6 weke oud is of in ou diere mag bykomende risicos oplewer. Indien die gebruik onvermydelik is mag die dosis moontlik verminder moet word en word sorgvuldige kliniese bestuur vereis. Weens die potensiële risiko van 'n toename in nieroeksiteit, moet die gebruik in gedehidreerde, hipovolumiese of hipotensieve diere verminder word.

INTERAKSIES

Moenie ander nie-steroidie anti-inflammatoire middels (NSAID) saam of binne 24 uur na mekaar toedien nie. Sommige NSAID is sterk aan plasmaproteïene gebind en kompeteer met ander hoogsgebonde middels wat tot toksiese effekte mag lei. Die medetoeidiening van potensieel nefrotoksiese middels behoort vermy te word.

DOSIS EN GEBRUIKSAANWYSINGS

Moenie die aanbevole dosis of behandelingsperiode oorskry nie. Gevolglik word die sintese van eikosanoëde, belangrike medieerders van die inflammatoire proses bestryke by sentrale koors, pyn en weefselinflammasie geinhieber. Deur sy werking op die aragidoonuuruskaskade, inhieber fluniksien die produktie van tromboksaan, 'n plaatjie pro-aggregeerde en vasokonstriktor, wat gedurende bloedstolling vrygestel word. Fluniksien oeef 'n koerswrende effek uit deur die sintese van prostaglandien E₂ in die hipotalamus te inhieber. Deur inhivering van die aragidoonuuruskaskade, verskaf fluniksien ook 'n anti-endotoksiese effek deur onderdrukking van eikosanoëdiformasie, om sodoende hul betrokkenheid in endotoksiese siektes te voorkom. *In vitro* antibakteriese sensitiviteit beteken nie noodwendig *in vivo* aktiwiteit nie.

NEWE-EFFEKTE

Newe-effekte sluit gastrointestinale irritasie, ulserasie en, in gedehidreerde of hipovolumiese pasiënte, die potensiaal vir nierbeskadiging in. Die verlengde gebruik van hoër as die aanbevole dosisse mag gastrointestinale ulserasie veroorsaak en mag tot lewensbedreigende plasmaproteïenverspillinge enteropatie lei. Nefrotoksiteit in die vorm van papilläre nekrose, beenmurg-onderdrukking wat tot bloeddiskrasieë lei, en vertraagde leverfunksië mag voorkom.

Ataksia, vinnige asemhaling, spierswakheid en sentrale senuweestelseffekte (hysterie) mag na intra-arteriële toediening voorkom. Langwerkende tetrasiaklienoplossing mag weefselsreaksies veroorsaak. Intramuskulêre insputings mag tydelike ongemak veroorsaak wat na een of twee minute sal verdwyn.

BEKENDE SIMPTOME VAN OORDOSERING EN BESONDERHEDE VAN DIE BEHANDELING DAARVAN

Oordosering word geassosieer met gastrointestinale toksiteit. Wanneer 'n oordosering plaasgevind het, moet die medikasie onmiddellik ontrek word. Die behandeling is simptomates en ondersteunend.

IDENTIFIKASIE

'n Helder, donker amberkleurige oplossing, vry van sigbare deeltjies.

AANBIEDING

Hexasol HB word in 50 mL, 100 mL, 250 mL en 500 mL amberkleurige glasflessies verskaf vir veelvuldige dosisgebruik.

BERGINGSANWYSINGS

Bewaar teen of benede 25 °C. Beskerm teen lig. Hou buite bereik van kinders, oningeëigte persone en diere. Nadat die oplossing die eerste keer oopgemaak is, bly dit vir 28 dae stabiel.

REGISTRASIENOMMER

99/21.1/9

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DATUM VAN PUBLIKASIE VAN DIE VOUBILJET

01 Oktober 2010

UITVOER REGISTRASIE INLITGING NAMIBIE:

[NS2] Hexasol Injection: V05/17.1.10/1171

Veterinary Medicine
For Animal Use Only

SCHEDULING STATUS: S4

Hexasol HB Injection

COMPOSITION

Each mL contains oxytetracycline dihydrate equivalent to oxytetracycline 300 mg/mL and flunixin meglumine equivalent to flunixin 20 mg/mL. Sodium formaldehyde sulphoxylate 0,4 % is added at the time of manufacture as an antioxidant.

PHARMACOLOGICAL CLASSIFICATION C.17.1.11 Antibacterial combinations

PHARMACOLOGICAL ACTION

The tetracyclines are a family of broad-spectrum bacteriostatic antibiotics that inhibit protein synthesis in susceptible microorganisms. The tetracyclines, including oxytetracycline are active against many gram-positive and gram-negative bacteria. Mycoplasma, chlamydia, rickettsia and some protozoa are also susceptible. By binding to receptors of the bacterial ribosome, oxytetracycline inhibits protein synthesis.

The action on protein synthesis is relatively specific for bacterial cells and similar actions on mammalian cells do not occur at clinical dose rates. Oxytetracycline is therefore selectively toxic for bacterial cells.

Flunixin meglumine is a potent non-narcotic, non-steroid analgesic with anti-inflammatory, anti-endotoxic and anti-pyretic properties.

Flunixin meglumine acts as a reversible inhibitor of cyclo-oxygenase an important enzyme in the arachidonic acid cascade pathway, which is responsible for converting arachidonic acid to cyclic endoperoxides. Consequently, synthesis of eicosanoids, important mediators of the inflammatory process involved in central pyresis, pain perception and tissue inflammation is inhibited. Through its effects on the arachidonic acid cascade, flunixin also inhibits the product of thromboxane, a potent platelet

pro-aggregator and vasoconstrictor, which is released during blood clotting. Flunixin exerts its antipyretic effect by inhibiting prostaglandin E₂ synthesis in the hypothalamus. By inhibiting the arachidonic acid cascade pathway, flunixin also produces an anti-endotoxic effect by suppressing eicosanoid formation and therefore preventing their involvement in endotoxin disease states. *In vitro* antibacterial sensitivity does not necessarily imply *in vivo* activity.

INDICATIONS

Hexasol HB Injection is indicated for the treatment of respiratory infections, and the associated pyresis, caused by oxytetracycline-sensitive organisms, in cattle.

CONTRAINDICATIONS

Use is contraindicated in animals suffering from cardiac, hepatic, or renal disease, where there is a possibility of gastro-intestinal ulceration or bleeding or where there is hypersensitivity to the product.

Do not administer other NSAIDs concurrently or within 24 hours of each other. Safety in pregnancy has not been established.

WARNINGS AND SPECIAL PRECAUTIONS

Avoid intra-arterial injection. Animals must not be slaughtered for human consumption during treatment.

Cattle may be slaughtered for human consumption only after 21 days from the last treatment.

Not for use in cattle producing milk for human consumption.

Use in any animal less than 6 weeks of age or in aged animals may involve additional risk. If such use cannot be avoided animals may require a reduced dose and careful clinical management.

Avoid use in dehydrated, hypovolaemic or hypotensive animals, as there is a potential risk of increased renal toxicity.

INTERACTIONS

Do not administer other non-steroidal anti-inflammatory drugs (NSAIDs) concurrently or within 24 hours of each other. Some NSAIDs may be highly bound to plasma proteins and compete with other highly bound medicines which can lead to toxic effects. Concurrent administration of potentially nephrotoxic medicines should be avoided.

DOSAGE AND DIRECTIONS FOR USE

Do not exceed the stated dose or the duration of treatment. Hexasol HB is indicated for intramuscular or subcutaneous administration to cattle. The recommended dose rate is 1 mL per 10 kg bodymass (equivalent to 2 mg/kg flunixin and 30 mg/kg oxytetracycline). The period of time between the withdrawal of the first and final doses should not be unduly prolonged, and used within 28 days after broaching of the vial. Do not administer more than 15 mL at any one injection site.

SIDE EFFECTS

Untoward effects include gastrointestinal irritation, ulceration and, in dehydrated or hypovolaemic animals, potential for renal damage. Prolonged use or higher than recommended dose rates may cause gastro-intestinal ulceration and may lead to a life-threatening plasma protein enteropathy. Nephrotoxicity in the form of papillary necrosis, bone-marrow suppression resulting in blood dyscrasias and impaired hepatic function may occur.

Ataxia, rapid breathing, muscle weakness and Central Nervous System effects (hysteria) may occur after intra-arterial administration.

Long-acting tetracycline solutions may cause tissue reactions.

Intra-muscular injections may cause temporary discomfort that will abate after one or two minutes.

KNOWN SYMPTOMS OF OVERDOSAGE AND PARTICULARS OF ITS TREATMENT

Overdosage is associated with gastrointestinal toxicity. When overdosage has occurred withdraw the medication immediately. Treatment is symptomatic and supportive.

IDENTIFICATION

A clear, dark amber solution free from visible particles.

PRESENTATION

Hexasol HB is supplied in 50 mL, 100 mL, 250 mL and 500 mL amber glass vials for multiple dose use.

STORAGE INSTRUCTIONS

Store at or below 25 °C. Protect from light. Keep out of reach of children, uninformed persons and animals. After broaching the first time the solution will be stable for 28 days.

REGISTRATION NUMBER 99/21.1/9

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