



NO ADRENOCORTICAL SUPPRESSION WITH MOMETAMAX® IN DOGS WITH OTITIS EXTERNA

- . All dogs treated with Mometamax® had normal corticotropin stimulation test results
- One or more dogs treated with other therapies developed adrenocortical suppression

Corticotropin stimulation test results[†] of dogs after 7 days of topical otic therapy for otitis externa

Medication	No. of dogs	No. (%) below range	No. (%) in range	No. (%) above range
Mometamax®	9	0 (0)	9 (100)	0 (0)
Tresaderm®	8	4 (50)**	4 (50)	0 (0)
Panolog®	12	2 (17)	8 (67)	2 (17)
DVMax™	11	1 (9)	9 (82)	1 (9)

Adapted from Reeder C.I. et al. Vet Ther. 2008;9(2):111-121.

- Based on serum from whole blood samples collected 2 hours after corticotropin pel (2.2 U/kp) was administered in epaxial muscle. Cortisol analyses were performed by an independent commercial laboratory using a standardized radioimmunoassay kit previously evaluated for use in doos. Normal range: 8-17 mg/dL
- " P = 0.03 versus dogs treated with Mometamax"
- . Topical otic therapy for 1 week with Mometamax® and other treatments

Mometamax® Otic Suspension should be discontinued if any hypersensitivity to its components occurs. Do not use in dogs with known tympanic perforation. For side effects and warnings, please see accompanying Product Information.

FOR DECADES, VETERINARIANS HAVE RELIED ON MERCK ANIMAL HEALTH FOR ADVANCED RESEARCH AND DEVELOPMENT OF NOVEL OTIC THERAPIES.

"Owner was very happy with response to treatment with Mometamax, and the dog was acting so much better." Dr. Anderson, Veterinarian, Idaho

Mometamax® is the most prescribed product for treatment of otitis externa 3

Mometamax® delivers once-a-day treatment and a soothing formulation to promote compliance and treatment success.3

"Mometamax is the best thing ever. Easy to give, so clean, and I love the once-a-day treatment: but best of all, it started to work so fast "

Loretta Howard, Dog Owner, Maryland

THE ONLY PRODUCTS YOU NEED TO TREAT OTITIS EXTERNA

MOMETAMAX® AND POSATEX® PROVIDE CLEAR ONCE-A-DAY CHOICES FOR YOUR OTITIS EXTERNA NEEDS



FOR SEVERE AND CHRONIC CASES



Now once-a-day POSATEX® Otic to your treatment options, with novel active ingredients:

- Mometasone Furoate Monohydrate Proven safe and effective for rapid relief of inflammation
- Orbifloxacin

Proven efficacy against bacteria associated with canine otitis externa including Pseudomonas aeruginosa

Posaconazole

Novel antifungal agent perfect for cases with severe Malassezia

POSATEX® Otic Suspension is contraindicated in dogs with known or suspected hypersensitivity to quinolones, mometasone furgate monohydrate, or posaconazole. Do not use in dogs with known tympanic perforation. The safe use in dogs used for breeding purposes, during pregnancy or in lactating bitches, has not been evaluated.

For technical support, call MERCK Animal Health Technical Service TECHNICAL SERVICE (MON.-FRI., 8:30 AM - 5 PM, EST): 1-800-224-5318 CUSTOMER SERVICE (MON.-FRI., 8 AM - 7 PM, EST): 1-800-521-5767

www.merck-animal-health-usa.com

2. Reador CLI, Griffin CE, Polissar NL, et al. Comparative adrenocortical suppression in dogs with orbits external following topical oric administration of four different glucocorticoid-containing medications. Not The 2005(9):2111-12

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MOMETAMAX® OFFERS A PROVEN TREATMENT COMBINATION

1- Mometasone Furoate Monohydrate: Anti-inflammatory Action

- Rapidly controls inflammation to reduce related pain and irritation.
- 2- Clotrimazole: Antifungal Control
- Documented efficacy against Malassezia pachydermatis
- 3- Gentamicin: Antibacterial Effect
- Trusted antibiotic with low incidence of reported bacterial resistance

PATHOGENESIS AND TREATMENT OF OTITIS EXTERNA



F-27078915 NADA #141-177 Approved by FDA

MOMFTAMAX® (GENTAMICIN SULFATE, USP: MOMETASONE FURDATE MONOHYDRATE: AND CLOTRIMAZOLE, USP. OTIC SUSPENSION)

VETERINARY For Otic Use in Dogs Only

CAUTION Federal law restricts this drup to use by or on the order of a licensed veterinarian Keen this and all drugs out of the reach of children

DESCRIPTION Each gram of MOMETAMAX Otic Suspension contains nentamicin sulfate TISP equivalent to 3 mm nentamicin. base: mometasone furgate monohydrate equivalent to 1 mg mometasone: and 10 mg clotrimazole. USP in a mineral oilbased system containing a plasticized hydrocarbon gel.

PHARMACOLOG

Gentamicin: Gentamicin sulfate is an aminophycoside antibiotic active against a wide variety of gram-negative and gramnneithre harteria. In vitrateete have determined that nentaminin is hactericidal and acts by inhibition normal protein synthesis in susceptible microorganisms. In clinical trials, gentamicin was shown to have a range of activity against the following organisms commonly isolated from intected canine ears: Pseudomonas spp. (including P. aeruginosa), coagulasenositive stanhylococci. Enternonocus faecalis. Proteus mirabilis. and heta-hamolytic strentococci

Mometasone: Mometasone furcate monohydrate is a synthetic adrenocorticoid characterized by a novel (2) furnate 17-ester having chlorine at the 9 and 21 positions, which have shown to nossess high topical notency

Systemic absorption of mometasone furgate pintment was found to be minimal (2%) over 1 week when applied topically to doos with intact skin. In a 6-month dermal toxicity study using 0.1% mometasone ointment on healthy intact skin in dogs, systemic effects typical of corticosteroid therapy were noted. The extent of percutaneous absorption of topical cortico-

steroids is determined by many factors including the integrity of the epidermal barrier. Topical corticosteroids can be absorbed from normal intact skin Inflammation can increase percutaneous absorption. Once absorbed through the skin, topical corticosternids are handled through pharmacokinetic nathways similar to systemically administered corticosteroids

Cintrimazole: Cintrimazole is a broad-spectrum antifungal apent that is used for the treatment of dermal infections caused by var ious species of dermatophytes and yeast. The primary action of clotrimazole is against dividing and growing organisms.

In vitro, clotrimazole exhibits fungistatic and fungicidal activity against isolates of Trichophyton rubrum. Trichophyton mentagrophytes, Epidermophyton floccosum, Microsporum canis, Candida snn and Malassezia nachydermatis Resistance to clotrimazole is very rare among the funni that cause superficial mycoses. In an induced otitis externa study using dogs infected with Malassezia nachudermatis 1% cintrimazole in the vehicle formulation was effective both microbiologically and clinically in terms of reduction of exudate, odor, and swelling

In studies of the mechanism of action, the minimum fungicidal concentration of clotrimazole caused leakage of intracellular phosphorus compounds into the ambient medium with concomitant breakdown of cellular nucleic acids and accelerated potassium efflux. These events began rapidly and extensively after addition of the drug. Clotrimazole is very poorly absorbed following dermal application

Gentamicin-Mometasone-Clotrimazole: By virtue of its three active ingredients, MOMETAMAX Otic Suspension has antibacterial anti-inflammatory and antifungal activity in clinical field trials, MOMETAMAX Otic Suspension was effective in the treatment of otitis externa associated with bacteria and Malassezia pachydermatis, MOMETAMAX Otic Suspension reduced discomfort, redness, swelling, exudate, and odor

INFORMATION

INDICATIONS MOMETAMAX Otic Suspension is indicated for Mometasone: ALP (SAP) and ALT (SGPT) enzyme elevations the treatment of otitis externa in dons caused by suscentible weight loss angrexia polydinsia polydria neutrophilia and strains of yeast (Malassezia pachydermatis) and bacteria lymphonenia have occurred following the use of parenteral (Pseudomonae enn fincluding P paruninges) cosquises. high-dose and/or prolonged or systemic synthetic corticopositive staphylococci. Enterococcus faecalis. Proteus sternids in dons Cushing's syndrome in dons has been reported in perpetation with prolonged or repeated eternial thereou Clotrimazole: The following have been reported occasionally in CONTRAINDICATIONS If hypersensitivity to any of the compohumans in connection with the use of clotrimazolar andhama

mirabilis, and beta-hemolytic streptococci).

known perforation of eardrums.

with a nonototoxic solution

nents occurs, treatment should be discontinued and appropri-

ate therapy instituted. Concomitant use of drugs known to

induce ototoxicity should be avoided. Do not use in dogs with

WARNINGS. The use of these components has been associated

with deafness or partial hearing loss in a small number of

sensitive dogs (eq. geriatric). The hearing deficit is usually tem-

porary. If hearing or vestibular dysfunction is noted during the

course of treatment discontinue use of MOMETAMAY Ofice

Suspension immediately and flush the ear canal thoroughly

Other connenital anomalies including deformed foreless including

trimester of preparity and may precipitate premature parturi

tion followed by dystocia, fetal death, retained placenta, and

PRECAUTIONS Before instilling any medication into the ear.

examine the external ear canal thoroughly to be certain the

tympanic membrane is not nuntured in order to avoid the

nossibility of transmitting infection to the middle ear as well as

damaging the cochlea or vestibular apparatus from prolonged

Suspension beyond 7 days may result in delayed wound healing.

If overgrowth of nonsusceptible bacteria or fungi occurs.

treatment should be discontinued and appropriate therapy

Avoid innestion Adverse systemic reactions have been

observed following the oral ingestion of some topical cortico-

steroid preparations. Patients should be closely observed for

the usual signs of adrenocorticoid overdosage which include

sodium retention notassium loss fluid retention weight gain

Use of corticosteroids, depending on dose, duration, and

specific steroid, may result in endogenous steroid production

inhibition following drug withdrawal. In patients presently

receiving or recently withdrawn from corticosteroid treatments

therapy with a rapidly action corticosteroid should be consid-

TOXICOLOGY Field and safety studies with MOMETAMAX Otic

Suprancion have chown a wirle cafety marnin at the recom

mended dose level in dogs (see PRECAUTIONS/ADVERSE

Gentamicin: While aminophycosides are absorbed poorly from

okin introvication may occur when aminorhyposides are applied

topically for prolonged periods of time to large wounds, burns.

or any denuded skin, particularly if there is renal insufficiency.

All aminonly-neided have the notential to produce reversible

Mometasone: ALP (SAP) and ALT (SGPT) enzyme elevations

weight lose annravia notudinela notuuria neutronhilla and

lymphopenia have occurred following the use of parenteral.

high-dose, and/or prolonged or systemic synthetic cortico-

eternide in done. Cuchinn's cundrome in done has been report.

ed in association with prolonged or repeated steroid therapy.

Clatrimazale: The following have been reported occasionally in

humans in connection with the use of clotrimazole: erythema,

stinging, blistering, peeling, edema, pruritus, urticaria, and

general irritation of the skin not present before therapy

and irreversible vestibular, cochlear, and renal toxicity.

polydipsia, and/or polyuria. Prolonged use or overdosage may

produce adverse immunosuppressive effects.

ered in especially stressful situations

Administration of recommended doses of MOMETAMAX Otic

that received corticosteroids during pregnancy.

stinging, blistering, peeling, edema, pruritus, urticaria, and general irritation of the skin not present before therapy. MOMETAMAX Otic Suspension: In field studies following oncedaily teatment with MOMETAMAX Otic Suspension, ataxia, proprincentive deficits and increased water consumption were observed in less than 1% of 164 doos. In a field study following twice-daily treatment with MOMETAMAX Offic Suspension inflammation of the ninna and diarrhea were observed in less than 1% of 141 dons

DOSAGE AND ADMINISTRATION

Corticosteroids administered to dons rabbits and rodents The external ear canal should be thoroughly cleaned and dried during pregnancy have resulted in cleft palate in offspring before treatment. Verify that the eardrum is intact. For doos weighing less than 30 lbs. instill 4 drops from the 7.5 g. 15 g. and comelia, and anasarca have been reported in offsoring of dogs 30 a hattles (2 drans from the 215 a hattle) of MOMETAMAX Otic Suspension once daily into the ear canal. For doos weighing Field and experimental data have demonstrated that cortico. 30 lbs or more instill 8 drons from the 7.5 o. 15 o. and 30 o hotsteroids administered orally or parenterally to animals may ties (4 drops from the 215 g hottle) once daily into the ear canal induce the first stone of particition if used during the last Therapy should continue for 7 consecutive days

> HOW SUPPLIED MOMETAMAX Otic Suspension is available in 7.5 a (NDC 0061-1246-05), 15 a (NDC 0061-1246-04), 30 a (NDC 0061-1246-01), and 215 g (NDC 0061-1246-02) plastic Store between 2° and 25°C (36° and 77°F). Shake well

For natent information http://www.merck.com/product/patent/home.html.

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81-497143

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PRODUCT

Posatex® Otic Suspension

(Orbifloxacin, Mometasone Furoate Monohydrate and Posaconazole, Suspension)

Antibacterial, anti-inflammatory, antifungal

For Otic Use in Dogs Only

CAUTION: Federal law restricts this drug to use by or on the order of a licensed contentination

Federal law prohibits the extralabel use of this drug in food-producing

DESCRIPTION: Each gram of POSATEX® Otic Suspension contains 10 mg of orbifloxacin: mometasone furgate monohydrate equivalent to 1 mg mometasone furgate: and 1 mg of posaconazole in a mineral oil based system containing a plasticized hydrocarbon cell

Four drops of POSATEX® Otic Suspension delivers approximately 1.0 mg orbifloxacin 0.1 mg of mometasone furgate monohydrate, and 0.1 mg of

INDICATIONS: POSATEX® Otic Suspension is indicated for the treatment of otitis externa in dogs associated with susceptible strains of yeast (Malassezia) nachydermatis) and bacteria (coaquilase positive stanhylococci. Pseudomonas geruginosa and Enterococcus faecalis)

DOSAGE AND ADMINISTRATION: Shake well before use. For dogs weighing I less than 30 lbs. instill 4 drops of POSATEX® Otic Suspension once daily into the ear canal. For dogs weighing 30 lbs, or more, instill 8 drops once daily into the ear canal. Therapy should continue for 7 consecutive days.

CONTRAINDICATIONS: POSATEX® Otic Suspension is contraindicated in doos with known or suspected hypersensitivity to quinolones, mometasone furgate monohydrate, or posaconazole. Do not use in dogs with known tympanic perforation (see PRECAUTIONS)

WARNINGS Human Warnings: Not for use in humans. Keep out of reach of children

Animal Warnings: Do not administer orally. Immediately discontinue use of POSATEX® Otic Suspension if hearing loss is observed during treatment (see ADVERSE PEACTIONS

PRECAUTIONS: The use of POSATEX® Otic Suspension in dogs with perforated tumpanic membranes has not been evaluated. The integrity of the tumpanic membranes should be confirmed before administering this product. Avoid prolonged or repeated use of POSATEX® Otic Suspension, Long-term use of tonical otic corticosteroids has been associated with adrenocortical suppression and jatrogenic hyperadrenocorticism in dogs (see ANIMAL SAFFTY)

The safe use of POSATEX® Otic Suspension in dogs used for breeding purposes during pregnancy or in lactating bitches, has not been evaluated. The systemic administration of quinolones has been shown to produce cartilage erosions of weight bearing joints and other signs of arthropathy in immature animals of

ADVERSE REACTIONS: In the field study, 143 dogs were treated with POSATEX® Otic Suspension, Of those, 1 dog with bilateral otitis externa developed hearing loss POSATEX® Otic Suspension treatment was discontinued and the condition resolved after one week

To report suspected adverse reactions, call 1-800-224-5318

For a copy of the Material Safety Data Sheet (MSDS) call 1-800-770-8878.

CLINICAL PHARMACOLOGY: Orbifloxacin: Orbifloxacin is a synthetic fluoroquinolone antibacterial agent The bactericidal action of fluoroquipolones is concentration-dependent and

results from interference with bacterial DNA gyrase and topoisomerase IV. Since these engineer are needed for harterial DNA synthesis and transcription fluoroquinolones disrupt bacterial replication and lead to bacterial cell death. Mometasone: Mometasone furoate monohydrate is a topical corticosteroid characterized by a (2') furoate 17-ester having chlorine at the 9 and 21 positions. Posaconazole: Posaconazole is a broad-spectrum triazole antifungal agent The mechanism by which triazoles exert fungicidal action involves the selective inhibition of the enzyme lanosterol a C14 demethylase (a microsomal cytochrome P-450- dependent enzyme) involved in ergosterol biosynthesis in yeasts and filamentous fungi.

Systemic absorption of the active ingredients was determined in single-dose radiolabelled studies with 14C-orbifloxacin, 3H-mometasone furoate, and 14C-nosaconazole contained within the POSATEX® Otic Suspension formulation and placed into the ear canals of normal beagle dogs. Most of the absorption occurred in the first few days after administration. The extent of percutaneous absorption of topical medications is influenced by many factors including the integrity of the epidermal barrier. Inflammation can increase the percutaneous absorption of drugs.

FFFCTIVENESS: The effectiveness of POSATEX® Otic Suspension was evaluated in a placebo-controlled, double-blind, multi-site field study. One hundred and ninety one dogs with naturally occurring clinical otitis externa associated with both yeast and bacteria were randomly allocated to either POSATEX® Otic Suspension or placebo ointment. Of the 160 dogs evaluated for effectiveness. 122 were treated with POSATEX® Otic Suspension and 38 were treated with placebo ointment. Treatments were administered once daily for 7 consecutive days. Assessment of effectiveness was based on improvement in clinical signs at re-evaluation 2-7 days following administration of the last dose.

Compared to the placebo, a significant percent of dogs treated with POSATEX® Otic Suspension showed improvement in clinical signs (discomfort, erythema, and swelling) caused by otitis externa associated with one or more of the following organisms: Malassezia nachydermatis coagulase positive stanhylococci. Pseudomonas aeruainosa and Enterococcus faecalis

Percent of Dogs Showing Improvement in Clinical Signs of Otitis Externa

Clinical Sign	POSATEX® Otic Suspension Group	Placebo Group	Significance
Discomfort	88%	45%	p<0.0001
External Ear Canal Erythema	81%	39%	p<0.0001
External Ear Canal Swelling	83%	49%	p=0.0001

ANIMAL SAFFTY: POSATEX® Otic Suspension was administered at 1.3. and 5 times the recommended dosage for 21 consecutive days. The control group received the vehicle in both ears at the clinical dose given five times per day. There was a slight decrease in serum cortisol concentration after ACTH stimulation on Day 21 in the 5X group. Erythema was noted in all groups. Aural pain, swelling, or heat were each noted in 3 separate dogs in the 5X group. STORAGE INFORMATION: Store at temperatures between 2'-30'C (35.6'-86'F).

HOW SUPPLIED: POSATEX® Otic Suspension is available in 7.5 g. 15 g. and 30 g plastic bottles. NADA# 141-266 Approved by EDA

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