ReBalance
(Sulfadiazine and Pyrimethamine)
Antiprotozoal Oral Suspension

Duralactin

EQUINE ESSENTIALS

FOR THE HEALTH OF YOUR HORSE
FLY OINTMENT
• Application of repellent around wounds can minimize the risk of infection and promote healing

WOUND HEALING
• Topical treatment with silver-based dressings helps reduce microbial growth
• Collagen promotes granulation tissue formation and epithelialization of wounds
• Careful debridement is the first step to successful wound healing

GASTROINTESTINAL DISTRESS
• Scientists have shown that consumption of clay promotes internal healing

SUTURES
• Surgeon’s choice of suture is based on handling characteristics, tensile strength, knot security, and absorption rate

EPM
• Only 3 drug formulations are FDA-approved for use in controlling EPM infections
• Studies show that 40% of the equine population in the US is seropositive for S. neurona

PRN Pharmacal focuses on arming veterinarians, animal caregivers, and the animal health industry with a range of tools — therapeutics, nutraceuticals, and medical supplies — that allow them to treat diseases and conditions that impact the quality of life for animals and their owners. Our research and development places products for underserved categories of diseases and conditions within the reach of veterinarians, removing barriers to effective, reliable treatment options.
The challenge of EPM

Equine protozoal myeloencephalitis (EPM) is a common, progressive neurological disease found in horses in North and South America.

- Often caused by ingestion of *sarcocystis neurona* in food or water
- Contamination comes from the waste of infected opossums
- Symptoms often mimic other neurological diseases
- Diagnosis is expensive and difficult to diagnose
- Due to the lack of a vaccine or other preventative treatment, early intervention is crucial
- Untreated EPM can cause death

Treatment of EPM with ReBalance® (sulfadiazine and pyrimethamine)

ReBalance oral suspension is one of three FDA-approved commercially available treatments for EPM, and the only approved sulfadiazine-pyrimethamine combination. While all three treatments are similar in safety and effectiveness, ReBalance treatment costs up to 1/3 less than the other options. And 61.5% of treated horses responded positively to the product.

FDA approval indicates consistent quality standards, proven efficacy of the drug and ongoing safety reporting. Compounded medications are not evaluated by the FDA and may not meet FDA standards for safety and effectiveness. In general, the FDA has serious concerns about unapproved animal drugs, including certain compounded drugs. Unapproved drugs also may not be labeled or advertised appropriately. Please consult your veterinarian about other treatments.

Important Safety Information

For use in horses only. Do not use in horses intended for human consumption. Not for human use. Keep out of the reach of children. Prior to treatment with ReBalance, Antiprotozoal Oral Suspension, EPM should be distinguished from other diseases that may cause ataxia in horses. Injuries or lameness may also complicate the evaluation of an animal with EPM. In most instances, ataxia due to EPM is asymmetrical and affects the front and/or the hind limbs.

Treatment may cause generalized bone marrow suppression, anemia, leukopenia, neutropenia, and thrombocytopenia. A complete blood count (CBC) should be performed monthly to monitor horses for development of these conditions. The administration of the drug may need to be discontinued and/or treatments for bone marrow suppression initiated.

Other, less frequent side effects included decreased appetite, loose stools, and mild colic. In most cases, the gastrointestinal signs were self-limiting and did not require discontinuation of treatment.

Worsened neurologic deficits (treatment crisis) may be observed during a period beginning with the first few days of treatment with ReBalance and ranging out to 5 weeks. This neurologic deficit exacerbation may be the result of an inflammatory reaction to the dying parasites in the CNS tissue.

The safe use of ReBalance Antiprotozoal Oral Suspension in horses used for breeding purposes, during pregnancy, or in lactating mares has not been evaluated. The safety of ReBalance with concomitant therapies in horses has not been evaluated.

ReBalance is not for use in horses with known hypersensitivity to sulfonamide drugs or pyrimethamine. Refer to the prescribing information for complete details or visit prnpharmacal.com/rebalance.

Effective treatment, proven by research

Only the 1X dose was evaluated for effectiveness due to the toxicity (bone marrow suppression) seen at the 2X dose. Of the 48 horses assigned to the 1X group, 26 horses completed the study. Based on the improvement in the Overall Neurological Dysfunction (OND) scores and/or a negative CSF immunoblot, 16 out of 26 horses (61.5%) were considered successes.

Five of the 26 horses (19.2%), had a negative CSF immunoblot by day 150 of the study. Three of these five horses were also clinical successes based on the improvement in OND scores. Fourteen of the 26 horses (53.8%) were corroborated as successes by masked expert evaluation of videotapes.
Neutrophils, the white blood cells that the body uses to fight infection, release substances to destroy the source of the infection and tissue damage.

Inflammation is the body's normal response to damaged tissue and the presence of harmful organisms.

While the function of neutrophils is important to recovery from infection, the cells can also attack healthy tissue, leading to chronic inflammation and pain.

Blood Vessel
Tissue
Endothelial Wall

It blocks the entry of neutrophils from the circulatory system into the site of tissue damage. This is achieved by helping maintain tight cell junctions.

HIMF can both prevent and treat inflammation.

MicroLactin also helps maintain the proper action of macrophages, cells that form in response to inflammation, and help build the immune response.

The results of treatment with Duralactin: research studies

**MicroLactin and Equine Inflammation**

Method: 58 horses exhibited inflammation from the following causes:
- skin, muscle, foot and joint trauma
- gastrointestinal, respiratory and soft tissue toxins
- respiratory and dermatologic allergic reactions
- dermatologic and neurologic infections

"An oral supplement containing 7,000 mg MicroLactin was given twice daily (14,000 mg per day)"

Results:
- Inflammation reduced in 86% of patients (44/51)
- “Satisfied owners continued MicroLactin in horses with respiratory, dermatologic and musculoskeletal inflammation”

The benefits of Duralactin:
- You can utilize Duralactin as a primary supplement or an adjunct to other therapies.
- You can use Duralactin with both young and old horses that have been diagnosed with inflammation, or as a supplement to support normal activity and wellness.
- Duralactin does not have the side effects associated with other treatments, and it is tolerated in high-risk patients.
- Horses readily accept Duralactin pellets, making administration easy.

Duralactin is available as a tablet, soft chews, capsules, and paste for other species.

Visit DURALACTIN.COM for more information.
Disinfectants and Wound Care

Collasate® Family - Postoperative Topical Dressing
For management of postoperative and trauma sites

- With Type I Hydrolyzed Collagen, a revolutionary, patented wound healing collagen
  - Provides healing benefits of collagen in form immediately available to the body
  - Absorbs bacterial and debris exudate (ooze)
  - Forms occlusive barrier to maintain temperature and moisture balance
- Tissue-adhesive properties seal and protect the wound
- Nutritive protein supplied directly to the wound
- Dressing changes are simple and non-invasive

Collasate Silver contains Silver Oxide to help minimize infection

Storage and Safety:
- Store at room temperature 15°-30° C (59°-86° F).
- Keep from freezing. Extreme temperatures may affect viscosity but will not affect product performance.
- Keep out of reach of children and pets.
- Use only as directed.
- If condition worsens or does not improve within 10-14 days, contact your veterinarian.

Collasate Spray - Avoid contact with mouth and nose, as Bitrex is very bitter. Avoid contact with the eyes as the Bitrex may cause eye irritation.

Suture Products

Monomend® MaX Absorbable Sutures
Wound closure security for patients with compromised wounds

- Long-term synthetic absorbable poly-p-dioxanone monofilament suture
- Superior strength retention for gentle and extended wound support
- Retains 50% of knot tensile strength after 28-35 days
- Complete mass absorption in 180-210 days
- Excellent pliability, supple and easy to knot
- Smooth tissue passage
- 27” in length
- Packaged 1 dozen per box

Monomend® MT Absorbable Sutures
Stability and patient comfort for typical wound healing

- Glyconate structure causes low tissue reaction and helps reduce patient discomfort.
- Mid-term synthetic absorbable monofilament suture made of glyconate
  - 50% retention of knot tensile strength up to 14 days
- Complete mass absorption in 60-90 days
- Secure knotting performance
- Easy tissue passage
- Excellent pliability
- 36” in length, except Y463, Y844 and Y464, which are 18”
- Packaged 1 dozen per box

Polymend® MT Absorbable Sutures
Braided sutures with predictable and reliable absorption

- Mid-term synthetic absorbable 90/10 Poly (glycolide-co-L-lactide) coated, braided suture
- Easy handling and excellent knot security
- Degrade by hydrolysis
- Holds through the critical wound healing period and then is rapidly absorbed
- Retains 50% of knot tensile strength at 21 days
- Complete mass absorption in 56-70 days
- Smooth knot run down
- 27” in length
- Packaged 1 dozen per box

NY-STĀ® Non-Absorbable Sutures
Sutures for secure and tightly held knots

- Non-absorbable nylon monofilament suture
- High knot pull tensile strength
- Premium knot holding ability
- Smooth surface for easy tissue passage
- Packaged 1 dozen per box

Xenodine™ Polyhydroxydine™ Solution
Topical antiseptic solution

- Penetrates the skin without dermal toxicity
- Aids healing of wounds, cuts, and abrasions; ears, hooves; castration; ear and tail cropping; surgical site preparation
- Helps prevent topical bacterial and fungal infections
- Active Ingredient: Iodine (7%)
Liqui-Tinic™ 4X

convenient dosing of adult horses as well as colts. In tablet, bolus, and liquid, flavored suspension formulations for gastrointestinal tract healing.

Gastrointestinal distress. Even though antibiotics can help when Absorbent Anti-Diarrheal Demulcent

• houseflies
• Promotes healthy appetite

• Keep out of reach of children and pets
• Store in a cool, dry place
• For oral use only

are available for other species.

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Liqui-Tinic™ 4X

Provides vital nutrients for horses recovering from infection or injury, and with special dietary needs

• Delivers iron, B-complex vitamins, and amino acids in a palatable liquid formulation
• Promotes healthy appetite
• Helps correct nutritional deficiencies

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Innovative products for equine health.

For more information on the PRN portfolio of products, contact your PRN Pharmacal Representative.

Duralactin® products have not been approved by the FDA nor is it intended to diagnose, treat, cure or prevent any disease. Should only be used through consultation of a veterinarian and in conjunction with an overall wellness program.

PRN® Pharmacal, an employee-owned company, has been dedicated to developing specialized therapeutics that address the unmet, underserved and overlooked needs of the veterinary medicine community since 1978. Our commitment: quality solutions - as needed, when needed.