



Odor-No-More™

## Treatment of Severe Verrucous Pododermatitis Utilizing a Novel Patented Free Iodine Hydrogel Topically

### Summary

In cooperation with the Kentucky Horseshoeing School and its Director Mitch Taylor a novel Free Iodine Hydrogel developed and patented by BioLargo®, Inc. was utilized to topically treat a severe case of Verrucous Pododermatitis on the Pastern and Fetlock of a senior horse where the condition had been present for >10 years.

Over the course of 6 months approximately 96 ounces in total was applied topically to the affected area on both front legs of the horse. After the first 3 months of daily applications > 80% of the affected area appeared free of the condition and hair regrowth was observed. At the end of the 6 month trial period 100% of the condition appeared to be remedied and > 90% hair regrowth was observed.

### What is Pastern Dermatitis

Pastern dermatitis is a common syndrome in horses worldwide. Mild cases are generally referred to as “scratches,” and exudative lesions are called “grease heel” or “dew poisoning.” Chronic proliferative stages are referred to as **verrucous pododermatitis** and may be accompanied by nodules of hyperplastic tissue, as seen in this horse. Mechanical damage to the epidermis from chronic moisture, often in combination with chemical irritation or mechanical injury from ropes or chains, usually precedes the dermatitis.

Routinely reported dermal pathogens include Dermatophilis, congolensis, Staphylococcus sp., dermatophytes, mites, and nematodes such as P. strongyloides and the larvae of Strongyloides westeri. Horses affected with sarcoid or other tumors, phycomycosis, habronemiasis, and canker can also develop lesions with a similar gross appearance. Spirochetes have not previously been associated with equine pastern dermatitis.

The pastern lesions of the affected horse were grossly similar to the lesions seen in cattle.

### In Cattle

Commonly referred to as PDD (Papillomatous Digital Dermatitis) is recognized as an economically significant disease of cattle worldwide, occurring most frequently in dairy cattle. Examination of 350 bovine feet in a study of California dairy cattle indicated that lesions are generally 2–6 cm in diameter, circular to oval in shape, and raised with a surface that is red and granular or a composite of white-yellow, gray, brown, and/or black papillary areas interspersed with red granular areas. This disease has been referred to by a variety of other names, including digital dermatitis, interdigital papillomatosis, Mortellaro disease, hairy heel warts, strawberry heel, and foot warts in cattle.

*Ref. Journal of Veterinary Diagnostic Investigation <http://vdi.sagepub.com/content/12/3/287.full.pdf>*

## The Use of CupriDyne® Free Iodine Hydrogel to Erradicate Verrucous Pododermatitis



**Exudative and proliferative dermatitis (verruccous pododermatitis) of the caudal to lateral surface of the fetlock and lateral surface of the pastern, with a bosselated appearance referred to as "grapes", of a senior horse. The condition has been present for >10 years.**



**After 3 months of topical treatment utilizing approximately 48oz. of Nature's Best Solution Free Iodine Hydrogel >80% of all dermatitis is erradicated and hair regrowth is observed.**



**After 6 months of topical treatment with approximately 96oz. of CupriDyne® Free Iodine Hydrogel 100% of all dermatitis is erradicated and > 90% hair regrowth is observed.**