# 2nd INTERNATIONAL CONGRESS ON PATHOGENS AT THE HUMAN-ANIMAL INTERFACE (ICOPHAI): ONE HEALTH FOR SUSTAINABLE DEVELOPMENT

# **EOUINE PITIOSIS IN SÃO PAULO: CASE REPORT**

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## INTRODUCTION

Pythiosis is a zoonosis difficult to treat caused by Pythium insidiosum pseudo fungus aquatic found mainly in tropical regions. For development of the organism in the environment are required high temperatures, water accumulation and the presence of aquatic vegetation. The disease affects many domestic species and human, and the equine species is the most commonly affected. Pythiosis cause significant damage in the creation of horses in Brazil, due to the high number of deaths, treatment costs and loss of function of animals.

#### **CASE REPORT**

One horse, female, mixed breed about 12 years was removed by CCZ-SP from <u>Grajaú</u> administrative district. On clinical examination there was low body score, pale mucous membranes, mild dehydration, extensive ulcerative and <u>pruriginous</u> lesions in the <u>sternal</u> region, with about 30cm in diameter and large amount of bloody and purulent secretion, rarefaction areas in body and a firm nodule about 8cm in pre-scapular region. When blood count, anemia <u>normocytic normochromic</u> and <u>leukocytosis</u>.





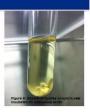




#### **DIAGNOSIS**

Considering the morphological appearance of the lesion and origin of the animal suspected of equine pythiosis. Caseous necrotic structures removed from main lesion (kunkers) were sent to the Laboratory of Zoonoses CCZ-SP, where they were cultured in Sabouraud Dextrose Agar and Sabouraud broth and incubated at 37 ° C. The identification of the fungus was based on macroscopic and microscopic characteristics of Pythium insidiosum and the diagnosis was confirmed.





### **TREATMENT**

Treatment was started with flunixim meglumine, sulfadiazine and trimethoprim, penicillin G benzathine, weekly baths with chlorhexidine and miconazole and management of the lesion with cleaning and applying ointment base barbatimão (Stryphnodendron) twice daily. Held draining node pre scapular which resulted in the elimination of pus. Severe anemia associated with the general status of the animal contraindicated the surgery. Therapy was instituted with Potassium Iodide (10mg/Kg, SID, VO), multivitamin-mineral supplementation, increasing the supply of concentrate and adding vegetable oil to the diet. As adjuvant therapy, there were four applications vaccine (lyophilized proteins Pythium insidiosum) subcutaneously at 15-days intervals, intensifying results. Despite the progress observed in sternal injury, the pre-scapular lump obtained partial response. Thus, set up intralesional application of amphotericin B 0,5% to the reduction of nodule size. Administration of potassium iodide and management of injury were kept until complete remission of signs and scar retraction of the main injury, which occurred after seven months of treatment. The animal was available donation. taking account the epidemiological aspects disease









# **CONCLUSIONS AND DISCUSSION**

Although Pythiosis Equine is a zoonotic disease of difficult treatment, the present report highlights the feasibility of success in therapy through the involvement of the professionals of zoonoses services and educational institutions, and the possibility of reintroduction of the animal in environment in a safe for animals and humans.



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