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Figure 2. Colt after initial treatment. Breathing pattern and its alertness improved.

its alertness improved (Figure 2). All other parameters remained similar. After definitive diagnosis of EIA the colt and his mother were isolated until a second positive Coggins test was confirmed. The foal was euthanized according to the ethical standards of animal care. Horses entry or exit at the premises were not allowed. All animals underwent serial serological sampling every 15 days for 60 days from the first case. 14 new cases were diagnosed in the same farm without clinical signs, including colt's mother. All positive animals were euthanized.



Figure 3. Lipemic blood serum with hyperbilirubinemia.

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Analysis of the large intestinal and faecal microbiota of horses with grass sickness using denaturing gradient gel electrophoresis

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Equine grass sickness (EGS) is a multi-system neuropathy affecting horses, characterized by degeneration of autonomic neurons and stasis of the gastrointestinal tract. Despite almost 100 years of research and the identification of numerous factors associated with disease risk, the precise etiology remains unknown. However, both historical and recent evidence supports a contributory role for *Clostridium botulinum* in disease etiopathogenesis. In this study we compared the microbiota of faeces and caecal and colonic contents from horses with EGS (n=10), control horses (n=4) and healthy co-grazing horses (n=21, only faeces) using denaturing gradient gel electrophoresis (DGGE) in an attempt to identify a profile of the microbial community characteristic of EGS. It was possible to distinguish the caecal and colonic microbiota of horses with EGS from that of control animals in cluster analysis. There was no difference in fecal microbiota between healthy and EGS affected horses; however there was a difference between horses from different premises. Our findings suggest that the change in intestinal microbiota detected in EGS is likely to be a consequence, and not the cause, of the gastrointestinal stasis.

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Outbreak of equine Monocytic Ehrlichiosis in criollo horses

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The Equine Monocytic Ehrlichiosis (EME) is an infectious acute diarrhea caused by *Neorickettsia risticii*. Peak incidence typically occurs during summer and is usually reported in farms near creeks or rivers. EME is endemic throughout North America, however, cases occurrence have increased over the last 100 years in Brazil and Uruguay [1]. The purpose of this study is to report a number of cases of EME in Criollo horses, characterizing epidemiological and clinical features, diagnostic methods and treatment. An outbreak occurred in a farm in south Brazil, February of 2014, affecting 26 animals and resulting in 18 deaths. Five mares, average 3-5 years-old, were referred to the Veterinary Hospital of Federal University of Pelotas, presenting signs of dehydration, endotoxemia and watered, dark and fetid diarrhea. Upon initial