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Name of Major Advisor          : Dr. B.Pal

Title of Thesis                         : *Clinico-pathologic and therapeutic studies on enteritis in neonatal calves*

Abstract

During the present study the overall incidence of neonatal calf diarrhoea was found to be 47.97% in the livestock farm of CSK HPKV, Palampur (H.P.). The incidence was highest (28.57%) in the age group of 4-6 days. Male calves suffered more (45.56%) and incidence was more in rainy season. Out of 64 diarrhoeic faecal samples cultured, 56 (87.50%) were positive for *Escherichia coli*, 2 (3.12%) for *Proteus* sp. and 6 (9.37%) for mixed infection. Of these 64 samples, 16 (25%) were also positive for *Cryptosporidium* sp. These diarrhoeic calves were divided in 8 groups and were treated with different therapeutic regimens. Decreased level of immunoglobins, plasma glucose and increased level of total plasma protein, plasma urea nitrogen, and plasma creatinine were observed in the affected calves. In mildly dehydrated calves, treatment with intravenous RL along with oral ofloxacin was better than oral amoxicillin. In severely dehydrated calves, treatment with interavenous fluid (RL) along with parenteral enrofloxacin was better than parenteral gentamicin. Calves affected with *Cryptosporidium* sp. along with the bacterial infection treated with ofloxacin along with nitazoxanide showed better improvement as compared to nitazoxanide alone.