

Efficacy of various antiprotozoal drugs on bovine babesiosis, anaplasmosis and theileriosis

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Abstract

The present study was conducted to check out the efficacy of various antiprotozoal drugs on bovine babesiosis, anaplasmosis and theileriosis. 38 buffaloes naturally infected with anaplasma, babesia and theileria were selected and divided into four groups. Group A (10), B (10), C (08) and D (10) infected with anaplasmosis, babesiosis, theileriosis, and Infected Control (anaplasmosis (4), anaplasmosis + babesiosis (1 each), babesiosis (2) and theileriosis (2) respectively. Group A was further subdivided into A-I (5 animals with pure Anaplasmosis) and A-II (5 animals with mixed infection of Anaplasmosis and Babesiosis). Group-A was treated with a single dose of imidocarb dipropionate (3 mg / kg body weight). In Group A-I one animal recovered completely, 02 moderately while remaining 02 animals did not respond. The later 02 animals recovered completely after additional 02 doses of 4 mg/kg body weight. In case of group A-II complete recovery was recorded in one animal, moderate recovery in three animals while one animal showed no response. Group B was treated with Diminazene aceturate (3.5 mg / kg body weight) administered as a single dose. 6 animals recovered completely, 02 moderately while 02 animals showed no response. Group C was treated with a single dose of Buparvaquone (2.5 mg / kg body weight), complete recovery was recorded in 4 animals, 2 animals showed no response, while 2 animals with severe infection died after 24 hrs. .

Keywords: Babesiosis, anaplasmosis, theileriosis, drug efficacy, buffalo