

NIGERIAN SOCIETY OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

BOOK OF ABSTRACTS



O THEME: O BIOCHEMISTRY & MOLECULAR BIOLOGY: OPTIMISING THE VALUE OF LOCAL RESOURCES FOR DIRECT FOREIGN INVESTMENT AND YOUTH EMPOWERMENT

DATE: 4th – 8th November, 2019 TIME: 10:00am Daily VENUE: Umaru Musa Yaradua University, Katsina, Katsina State

CB 132 PARTHOLOGICAL EFFECT OF SOME HORMONS ON RATE INFECTED WITH TRYPANO304 BRUCEI BRUCEI.

"AKTHOLOGICAL BLAZ" BAUGUAL Bashir Adamu Kugu*¹, Halima Ali Muhammad², Maryam Abdulkadir Kassim², Nusaiba Bala Sala Cobir², Sarah Iwuongo Bala² and Zainab Saleh Tamba³.

Gobir², Sarah Iwuongo -----Gobir², Sarah Iwuongo -----Nigerian Institute for Trypanosomiasis Research (NITR). #1 Surame Road, Unguwan Rimi, GRA. P.M.B. Kaduna state, Nigeria. *Corresponding author: Mobile Phone: +2348067029512; E-mail: bashkugu@yahoo.com

Abstract The Pathological effect of some hormons on rate infected with *trypanosoma brucei brucei* was investigated The Pathological effect of some hormons on rate infected with *trypanosoma brucei brucei* was investigated Group to the pathological effect of some hormons on rate infected with *trypanosoma brucei brucei* was investigated The Pathological effect of some hormons on rate interest where and two), Ten in each group. Group two were the rate where divided randomly into two group (Group one and two), Ten in each group. Group two were the rate where each the same load of parasites. At the peak of parasitaemia, the rate where each the same load of parasites. The rats where divided randomly into two group (Group of the peak of parasitaemia, the rats where sacrificed infraperitoneally with the same load of parasites. At the peak of parasitaemia, the rats where sacrificed infraperitoneally with the same load of parasites for serum biochemical analysis. The level of the same load of parasites is the same biochemical analysis. infected intraperitoneally with the same load of parasites. At the parasites where sacrificed infected intraperitoneally with the same load of parasites where collected for serum biochemical analysis. The level of Alamine by human decapitation and blood sample where collected for serum biochemical analysis. The level of Alamine by human decapitation and blood sample where collected for serum biochemical analysis. The level of Alamine by human decapitation and blood sample where collected for serum biochemical analysis. The level of Alamine by human decapitation and blood sample where collected for serum biochemical analysis. by human decapitation and blood sample where concerce and the ASP) was investigated using Bergmeyer et al. Aminotransferase (ALT) and Aspartate Aminotransferase (ASP) was investigated using Bergmeyer et al. Aminotransferase (ALT) and Aspartate Aminotransferase (ALP) was investigated using bergmeyer et al. (1978) using a commercial reagent kit. Alkaline phosphatase (ALP) was investigated using McComb and (1978) using a commercial reagent kit. The blood serum analysis of ALT. ASP and the (1978) using a commercial reagent kit. Alkaline phophatic and analysis of ALT, ASP and ALP were Bowers (1972) with a commercial reagent kit. The blood serum analysis of ALT, ASP and ALP were Bowers (1972) with a commercial reagent kit. The order of the presence of trypanosoma brucei and ALP were significantly higher in the infected group. In conclusion, The presence of trypanosoma brucei brucei in the significantly higher in the normal level of ALT. AST and ALP which is indicating dome significantly higher in the infected group. In conclusion, ART and ALP which is indicating damage to liver, albino rats lead to the increased in the normal level of ALT, AST and ALP which is indicating damage to liver, albino rats lead to the increased in the normal level of the sector of t

CB 133

SEROPREVALENCE AND RISK FACTORS OF BOVINE BRUCELLOSIS IN NIGER STATE, **NIGERIA.**

FAROTIMI, Adebayo Tosin*; SHITTU, Oluwatosin Kudirat; MAKUN, Hussaini Anthony *Biochemistry Department, Federal University of Technology, Minna, Nigeria farotimi.pg820638@st.futminna.edu.ng +2347032021036

Abstract

Brucellosis is a worldwide zoonosis that is recognized as a major cause of economic losses in livestock due to its primary effect on the reproductive system in affected animals which result into reduction in production and serious threat to human health. In this study seroprevalence of bovine brucellosis were studied in some selected abattoir in Niger State. Rose Bengal Plate Test (RBPT) was used to screen for the presence of the bacteria antibodies, Enzyme Linked Immunosorbent Assay (ELISA) as a confirmatory test and questionnaire survey to assess the level of awareness and risk factors. The study was conducted in 12 randomly selected abattors in Niger State from which a total of two hundred and ten blood samples were collected and fifty respondents interviewed. Out of 210 samples, One hundred and six (50.48%) samples were seropositive by RBPT, and seven (6.60%) samples were confirmed and six (50.48%) samples were seropositive tested seven (6.60%) samples were confirmed positive by ELISA. Thirty eight (53.52%) male samples were tested positive to RBPT, and five (13.16%) were confirmed positive by ELISA. Thirty eight (53.52%) male samples were tested positive to RBPT and two (2.044) were tested positive to RBPT, and two (2.94%) were confirmed positive by ELISA. Sixty eight (48.92%) remain supposed on respondent from vetering bounded to the confirmed positive by ELISA. The risk associated factor based on respondent from veterinary hospital staffs, abattoir workers and cattle farmers are awareness and acknowledge existence of brucellosis 34 (600) acknowledge existence of brucellosis 34 (68%), post-secondary education 13 (26%), inter-keep of other animals with cattle 13 (26%), veterinary based by the secondary education 13 (26%), inter-keep of other animals with cattle 13 (26%), veterinary based hospital treatment of infected animals 15 (30%), use of Personal Protective Equipment (PPE) 10 (20%) and direct results Protective Equipment (PPE) 10 (20%) and direct raw milk consumption 23 (46%). The variations in the results of the two tests showed that many of the RBPT test results were falsely positive because of its relatively low specificity. However, the detection of 6 60% server the detection of 6 60% server to the test results were falsely positive because of its relatively low have remained specificity. However, the detection of 6.60% seroprevalence indicates that the disease may have remained unabated. Also, the prevalence of disease in abattoir cottle unabated. Also, the prevalence of disease in abattoir cattle put humans at risk. Therefore, a more specificity Keywords: Bovine, Brucellosis, ELISA, Rose Bengal, Seroprevalence.