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- [13] Van Wyk JA, Mayhew E. Morphological identification of parasitic nematode infective larvae of small ruminants and cattle: A practical lab guide. *Onderstepoort J Vet Res* 2013; 80(1): 1–14.
- [14] El-Saadani M, Esterbauer H, El-Sayed M, Goher M, Nassar AY, Jürgens G. A spectrophotometric assay for lipid peroxides in serum lipoproteins using a commercially available reagent. *J Lipid Res* 1989; 30(4): 627–630.
- [15] McCord JM, Fridovich I. Superoxide dismutase an enzymic function for erythrocyte hemocuprein (hemocuprein). *J Biol Chem* 1969; 244(22): 6049–6055.
- [16] Marcocci I, Marguire JJ, Droy-lefaiz MT, Packer L. The nitric oxide scavenging properties *Ginkgo biloba* extract. *Biochem Biophys Res Comm* 1994; 201: 748–755.
- [17] Ruch RJ, Trosko JE. Gap-junction communication in chemical carcinogenesis. *Drug Metabolism Reviews* 2001; 33(1): 117–121.
- [18] Bancroft JD, Gamble M. Theory and practice of histological techniques, Churchill Livingstone, Edinburgh, London, New York, 2002.
- [19] Nakamura Y. Alterations of serum lipid, lipoprotein and inflammatory cytokine profiles of rabbits infected with *Trypanosoma brucei brucei*. *Vet Parasitol* 1999; 80(2): 117–125.
- [20] Ullegaddi R, Powers HJ, Gariballa S. Antioxidant supplementation with or without  $\beta$ -group vitamins after acute ischemic stroke: a randomized controlled trial. *J Parent Ent Nutr* 2006; 30: 108–114.
- [21] Atalay M, Laaksonene DE. Diabetes, oxidative stress, and physical exercise. *J Sport Sci Med* 2002; 1(1): 1–14.
- [22] Eze IJ, Ajanwachukwu N, Animoke CP, Onoja OS, Anosa NG, Eze UU. Immune response, anemia and oxidative stress in *Trypanosoma brucei brucei*-infected rats fed vitamin E supplemented diet. *Anti-Infective Agents* 2016; 14(1): 28–37.
- [23] Birch CS, Brasch NE, McCaddon A, Williams JH. A novel role for vitamin B<sub>12</sub>: cobalamins are intracellular antioxidants *in vitro*. *Free Rad Biol Med* 2009; 47: 184–188.
- [24] Buguet A, Bisser S, Josenando T, Chapotot F, Cespuglio R. Sleep structure: a new diagnostic tool for stage determination in sleeping sickness. *Acta Trop* 2005; 93(1): 107–117.
- [25] Saha RN, Pahan K. Regulation of inducible nitric oxide synthase gene in glial cells. *Antioxid Redox Sign* 2006; 8(5-6): 929–947.
- [26] Bonney KM, Taylor JM, Daniels MD, Epting CL, Engman DM. Heat-killed *Trypanosoma cruzi* induces acute cardiac damage and polyantigenic autoimmunity. *PloS One* 2011; 6(1): e14571.
- [27] Edoga, C. O., Ejo, J. E., Anukwuorji, C. A. and Nzewi, J. I. (2020). Effect of cyanocobalamin on antioxidant enzymes of male wistar albino rats infected with *Trypanosoma brucei brucei*. *Immunology and Infectious Diseases* 8(1): 1-5
- [28] Edoga, C. O., Ejo, J. E., Anukwuorji, C. A., Ani, C. E. and Izundu, M. I. (2020). Antioxidant effects of mixed doses of vitamin B<sub>12</sub> and E on male wistar albino rats infected with *Trypanosoma brucei brucei*. *Immunology and Infectious Diseases* 8(2): 7-13.