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Bacteriological fundings in valvular endocarditis amongst slaughter pigs in Benue state Nigeria

Agada Sunday¹ and Clement Orgem²

¹Private Veterinary Surgeon, Nigeria

² Joseph Sarwuan Tarka University, Nigeria

Statement of the Problem: Benue state is major producer of pigs and houses over 20% of the Nigerian pig population (Umeh et al., 2015; Asambe et al., 2019). Disease conditions such as valvular endocarditis affects the production of these animals. In developed countries of the world, valvular endocarditis has been the focal point of study because of the protocol of compulsory opening of the hearts of pigs at slaughter. In Nigeria there is no such protocol of slaughter, in fact the condition is either not recognised at slaughter or even mis-diagnosed at clinical stage. There is no information regarding endocarditis among swine

Methodology & Theoretical Orientation: A total of 1000 pigs was randomly selected for a period of 4months, 20 hearts were examined daily, out of which those with suspected lesion (swollen) were collected for bacteria culture and identification. From multistage samples collected valvular endocarditis had a prevalence of 2.1%.

Conclusion & Significance: From samples collected Causes of the endocarditis were; larva migrants with prevalence of 14.2% Heart worms (metastrongylus apri.) had prevalence of 9.25%, Bacteria (Streptococcus Spp, Staphylococcus Spp, E. coli) Had a prevalence of 52.38% Trauma (slaughter method) with prevalence of 23.8%. The causes of endocarditis are heart worms, larva migrants, bacteria and trauma, with bacteria having the highest prevalence rate of 52.38%. This agrees with other researchers such as (Henrick et al, 2010) who opined that bacteria are the most common cause of endocarditis in pigs. There are no significances to age, sex, as the condition affects all ages (Henrick et al., 2010) all sex, both male and female.

Recommendations for protocol for slaughter of pigs in Makurdi slaughter slab should be highly considered.

References:

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Biography

Sunday Agada is a dedicated veterinarian with interest in general veterinary practice and emergency response. He is currently the MD/CEO of All Round Veterinary Clinic and Pharmacy located in Nigeria. His interest in research has drawn to some researchers in ERC-NETWORK, which includes a group of private researchers from all walks of life in Nigeria. As a competent veterinary Surgeon he has been open to developing himself through webinars, partaking in researches and conferences both within and outside the country. He is also a member of the Veterinary Council of Nigeria and the assistant secretary of the Nigerian veterinary medical association Lagos State, Nigeria.

agadasunday15@gmail.com