



Screening of antibiotic residue in Kathmandu valley of Nepal: A cross-sectional study

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Abstract

This cross-sectional study was conducted to screen the presence of antibiotic residue in poultry. A total of 60 samples (30 Muscle and 30 Liver) were taken from local meat shops from different parts of Kathmandu valley. Disc assay method was used. *Escherichia coli* (ATCC 25922) and *Staphylococcus aureus* (ATCC 25923) were used as test organisms. The results revealed 8 positive samples (which is 13%). Among 30 Liver samples, 3 showed positive result, while only 2 muscle sample indicated positive result. Muscle has the highest percentage of positive results than liver. For *S. aureus* showed greater percentage of positive results than that of *E. coli*. The presence of antibiotic residue and its many pathological effects to public health demands the strict rules and regulations as well as surveillance from the concerned authorities

Biography

Sujan Khanal is currently pursuing his master's degree in environmental science and management at Pokhara University (SCHEMS College). He has completed his bachelor's degree in microbiology at Tribhuvan University (Trichandra College). He is author of two books known as "Bioinformatics for B.Sc. 3rd year microbiology program" and "Instrumentation in Microbiology for B.Sc. 4th year program". He also has one research publication and another one is under process. Mr. Khanal has worked at Nepal academy of science and technology (NAST) and National Agriculture research Council (NARC) and is board of director at Center for applied and allied science private limited. (CAAS). He is currently working at Microbiology and Molecular Biology Research Association (MiMRA).

Publications

1. Publication I: Evaluation of the lidar-radar cloud ice water content retrievals using collocated in situ measurements
2. Publication II: Uncertainties in MODIS-Based Cloud Liquid Water Path Retrievals at High Latitudes Due to Mixed-Phase Clouds and Cloud Top Height Inhomogeneity
3. Publication III: Evaluation of airborne radar-lidar retrieval of ice water content using in-situ probes
4. Publication IV: Improving middle and high latitude cloud liquid water path measurements from MODIS
5. Publication V: Evaluation and improvement of the MODIS liquid water path retrievals using A train satellite and ground-based remote sensing measurements and radiative transfer modeling



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