

ANTIBIOTIC RESIDUES DETECTION IN RAW BEEF MEAT SOLD FOR HUMAN CONSUMPTION IN SINDH, PAKISTAN

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ABSTRACT

The study was carried out to detect the antibiotic residues in raw beef meat sold for human consumption at the vicinities of Hyderabad, Mirpurkhas, Sukkur, Larkana and Karachi divisions of Sindh. A total 300 samples collected 60 samples from the vicinity of each Division i.e. Hyderabad, Mirpurkhas, Sukkur, Larkana, and Karachi of Sindh province were examined for the occurrence of antibiotic residues. It was observed that the presence of antibiotic residues in beef samples was found to be higher at Karachi (48.33%) followed by Sukkur (41.67%), Hyderabad (36.67%), Mirpurkhas (33.34%) and Larkana (31.67%) divisions. Out of total beef samples obtained from study area overall 38.33 percent were observed as contaminated with the antibiotic residues. The average zone size in diameter of beef samples of Karachi division was found to be significantly ($P < 0.05$) high followed by Sukkur, Hyderabad, Larkana and Mirpurkhas. The results of present study showed that a considerable contamination of antibiotic residues in beef meat was found at all divisions of Sindh province. It could be concluded that withdrawal periods of antibiotics were seems to be not followed by livestock farmers or butchers.

KEYWORDS: Antibiotic, Beef Meat, Detection, Human Consumption, Residues