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Evaluating the Quality of Veterinary Enrofloxacin Products to Combat Antimicrobial Resistance

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Background: Enrofloxacin (enro) is a broad-spectrum fluoroquinolone antibiotic active against both Gram-positive and Gram-negative bacteria. It is used extensively in both animals and humans due to its high bioavailability and the wide range of susceptible infections. However the use of falsified and substandard veterinary products as poor quality and counterfeit formulations increase the risk of treatment failure due to antimicrobial resistance (AMR). Therefore there is need to screen for quality of veterinary products, thus twenty one suspicious veterinary products withdrawn from the market in Saudi Arabia and the RLMC Received a request from operation sector at Saudi Food & Drug Authority to evaluate these products.

Methods: Medicines Reference Laboratories developed method for quantification, determination and analysis of Norfloxacin and Enrofloxacin via utilizing Liquid chromatography- Mass spectrometry (LC/MS) which is very sensitive analytical instrument compared to previous USP method utilized the HPLC instrument.

Results: The results displayed 8 samples are found to be

falsified veterinary products contaminated with Enrofloxacin and mislabeled ingredients due to other ingredients were added to the content of preparation.

Conclusion: This developed method can be used to assess the quality of veterinary products in the field and identify substandard, poor quality and falsified veterinary products, potentially our findings may be helpful to identify particular causes for concern such as accidental contamination with Enrofloxacin and will be essential in combating transnational veterinary medicine crime, and reducing the circulation of falsified veterinary products.

Biography

Ibrahim Alothaim is a dedicated researcher and expert in the field of veterinary pharmacology, with a particular focus on antimicrobial resistance (AMR) and the quality evaluation of veterinary pharmaceutical products. Their work extensively explores the role of broad-spectrum antibiotics like enrofloxacin (enro) in combating Gram-positive and Gram-negative bacterial infections in both humans and animals.