

Global Veterinary Microbiology and Veterinary Medicine Summit

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Review of programs to promote judicious use of antimicrobials in humans and animals one health

Antimicrobials have been used for more than half century to treat human and animal diseases, leading to improved healthcare and increased human lifespan. Over the years, however, many common bacteria have developed resistance to antibiotics, decreasing their effectiveness. Both human and veterinary medicine have been contributors to misuse or overuse of these important drugs and government agencies face intense public pressure to curtail their use or find mitigation strategies for slowing the development of resistance genes in pathogens. Livestock producers for example have been singled out for their supposed contribution to the problem. The U.S. Centers for Disease Control and Prevention (CDC) and 25 national health organizations issued a joint policy statement that advocates conserving and replenishing antibiotic resources. The joint statement commits to working with regulatory, veterinary and industry partners to promote the judicious use of antibiotics in food animals. The statement also commits to reinforcing the judicious use of antibiotics in agriculture by limiting the use of medically important human antibiotics in food animals, supporting the use of such antibiotics in animals only for those uses that are considered necessary for assuring animal health and having veterinary oversight for such antibiotics used in animals. New guidelines are being recommended for companion animals and particularly microbiota resistances of antibiotics from feces of in-house pets on antibiotic therapy as well as spraying of fruit trees. There are numerous steps to accomplish this goal in humans by decreasing excessive prescribing, prompt culture and sensitivity testing of bacterial with on-site test.

Biography

Sue Hudson Duran has received her Doctoral degree in Pharmacological Science from Auburn University in 2003. She is a Clinical Pharmacist and was the Supervisor of the IV Admixture Department at Johns Hopkins Hospital, USA. She has served on numerous infectious disease committees in both humans and animals. She has worked as an Infectious Disease Pharmacy Consultant for 20 years at several hospitals and nursing homes. She has served on the antimicrobial subcommittee for antimicrobial stewardship for the National Institute of Animal Agriculture.

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