PROJECT SNAPSHOT

5A: Development of Firstline DVM: An iOS and Android "App" for Veterinary Stewardship WHO Essential Antibacterials "App" Development

Pillar: Treatment Optimization

Theme: Education and Societal Impact

Keywords: One Health; Antimicrobial Stewardship; Application;

Veterinary Medicine

PRINCIPAL INVESTIGATOR: John Conly, MD 1,2,3

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AIM

- 1 To promote optimal use of antibiotics for selected veterinary species-specific syndromes with Canadian or provincially specific guidelines.
- 2 To facilitate collaboration and management of the WHO essential medicine antibacterial list by syndrome content and to develop a telestewardship platform in Alberta.

WHY IS THIS IMPORTANT?

Appropriate use of antibiotics from a One Health perspective may diminish bacteria becoming resistant to antibiotics. Use of algorithmic apps and tele-stewardship represent novel platforms.

OUTCOMES

Improve optimal selection of antibiotics for appropriate syndromes within a One Health lens.

RESEARCH QUESTIONS

- 1 Can an antibacterial algorithmic app be developed for selected species-specific syndromes guidelines for veterinary settings?
- 2 Can the WHO essential medicine antibacterial list deployment by syndrome content (21 syndromes in adults and children/5 specific childhood infections and 3 STIs) be facilitated by app development?
- 3 Can we build a platform to enable capacity building by developing the Alberta Tele-stewardship Network?

OUR APPROACH

Investigators in Calgary, Edmonton, and Guelph, with the aid of software consultants in BC and tele-stewardship personnel within AHS, will be working to facilitate appropriate syndromic specific prescribing using modern platforms and appropriate guidelines.

ALIGNMENT WITH THE AMR - ONE HEALTH CONSORTIUM

LEVERAGED SOURCES OF SUPPORT

Alberta Health Services • Canadian Institutes of Health Research Joint Programming Initiative on Antimicrobial Resistance • World Health Organization

KNOWLEDGE & TECHNOLOGY EXCHANGE AND EXPLOITATION

- Modelling the app after the successful Firstline Calgary app.
- Capacity building for stewardship in remote areas.
- Collaboration with the CVMA and Firstline Clinical to co-design and implement a veterinary antimicrobial stewardship (AS) app, which was completed and launched in November 2021.

TRAINING OF HIGHLY QUALIFIED PERSONNEL

- 1.5 Research Associates
- Firstline Software Developers

AFFILIATIONS:

















