A Pan-Canadian Framework on Antimicrobial Resistance

Presentation to the National Farmed Animal Health and Welfare Council
November 30, 2016
PURPOSE

• To provide an update on the development of a Pan-Canadian framework on Antimicrobial Resistance (AMR)
Since the last time we were here

International:

• Increased recognition that AMR requires global action at all levels

• G7 and G20 have identified AMR as a priority at the Leaders level, and by Ministers of Health, Agriculture and Science

• Demonstrating the significant level of concern across the international community, in September 2016 the United Nations General Assembly (UNGA) convened a High Level Meeting on AMR

• Consensus that an effective response requires a coordinated approach to across multiple sectors

• The WHO Global Action Plan on AMR was recognized as the blueprint for action

• Countries called on to:
  o Develop and fund sustainable cross-sectoral national action plans
  o Focus on concrete indicators to measure the effectiveness of interventions
  o Harmonize regulatory frameworks as a mechanism to support R&D
Since the last time we were here cont’d

Domestic – Implementation of Federal Action Plan Commitments:

- Workshop held in October 2016 to begin discussion on AMR and antimicrobial use (AMU) surveillance in animal agriculture

- Advancing regulatory and policy changes for medically important veterinary antimicrobials

- Supporting research and innovation, including the launch of a point of care diagnostics initiative, a funding opportunity on transmission dynamics, and funding through investigator-initiated competitions

- Discussions are underway between the CFIA and CVMA to conduct a multi-year project on AMU data collection with practising veterinarians

- F/P/T governments are developing a Pan-Canadian framework on AMR, and action plan
Development of a Pan-Canadian Framework on AMR

- Across Canada, responsibility for AMR is shared across multiple sectors, all levels of government, and with stakeholders
  - Numerous actions to address AMR are being taken by actions in public health, healthcare, and agriculture and agri-food sectors --- but are often undertaken independently

- An effective Pan-Canadian approach must reflect the multi-sectoral nature of AMR and uses a “One Health” lens that would:
  - Involve all levels of government
  - Be coordinated across human health, agriculture/agri-food sectors and include engagement with external stakeholders
  - Clearly define roles and responsibilities of each sector to ensure accountability

- PHAC is leading efforts to develop a pan-Canadian framework by bringing together federal, provincial and territorial governments as well as key stakeholders from the veterinary and medical communities, industry and academia

- With a Pan-Canadian framework we are trying to:
  - Coordinate and leverage individual actions being taken across sectors;
  - Share information and best practices;
  - Create opportunities for collaboration;
  - Establish a coherent approach that will guide our collective efforts and ensure we are moving together in the same direction
War-Canadian Framework and Action Plan on AMR

• The Pan-Canadian framework will be a high level policy document outlining strategic objectives, outcomes and potential action areas under each of the pillars

• The framework will serve to guide, align collective actions across sectors and is being developed on a faster track --- targeting its completion in May 2017

• Once the framework is complete, will then focus on the development of an action plan to support implementation of the Framework objectives

• The action plan will lay out details of concrete deliverables, measurable outcomes and timeframes

• On a longer track to provide the opportunity for further discussion about what everyone can contribute within their sphere of influence

• Existing good work undertaken in the agriculture and agri-food sector are of value to informing the framework and action plan, for example:
  o NFAHWC’s Report on Antimicrobial Stewardship in Food Animals in Canada
  o CVMA’s Pan-Canadian Framework for Professional Standards for Veterinarians
  o Chicken Farmers of Canada’s 5-year Strategic Plan
  o Research by Beef Cattle Research Council and other industry organizations
Pan-Canadian Framework on AMR Draft

Desired Outcomes

- Enhanced understanding of how AMR spreads in human and animal settings
- Comprehensive picture of AMR and AMU in Canada
- Effectiveness of current antimicrobial drugs of importance to humans maintained
- Health professionals and the public adopt appropriate antimicrobial use practices
- Reduced infections in health care and the community
- Better tools and approaches to detect and treat drug resistant infections in humans and animals

Potential Actions

- Support the development of a centralized, harmonized database platform to integrate human and animal health data
- Identify priority organisms that contribute to AMR in animals and humans
- Enhance human AMR/AMU data collection in community-based settings
- Strengthen the promotion of appropriate AMU in human and animal medicine
- Develop awareness, education and training to improve prescribing practices in human and veterinary settings
- Strengthen regulatory oversight and framework on veterinary medicines and medicated feeds
- Increase awareness and understanding of AMR, and the role that infection prevention and control play in limiting the spread of infectious agents
- Improve management practices to reduce the need for antimicrobials
- Increase awareness and understanding of the importance of biosecurity measures to limit the spread of infectious agents and the need for antimicrobial use
- Support the development of rapid diagnostics that guide the choice of treatment and therapeutic use
- Support clinical trials for drugs that are already on the market, and/or don’t have other support
- Explore alternative and adjuvants to antibiotics as a made in Canada approach that addresses both veterinary and human medicine
Governance Structure for Pan-Canadian Framework

- AMR is a complex issue involving multiple players and actors across sectors.
- An F/P/T dedicated AMR Governance Structure is bringing together human health, animal health, and agriculture to develop the framework and action plan.
- The structure provides a systematic, coordinated approach in working together and moving in the same direction to mitigate risks of AMR.
F/P/T Governance Model on AMR
F/P/T AMR Task Groups

- Task groups established for each component of the framework

- Task Groups are composed of subject matter experts from industry, academia, and non-governmental organizations from both human and animal health sectors, and were nominated by F/P/T governments
  - Food producer organizations are represented on each of the groups

- Task Group members act as AMR champions in reaching across to colleagues to engage them in the work of their group

- Task Groups will be responsible for:
  - Identifying existing best practices, expertise, tools, resources, while also identifying gaps and opportunities
  - Providing the F/P/T AMR Steering Committee with advice and recommendations for health care (hospital and community settings) and animal health in the veterinary and on-farm/agri-food settings
Opportunities to engage on the Pan-Canadian Framework

• To function effectively, membership of Task Groups is limited
  o Task Group members will act as AMR champions in reaching across to colleagues to engage them in the work of their group
    ▪ For example, the Stewardship Task Group reached out to the NFAHWC to present its *Antimicrobial Stewardship in Food Animals in Canada* Report
    ▪ The Research and Innovation Task Group connected with various livestock stakeholders (beef, pork, chicken, dairy etc) and reviewed research documents to inform their work

• Conducted an online survey, and are undertaking consultative interviews with human and animal health stakeholders to seek information on framework components
  o The General Manager of the Cattlemen’s Association and the Co-Chair of the NFAHWC was a participant to these engagement initiatives

• In addition to this NFAHWC Meeting, the Public Health Agency of Canada senior officials engage stakeholders at key events:
  o Canadian Meat Council Meeting (September 2016)
  o Canadian Veterinary Medical Association Council Meeting (November 2016)
  o Multi-sectoral Antimicrobial Stewardship Expert Forum (November 2016) (hosted by CIHR)
  o Alberta One Health Antimicrobial Workshop (November 2016)
Things for NFAHWC to Consider

• From your perspective what are the key points for inclusion in the framework and action plan?

• What could you contribute as actionable deliverables under each of the framework components for the action plan?

• What actions are the Council expect to see as outcomes of the Pan-Canadian framework and action plan?

• How can the Council support work on AMR within their own sector for sustainable results when the framework and action plan are completed?

• How can the Council interface with the other sectors on the framework and action plan for sustainable results?
Role of Key Federal Departments Engaged in Pan-Canadian Framework on AMR

**Health Portfolio**

- **Public Health Agency of Canada** is providing national leadership and works with partners on the public health aspects of antimicrobial resistance, e.g. surveillance, laboratory analysis, infectious disease outbreaks, awareness and public health guidance development.

- **Health Canada** regulates the approval of antimicrobial drugs for humans and animals, and sets policies and standards related to the safety and nutrition of the food supply.

- **Canadian Institutes of Health Research** supports antimicrobial research and collaborates internationally on AMR research projects.

- **Canadian Food Inspection Agency** enforces regulatory requirements for the health and safety of animals and the food supply, and the development of national biosecurity standards.

**Agriculture and Agri-Food**

- Agriculture and Agri-Food Canada supports the development and adoption of industry-led assurance systems, and monitors trade and market access activities.