

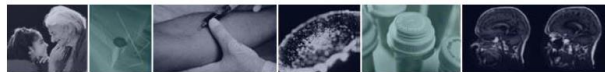
# Canadian Academy of Health Sciences Forum September 14<sup>th</sup> 2017

Strategies to control the antibiotic  
resistance *tsunami*: Is Canada doing  
its part?



Canadian Academy of Health Sciences  
Académie canadienne des sciences de la santé

*Evidence for a healthier Canada  
Des données probantes pour un Canada en meilleure santé*



## EVENT PROGRAM



Forum & Annual General Meeting

## SILVER SPONSORS



The National Farmed Animal Health and Welfare Council (NFAHW Council) was first envisioned in the [National Farmed Animal Health and Welfare Strategy](#) which was completed in 2009 by a working group comprised of federal and provincial government and industry representatives with an interest in animal agriculture in Canada. The NFAHW Council was formed as an advisory council by the Federal-Provincial-Territorial Regulatory Assistant Deputy Ministers of Agriculture Committee (FPT Reg ADMs) but reports to all stakeholders. The NFAHW Council is funded jointly by those federal and provincial government agencies/departments and industry organizations which have committed to the NFAHW Council. <http://www.ahwcouncil.ca/>



Canadian Academy of Health Sciences  
Académie canadienne des sciences de la santé

- One of three national academies that comprise the Council of Canadian Academies
- Fellows, drawn from all disciplines across Canada's universities, healthcare and research institutes, evaluate Canada's most complex health challenges and recommend strategic, actionable solutions.
- Provides independent, objective, evidence-based analyses of health challenges that inform both public and private sectors in decision-making about policy, practice and investment.

Thursday, September 14, 2017  
08:00-17:00 MAJOR FORUM PROGRAM

**STRATEGIES TO CONTROL THE ANTIMICROBIAL RESISTANCE *TSUNAMI*: IS CANADA DOING ITS PART?**

Objectives

- To improve understanding of the landscape and current science of antimicrobial resistance
- To explore global and national frameworks within a “One Health” concept
- To debate Canada’s contributions to addressing the antimicrobial resistance crisis within the proposed pan-Canadian framework
- To develop the foundation for a CAHS major assessment in responding to antimicrobial resistance

## Strategies to control the antibiotic resistance *tsunami*: Is Canada doing its part?

- The World Health Organization Global Action Plan
- The pan-Canadian Framework on AMR
- Is a One Health strategy on AMR the best approach?
- What is happening in AMR surveillance in Canada?
- Do we have effective stewardship in the human and veterinary sectors?
- Are we developing innovative solutions to AMR?
- Towards an Academy assessment: discussion

## CAHS feeds into public policy through “Assessments”

- Development of an independent “Major Assessment” in response to federal departments or agencies
- A Major Assessment question to CCA has been developed by PHAC: “What is the socio-economic impact of AMR in the human health sector?”
- The Forum suggested this should be: “What is the current impact of AMR in Canada, and what should Canada do to create solutions, at home and as a global leader?”

Ad Hoc Committee for Antimicrobial Stewardship  
in Canadian Agriculture and Veterinary Medicine:  
What is it?

## Building the Antimicrobial Stewardship Leadership Plan for Animal Health in Canada

*Report on the agriculture and veterinary  
medicine leadership workshop on  
antimicrobial use and resistance in  
Ottawa (Oct 3-4, 2017)*

Building the Antimicrobial  
Stewardship Leadership Plan for  
Animal Health in Canada:  
*Animal AMS Canada*

A proposal to NFAHWC

Workshop on Building the  
Antimicrobial Stewardship Leadership  
Plan for Animal Health in Canada

- **Purpose:** Discussion of “Building the Antimicrobial Stewardship Leadership Plan for Animal Health in Canada”
- **Hosted by:** The Ad Hoc Committee, with support by PHAC: Ottawa, Oct 3-4, 2017
- **Organized by:** John Prescott, Jean Szkotnicki (Ad Hoc Committee); Lindsay Noad, Lee Gomes (PHAC)
- **Facilitated by:** Simon Otto, University of Alberta

## Building the Antimicrobial Stewardship Leadership Plan for Animal Health

- **21 participants** from the animal health/veterinary/agriculture sectors (federal and provincial governments, veterinary medicine, agriculture and feed industries)
  - Dr. Siddika Mithani (President, PHAC) opening remarks and attended the meeting closure on Oct 4
  - Ms. Carolina Giliberti (CFIA Executive Vice President) opening remarks on Oct 4
  - Both emphasized their support for collaboration in building leadership and good communications for animal antimicrobial stewardship

| Group   | Representative  | Group   | Representative   |
|---|---|---|--|
| Academia  | J McClure<br>University of PEI  | Canadian Food Inspection Agency                   | Aline Dimitri<br>Canadian Food Inspection Agency   |
| Ad Hoc Stewardship Committee                                | John Prescott<br>University of Guelph                                       | Canadian Veterinary Medical Association           | Jost am Rhyn, Shane Renwick<br>Canadian Veterinary Medical Association   |
| Agriculture and Agri-Food Canada                            | Donald Boucher<br>François Bédard<br>Agriculture and Agri-Food Canada       | Council of Chief Veterinary Officers              | Keith Lehman<br>Alberta Agriculture & Forestry<br>Hélène Trépanier<br>Ministère de l'Agriculture, des Pêcheries et de l'Alimentation |
| AMR Framework - Research and Innovation Task Group co-chair | Cheryl Waldner<br>University of Saskatchewan                                | National Farmed Animal Health and Welfare Council | Rob McNabb<br>Canadian Cattlemen's Association   |
| AMR Framework - Surveillance Task Group co-chair            | Maureen Anderson<br>Ontario Ministry of Agriculture, Food and Rural Affairs | Public Health Agency of Canada                    | Lindsay Noad, Lee Gomes<br>Public Health Agency of Canada;<br>CIPARS, Rebecca Irwin  |
| AMR Framework IPC Task Group co-chair & Facilitator         | Simon Otto<br>University of Alberta<br>(Iyla So: U of AB - rapporteur)      | Veterinary Drugs Directorate                      | Manisha Mehrotra<br>Health Canada  |
| Animal Nutrition Association of Canada                      | My-Lien Bosch<br>Animal Nutrition Association of Canada                     | Canadian Integrated Program for AMR Surveillance  | Rebecca Irwin<br>PHAC  |
| Canadian Animal Health Institute                            | Jean Szkotnicki<br>Colleen McElwain<br>Canadian Animal Health Institute     |   |  |
| Canadian Council of Veterinary Registrars                   | Darrell Dalton<br>Alberta Veterinary Medical Association                    |   |  |



## Building the Antimicrobial Stewardship Leadership Plan for Animal Health: Strategic outcomes

1. Form a pan-Canadian Animal AMS Leadership Group, *Animal AMS Canada*, to coordinate and manage animal AMS in Canada
2. Develop the animal health Pan-Canadian AMR Action Plan in coordination with the FPT AMR Steering Committee and PHAC
3. Coordinate and communicate on-going national animal stewardship activities
4. Identify priorities and carry out projects to meet needs of antimicrobial stewardship in animal health in Canada



## Building the Antimicrobial Stewardship Leadership Plan for Animal Health: Next steps

- Develop a proposal to the NFAHWC to endorse this collective leadership group – *Animal AMS Canada*– as a project of the NFAHWC
- Once endorsed, Animal AMS Canada to begin work to secure initial funding and identify priorities, projects and activities
- CAHI, CVMA and ANAC to provide in-kind support around the initial implementation of *Animal AMS Canada*. Time limited proposal, 3-5 years

## Animal AMS Canada Leadership Group

- **FUNCTIONS/OPERATIONS:**
- Develop funding requests to support core priority activities and projects for a 3-5-year time horizon
  - Core funding for a dedicated secretariat staff
  - Project funding for identified areas of work
- Working under the auspices of NFAHWC, the group will have the autonomy to:
  - Attract and administer its own funds
  - Develop its own priorities, in consultation with its stakeholders
  - Develop and administer its own projects

## Animal AMS Canada Leadership Group: Affiliations

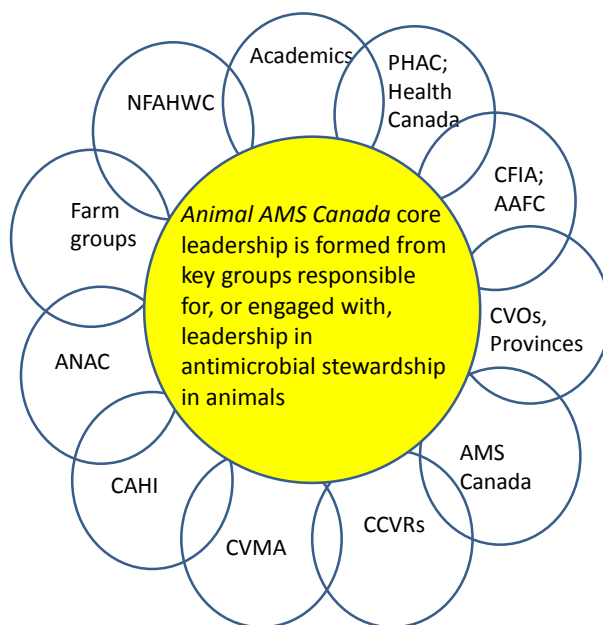
- Reports directly to the NFAHWC ± receives some Secretariat support from the Council
  - The group has autonomy but utilizes the guidance, experience, advice, connections and operating efficiencies of the existing Council
- Communication and working relationship with the FPT AMR Steering Committee and the supporting PHAC AMR Steering Committee Secretariat
- Communication relationship with AMS Canada (human medicine stewardship group) to encourage effective stewardship from a One Health perspective, and share ideas
- Reports indirectly to the FPT Agriculture Regulatory ADMs Committee through NFAHWC: Relationship with the FPT Agriculture Policy ADMs Committee? Necessary but uncertain at this time: to be determined

## Membership – Animal AMS Canada Leadership Group

- Structure divided into:
  - Core Executive Committee
    - Responsible for all operations of Animal AMS Canada Leadership Group
  - Broader stakeholder group
    - Provides strategic direction for the Core Executive Committee

## Membership – Animal AMS Canada Leadership Group

- **CORE COMMITTEE:** 13-14 members
- Representation from all organizations included in October Ottawa Workshop
  - Federal Government: PHAC, CFIA, AAFC, CIPARS, Health Canada VDD(?)
  - Provincial/Territorial Governments: CVOs, Hélène Trépanier (MAPAQ), Maureen Anderson (OMAFRA)
  - Veterinary: CVMA, CCVRs
  - Industry: targeted industry delegation from NFAHWC; ANAC; CAHI
  - Academia: Cheryl Waldner, Simon Otto, Scott Weese (Interim Co-Chair)
  - AMS Canada: Andrew Morris/David Patrick(?)



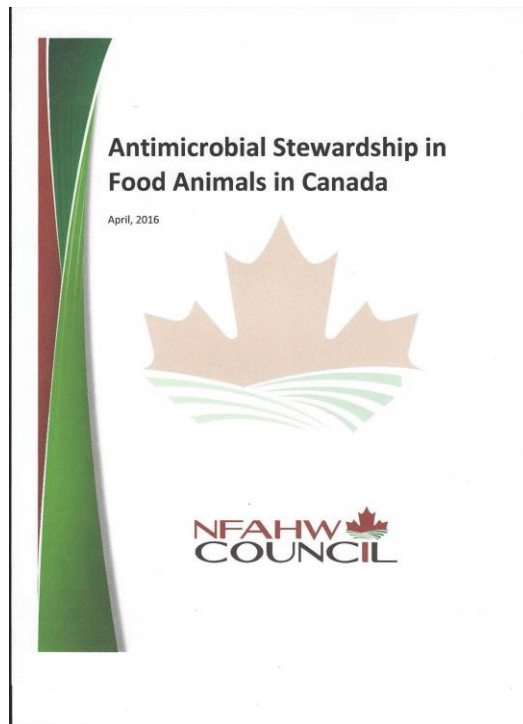
## Membership – Animal AMS Canada Leadership Group BROADER STAKEHOLDER COMMITTEE

**Organizations:** (TBD) 40-60 members, names suggested, others TBD

- All organizations/members of the Core Committee
- All animal industry-commodity groups (including food animals, companion animals, aquaculture and apiculture)
- Veterinary Schools
- National Association of Pharmacy Regulatory Authorities (NAPRA)
- Duane Landals, Senior Advisor, ABVMA
- National Farmed Animal Care Council
- Processors and/or Retail groups? Canadian Centre for Food Integrity?
- Other Academia: Marie Archambault, Université de Montréal; ag economist, others TBD.
- Council of Canadian Chief Medical Officers of Health(?), Other(?)

## Medium-term, CORE, activities

1. Develop the Animal Pan-Canadian AMR Action Plan in coordination with the FPT AMR Steering Committee and PHAC, broader stakeholder committee
2. Coordinating and communicating on-going national animal stewardship activities. This includes connecting communications activities (e.g., media campaign)
3. Linking veterinary e-prescriptions to AMU and disease surveillance
  - a) Linked with animal disease surveillance
  - b) Incentive to veterinarians for reporting;
  - c) Voluntary vs. mandatory reporting



**Recommendation 3.** *The NFAHW Council recommends that within the context of a pan-Canadian strategy for AMR that it assume a national leadership role to bring stakeholders together to coordinate:*

- *their respective leadership roles;*
- *communication and education activities; and*
- *the development of an effective partnership with those involved in human initiatives on antimicrobial resistance.*

## Does the NFAHWC accept Animal AMS Canada as a project of the Council?

### Short-term immediate activities

1. Coordinating communications activities
  - a) For pending regulatory and policy changes
    - i. Health Canada VDD is already implementing a landing page for its website that will provide its information and link to other communications/info regarding the regulatory and policy changes
  - b) WHO Antibiotic Awareness Week – Nov 13-19, 2017
    - i. Connect animal and human health messages; use joint messaging
    - ii. Web portal to link these materials (human and animal)
    - iii. Lindsay Noad to connect with Jean Szkotnicki about the PHAC contact for this

## Short-term immediate activities

2. RFP to develop a pilot electronic veterinary prescription tool for in-feed antimicrobials with consideration of the governance needed to ensure data confidentiality and ownership
3. Education materials for vets on how to write feed prescriptions (e.g., YouTube video)
  - a) Proposal to CCVR – Darrell Dalton to coordinate

## Medium- to long-term activities

4. Defining responsibility and opportunity for AMR surveillance for animal pathogens versus human foodborne pathogen
5. Economic analysis of the impact of AMR on animal health/agriculture
  - a) Find out what is already being done
  - b) Define the question(s) to be asked
  - c) Identify the availability of data/feasibility of the economic assessment
6. Engage with the pharmacy profession