

Setting the Path Forward: Leadership Action for the Pan-Canadian Action Plan (PCAP) for AMR in Animal Health

AMR Strategic Planning Workshop Report Summary

On November 22, 2023, Animal Health Canada hosted an inaugural and highly successful AMR hybrid strategy session. This 2-part event brought together a diverse group of 80+ stakeholder organizations to discuss the essential structures and mechanisms needed to foster leadership, collaboration, and coordination for the successful implementation of the Pan-Canadian Action Plan (PCAP) for AMR from an animal health perspective. An in-person hybrid workshop kicked off dynamic discussions, collaborative problem-solving, and a shared commitment to fostering responsible antimicrobial use. This was followed by a stakeholder survey to clarify objectives with 70 participants representing 40+ organizations representing various sectors responding. A broad audience of respondents, including producers and veterinarians, policymakers and researchers, participated in providing feedback. The diverse perspectives contributed to a comprehensive discussion on the challenges and opportunities in addressing AMR.

These strategic activities are included in the Animal Health Canada (AHC) project “Supporting Animal Health AMR Governance and the Implementation of the PCAP for AMR in Animal Health”. Funding for this project was provided by Agriculture and Agri-Food Canada (AAFC).

The goals of the strategic sessions were to:

1. Initiate a ‘network of networks’ bringing together partners to provide collaborative guidance on a cohesive, functional, and responsive farmed animal health and welfare system in Canada to coordinate the PCAP for AMR implementation for animal health.
2. Develop a leadership structure for farmed animal health sectors within the One Health context in response to the actions and goals outlined in the PCAP for AMR.
3. To collaborate with industry and government stakeholders within animal health to build a 5-year forward plan to support PCAP for AMR implementation.



Hybrid Strategic Workshop held November 22, 2023:

The workshop started with welcome remarks and an overview presentation of the PCAP Framework, pillars, and priority actions by Dr. Mary-Jane Ireland, CFIA, Ms. Lisa Fougere, Director, Policy and Engagement, AMR Task Force – Public Health Agency of Canada, and Ms. Dhurata Ikonomi, Executive Director, AMR Task Force - Public Health Agency of Canada. This was followed by a presentation sharing the progress and collaborative relationships of AMRNet and AMRNetVet by Laura

Mataseje, Acting Chief, Antimicrobial Resistance and Nosocomial Infections (ARNI), Public Health Agency of Canada. A Q&A followed each presentation.

These presentations set the stage for two breakout sessions with both in-person and online representatives. The day closed with a live broadcast of the Canadian Integrated Program for Antimicrobial Resistance Surveillance (CIPARS) Annual Stakeholder Meeting -2022 Integrated Findings Presentation.

- [See Appendix A for the agenda.](#)

Breakout Session #1 – Develop an AMU/AMR – PCAP Implementation Leadership Structure

Four in-person and three virtual workshop groups engaged in dynamic and collaborative discussions to design the mandate, governance, membership, and activity plan for a new AMU/AMR Leadership Team to lead the implementation of the PCAP's priority actions for AMR in animal health. Reporting and notes from each group shared unanimous priorities:

- Representation of leadership to create and strengthen a 'network of networks', bridging stakeholders, policymakers, researchers, and government representatives.
- Importance of oversight, guidance, leadership, and broad representation yet maintaining operational ability.
- Ability to identify gaps, set priorities, and gather and disseminate information to stakeholders.
- Synergize efforts and avoid duplication or redundancies.
- Vision to reduce AMU, educate for responsible AMU, sustainable access to antimicrobials, and

alternate therapies to antimicrobials tailored to animal health.

- Acknowledging sector differences and tailoring in response regarding all priority actions.
- Focus on animal health with an interconnection with One Health partners.
- Avoid silos across One Health.

Breakout Session #2 – Build a 5-year forward plan to support PCAP for AMR implementation in animal health.

The vision—what will AMR look like in five years for animal health with respect to these key elements?

Purpose:

- Improving animal health and welfare with responsible and appropriate use of antimicrobials.
- Priority to support development and expansion of data collection, analysis, and storage across ALL sectors.
- Sustainability of and access to antimicrobials and alternate therapies.
- The unanimous opinion is that AMU/AMR differs in each sector, requiring a sector-specific approach to identifying gaps, tools, data availability, surveillance options, and available funding.
- Development of centralized data, uniform language, and AMU/AMR program sharing across sectors.
- Lack of secure, long-term funding hinders the continuance of this initiative.

Specific activities:

- Bridging animal health with other elements of One Health.
- Research into social, behavioral and implementation science, including

structural and population-level interventions to better understand and influence the behaviours of prescribers, producers, patients, and the public.

- Education to regulators, prescribers, producers, and diagnostics re: AMU.
- Environmental scan of AMU/AMR in animal health, gap analysis, successes to date, what is being done now, what is planned, what is needed – per sector.
- Investment in funding needed to be secured for the duration of the plan and future initiatives. There have been too many starts and stops due to a lack of sustainable funding.

Feedback pathway:

- AMU and AMR data come from each sector, sharing programs, successes, and future initiatives.
- Sharing within networks, reporting back to the leadership team, development of a feedback pathway to strengthen all sectors – open silos, prevent duplication.

Despite high collaboration and information sharing, a clear direction has not yet been identified for the next step. Therefore, a Stakeholder Survey is planned to gain clarity in the development of the Canadian AMU/AMR Leadership Team and its mandate. The survey results will help in creating an implementation plan to move the PCAP for AMR in Animal Health forward.

Step 2 AMR Strategic Planning: *Vision for the Future – AMR Stakeholder Survey*

This next step in the strategic activities, *Vision for the Future – AMR Stakeholder*

Survey, was distributed to all AHC stakeholders in late December and was open for consultation until January 29th, 2024. Seventy-five submissions were received, leading our total engagement for these AMR strategic activities to involve 80+ animal health stakeholder organizations.

Specific direction was requested for identifying the AMU/AMR leadership team, a specific mandate for this leadership team, membership identified, and a vision for AMR in animal health. During the strategic workshop, discussions about the role of Animal Health Canada (AHC) were raised, leading to a question in the survey about the specific role of AHC in implementing the PCAP for AMR in animal health.

Goal #1 – Create a ‘Network of Networks’:

A total of 80+ organizations participated in AMU/AMR strategic activities.

AMU/AMR Stakeholder Survey Results:

- [See Appendix B AMU/AMR Strategic Survey Results](#)

Mandate of the AMU/AMR Leadership Team:

- To strategically align and synergize ongoing efforts in the fight against antimicrobial resistance (AMR), at a national level. **42%**
- To lead the implementation of PCAP pillars and actions by providing a coordinated and guided approach. **30%**
- To align the Canadian context with the global fight against antimicrobial resistance (AMR), focusing on a One Health approach while recognizing the interconnected nature of human,

animal, and environmental health.
28%

- **Many respondents commented (20) referencing more than one point as a priority.**

Goal #2 - New Leadership Mandate:

To provide strategic guidance in the agri-food and animal health sectors by leading and coordinating activities in relation to responsible antimicrobial use (AMU) and minimizing antimicrobial resistance (AMR) challenges for sustainable animal health and welfare in the Canadian context. This group is dedicated to effective, transparent, and ongoing communication with stakeholders and will engage in initiatives to raise awareness about its activities. Through collaboration with stakeholders this team will actively engage in the evolving landscape of AMR in its global interconnection with animal, human, and environmental health.

Leadership Team:

- **88%** of respondents select the AHC AMU/AMR Coordinating Committee as the new AMU/AMR Leadership Team.
- Team membership currently is diverse, with experienced and influential representation of the Canadian livestock and poultry stakeholders, veterinary, FPT, and human/environmental coordination.
- The membership review will consider adding academia, indigenous, aquaculture, the Canadian Council of Veterinary Registrars (CCVR), and registered veterinary technicians, as well as

ensuring national representation across all provinces.

- [See Appendix C AMU/AMR Leadership Team Roster](#)

The terms of Reference for the new Canadian AMU/AMR Leadership Team (Animal Health and Agri-Food) are in development.

- [See Appendix D AMU/AMR Leadership Team Terms of Reference](#)

Vision of AMR in Animal Health:

- In pursuit of a future free from the threat of Antimicrobial Resistance (AMR), in partnership with our stakeholders, our vision is a collaborative, measurable, and accountable approach to completing, executing, and monitoring the Pan-Canadian Action Plan (PCAP) for AMR. **31% (many concerns raised regarding the use of “free.”)**
- Envisioning a future where Antimicrobial Resistance (AMR) in Animal Health is on a downward trajectory, our vision centers on the triple focus of reducing overall Antimicrobial Usage (AMU), emphasizing responsible practices, and ensuring appropriate antimicrobial use when necessary. **32%**
- Our pursuit of a future with diminished Antimicrobial Resistance (AMR) in Animal Health revolves around the dual principles of reduced AMU and responsible antimicrobial use. Striking a balance between necessity and restraint, promoting the right practices at the right time. Acknowledging sector-specific nuances, we prioritize education and knowledge dissemination, recognizing the

limitations and realities on the ground. **44%**

- **Many respondents commented (20) referencing more than one point as a priority.**
- Feedback will be implemented through the development of the Implementation Work Plan.

AMU/AMR Leadership Team, focusing on communication and leadership capacity to bring stakeholders together (rather than decision-makers) and drive measurable progress. The respondents did not share any other suggestions.

Role of Animal Health Canada:

- Of the 75 respondents, 88% identified Animal Health Canada as the primary secretariat for the new

- Recommended consideration of AMU/AMR as a new AHC division contingent on new and stable funding resources.

Next Steps:

- Launch meeting of the new Canadian AMU/AMR Leadership Team – March 5, 2024 (Zoom)
- Finalize Leadership Team membership and terms of reference - March 21, 2024 (Zoom)
- Develop the PCAP for AMR in Animal Health Implementation Work Plan to move forward with implementing PCAP for AMR in animal health priority actions – in progress.
- NEW – in progress - The "**Canadian Animal Health 2024 Report on Antimicrobial Use and Resistance (AMU/AMR): An Environmental Scan**" will be a comprehensive assessment aimed at updating the industry's understanding of current issues related to antimicrobial use and resistance (AMU/AMR) in Canadian animal health. This report serves as a response to the release of the Pan-Canadian Action Plan for Antimicrobial Resistance (AMR), addressing regulatory hurdles and identifying any existing gaps in relation to animal health and welfare.
 - Key elements covered in the report include:
 - Updating the industry's understanding of current AMU/AMR situation, including trends, policies, challenges, and emerging threats.
 - Assessing regulatory hurdles and policy frameworks impacting AMU/AMR practices and interventions within the Canadian animal health sector.
 - Identifying gaps in research and innovation for alternatives to antimicrobials, as outlined in the Pan-Canadian Action Plan for AMR.
 - Mapping the network of industry and government-based research entities focused on AMU/AMR and assessing the financial commitments to these initiatives.
 - Analyzing the distribution of funds across specific AMU/AMR research categories and assessing the contributions from both government and industry sources.
 - Identifying barriers to access, security, stable availability, pharmaceutical company participation, and regulatory/policy roadblocks hindering progress in AMU/AMR research and innovation.

- Developing processes for adopting innovative approaches, such as genomics and gut modifiers, into mainstream practices to address AMU/AMR challenges effectively.
- Where available, existing reports and papers will be incorporated into the assessment. This report aims to provide stakeholders with valuable insights into the current status of AMU/AMR in Canadian animal health, facilitating informed decision-making, work planning, and collaborative efforts to address antimicrobial resistance to support animal health, animal welfare and food safety.
- Hiring of consultant in progress
- Timeline – start by June 30th, 2024 – completion Winter 2024.
- Identify funding resources to enable the continued progress of the PCAP implementation. In progress

These strategic activities are included in the Animal Health Canada (AHC) project “Supporting Animal Health AMR Governance and the Implementation of the PCAP for AMR in Animal Health”. Funding for this project was provided by Agriculture and Agri-Food Canada (AAFC).

For more information, contact Animal Health Canada at info@animalhealthcanada.ca

Setting the Path Forward:

Leadership Action for the Pan-Canadian Action Plan (PCAP) for AMR in Animal Health

AMR Strategic Planning Workshop for Animal Health

November 22, 2023, 8:00 am – 4:00 pm EST

Hilton Garden Inn Ottawa Airport, 2400 Alert Rd, Ottawa, Ontario - Zoom Virtual Option

Agenda

Time (EST)	Item
7:30 AM	Registration and Continental breakfast
8:30 AM	<p>Welcome and Introductions, Land Acknowledgement Shannon Thompson, Animal Health Canada Colleen McElwain, Animal Health Canada Reminder: LIVE BROADCAST - The Canadian Integrated Program for Antimicrobial Resistance Surveillance (CIPARS) Annual Stakeholder Meeting - 2022 Integrated Findings Presentation (2:00 – 4:00 pm)</p>
8:50 AM	<p>Overview of PCAP Framework, pillars, and priority actions Mary-Jane Ireland, Canadian Food Inspection Agency Lisa Fougere, Director, Policy and Engagement, AMR Task Force – Public Health Agency of Canada Dhurata Ikonomi, Executive Director, AMR Task Force - Public Health Agency of Canada Q & A</p>
9:30 AM	<p>AMRNet – AMRNetVet – sharing updates, collaborative successes Laura Mataseje, Acting Chief, Antimicrobial Resistance and Nosocomial Infections (ARNI), Public Health Agency of Canada Q & A</p>
10:10 AM	Break
10:25 AM	<p>Breakout session #1 - Develop Leadership Structure Objective #1: Develop a leadership structure for farmed animal health sectors within the One Health context in response to the actions and goals outlined in the PCAP.</p>
11:10 AM	Reporting from Breakout session #1 Open floor discussion, Q & A
11:45 AM	Lunch/Networking
12:30 PM	<p>Breakout session #2: Identify a 5-year plan for PCAP AMR in Animal Health Objective #2: To collaborate with industry and government stakeholders within animal health to build a 5-year forward plan to support PCAP implementation.</p>
1:15 PM	Reporting from Breakout session #2 Open floor discussion, Q & A
1:40 PM	Next steps and Closing remarks
1:50 PM	Break
2:00 to 4:00 PM	<p>LIVE BROADCAST - The Canadian Integrated Program for Antimicrobial Resistance Surveillance (CIPARS) Annual Stakeholder Meeting - 2022 Integrated Findings Presentation <i>The Canadian Integrated Program for Antimicrobial Resistance Surveillance (CIPARS) collects, analyses, and communicates trends in antimicrobial use (AMU) and antimicrobial resistance (AMR) for foodborne bacteria from humans, animals, and retail meat across Canada.</i> Link to our main webpage (EN): https://www.canada.ca/en/public-health/services/surveillance/canadian-integrated-program-antimicrobial-resistance-surveillance-cipars.html</p>

Step #2 AMR Strategic Planning:

Vision for the Future - Stakeholder Survey (English & French responses combined)

Q2 What is the name of your organization?

Answered: 75 Skipped: 0

RESPONSES

Public Health Agency of Canada

OMAFRA

Jhenaidah Government Veterinary College

National Cattle Feeders' Association

CAHI

Canadian Pork Council

Maple Leaf Foods

Government of Alberta

Turkey Farmers of Canada

Canadian Poultry and Egg Processors

Government of Yukon

PEI Government, Department of Agriculture

Canadian Wildlife Health Cooperative | Réseau Canadien pour la Santé de la Faune

McGill

Moggy Livestock Research & Extension

Pakistan Agricultural Research Council

Canadian Pork Council

Government of Newfoundland and Labrador

Serecon

Canadian Hatching Egg Producers

3AMZ

Government of Saskatchewan

Government of Alberta - Agriculture and Irrigation

Health Canada, Veterinary Drugs Directorate

International Development Research Centre

BIAH-CA

Global Strategy Lab

Federal Ministry of Agriculture and Food Security

Alberta Pork

Calgary Wildlife

Animal Health Division - Dept. of Fisheries, Forestry and Agrifoods

Leadership Action for the Pan-Canadian Action Plan (PCAP) for AMR in Animal Health

National Cattle Feeder's Association

Ontario Veterinary College, University of Guelph

Manitoba Agriculture

Enginess

Animal Health Canada

Alberta SPCA

Dairy Farmers of Canada

Agriculture and Agri-Food Canada

AAFC

Maple Creek Veterinary Services PC Ltd

PEI PORK PORC NB PORK Apple NB

Swine Health Ontario

EpiSAC / CWSHIN

Alberta Beekeepers Commission

Nova Scotia Dairy Vet and Dairy Producer , member of CABV

CFIA

CABV

CABV/ACVB

Animal Protection Services of Saskatchewan

Department of Agriculture, PEI

Foodborne Disease and AMR Surveillance Division, Centre for Foodborne, Environmental Zoonotic Infectious Diseases, Public Health Agency of Canada

Vancouver Island Goat Association

Canadian Food Inspection Agency

Chicken Farmers of Canada

Government of Manitoba

TELUS Agriculture

PIC Canada Ltd.

Rideau St. Lawrence Veterinary Services

Prairie Diagnostic Services Inc.

University of Calgary

Centre for Coastal Health

Alberta Society for the Prevention of Cruelty to Animals

Trouw Nutrition Canada

University of Calgary Faculty of Veterinary Medicine

CFIA

MAPAQ

Éleveurs de poulettes du Canada

Délimax Veaux Lourds

Cepoq

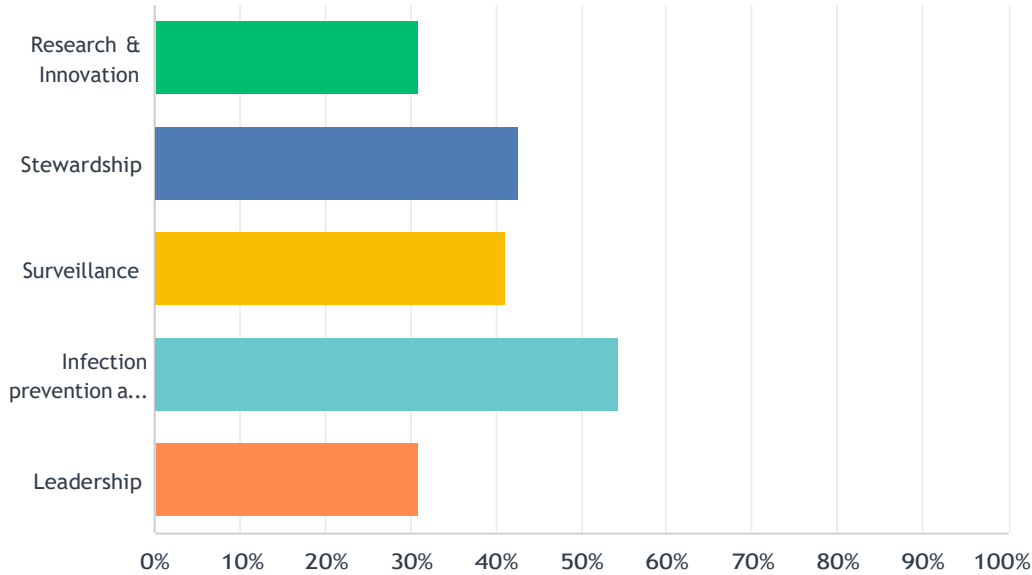
Association des médecins vétérinaires praticiens du Québec

Clinique vétérinaire St-Louis Embryobec inc.

Fabina

Q4 Identify your organization's priority or strongest initiatives regarding the PCAP pillars (select top 2).

Answered: 75 Skipped: 0



ANSWER CHOICES	RESPONSES
Research & Innovation	30.88% 21
Stewardship	42.65% 29
Surveillance	41.18% 28
Infection prevention and control	54.41% 37
Leadership	30.88% 21
Total Respondents: 75	

#	OPTION TO COMMENT/PROVIDE FREE TEXT HERE	DATE
1	Education and support of producers and veterinarians in terms of infection prevention and control (aka biosecurity) is a long-standing priority at OMAFRA and is a large component of our extension work. AMR, AMS and exploration / development of non-antimicrobial alternatives to support livestock production have also been (and continue to be) priorities in research funding programs supported by OMAFRA (e.g. Growing Forward, Growing Forward 2, CAP, SCAP, OMAFRA-UofGuelph Alliance, New Directions etc.)	1/11/2024 9:04 AM
2	Infection prevention and control and leadership on stewardship through on-farm programs and industry wide strategy initiatives.	1/9/2024 1:27 PM
3	We believe that all 5 Pillars are very important for this committee and had a hard time just choosing two. But Stewardship would be our top #1 priority, with all others falling closely behind as #2 priorities.	1/9/2024 12:37 PM
4	They are all critical and the two I selected need surveillance to evaluate progress. I am probably most concerned about good AMU stewardship to protect AMs for future use, but while	1/9/2024 11:35 AM

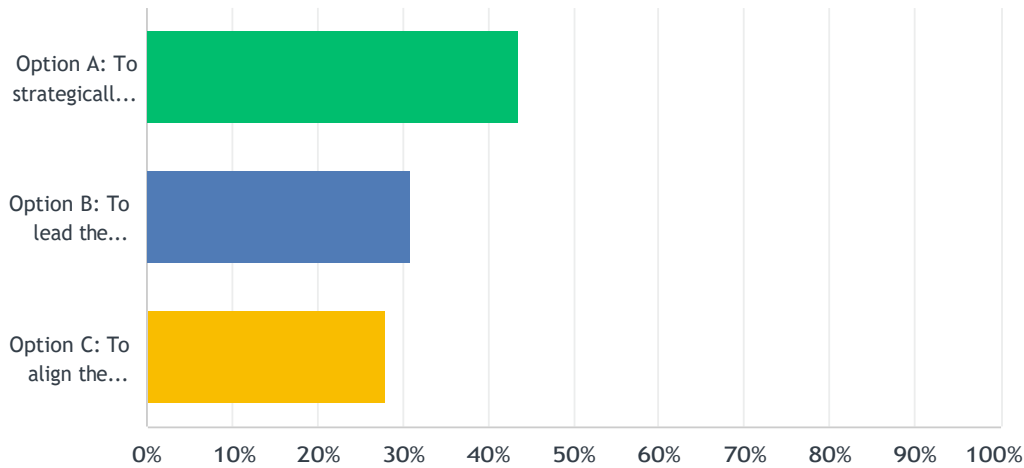
Leadership Action for the Pan-Canadian Action Plan (PCAP) for AMR in Animal Health

also protecting animal health and welfare and providing effective disease control. That is the basis for my choice.

5	Adopt a less anthropocentric and more sensible perspective on the "protean(?)" life/lives of human(s) and non-human(s) including consideration of environmental factors since 'there is no other habitable planet B' between the Earth and its moon.	1/8/2024 12:12 PM
6	The strong leadership to implement the changes in stewardship needed, is of utmost importance.	1/8/2024 11:34 AM
7	The CPC has a 5 pillar AMR Strategic Plan of which all of these are present and focused up. However, there is one that we are working on that is not present. Perhaps it falls under "Leadership". This is the "Access to Veterinary Products" pillar. Canada is losing veterinary drugs and vaccines and this needs to be addressed/mitigated if we are going to be successful with Stewardship and Infection Prevention Control.	1/8/2024 10:09 AM
8	Significant investment in industry biosecurity over several years and more recent investment in livestock diagnostics to aid in diagnosis of bacterial diseases and antimicrobial sensitivity, enabling additional surveillance in AMR.	1/5/2024 8:57 AM
9	Special emphasis on food animal and public health.	1/4/2024 1:33 PM
10	NCFA/ACFA support the Canadian Feedlot AMU/AMR Surveillance Program which we built with CIPARS and others in the industry. We also support antimicrobial stewardship initiatives which are tied with infection prevention and control. We also support research & innovation into nonantimicrobial alternatives for disease prevention, treatment and control. We are leaders in these areas for the Canadian feedlot industry.	1/4/2024 1:32 PM
11	N/A	1/4/2024 1:09 PM
12	AAFC's largest contribution in the AMR space are on the R&I front because of it's mandate and core functions. The primary objective to make meaningful advancements in addressing the AMR challenges is to improve overall stewardship of antimicrobials. Surveillance, IPC and effective leadership/coordination are necessary.	1/3/2024 8:43 AM
13	Our organization provides support in programs and information to support a viable strong beekeeping industry and bee health. What the Commission found in 2019 when the first regulations/changes to accessing antibiotics is that no vets in Alberta had any idea in regard to bee health, bee biology etc... The Commission has offered training to vets but it is still an area that is lacking in both understanding and support. What we have done since is create a agronomic style bee health support program for beekeepers call the Alberta Tech Transfer program which provides, colony health monitoring, education and extension	12/31/2023 10:41 AM
14	Interaction with primary producers and AM users	12/30/2023 6:01 AM
15	Our mission statement is to promote goats and educate goat owners in ethical, responsible animal welfare.	12/26/2023 1:40 PM
16	Many of the activities between IPC and stewardship are interlinked, as such CFIA also plays a role in stewardship pillar as well.	12/23/2023 5:47 AM
17	The CCH has worked with the Canadian Integrated Program for Antimicrobial Resistance (CIPARS) and FoodNet Canada for over 10 years providing field samplers for sample collection.	12/22/2023 10:59 AM
18	active role in bringing innovations to market to reduce or eliminate the use of antimicrobials	12/22/2023 10:29 AM
19	Support to the livestock industries	12/22/2023 10:24 AM
20	Comme organisation nous sommes beaucoup dans la prévention car nous représentons leséleveurs qui sont à la base de la chaîne de la production des oeufs. De par notre leadership,nous encourageons nos membres en étant à l'affût des développement sectoriel pour viserl'excellence dans leur élevages que ça soit par l'utilisation de produits de prévention ou desalternatives. De plus, nous recommandons à tous les éleveurs de s'assurer de suivre lescodes de bonnes pratiques et de bien être animal en vigueur afin de s'assurer de la santéoptimale des oiseaux en élevage.	1/5/2024 12:04 PM
21	Transfert des connaissances et compétences aux éleveurs de petits ruminants et à leursintervenants.	1/3/2024 10:04 AM

Q5 Select the specific mandate for the PCAP Leadership Team.

Answered: 75 Skipped: 0



ANSWER CHOICES	RESPONSES
Option A: To strategically align and synergize ongoing efforts in the fight against antimicrobial resistance (AMR), at a national level. With a strong emphasis on One Health principles, the team will advocate for the implementation of PCAP pillars and actions, translating them into measurable outcomes and deliverables. The leadership team will identify gaps, coordinate initiatives, and make recommendations to various stakeholders, with a particular focus on avoiding duplication of effort in resource-constrained environments. This includes an advocacy role, pushing for resources and education, and influencing training and continuing education (CE) to drive the successful implementation of PCAP.	42% 32
Option B: To lead the implementation of PCAP pillars and actions by providing a coordinated and guided approach. The team will prioritize setting realistic goals, focusing on achievable milestones to demonstrate measurable successes. To avoid scope creep, the team will maintain a strong emphasis on priority setting and pick small victories to move the initiative forward. Additionally, the team will play a crucial role in identifying gaps, gathering information from stakeholders, and recommending synergies to ensure a unified and effective approach. This includes an active role in managing and mitigating Antimicrobial Use (AMU) and fostering collaboration across sectors and industry stakeholders.	30% 22
Option C: To align the Canadian context with the global fight against antimicrobial resistance (AMR), focusing on a One Health approach while recognizing the interconnected nature of human, animal, and environmental health. The team will structure its leadership approach to include global experience and expertise, ensuring a network of networks is established to address AMR comprehensively. Beyond recommendations to the AHC Board and stakeholders, the team will actively engage in translating PCAP strategies into tangible outcomes, reaching out to industry stakeholders. The leadership team will play a pivotal role in identifying and coordinating initiatives, advocating for resources, serving as a hub for information flow and education, and influencing training and CE in the wider AMR space.	28% 21
Total Respondents: 75	

#	OTHER - ANY SUGGESTIONS OR REWORDING RECOMMENDATIONS ARE WELCOME.	DATE
1	These are all quite similar. Emphasis needs to be on the work being done in Canada, the "global alignment" is secondary. Emphasis on advocacy for resources (which is still a huge gap) and communication between stakeholders, and out to the public (transparency). The leadership group itself has no teeth and need to be clear that it has little functional capacity for "doing" beyond these items - their role is provide the necessary information (and help get the resources) for the players who can actually make the changes and do the work (which are mostly industry), letting them know what's already being done (to avoid duplication) and what's still missing (encourage them to help fill gaps).	1/11/2024 9:04 AM
2	Option A and B are similar but ultimately chose A. Focus on the need to take advantage of on-	1/9/2024 1:27 PM

Leadership Action for the Pan-Canadian Action Plan (PCAP) for AMR in Animal Health

going efforts and avoid duplication. Importance of measurable outcomes and progress reporting. Whatever option chosen should also consider the global perspective but without losing sight of what can and should be done in Canada.

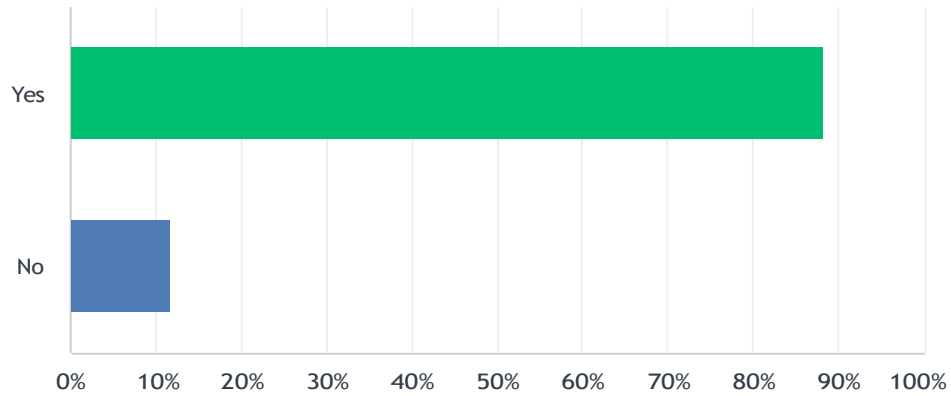
3	Option A should also include "setting realistic goals and focusing on achievable milestones to demonstrate measurable success," but at a high level.	1/9/2024 12:37 PM
4	One Health, avoiding duplication and advocacy/support are crucial. While goal setting is important it is emphasized too much in option B, I think. Also the action words in Option A are realistic and show leadership. I find option A written in simpler language and easier to understand. Options B and C have a few too many buzz words (best avoided).	1/9/2024 11:35 AM
5	A,B and C are (thankfully) not mutually exclusive sets of intentions! The reasons for administration of growth hormones and antibiotics to animals and their consequences should be monitored more scientifically (less anthropocentrically as well). To promote health and environment, it is imperative to dispell myths about the need for humans to consume animal sourced protein instead of those from plant based sources with lower carbon (methane, carbon dioxide, and other pollutants etc.) footprints.	1/8/2024 12:12 PM
6	New policy development and implementation in government and stakeholders is very difficult. However this is where change starts.	1/8/2024 11:34 AM
7	Comment: Global experience/expertise/connections are definitely assets; leadership team members should be in Canada though. Suggestion: The leadership team will play a pivotal role in identifying and coordinating initiatives, advocating for resources, serving as a hub for information flow and education *including bridging gaps between government and industry and ensuring a link with human medicine*, and influencing training and CE in the wider AMR space. (wording can be changed)	1/5/2024 10:59 PM
8	Option C seems lofty in terms of having any influence on the range of global actions being taken. I appreciate it is not saying that we need to influence those but I'd keep our focus within Canada and in alignment with PCAP, which should presumably already align with overall international direction. Option A seems limited to working with existing action but not advancing into gaps or areas of inaction.	1/5/2024 8:57 AM
9	For Option B framing as scope creep/small victories seems to reflect that the team will choose low hanging fruit projects.	1/4/2024 6:54 PM
10	Review and summarize the newest discoveries for practical implementation by front line users.	1/4/2024 1:33 PM
11	While I support Option A, I believe the team should be aware of other global initiatives in this area as we can learn what has and has not worked for others, and given the One Health approach which is global in nature, given how individuals and microbes can travel globally.	1/4/2024 1:32 PM
12	Combination of A and B: it should include the concept of providing leadership in the animal / agriculture space as a mechanism to provide strategic guidance and advocating for action	1/3/2024 8:43 AM
13	In all the mandates (a,b,c) I lack a strong focus on research. I for one do not understand how, when and where AMR become a problem in relation to AMU. One side may be the genetics of the bacteria another is the population dynamics (ecology). Just measuring amount used seem to be a faulty measurement especially in large populations such as fish farms, poultry, swine and feed lots where there may be >1000 individuals. How does #animals with therapeutic level, #animals with sub-therapeutic levels per day affect selection for AMR? Is the #sub-therapeutic-days more important than the amount of AMU? That needs to be addressed.	1/2/2024 8:27 AM
14	Honey bees are a sentinel for One Health	12/31/2023 10:41 AM
15	While I choose A, I think translating the pillars and actions into measurable outcomes and deliverables could be achieved using some of the strategies mentioned in B and C. That would be up to the leadership group to decide, but certainly they may find having a network of networks helps in achieving the mandate outlined in A, or having small, realistic goals helps achieve the A mandate. I would trust the leadership group to pull ideas from the three options, or other strategies, to work with under the umbrella of what A is saying.	12/28/2023 8:16 AM
16	Option A - please add "where appropriate" to the following "...coordinate initiatives where appropriate, and make recommendations..." as not all initiatives will be able to be coordinated by an external group. Another question - why are national and international activities separated? Could the mandate not include both? Option C: same thing about adding "where appropriate" to coordinating initiatives.	12/27/2023 12:47 PM

Leadership Action for the Pan-Canadian Action Plan (PCAP) for AMR in Animal Health

17	I like option C but there may be confusion around the term "network of networks". Typically that term is used when an IT solution is paired with a human component of network. Consider adding wording to describe the n of n, "...or an alliance of professional networks is established to address AMR..."	12/23/2023 5:47 AM
18	None of these options is exactly the right wording. Option B is closest, but suggestions are: Option A1) Change "the fight against AMR" to "...efforts to implement the PCAP". The part of #B that I don't like is the team will be setting goals and milestones. This group doesn't have decision making authority for others, so I think it needs to stick to leadership on identifying gaps and making recommendations, rather than establishing prescribed outcomes.	12/22/2023 3:19 PM
19	Option 2 makes sense in that setting quantitative long term goals is tricky, and with option 2 the long term goals can be developed and fully planned out as small goals are achieved in the short term. This with proper communication and dissemination of results makes for a strong and reputable implementation plan. Using the surveillance measures already existing is a great way to evaluate progress	12/22/2023 11:21 AM
20	To examine and research alternative management strategies to minimize the current use of antimicrobials	12/22/2023 10:24 AM
21	Selon notre organisation, l'option C semble plus globale contrairement aux options A & B qui sont plus au niveau animal. En choisissant l'option C, on assure d'avoir une vision plus en amont de toute l'industrie tout en regardant l'évolution mondiale.	1/5/2024 12:04 PM
22	faire la promotion de Une santé auprès des diverses clientèles	1/3/2024 10:04 AM

Q6 Is it an option to consider an existing AMU/AMR committee to take on the role of the PCAP Leadership Team?

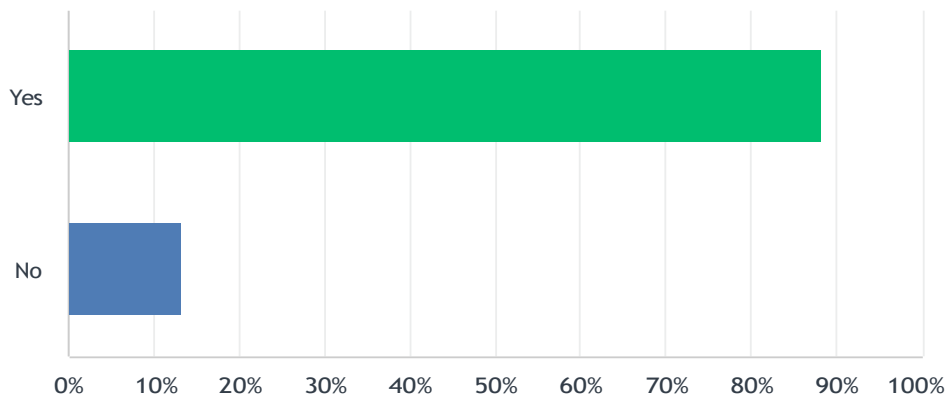
Answered: 75 Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	88.24%	66
No	11.76%	9
Total Respondents: 75		

Q7 The existing Animal Health Canada AMU/AMR Coordination Committee includes representation from the Public Health Agency (AMR Task Force), Canadian Food Inspection Agency, Agriculture & Agri-Food Canada, Veterinary Drug Directorate, Canadian Veterinary Medical Association, Animal Health Canada, Animal Nutrition Association of Canada, Chicken Farmers of Canada, Dairy Farmers of Canada, Canadian Pork Council, Canadian Sheep Federation, Beef Cattle Research Council, Canadian Animal Health Institute, Canadian Animal Health Surveillance System, Council of Chief Veterinary Officers. Is this committee an option to take on the role of the new PCAP Leadership Team?

Answered: 75 Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	88.24%	66
No	13.24%	10
Total Respondents: 75		

#	IF YES, ANY RECOMMENDED MODIFICATIONS TO THIS COMMITTEE?	DATE
1	Consider addition of a member from CCVR. A liason from this committee to whatever similar structure is implemented on the human health side is also important, but presumably the PHAC task force member will fill this role. Would not want to make the group any bigger.	1/11/2024 9:04 AM
2	When we did the roundtable, we talked about perhaps having a smaller leadership team with people being selected based on their network and their knowledge of different initiatives. I don't know that we need to have so many people on this leadership team if the person selected is able to connect with the others. (Ex: 1 or 2 people from industry, connecting with other industry associations)	1/10/2024 8:30 AM
3	I think this committee could be a starting point. Should probably review the membership, including if the right people (decision level) are involved in it.	1/10/2024 5:27 AM
4	It is important to consider veterinarians with experience in the species of concern. This could possibly be achieved by coordinating with CVMA to engage the species-specific veterinary	1/9/2024 8:51 PM

Leadership Action for the Pan-Canadian Action Plan (PCAP) for AMR in Animal Health

groups. It may also be beneficial to engage international experts such as from the US or EU, as well as WOAHA.

5	Yes, with some expansion or recognition of the need for individual working groups or proper consultative structure to ensure all commodity groups are represented. Additionally, should there be expanded representation to have a One Health perspective to address the Option A mandate noted above?	1/9/2024 1:27 PM
6	Q6: tried to skip, because CPEP is unfamiliar with the existing AMU/AMR committees. But since the survey would not let me this question then our response is "probably yes". Q7: Processor organizations should be represented as well. Is CAHI a conflict of interest due to the sales that they have to gain from selling antimicrobials? This group composition is a good start, but may change depending on the Terms of Reference and the Mandate.	1/9/2024 12:37 PM
7	I answered no to first question, perhaps as not aware of or forgot this coordination committee. Representation seems wide enough. Do you need to see if anyone missing and confirm current representatives are the right ones, who meet the definition of "well networked, high-level thinkers, able to delegate, access information, identify opportunities, scan the environment, and identify where we need to effect change and initiate new activities, develop shared resources and policy tools, and support AMU/AMR Champions for animal health."? ie could work, but may need some tweaking. It does prevent duplication and provide connections with AHC which are critical.	1/9/2024 11:35 AM
8	Promote veganism, by all means, for a more habitable planet Earth. Lifeforms like algae (spirulina, asparagopsis taxiformis etc.) and groups that help in their production should be included as their activities will not just provide healthier food for animals (and humans) but also help with the de-acidification of oceans/lakes and producing more oxygen through photosynthesis. Canada has some of the longest coastlines in the world that could be useful in help achieving this good environmental/nutritional purpose.	1/8/2024 12:12 PM
9	More experience in successfully drafting and changing and funding government policy may help.	1/8/2024 11:34 AM
10	Absolutely critical that the large commodity groups are part of the PCAP Leadership Team. This group is nicely balanced and represents that largest users and key leaders.	1/8/2024 10:09 AM
11	No, however the terms of the leadership team should allow for changes/additions as required.	1/5/2024 10:59 PM
12	Seems to have comprehensive representation. The only missing element is academia but they don't necessarily need to be in leadership and could be a resource/stakeholder.	1/5/2024 8:57 AM
13	Not much representation for aquaculture, for example the Canadian Aquaculture Industry Alliance, it may also be useful to have a representative from the CVMA, such as Shane Renwick.	1/5/2024 8:47 AM
14	None.	1/5/2024 5:08 AM
15	Would be also useful to have representatives from environmental sectors and citizen partners with interest in AMU/AMR (including those representing indigenous perspectives).	1/4/2024 6:54 PM
16	These agencies are pretty busy and have a lot of other primary mandates. It would be great to have another third party committee that focuses on education and getting information out to the front lines.	1/4/2024 1:33 PM
17	You are missing a representative from the National Cattle Feeder's Association. You have other national livestock commodity groups listed above but you are missing the feedlot sector, as well as representatives from the small ruminant industry, pets, equine, wildlife, and the environment. If this is a One Health approach also missing someone from the human medical side (medical doctors).	1/4/2024 1:32 PM
18	Government research scientists with a strong AMR program need representation on this committee.	1/3/2024 9:26 AM
19	Consideration to use the existing AMU/AMR committee as the leadership group should be considered; however, further discussion is required on whether there are other groups that should be considered (i.e., R&I expertise), level/seniority of members, any changes on how the current committee operates, ect.	1/3/2024 8:43 AM
20	At a minimum, Canadian cattle association and CABV/ACVB are absent from the list. There is	1/2/2024 3:56 PM

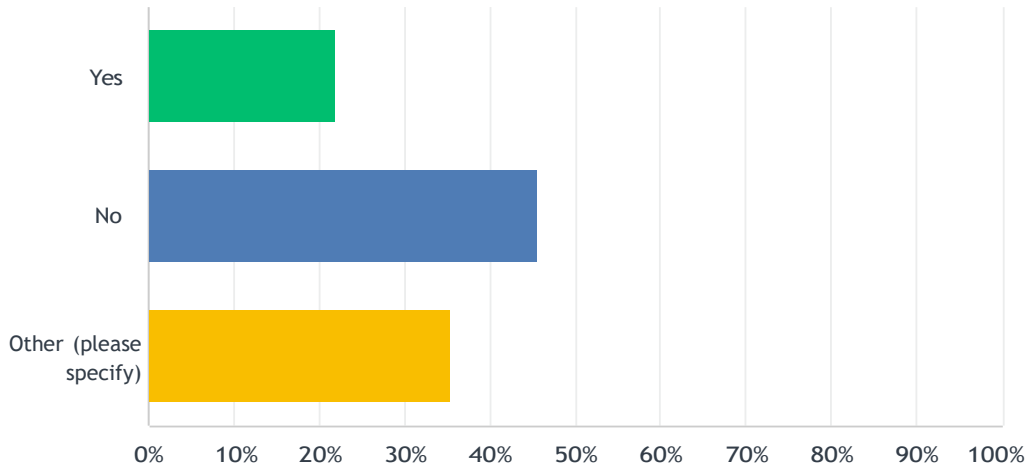
Leadership Action for the Pan-Canadian Action Plan (PCAP) for AMR in Animal Health

also no representation from any Small animal veterinary organizations. Even through they are not food producing, they can directly impact AMR in homes/communities.

21	The cttee should include visionary scientific thinkers. Need ecologists and population experts because AMR is about populations of bacteria, animals, humans etc.	1/2/2024 8:27 AM
22	addition of Alberta Beekeepers Commission. More importantly Dr. Sarah Wood, Chair Pollinator Health at UoS Western College of Veterinary Medicine	12/31/2023 10:41 AM
23	I do not know enough about the committee and its mandate to suggest modifications	12/30/2023 6:01 AM
24	Considering AMU in livestock is often a focus it would be good to also include representation of livestock vet associations such as CABV.	12/29/2023 6:51 AM
25	Yes, there needs to be someone representing Academia on this committee. There is a lot of research happening at veterinary colleges regarding AMU/AMR and so I feel strongly someone in that sphere should be included.	12/28/2023 8:16 AM
26	Yes, though should specifically be for the animal/food side, rather than more broadly. There are other aspects of the PCAP that will require much more input on the human health side of things. Suggest to specifically articulate here which PCAP activities/pillars that the PCAP Leadership Team will address. Does the existing committee referenced also include PHAC representatives from CIPARS? (note: AMR TF does not have CIPARS representatives) Also, please add Fisheries and Oceans Canada.	12/27/2023 12:47 PM
27	Please include the voices of the small producers throughout the country.	12/26/2023 1:40 PM
28	The group would benefit from the addition of aquaculture and bees. Consideration should also be given to extending the invitation or hold space for in the membership list to an Indigenous group that would be applicable in the implementation of the PCAP.	12/23/2023 5:47 AM
29	Personally, I think there should be a smaller leadership group at the top of the hierarchy that is accountable for goal setting and achieving results (e.g. AHC, CFIA, academia/AAFC as one possible example). Once that is formed, then this larger leadership structure underneath makes sense.	12/22/2023 11:21 AM
30	Il serait stratégique d'inclure quelques membres des organismes provinciaux à l'occasion (surinvitation?), pour permettre de contribuer activement aux travaux avec le point de vue PT.	1/12/2024 11:40 AM
31	Nous proposons qu'un représentant des Producteurs d'oeufs du Canada devrait être présentsur ce comité car cette organisation est très avancé dans la diminution de l'utilisation de diversproduits de traitement.	1/5/2024 12:04 PM
32	Fédération des producteurs de bovins (vache réforme, bovins de boucherie, veaux lourds(grain et lait)	1/4/2024 1:00 PM
33	Je suggère la participation d'experts vétérinaire avec une expérience pratique de terraincomme des professeurs/chercheurs oeuvrant au service ambulatoire de la Faculté demédecine vétérinaire de l'université de Montréal. (contact Dr Jean-Philippe Roy mv)	1/3/2024 7:50 AM

Q8 Are there any existing AMU/AMR committees for consideration in the role of the PCAP Leadership Team?

Answered: 75 Skipped: 0



ANSWER CHOICES	RESPONSES
Yes	22.06% 17
No	44.00% 33
Other (please specify)	36.00% 27
Total Respondents: 75	

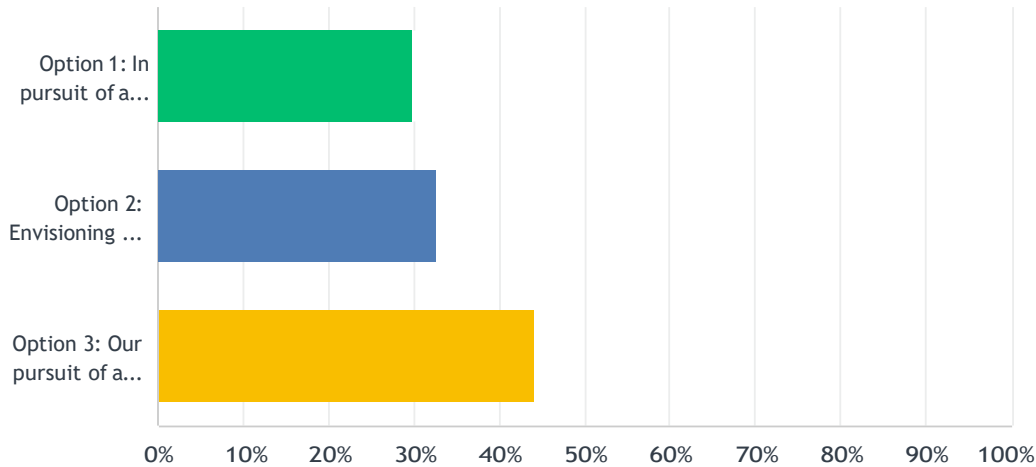
#	OTHER (PLEASE SPECIFY)	DATE
1	Presumably you meant any other existing committees. The AHC committee above seems the best suited. Only other equivalent group in Canada would potentially be the CAHSS AMR/AMU network group, this group is not set up to provide governance but likely includes many of the same people, so consider how to manage the overlap. The CCVO also has an AMU subcommittee but this is entirely FPT reps with no industry, so would not be suitable for the leadership team, but perhaps a member of this group could be an "observer" at the leadership group meetings in order to keep the CCVO subcommittee informed as well.	1/11/2024 9:04 AM
2	not sure	1/10/2024 1:52 PM
3	unknown	1/9/2024 4:07 PM
4	Unable to answer. Unclear what the difference is between AMU/AMR committee Coordination Team (Q7) and PCAP Leadership Team (Q8)	1/9/2024 12:37 PM
5	Maybe- or do you just need good communications between the leadership team and those committees? Regular updates from chair.	1/9/2024 11:35 AM
6	not that I am aware of	1/9/2024 8:49 AM
7	Not sure	1/8/2024 2:08 PM
8	Vegan groups aware on the anthropogenic acceleration of the ongoing sixth mass extinction of non-human animals	1/8/2024 12:12 PM

Leadership Action for the Pan-Canadian Action Plan (PCAP) for AMR in Animal Health

9	None come to mind but see above for additions in aquaculture and CVMA. Could also consider members from the CCVO committee on AMU in Food Animals (chaired by Michelle Thompson)	
10	Canadian Wildlife Health Cooperative	1/4/2024 2:50 PM
11	CVMA AMR/AMU?	1/4/2024 1:33 PM
12	N/A	1/4/2024 12:56 PM
13	There are other groups that work in the AMR space; however, none that are FPT and I and dedicated solely on AMR stewardship.	1/3/2024 8:43 AM
14	I do not know enough about the committees to comment	1/2/2024 3:56 PM
15	Don't know	1/2/2024 9:12 AM
16	don't know	1/2/2024 8:27 AM
17	Not that I am aware of	12/31/2023 10:41 AM
18	Don't know	12/29/2023 6:51 AM
19	Unsure but I'm sure there are many provincial teams so that efforts are not being duplicated or redone	12/22/2023 2:27 PM
20	I think an existing one could work but not sure one to recommend	12/22/2023 2:19 PM
21	Not sure	12/22/2023 2:00 PM
22	I am not familiar about the different committees.	12/22/2023 12:28 PM
23	I don't know of any.	12/22/2023 10:59 AM
24	Not sure	12/22/2023 10:38 AM
22	Nous n'avons pas d'opinion pour cette question car nous sommes nouveau en tant que partieprenante.	1/5/2024 12:04 PM
23	Je ne sais pas	1/4/2024 1:00 PM
24	pas à ma connaissance	1/3/2024 7:50 AM

Q9 Select your preference for a preliminary vision of AMR in Animal Health:

Answered: 75 Skipped: 0



ANSWER CHOICES	RESPONSES
<p>Option 1: In pursuit of a future free from the threat of Antimicrobial Resistance (AMR), in partnership with our stakeholders, our vision is a collaborative, measurable, and accountable approach to completing, executing, and monitoring the Pan-Canadian Action Plan (PCAP) for AMR. Our commitment includes setting clear, measurable outcomes, defining concrete deliverables with timelines, establishing performance metrics, and implementing robust progress monitoring mechanisms. We will engage Federal-Provincial-Territorial (FPT) partners and stakeholders, ensuring accountability by identifying specific partners for each outcome. Additionally, we will assess funding and resource needs, close surveillance gaps in areas such as the environment, and develop a comprehensive national approach to preserve the effectiveness of antimicrobials, guided by clear guidelines.</p>	30.67% 23
<p>Option 2: Envisioning a future where Antimicrobial Resistance (AMR) in Animal Health is on a downward trajectory, our vision centers on the triple focus of reducing overall Antimicrobial Usage (AMU), emphasizing responsible practices, and ensuring appropriate antimicrobial use when necessary. By recognizing sector-specific challenges, our approach prioritizes education, knowledge-sharing, and prudent management. By fostering a top-down and bottom-up educational approach, we aim to improve animal health and herd management. Our vision seeks to create change not through mandates but by incentivizing responsible practices, filling current gaps through strategic actions, and addressing specific species needs.</p>	32.00% 24
<p>Option 3: Our pursuit of a future with diminished Antimicrobial Resistance (AMR) in Animal Health revolves around the dual principles of reduced AMU and responsible antimicrobial use. Striking a balance between necessity and restraint, promoting the right practices at the right time. Acknowledging sector-specific nuances, we prioritize education and knowledge dissemination, recognizing the limitations and realities on the ground. Our vision emphasizes a shift towards prudent management, focusing on animal health improvement and herd management. Rather than mandates, we strive for change through incentivization, leveraging existing activities, and addressing gaps to foster a harmonious relationship between human, animal, and environmental health.</p>	44.00% 33
Total Respondents: 75	

Leadership Action for the Pan-Canadian Action Plan (PCAP) for AMR in Animal Health

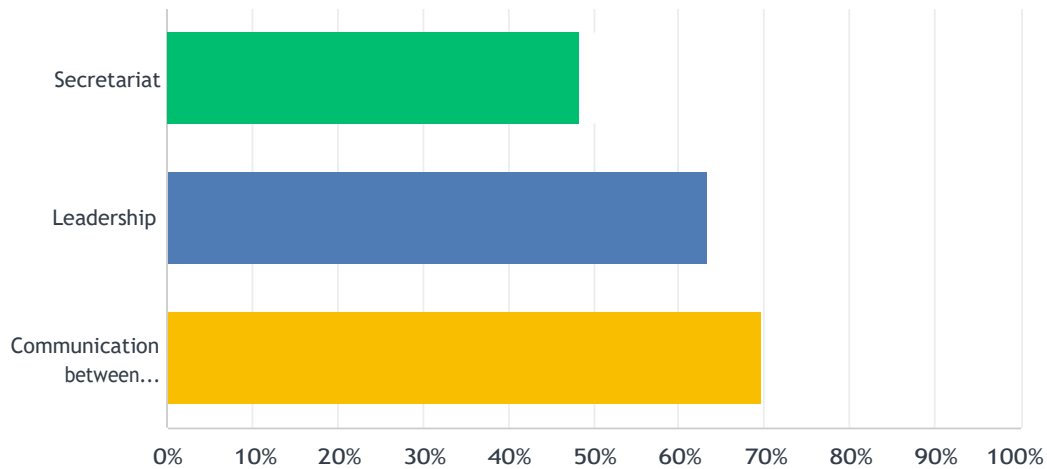
#	OTHER - ANY SUGGESTIONS OR REWORDING RECOMMENDATIONS ARE WELCOME.	DATE
1	We will never be "free" from the threat of AMR, that wording needs to be avoided. Option 3 is the only one that also mentions environment, which is a critical component. Suggest "sector-specific needs" instead of nuances. "recognizing the limitations and realities" makes it sound like these are simply accepted and there will be no attempt to change the limitations and realities - recognizing that some changes need to be made as soon as possible, and others will take longer as limitations in each industry are also addressed, in such a way that animal welfare and the economic viability of the livestock industry are still protected	1/11/2024 9:04 AM
2	We need a vision that includes funding and development of tools for surveillance and use. We don't have that now and we don't want the strategy to commit industry to goals we have no tools to reach.	1/10/2024 5:27 AM
3	by definition, we cannot be "free from the threat of AMR", unless we stop using antimicrobials.	1/9/2024 4:07 PM
4	What does Animal Health mean? Need to acknowledge the complex relationship between AMU and AMR and what can be accomplished in animal health with diversity of industries and needs. Requires resources and a comprehensive surveillance program. Should the focus be on relating back to the PCAP like Option 1 or is this to look at the overall vision of AMU/AMR like Option 2 and 3? Difficult to choose one at this point. See value in some aspects of each one.	1/9/2024 1:27 PM
5	As a vision statement, Option 1 is the best option. However, it needs to be clear that free from antimicrobial RESISTANCE is not the same as free from antimicrobial USE. as this committee is at a high level, it needs to have a strong vision without getting into the operational details.	1/9/2024 12:37 PM
6	Option 2 -Clearest language of the three but could you replace downward trajectory with something clearer like "Envisioning a future where Antimicrobial Resistance (AMR) in Animal Health is decreasing"? option 1- never eliminate AMR- it will develop with use, but needs to be reduced/managed option 3- seems just a more awkward, wordier version of 2.	1/9/2024 11:35 AM
7	Scientific data on the environment and health concerning effects of destruction of natural habitats and the consequences of pollution due to industrial projects (logging companies, fracking and Wuhan-like wet markets) and human activities should take a more prominent place in the discussion table leading to actions in the direction towards more respectful equilibrium/equilibria with the natural world.	1/8/2024 12:12 PM
8	Too vanilla. End all antiM use in animals other than urgent therapeutic needs. Period. This is the goal. Otherwise we give the misguided plant based movement more unneeded ammunition.	1/8/2024 11:34 AM
9	Clear need for advocacy for access to new veterinary health products (vaccines, microbiome modifiers, etc.).	1/8/2024 10:09 AM
10	Envisioning a future *with diminished* Antimicrobial Resistance (AMR) in Animal Health... By recognizing sector-specific challenges, our approach prioritizes education, knowledge-sharing, and prudent management, *as well as setting clear, measurable outcomes and defining concrete deliverables with timelines where possible*.	1/5/2024 10:59 PM
11	The tangible pieces around commitment to setting clear measurable outcomes, concrete deliverables and timelines that engage and identify partners for each outcome, including resource assessment to close gaps under Option 1 is a core component that should be integrated into all options.	1/5/2024 8:47 AM
12	There is a lot of overlap between Option 2 and 3 here - I feel that Option 3 encompasses Option 2.	1/4/2024 6:54 PM
13	Metrics are very important! Without statistics and metrics it is hard to measure what you can't measure.	1/4/2024 1:33 PM
14	There is only a small difference between option 2 and option 3. We should also focus on identifying alternatives to antimicrobials to prevent, control, and treat infectious disease, and also can help in leveraging existing educational initiatives and identifying and filling gaps in these areas. We shouldn't repeat what others are doing. Rather identify what everyone is doing and identifying areas where we can assist in these areas or help coordinate activities and identify resources where appropriate.	1/4/2024 1:32 PM
15	The statement should also include mention of promoting or ensuring animal health in the context of AMR.	1/3/2024 8:43 AM

Leadership Action for the Pan-Canadian Action Plan (PCAP) for AMR in Animal Health

16	I am not at all convinced that an overall reduction in AMU will lead to a diminished AMR. "Our pursuit of a future with diminished Antimicrobial Resistance (AMR) in Animal Health revolves around a better understanding of the ecology and populations dynamics. This will include research in genetics of bacteria and hosts (animals, humans etc.) and dynamics of resistant bacteria in host populations of different sizes. From individual humans or pets to large groups such as swine, poultry and fish.	1/2/2024 8:27 AM
17	Should be some measuring of relevant outcomes in Option 2 - esp with regards to antimicrobials of high human importance in production areas that have significant risk for development of AMR in humans	12/30/2023 6:01 AM
18	I selected Option 2, but only because I had to pick one for the survey to accept my input. I'm not sold on any of these visions or their descriptions. Comments: Not loving some of the wording in these options. Option 1: We will never be free of AMR and this should not be wording in a vision statement. I think it's up to the government to build accountability into the PCAP. This group is here to help guide the implementation, but accountability for meeting PCAP outcomes should not fall on AHC or this group. Option 2: We should not identify a downward trend as the vision - AMU will continue to be important for animals for disease treatment - sometimes this use will vary over the years, and as a result the AMR. Option 3: "Striking balance between necessity and restraint": This is all contained in "Responsible Use". I wouldn't want to see this language in the vision. - I think the vision should speak to "responsible use in the animal agriculture sector, led by surveillance, stewardship and innovation". If we speak to changes in AMR, we are likely setting ourselves up for failure. - Another option to consider: If we speak of AMR, it could be something along the lines of "Understanding the threat of AMR, our vision focusses on ensuring responsible use in the animal agriculture sector, led by surveillance, stewardship and innovation to promote animal health and welfare". - I find the descriptions of Option 2 and 3 say much the same thing. Hard to differentiate the differences.	12/22/2023 3:19 PM
19	Very tough choice for me between 2 and 3. Not sure if I clearly understand the real difference between the 2	12/22/2023 2:00 PM
20	Option 1: free from threat of AMR wording is unrealistic, can use downward trend language. This option is the only one that really targets the limitation of PCAP about measurable goals	12/22/2023 11:21 AM
21	None come to mind but see above for additions in aquaculture and CVMA. Could also consider members from the CCVO Committee on AMU in Food Animals (Chaired by Michelle Thompson)	1/5/2024 8:47 AM
22	L'option 2 nous semble plus claire et plus réaliste. Par contre, on ajouterait une Seule Santé, soit favoriser des liens harmonieux entre la santé humaine, animale et environnementale.	1/5/2024 12:04 PM
23	faciliter l'accès à des vaccins et autres produits médicaux dans diverses espèces afin deréduire l'usage des antibiotiques et assurer le bien-être des animaux et leur productivité.Principalement lorsque ce produit détient déjà une homologation pour cette espèce ailleurs.	1/3/2024 10:04 AM

Q10 What do you see is the role of Animal Health Canada (AHC) in implementing the PCAP for AMR in animal health?

Answered: 75 Skipped: 0



ANSWER CHOICES	RESPONSES	
Secretariat	48.00%	36
Leadership	61.33%	46
Communication between stakeholders	69.33%	52

Leadership Action for the Pan-Canadian Action Plan (PCAP) for AMR in Animal Health

Total Respondents: 75

#	OTHER – FREE COMMENT	DATE
1	All of the above. Secretariate is often one of the most important pieces and sometimes one of the harder ones to fill, but having someone to herd the cats can make a big difference. CAHSS could take on a lot of the stakeholder communication, that is the strength of that network.	1/11/2024 9:04 AM
2	The role of AHC in implementing the PCAP could be similar to the role of AHC in the ASF executive management board.	1/9/2024 8:51 PM
3	Secretariat and communication between stakeholders seem to go hand in hand as one role.	1/9/2024 12:37 PM
4	I think all three- especially if the AMU/AMR Coordination Committee becomes the PCAP leadership team.	1/9/2024 11:35 AM
5	Please help reduce animal cruelty, exploitation and trade ! Promote and help veganism thrive !	1/8/2024 12:12 PM
6	While we envision AHC in a leadership role for PCAP, ultimately this will require a new task force within AHC - it is not going to happen within the existing human and financial resource capacity.	1/5/2024 11:55 AM
7	A mix of all (3), see a bigger role for stakeholder communication and leadership to bring people to the table and drive measurable progress.	1/5/2024 8:47 AM
8	It would be great to access summaries of culture/sensitivity results from diagnostic samples veterinary and non-veterinary.	1/4/2024 1:33 PM
9	all of the above	1/3/2024 8:43 AM
10		1/2/2024 3:56 PM
11	IMO - there will have to be significant stable government support for this plan , in terms of personnel and fiscal support . Without a strong government mandate in terms of a person or people with accurate vision of the the future and the ability to interact with stakeholder groups - any plan to reduce AMU and AMR is unlikely to succeed . Each stakeholder group can work within their group and make progress but not as much progress as if they have government support of their plans . If AHC has the strongest link to government (and yet not government itself) , they should likely be involved . I do not know enough about AHC to provide more than this	12/30/2023 6:01 AM
12	All 3 are possible roles. Leadership in terms of bringing all the players together, rather than leadership on deciding what the specific targets will be (again, this group has a lack of decision making authority over others).	12/22/2023 3:19 PM
13	Et aussi leadership pour mobiliser l'industrie	1/12/2024 11:40 AM
14	Centraliser le tout facilite la coordination, l'avancement du projet et la communication avec lesparties prenantes.	1/5/2024 12:04 PM
15	SAC est bien placée pour comprendre les divers enjeux des différentes espèces et est près durèglementaire	1/3/2024 10:04 AM

Q11 Connect us with AMU/AMR research and innovation in or related to your sector. Please share any research or innovation projects or activities. Thank you!

Answered: 20 Skipped: 48

#	RESPONSES	DATE
1	Miss used of antibiotic in viral diseases	1/11/2024 4:41 AM
2	Information on the Turkey Industry AMU Strategy which addresses preventive use of antibiotics important in human medicine in order to address concern surrounding antibiotic use and resistance with the goal of maintaining human and animal health can be found at: www.turkeyfarmersofcanada.ca/on-the-farm/antibiotics/	1/9/2024 1:27 PM
3	In terms of the scientific literacy of masses, it is shocking that, in spite of the existence of groups like the UK-based Extinction Rebellion, about 80 % of people are not aware of the anthropogenic acceleration of the ongoing sixth mass extinction and how it is linked to industrial projects including animal trade/farming, lifestyles, nutrition and rates of consumption (of resources, energy etc.) in the developed world. Please read the scientific literature and unpack it without ambiguity to the public to be able to take some action at their level to contribute to solution(s) of improving animal health instead of aggravating the issue.	1/8/2024 12:12 PM
4	To achieve the goal very little more research is needed. We have had very good people study this file too long. We need action to meet the goal.	1/8/2024 11:34 AM
5	ok sure.it will be great to work together to combat AMR.	1/8/2024 10:15 AM
6	- Currently funding work on antimicrobial peptides (AMPs) by Amphorax located at UBC. - We are also funding research on pathogen reduction, particularly Salmonella. - We also support research via the Canadian Poultry Research Council (CPRC), which includes research on AMU/AMR.	1/5/2024 10:59 PM
7	IDRC, we fund research on antimicrobial resistance internationally. The project is InnoVet-AMR which is aimed at addressing the emerging global threat of antimicrobial resistance by reducing the misuse of antimicrobials in animal production in the Global South. This four-year, CA\$30 million partnership between IDRC and the UK Department of Health and Social Care's (DHSC) Global AMR Innovation Fund (GAMRIF) is funding research to develop new animal vaccines and other innovations to tackle AMR in livestock and aquaculture production, particularly in low- and middle-income countries (LMICs). https://idrc-crdi.ca/en/initiative/innovet-amr-innovative-veterinary-solutions-antimicrobial-resistance	1/5/2024 8:08 AM
8	Not applicable.	1/5/2024 5:08 AM
9	Are there research on treatment of effluents channel into the environment, rivers and streams to reduce the public health effects on humans, animals and environments.	1/4/2024 3:20 PM
10	Alberta Pork is working on a project to collect AMU data directly from farms and provide producers, veterinarians and others with good information on this subject matter. we are willing to work with everyone as this initiative mentions.	1/4/2024 2:55 PM
11	CWHC- Looking at antimicrobial resistance of raccoons in Ontario in Agriculture areas. I would like to look at the effect of antimicrobial resistance in bats that feed on insects from ag. run off ponds or on mosquitos in agricultural areas.	1/4/2024 2:50 PM
12	Canadian Feedlot AMU AMR Surveillance Program http://cfaasp.ca is one of those initiatives. As well, we support research in AMU AMR through various initiatives funded in part by CAP, SCAP, BCRC and other funding agencies.	1/4/2024 1:32 PM
13	N/A	1/4/2024 1:09 PM
14	I am actively involved in the GRDI-AMR2 One Health project that brings together the work of 50 research scientists from 7 Canadian government departments (AAFC, CFIA, PHAC, DFO,	1/3/2024 9:26 AM

Leadership Action for the Pan-Canadian Action Plan (PCAP) for AMR in Animal Health

ECCC, HC, NRC). GRDI-AMR is a poster child of communication and collaboration between scientists representing all sectors of the One Health continuum. We will be hosting a Stakeholders Meeting on Feb 1, 1-4 PM EST. For more information, contact me at dominic.poulin-laprade@AGR.GC.CA.

15	Alberta Beekeepers are working with the Honey Bee Health Coalition and others on understanding resistance in varroa mite, the number one health issue globally, as well as developing new chemical and non chemical based solutions	12/31/2023 10:41 AM
16	We hold monthly mini workshops on goat husbandry. Information and literature would be very helpful to keep our members informed as to what's safe and changes they need to make.	12/26/2023 1:40 PM
17	CFIA is one of the leading departments in GRDI and I can share contact information through email.	12/23/2023 5:47 AM
18	Important to align with CIPARS priorities	12/22/2023 2:19 PM
19	Yes please	12/22/2023 2:00 PM
20	feed additive focus on gut microbiome and gut wall integrity while also supporting immune function. No silver bullets to antibiotic replacement, needs a strategic plan with various tools.	12/22/2023 10:29 AM
21	Les Éleveurs de Poulettes du Canada n'a pas le mandat de recherche en ce moment. Nous sommes parties prenantes sur les recherches sur l'élevage de poulettes au niveau des Producteurs d'oeufs du Canada. Nous nous engageons à rester à l'affût de notre secteur.	1/5/2024 12:04 PM
22	Stratégie de bien-être animal, démarches pour assouplir les règles pour l'approbation de nouveaux produits pharmaceutiques et vaccinaux	1/3/2024 10:04 AM
23	Notre association collabore à plusieurs actions initiées par des chercheurs/experts notamment avec la FMV	1/3/2024 7:50 AM

Canadian AMU/AMR Leadership Team (Animal Health and Agri-Food)

Terms of Reference

Purpose:

To provide strategic guidance in the agri-food and animal health sectors by leading and coordinating activities in relation to responsible antimicrobial use (AMU) and minimizing antimicrobial resistance (AMR) challenges for sustainable animal health and welfare in the Canadian context. This team is dedicated to effective, transparent, and ongoing communication with stakeholders and will engage in initiatives to raise awareness about its activities. Through collaboration with stakeholders this team will actively engage in the evolving landscape of AMR in its global interconnection with animal, human, and environmental health.

Duration:

This team's work is anticipated to be required on an ongoing basis. The AHC Board of Directors will review this Team every two years and determine whether its work should be revised or discontinued. Its mandate should be adjusted in consultation with the AMU/AMR Leadership Team and the broader AHC Board of Directors.

Governance:

Decisions of the Team will mainly be consensus-based and recorded as an agreement in a meeting's Record of Decision. In the event of a significant difference of opinion, a vote will be called by the Team Chair and will be carried by a majority vote. This can include a show of hands during that meeting or a written yes or no response via electronic means before the vote is considered closed (e.g., email).

Reporting:

Animal Health Canada Board of Directors and Animal Health Canada Members.

One Health and PCAP governance partners (such as the FPT ADM Steering Committee, the External Advisory Group, and the AMR Task Force), to ensure connections between human and environmental stakeholders who are also tasked with PCAP for AMR coordination.

Communication:

A Record of Discussion will be created for each Team meeting, including any identified action items and the person responsible for their completion.

At least one week prior to the next Team meeting, a summary of Team activities will be sent to the AHC staff lead to ensure all decisions or feedback requested are clearly communicated so Team members can prepare for the next meeting's discussion.

All related documents, actioned items, and a tentative agenda are shared with the Team at least 72 hours before the next meeting.

Composition:

Minimum of one AHC board member on the AMU/AMR Leadership Team.

AHC Directors, FPT Government Advisory Council members, association staff, and any other member representatives with an interest in AMU/AMR.

CAHSS Director or Coordinator to ensure synergies with the CAHSS AMU/AMR Network.

A veterinary species group representative – *this representative can vary if needed based on availability and whether a species-specific item is planned for the discussion.*

Linkage to animal health product regulatory authorities.

Representation to share composition of national perspectives.

Staff resources:

AMU/AMR Coordinator (staff lead for this Team, non-voting, position is currently vacant).

CAHSS Director or Coordinator (Team resource, non-voting).

Communications Manager (Team resource, non-voting).

Subject matter experts may also be invited to participate on the Team on a continuous or as-needed basis; however, in those instances, they will be invited to fill a non-voting, ex-officio role.

Term of office: Each representative on the Team may serve for as long as required or as their organization allows. A representative may resign from the Team at any time with written notice provided to the Team Chair.

Skillset and experience required for Team members:

Knowledge of AHC work areas in relation to AMU/AMR in a One Health context.

Experience and working knowledge on the issues related to AMU/AMR in Canadian animal agriculture.

Ability to speak to sub-sector-specific policies, challenges, trends, and experiences related to AMU/AMR, animal health product needs, and best practice development/adoption to promote good animal health and welfare.

Working knowledge of animal health product registration, maintenance, uses, and limitations within Canadian animal agriculture.

Awareness of global trends with respect to AMU/AMR, One Health, animal health and welfare, product access, etc..

Team member time:

The Team will meet a minimum of three (3) times per year, with more frequent meetings as required. In practice, a Team member contributes approximately 12-15 hours of participation time. ***Team members may be required to lead a pillar or action group.***

Operations estimates:

Staff time required includes:

- Drafting Team documents, researching and drafting reports for Team review, managing feedback, and preparing final reports.
- Coordinating, facilitating, and attending meetings and special events.
- Liaising with AHC staff, Team members, AHC members, and stakeholders.

Budget: *Additional funding support is required to lead this initiative.*

- *Staff support.*
- *Project management support.*
- *Included in CAHSS division funding to support its AMU/AMR Network.*

Change history:

Version #	Implemented By	Revision Date	Approved By	Approval Date	Reason

Canadian AMU/AMR Leadership Team

Organization
Agriculture & Agri-Food Canada
Alberta Agriculture
Animal Health Canada
Animal Nutrition Association of Canada
Canadian Animal Health Institute
Canadian Animal Health Surveillance System (CAHSS)
Canadian Aquaculture Industry Alliance (CAIA)
Canadian Cattle Association
Canadian Council of Veterinary Registrars (CCVR)
Canadian Food Inspection Agency
Canadian Pork Council
Canadian Sheep Federation
Canadian Veterinary Medical Association
Chicken Farmers of Canada
Dairy Farmers of Canada
Health Canada/Veterinary Drug Directorate
Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec (MAPAQ)
Public Health Agency of Canada
Registered Veterinary Technologists & Technicians of Canada (RVTTC)
Secretariat
Animal Health Canada