

# AMMI CANADA

## VISION

Fewer infections. Fewer outbreaks. Healthy Canadians.

Moins d'infections. Moins d'éclosions. Canadiens en santé.

## MISSION STATEMENT

AMMI Canada: We advance the prevention, diagnosis, and treatment of infections.

AMMI Canada : Nous faisons progresser la prévention, le diagnostic et le traitement des infections.

## STRATEGIC PLANNING GOALS and INITIATIVES

### 1. ANTIMICROBIAL STEWARDSHIP and RESISTANCE

The goal is to reduce the incidence and prevalence of antimicrobial resistant microorganisms through strategies that monitor antimicrobial resistance and improve antimicrobial use.

Strategic Initiatives:

*General:*

- a. Collaborate with federal/provincial/territorial government agencies and other organizations, in both human and veterinary medicine, responsible for antimicrobial resistance and utilization surveillance to develop a cohesive national strategy to reduce antimicrobial resistance (AMR) and optimize antimicrobial use.

*Specific:*

- i. Identify priorities for antimicrobial resistant microorganism surveillance, prevention, and control.

*General:*

- b. Support activities for monitoring antimicrobial resistance across the continuum of care.

*Specific:*

- i. Identify how advances in laboratory diagnostics can be applied to detection and monitoring of antimicrobial resistance.
- ii. Promote the role of the medical microbiology laboratory in antimicrobial stewardship.

*General:*

- c. Advocate for antimicrobial stewardship programs, both institution-based and community, and develop best practice documents to support evolution and evaluation of stewardship practice in both settings.

*Specific:*

- i. Publish an AMMI Canada guideline on principles and practice of antimicrobial stewardship in acute care hospitals.
- ii. Review all future AMMI Canada guidelines for compliance with the principles and practice of antimicrobial stewardship.

- iii. Publish an AMMI Canada guideline on principles and practice of antimicrobial stewardship in the community.

*General:*

- d. Promote physician, pharmacist, and undergraduate medical and other health sciences education on appropriate antimicrobial prescribing and antimicrobial stewardship.

*Specific:*

- i. Physicians, pharmacists, and undergraduate medical and other health sciences students receive 1 hour of teaching each year on appropriate antimicrobial prescribing.
- ii. Inappropriate hospital and community antimicrobial utilization reduced by 25% over the next 5 years.

## 2. **INFECTION PREVENTION and CONTROL**

The goal is to reduce the impact of healthcare-associated infections through infection prevention and control.

Strategic Initiatives:

*General:*

- a. Promote quality improvement opportunities pertaining to infection prevention and control.

*Specific:*

- i. Promote and support research into all aspects of infection prevention and control within the Canadian health care system.
- ii. Act as an “expert body” to advise both governmental and non-governmental agencies with regards to infection prevention and control.
- iii. Promote implementation of proven infection prevention and control interventions.

*General:*

- b. In collaboration with the Public Health Agency of Canada, maintain a valid and reliable Canadian surveillance network to measure the impact of healthcare-associated infections in Canadian healthcare institutions including mortality, morbidity, resource utilization, costs, and other relevant indices.

*Specific:*

- i. Establish standardized surveillance methods, including data collection, definitions, analysis, and interpretation in order to document incidence, prevalence, and trends in healthcare-associated infections.
- ii. Develop a means for valid inter-institutional comparisons.

*General:*

- c. Increase the number and representativeness of institutions conducting surveillance for healthcare-associated infections using standardized surveillance methods and definitions.
  - i. Promote optimal use of the microbiology laboratory in supporting infection prevention and control activities.

### 3. EDUCATION and KNOWLEDGE TRANSLATION

The goal is to reduce the impact of infections and antimicrobial resistance through guideline development, networking, and education.

Strategic Initiatives:

*General:*

- a. Develop and disseminate evidence-based guidelines on the diagnosis (clinical and laboratory), management, and prevention of infectious diseases in the Canadian population, either independently or in collaboration with others.

*Specific:*

- i. Develop and implement a work plan that includes identifying topics for guideline development, a schedule for review and updating, and a process for guideline evaluation.
- ii. When a guideline (national or international) is produced, review for ratification and produce, if applicable and necessary, a Canadian supplement.
- iii. Guideline development will consider the importance of laboratory tests in clinical management.
- iv. For every AMMI Canada guideline developed, identify where research needs exist.

*General:*

- b. Develop and foster a strong sense of community, shared goals, and cooperation among AMMI Canada members and non-AMMI Canada colleagues through an Annual Conference that meets personal and professional needs.

*Specific:*

- i. Develop an Annual Conference scientific program that aligns with strategic goals.
- ii. Develop an Annual Conference program that maximizes networking opportunities.
- iii. Identify incentives for AMMI Canada members' attendance at the Annual Conference.
- iv. Create an Annual Conference scientific program that promotes attendance by a broader scope of healthcare professionals and scientists, including pharmacists, epidemiologists, clinical microbiologists, other physician groups with an interest in infectious diseases, basic researchers in such areas as microbial pathogenesis, and those working in public health.

*General:*

- c. Provide educational opportunities in infectious diseases and medical microbiology.

*Specific:*

- i. Conduct an annual education needs assessment of Canadian physicians related to infectious diseases and medical microbiology.
- ii. Provide innovative educational opportunities with defined learning outcomes to fulfill the infectious diseases and medical microbiology educational needs of Canadian physicians.

- iii. Evaluate the impact of AMMI Canada educational initiatives on evidence-based clinical practice, judicious use of antimicrobials, and effective use of the microbiology laboratory.
- iv. Provide accreditation for infectious diseases and medical microbiology continuing professional development for the Royal College of Physicians and Surgeons of Canada.

#### 4. **ADVOCACY**

The goal is to support efforts to reduce the impact of infectious diseases world-wide, achieved by equitable access to health care and immunization, through advocacy and strategic collaboration.

Strategic Initiatives:

*General:*

- a. Advocate for and support health promotion activities to reduce the impact of infectious diseases.

*Specific:*

- i. Identify the social determinants of infection-related health issues in vulnerable/marginalized populations in Canada, in particular First Nations peoples, individuals who use illicit drugs, and immigrants.
- ii. Promote awareness of infection-related health issues in First Nations peoples, immigrants to Canada, and other special populations.
- iii. Advocate for improved or enhanced immunization strategies including:
  - 1. health care worker and public education on prevention through vaccination,
  - 2. uniform national vaccination processes, including vaccine registries, incorporation of new vaccines into public immunization programs, and evaluation of immunization programs,
  - 3. programs that promote the implementation and uptake of adult immunization, including in immune-compromised hosts.

*General:*

- b. Develop, improve, and maintain relationships or collaborations with other organizations and colleagues in joint efforts to prevent infections.

*Specific:*

- i. Advocate to government for timely reporting of important, quality infectious diseases surveillance statistics (“information for action”), which are crucial to effective interventions.
- ii. Develop relationships with provincial regulatory authorities and professional associations as key stakeholders in educating or disseminating information to physicians and other healthcare workers.
- iii. Develop collaborations with associations and organizations active in antimicrobial stewardship at both the community and institution levels.
- iv. Improve collaboration with public health colleagues in order to strengthen the fight against communicable diseases in the community.
- v. Advocate for continuous quality assurance and appropriate laboratory utilization through improved partnerships between laboratory professionals and clinicians to ensure that testing is both relevant and improves individual and population outcomes.

- vi. Maintain collaborations with organizations and other professionals in infection prevention and control.

*General:*

- c. Increase the profile of AMMI Canada to stakeholders: government, regulators, funders, potential members, and the public.

## 5. HUMAN HEALTH RESOURCES PLANNING

The goal is to ensure the sustainability of clinical microbiology, infectious diseases, and medical microbiology in Canada.

Strategic Initiatives:

*General:*

- a. Identify human health resources supply and demand in clinical microbiology, infectious diseases, and medical microbiology.

*Specific:*

- i. Enumerate clinical microbiology, infectious diseases, and medical microbiology human health resources through a survey of all those in practice or training in these fields.
- ii. Forecast clinical microbiology, infectious diseases, and medical microbiology human health needs in the next 5 and 10 years.
- b. Advocate for support of training in critical areas (e.g. transplant infectious diseases, infections in the non-transplant immune-compromised host, antimicrobial stewardship, infection prevention and control, bloodborne virus infections).
  - i. Educate the Royal College of Physicians and Surgeons of Canada on the current and future human health resource needs relating to infectious diseases and medical microbiology with a view to optimizing training programs and opportunities.

## 6. RESEARCH

The goal is to promote and support research in infectious diseases and microbiology in Canada.

Strategic Initiatives

*General:*

- a. Support thesis based studies that apply to our mission.
- b. Facilitate investigator-initiated research.
- c. Identify research gaps and priorities.

*Specific:*

- i. Advocate for funding of interdisciplinary research to evaluate the impact of institution-based and community antimicrobial stewardship programs.