

Severe H1N1 Disease: Preventing Cases, Reducing Mortality



September 2nd & 3rd 2009, Winnipeg, Manitoba, Canada



Public Health
Agency of Canada

Agence de la santé
publique du Canada

Canada

Severe H1N1 Disease: Preventing Cases, Reducing Mortality

The world is currently experiencing its first influenza pandemic in 40 years. While we have made a tremendous amount of progress medically and scientifically since the last pandemic, and extensive planning and preparation had been done prior to this one, influenza is a complicated illness that can be difficult to predict. As a result, responses must be tailored to the evolving situation as the pandemic develops and we learn more about the characterization of the virus.

To date, the majority of H1N1 cases in Canada have involved only mild illness; however some individuals have become more severely ill requiring intensive care and respiratory assistance. Many of these serious cases do not fit the typical patterns of influenza. The clinical care of patients who have developed severe H1N1 infection is proving to be one of the more significant challenges emerging during this pandemic.

The Public Health Agency of Canada is hosting a meeting to bring together national and international critical care and public health experts to discuss the clinical care and management of severe H1N1 disease and to prepare for the anticipated fall pandemic wave.

The meeting objectives are as follows:

- To better understand the epidemiology and severity of H1N1 infection.
- To exchange best practices for clinical care and clinical management of patients with severe H1N1 infection.
- To identify key ICU challenges/shortfalls and review mitigating strategies in preparation for the anticipated fall pandemic wave.
- To foster connections between public health and intensive care communities in Canada.
- To identify opportunities for collaborative research work.

Plenary sessions and breakout workshops will explore various aspects of the epidemiology of severe H1N1 cases, strategies for prevention, early recognition of severe disease, clinical care, disease management, resource utilization, and insights from remote communities.

The ability of ICUs to effectively treat patients who develop severe H1N1 infection during the anticipated fall pandemic wave will be a major factor in minimizing the harm caused by this pandemic.

Participants can apply to receive Royal College of Physicians and Surgeons of Canada (RCPSC) educational credits for attending the “Severe H1N1 Disease: Preventing Cases, Reducing Mortality” meeting.

DAY 1:		DAY 2:	
7:00 am – 8:00 am	Registration	7:00 am – 8:00 am	Networking
8:00 am – 8:30 am	Welcome/Introduction	8:30 am – 10:00 am	Breakout Session 1
8:30 am – 10:15 am	Plenary Session 1	10:00 am – 10:30 am	Break
10:15 am – 10:30 am	Break	10:30 am – 12:00 pm	Breakout Session 2
10:30 am – 12:00 pm	Plenary Session 2	12:00 pm – 1:00 pm	Lunch
12:00 pm – 1:00 pm	Lunch	1:00 pm – 2:15 pm	International scope of H1N1
1:00 pm – 2:30 pm	Plenary Session 3	2:15 pm – 2:45 pm	Break
2:30 pm – 3:00 pm	Break	2:45 pm – 4:45 pm	Plenary: Breakout Recommendations
3:00 pm – 4:00 pm	Plenary Session 4	4:45 pm – 5:00 pm	Closing Remarks
4:00 pm – 5:00 pm	Informal Discussions		
5:00 pm – 7:00 pm	Reception		

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DAY 1 September 2nd 2009

7:00 am – 8:00 am **Registration, Networking, Continental Breakfast - (Foyer, Mezzanine Level)**

Master of Ceremonies: Dr. Graham Tipples, Public Health Agency of Canada

8:00 am – 8:30 am **Opening Remarks: - (Midway Ballroom)**

Speaker: The Honourable Leona Aglukkaq, Minister of Health

Honourable Theresa Oswald, Manitoba Minister of Health

Dr. David Butler-Jones, Chief Public Health Officer, Public Health Agency of Canada

Dr. Frank Plummer, Chief Science Advisor, Public Health Agency of Canada

8:30 am – 10:15 am **Plenary Session 1: Overview of Severe H1N1 - (Midway Ballroom)**

Chair: Dr. Frank Plummer, Chief Science Advisor, Public Health Agency of Canada

Title	Speaker
<i>Update and Overview on the Global H1N1 Activity and Management</i>	<i>Dr. Charles Penn, World Health Organization</i>
<i>Update on Canadian H1N1 Epidemic</i>	<i>Dr. John Spika, PHAC</i>
<i>Update on Manitoba H1N1 Epidemic</i>	<i>Dr. Joel Kettner, Manitoba Health</i>
<i>Modelling the Next Wave</i>	<i>Dr. Babak Pourbohloul, British Columbia Centre for Disease Control</i>
<i>Update on Severe Cases</i>	<i>Dr. Robert Fowler, University of Toronto</i>
<i>Modelling of Severe Disease</i>	<i>Dr. Paul Smetanin, Risk Analytica Dr. David Stiff, Risk Analytica</i>

10:15 am – 10:30 am **BREAK - (Foyer)**

10:30 am – 12:00 pm **Plenary Session 2: Severe Disease Epidemic Narratives - (Midway Ballroom)**

Chair: Dr. Anand Kumar, University of Manitoba

Title	Speaker
<i>Lessons Learned from Previous Pandemics</i>	<i>Dr. Marty Cetron, Centers for Disease Control & Prevention</i>
<i>System Issues: Lessons from SARS</i>	<i>Dr. Alison McGeer, Mount Sinai Hospital</i>
<i>Description of Clinical Management and Challenges Experienced in the Community</i>	<i>Dr. Adrian Robertson, Manitoba Health</i>
<i>Description of Clinical Management and Challenges Experienced in Winnipeg ICUs</i>	<i>Dr. Anand Kumar, University of Manitoba</i>

12:00 pm – 1:00 pm **LUNCH - (Foyer)**

1:00 pm – 2:30 pm **Plenary Session 3: Practical Aspects of Epidemic Management - (Midway Ballroom)**

Chair: Dr. Mike Christian, Mount Sinai Hospital

Title	Speaker
<i>Infection Control and Prevention</i>	<i>Dr. Mary Vearncombe, Sunnybrook Health Sciences Centre</i>
<i>Antivirals, Risk Factors and Vaccination Strategies within Canada</i>	<i>Dr. Barb Law, PHAC</i>

2:30 pm – 3:00 pm **BREAK - (Foyer)**

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3:00 pm – 4:00 pm **Plenary Session 4: Pandemic Preparedness for Surge Capacity Management**
- (Midway Ballroom) Chair: Dr. Theresa Tam, Public Health Agency of Canada

Title	Speaker
Federal Surge Capacity	Dr. Michael O'Connor, PHAC
Ontario Provincial Surge Capacity	Dr. Bernard Lawless, Ministry of Health and Long Term Care (Ontario)
Hospital/Regional Surge Capacity	Dr. Perry Gray, Health Sciences Centre

4:00 pm – 5:00 pm **Informal Discussion for Professional Groups - (Midway Ballroom)**

5:00 pm – 7:00 pm **RECEPTION - (Foyer)**

DAY 2 **September 3rd 2009**

7:00 am – 8:30 am **Networking, Continental Breakfast - (Foyer)**

8:30 am – 10:00 am **Breakout Session 1 - (Midway Ballroom, East Ballroom, West Ballroom)**
(Please See Breakout Sessions on Page 4-6)

10:00 am – 10:30 am **BREAK - (Foyer)**

10:30 am – 12:00 pm **Breakout Session 2 - (Midway Ballroom, East Ballroom, West Ballroom)**
(Please See Breakout Sessions on Page 4-6)

12:00 pm – 1:00 pm **LUNCH - (Foyer)**

1:00 pm – 2:15 pm **Plenary Session 5: H1N1 International Scope - (Midway Ballroom)**

Chair: Dr. Graham Tipples, Public Health Agency of Canada

Title	Speaker
<i>Shifting the Paradigm: Individual Patient vs. Population Health</i>	Dr. Thomas Marrie, Dalhousie University
<i>H1N1 Update – Australia</i>	Dr Andrew Singer, Department of Health and Ageing, Australia
<i>H1N1 Update - Chile</i>	Dr. Guillermo Buggedo, Pontifical Catholic University of Chile

2:15 pm – 2:45 pm **BREAK - (Foyer)**

2:45 pm – 4:45 pm **Plenary Session 6: Report on Breakouts - (Midway Ballroom)**

Chair: Dr. Graham Tipples, Public Health Agency of Canada

Title	Speaker
<i>Key Challenges for the Front Lines of Public Health and Primary Care</i>	Dr. Ken Scott, PHAC
<i>Specific public health and primary care strategies</i>	Dr. Theresa Tam, PHAC
<i>Clinical Issues I: Diagnosis, Clinical Features and Antiviral therapy</i>	Dr. Anand Kumar, University of Manitoba
<i>Clinical Issues II: Non-specific Support and Health Care Worker Issues</i>	Dr. Anand Kumar, University of Manitoba
<i>Resource Utilization, Triage and Care Delivery</i>	Dr. Joel Kettner, Manitoba Health
<i>Severe H1N1 Research: Critical Questions</i>	Dr. Mike Drobot, PHAC

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4:45 pm – 5:00 pm

CLOSING REMARKS - (Midway Ballroom)

Speaker: Dr. Frank Plummer, Chief Science Advisor, PHAC

Breakout Sessions

8:30 am – 10:00 am

1) Key Challenges for the Front Lines of Public Health and Primary Care

West Ballroom

Chair: Dr. Ken Scott, Public Health Agency of Canada

A) Remote Communities – Dr. Marcus Lem, Health Canada

Session will provide an overview of the key challenges faced by remote communities in preventing severe diseases and minimizing deaths, including challenges such as isolation, transportation, and application of current recommendations/guidelines that are mainly aimed at urban centres.

B) Public health challenges – Dr. Bonnie Henry, British Columbia Centre for Disease Control

Session will provide an overview of the key challenges faced by public health in preventing severe diseases and minimizing deaths, including challenges in application of current recommendations/guidelines on public health /community mitigation measures and public communications.

C) Challenges for primary care – Dr. Jim Dickinson, University of Calgary

Session will provide an overview of the key challenges faced by primary care in the early diagnosis and provision of early treatment of persons at increased risk for severe disease, including challenges in program implementation and application of current recommendations/guidelines.

10:30 am – 12:00 pm

2) Specific Public Health and Primary Care Strategies

West Ballroom

Chair: Dr. Theresa Tam, Public Health Agency of Canada

A) Vaccines and vaccine deployment – Dr. Horacio Arruda, Quebec Ministry of Health and Social Services

Session will provide current thinking on the Canadian vaccine strategy, prioritization of vaccine supply, vaccine effectiveness evaluation, monitoring and reporting of adverse events following immunization.

B) Antiviral strategies – Dr. Gerald Evans, Queens University

Session will provide current recommendations on early antiviral treatment strategy, targeted post-exposure prophylaxis, implementation considerations, effectiveness evaluation, monitoring and reporting of adverse events.

C) Special populations: the high risk and the hard to reach – Dr. Marcia Anderson, Manitoba Health

Session will include an overview on the key challenges/considerations and practical solutions to address the needs of specific high risk groups (pregnant women, those with chronic medical conditions etc.) and hard to reach populations (remote and isolated communities, aboriginal communities in urban areas, other vulnerable populations).

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Breakout Sessions

8:30 am – 10:00 am

Midway Ballroom

1) Clinical Issues I: Diagnosis, Clinical Features and Antiviral Therapy

Chair: Dr. Anand Kumar, University of Manitoba

This session will focus on diagnostic, clinical and specific therapy issues specific to novel swine origin H1N1 severe infections as seen in Canada. In particular, presenters have been tasked with focusing on the differences seen in this epidemic infection in comparison to accepted and/or standard views of influenza.

- A) *Diagnosis: lessons learned – current recommendations vs clinical reality*
– Dr. Paul Van Caesele, Manitoba Health
- B) *Pulmonary manifestations of severe H1N1 disease* – Dr. Clare Ramsey, U of M
- C) *Non-pulmonary aspects of severe influenza* – Dr. Kendiss Olafson, U of M
- D) *Antiviral therapy* – Dr. Fred Aoki, U of M

10:30 am – 12:00 pm

Midway Ballroom

2) Clinical Issues II: Specific Management

Chair: Dr. Anand Kumar, University of Manitoba

This session will focus on issues of supportive and non-specific therapy of severe infection and nosocomial transmission/health care worker risk management. Presenters have been asked to emphasize aspects unique to the current outbreak.

- A) *Supportive management strategies for severe swine origin H1N1 Pneumonitis*
– Dr. Faisal Siddiqui, U of M
- B) *Adjunctive therapies – what do you have left when oseltamivir fails*
– Dr. Anand Kumar, U of M
- C) *Health Care Workers and Nosocomial transmission – is the risk real?*
– Dr. Lynn Johnston, Dalhousie University
- D) *Exposure and Prophylaxis: HCW issues* – Dr. Lynn Johnston, Dalhousie University

8:30 am – 10:00 am

East Ballroom

1) Resource Utilization, Triage and Care Delivery

Chair: Dr. Joel Kettner, Manitoba Health

This session will deal with medical ethics, clinical care guidelines, models of care delivery and regional cooperation.

- A) *Clinical Care Guidelines: From Evidence to Practice* – Dr. Amin Kabani, PHAC
- B) *Triage: Public Health Ethics and Medical Ethics* – Dr. Laura Hawryluck, Toronto General Hospital/UHN
- C) *Triage: When the rubber meets the road: Who goes first?* – Dr. Mike Christian, Mount Sinai Hospital
- D) *Severe H1N1: Triage and Delivery of Adult Emergency Room Care*
– Dr. Ricardo Lobato de Faria, Seven Oaks General Hospital
- E) *Severe H1N1: Triage and Delivery of Pediatric Out Patient and Emergency Room Care* - Dr. Lynne Warda, The Manitoba Institute of Child Health
- F) *Challenges in Models of Primary Care Delivery* – Dr. Bruce Martin, U of M
- G) *Surveillance: Regional Coordination and Cooperation* – Dr. Lisa Richards, Manitoba Health

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Breakout Sessions

10:30 am – 12:00 pm

East Ballroom

2) Severe H1N1 Research: Critical Questions

Chair: Dr. Mike Drebot, Public Health Agency of Canada

This session will focus on various research themes concerning H1N1 infection and severe disease

- A) Lessons from animal models – Dr. Gary Kobinger, PHAC
- B) Epidemiologic unknowns in H1N1 infection – Dr. Carole Beaudoin, PHAC
- C) Vaccines and Antivirals in the community – Dr. Barb Law, PHAC
- D) Therapeutics of severe H1N1 disease – Dr. Eleanor Fish, University of Toronto

The Fairmont Winnipeg

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Mezzanine Level

