When Reality Kicks in: Crisis Management – SARS in Ontario

Dr. George Pasut Executive Lead, Public Health System Transformation Ontario Ministry of Health and Long-Term Care Toronto, Ontario, Canada



Cette présentation a été effectuée le 26 octobre 2006, au cours du Symposium "Nouvelles technologies de l'information en santé publique : implications sur le terrain" dans le cadre des Journées annuelles de santé publique (JASP) 2006. L'ensemble des présentations est disponible sur le site Web des JASP, à l'adresse http://www.inspq.qc.ca/jasp.

Toronto/Greater Toronto Area

The People

- 50% of population of Ontario
- 56% speak English as their first language
 >100 languages spoken
- Large homeless population: in 1996 26,000 used the shelter system
- The Economics
 - 17% of Canada's jobs
 - 14% of Canada's retail sales

SARS

- Unknown agent
- Uncertain incubation period
- Mode of transmission unclear
- Unknown period of communicability
- No diagnostic test
- No prophylaxis
- No vaccine
- No treatment



SARS in Ontario

- 375 Cases
 - 246 probable
 - 128 suspect
- 61% of cases in Toronto
- 43 deaths
 - 33 in hospital including
 - 1 healthcare worker
- By June 2003, over 7000 people had been in quarantine
 - 65 Medical Officer of Health Orders
 - 1 Court Order





Crisis Management

Crisis:

- An unexpected event that threatens wellbeing
- A significant disruption to normal operations that threaten clients, workers and the public.

Zoonotic Origins

- Suspected to be a disease of animal origin
- Transmission to animal species?
- Transmission between animal species?
- Transmission from animal species to humans in Canada?
- Manifested as "simple" decisions regarding quarantine involving families with pets









Quarantine

Then

- Application of historic infectious disease control intervention in an effort to mitigate transmission
- Legal and ethical issues abound
- Profound level of voluntary compliance
- Now
 - Enhanced efforts to establish interoperable legal frameworks
 - Renewed appreciation of public health ethical issues



Singapore

Risk Management

- Then
 - Reactive decisions responding to new, slowly evolving or rapidly changing circumstances
- Now
 - Better systems in place (communication, decisionmaking, employee health, etc)
 - Business continuity plans for pandemic influenza



Epidemiologic Tools

Then

- Paper files, epidemiology by post-it note,
- 24/7 Teleconferences with people you don't know and can't trust

Now

- Improving integrated information systems but not yet tested in a crisis
- Scalability untested
- We haven't solved the teleconference challenge









Social Change

Then

 Profound societal impacts in countries with and without SARS

Now

 Collective memory is short, lessons are forgotten



Public Safety and Emergency

Preparedness

- Then
 - First known declaration of a provincial emergency for a public health threat
 - Public safety culture vs Public health culture

Now

 Evolution of key positions (e.g., Commissioner of Emergency Management)



International Agencies

Then

Less appreciation for the interaction with international agencies, and repercussions of decisions e.g., travel advisories

Bangkok Post

Canada put on Sars watchlis



Now

 Global implications considered at all levels

Public Health Response

- Then
 - Depleted workforce, no surge capacity, limited mutual aid

 - Case and contact investigation
 - Infection control guidance

 - Emergency preparedness and response
- Now
 - human resource challenges including mutual aid agreements



Mass Media

Then

- Media goals versus public health goals
 - Entertain vs educate
 - Reflect society vs change society
 - Personal concerns vs societal concerns
 - Short term vs long term
 - Two or more viewpoints vs dismissal of unsubstantiated claims
 - Certainty vs acknowledge uncertainty



Public. Provider and Policymaker Education

- Then and Now
 - Communicating to inform
 - Audience
 - Literacy and numeracy
 - Culture and language
 - Channels
 - Communicating uncertainty
 - Communicating to persuade
 - Behaviour change arsenal includes education, marketing, law, policy and regulation



Lessons Learned

Play The Hand You Are Dealt

- Limited human resources
 - Solicit help from other jurisdictions
 - Working quarantine
- Inadequate information gathering/sharing systems
 - Sticky notes
 - Lack of industry-wide distribution list
 - Conference calls
- Silo'd approach to service delivery
 - Public health and hospital interface
 - Reference groups
 - Ontario SARS Scientific Advisory Committee

Play The Hand You Are Dealt

- Declining attention to infection control
 - Directives
 - Standards/guidelines
 - Screening protocols
- Lack of appropriate personal protective equipment
 - Availability
 - Distribution systems in conjunction with hospitals
- Limited emergency management skills in health care system
 - Partner with champions including Emergency Management Ontario
- WHO Travel Advisory
 - advocacy

Celebrate the Successes

- Dedicated individuals working for a common goal
 - Ontario SARS Scientific Advisory Committee
 - Volunteers' leap of faith
 - Front-line health care providers
- Creative thinking
 - Provincial Transfer Authorization Centre (PTAC)
 - Designated Hospital
 - Emergency Medical Assistance Team (EMAT)
 - "Virtual" team
 - Dedicated office to coordinate health emergency management
- Technology
 - CritiCall
 - Fully integrated public health information systems

Celebrate the Successes

- Communication strategy
 - Accessible, transparent, familiar team of spokespersons
 - Important Health Notices
- Compassion
 - Final SARS patient
 - Income stabilization fund
 - Rolling Stones concert
- Infection control
 - Screening
 - Heightened focus
 - Standards/guidelines tailored to setting
- Clarity re roles and responsibilities

Perseverance Required

- Common emergency data set
- Public health renewal
- Local Health Integration Networks
- Regional Infection Control and
- Communicable Disease Networks
- Enhance number of infection control practitioners
- Stockpiles: centralized/de-centralized

Perseverance Required

- Use of private sector to augment distribution system
- Communication priorities: public v health care providers
- Mutual aid agreements with contiguous borders
- Commitments to emergency readiness wane in inverse relationship to time passed
- Address current health care workers' concerns regarding occupational health and safety

