Information Sharing, then and now Lessons Learned from SARS



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Overview

- What is public health?
- SARS: recognition, outbreak
- Rapidly emerging communication and data sharing challenges
- Pre-existing response structure, successes
- Challenges and lessons learned



What is Public Health?

- Concerns the health of the community as a whole (vs. individual patient health)
- The science and practice of protecting and improving the health of a community, through preventative medicine, health education, control of communicable disease, application of sanitary measures, and monitoring of environmental hazards

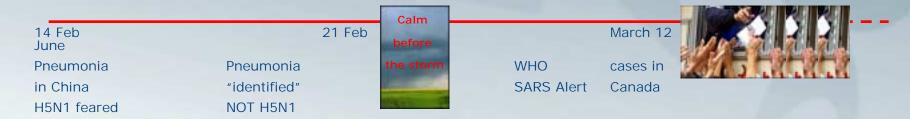


Public Health: routine practices vs. emergency response

- Best practices (surveillance, reporting) under routine conditions
- In emergencies:
 - Established systems may be overwhelmed
 - Increased demands for different and more detailed information (technical, public, political)
 - Deployment of new people and tools



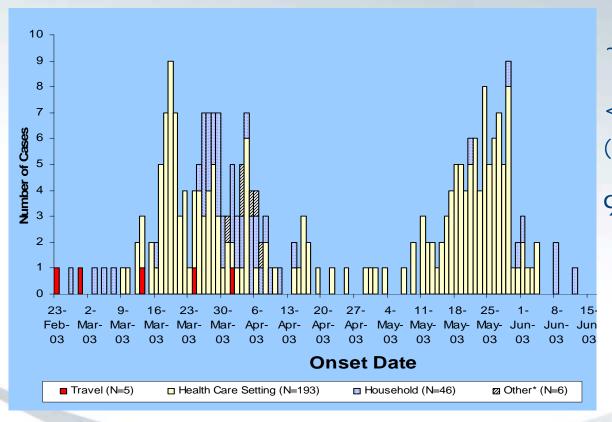
SARS: recognition to outbreak



- 14 –21 February: FluWatch advisory re: outbreak of severe pneumonia in Guangdong, China and H5N1 avian influenza in Hong Kong
- 12 March: WHO global alert re: SARS
- 13 March: Health Canada advised of cases of severe atypical pneumonia in Ontario and BC
- 14 March: First "National SARS teleconference"
- March-June: multiple daily teleconferences (Intergovernmental, FPT, working groups etc.)



SARS 2003 outbreak



~14 weeks Mar-Jun

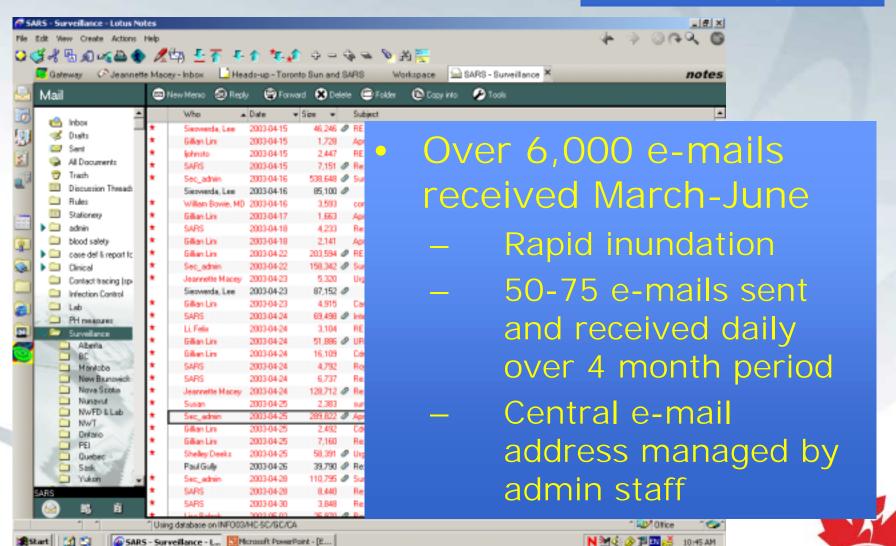
<500 cases (44 fatal) (256 probable/ 187 suspect)

98% in Ontario



SARS: communications! e-mail

SARS@hc-sc.gc.ca



SARS: communications! website



Health

Santé Canada Canada

Severe Acute Respiratory Syndrome

SARS

General Information

For Health Professionals

Canadian Numbers on SARS with Canada and International Summary

Epidemiological Curve

Archive Reports: SARS Cases, Canada and International

Airline Resource Centre

Preliminary Epidemiological Findings

SARS Case Definitions

Laboratory Testing

Canadian Numbers on SARS with Canada and International Summary

- SARS Situation Update and Continuing National S (5 September 2003)
- Archive Reports: 18 June 2003 3 September 200

Epidemiological Curve

SARS Outbreak: Feburary 23 to July 2, 2003 1 Pa

Archive Reports: Severe Acute Respiratory St (SARS) Cases, Canada and International

18 March 2003 to 26 June 2003

Preliminary Epidemiological Findings

SARS Epidemiologic Summaries: April 26, 2003

SARS Case Definitions

SARS Case Definitions (Update - 8 July 2003)

Laboratory Testing

 Recommended Laboratory Investigation of SARS (20 March 2003) www.sars.gc.ca

- Single reference for information, tools and guidelines
- for health professionals
- for public and media



Successes

- Early drafts of the national pandemic influenza response were tested and applied to another emerging infectious disease (unknown aetiology)
- National Pandemic Working Groups applied to SARS
 - Surveillance and epidemiology
 - Laboratory testing
 - Public health measures
 - Vaccines
 - Antivirals
 - Communication
 - Clinical measures



Successes

- Rapid knowledge generation and translation through existing networks for influenza and new partnerships
 - international and national laboratory networks
 - epidemiology and clinical care networks forged
- Use of admin support, central e-mail account and website to manage high demand for information



Issues, what issues?





Lessons Learned: Coordination

- Clear command structure required
 - jurisdictions without well-developed pandemic plans had to create structures immediately to deal with health emergency
- Dedicated team leadership is essential
- Need to strengthen human resource planning and surge capacity in emergency plans
- Advance Planning Group needed



Lessons Learned: Communication

- Pre-established national communications networks worked
 - Need for international communications network
- Establish information sharing processes that permit optimal use of all participants' time
- Human resources needed to translate science (particularly epidemiology) into public information
- Potential for information to become politicized



Lessons Learned: Information sharing

 Pre-establish information sharing networks, agreements and protocols before an emergency

Disseminating information from the national level

- Who to include
- What information is needed; what <u>is</u> & <u>is not</u> wanted
- When is information expected (cut-offs for updates)
- How should different types of information be shared (sensitive vs. non-sensitive, data/information/case definitions/recommendations)

Receiving information from jurisdictions/partners

- Who is responsible for reporting
- What, when and how should information be reported

Contact

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