The Ontario SARS Scientific Advisory Committee

Dr. Dick Zoutman, Chair Dr. Brian Schwartz, Vice-Chair Ontario SARS Scientific Advisory Committee October 1, 2003

OSSAC - Outline

- 1. Chronology
- 2. Composition
- 3. Decision making
- 4. Reporting
- **5.** Evaluation

March 5, 2003

■ 78 yo female who recently visited Hong Kong dies at home

March 7, 2003

Son (index case) transported to hospital by paramedics

March 13, 2003

■ Index case dies; 4 patients with febrile respiratory infection transported from community hospital to tertiary care centres

March 13-25, 2003

■ Further cases recognized to be similar to those in outbreak in South-East Asia

March 25-26, 2003

- Index hospital closed
- **■** Provincial emergency declared
- "Science group" initiated
- Initial directives written

March 27-30, 2003

- Science committee expands
- Issues identified (hospital categories, personal protection, screening)

March 31, 2003

6 members of Science committee sent home on quarantine due to exposure on March 29

April, 2003

- Directives written and distributed
- Crises addressed (eg. community, ICU)
- Administrative support in place
- **■** Rotation of members due to other commitments
- Daily meetings with Commissioners

May 1-16, 2003

- "New normal" directives written, approved and distributed
- OSSAC submits report and disbands

May 25, 2003

- SARS II new reported cases
- OSSAC regroups daily teleconferences and weekly meetings

June - July, 2003

- Active surveillance proposals developed
- **Transitional directives distributed**
- Reporting changed to SARS Operations Centre

August, 2003

New directives developed for non-outbreak and outbreak situations for all sectors

September, 2003

- Drafts sent to reference groups by SOC
- Efforts to reconcile evidence, perceptions and operational realities

October, 2003

- New directives distributed to stakeholders
- "Final" meeting October 15, 2003.

2. Composition

Membership included:

- **Infectious diseases**
- **Public Health**
- **■** Emergency medicine disaster planning
- Occupational Health
- **Family medicine**
- **■** Infection control
- Hospital Administration

2. Composition

Representatives from:

- Public Health Branch of MOHLTC
- Epidemiology group
- Health Canada
- **Provincial/SARS Operations**
- Communications

2. Composition

Guest appearances:

- **Equipment experts**
- Medical experts Critical Care, Primary Care
- Hospital representatives
- Ministers of Health Provincial, Federal

3. Decision Making

- Tasks assigned, or if OSSAC generated, approved by POC/SOC
- Writing done by individuals or small groups
- Informed by existing evidence (data when available, early studies, extrapolation)
- Communication with other stakeholders (FPT public health group, CDC, WHO)

OSSAC Initial Work

Directives

- Review current epidemiology
- Assess implications
- Predict implications
- Listen to the field
- **Talk with POC front line**
 - **Especially MOHLTC SARS Executive Lead**
- Develop best practice policies based on available evidence

Challenges

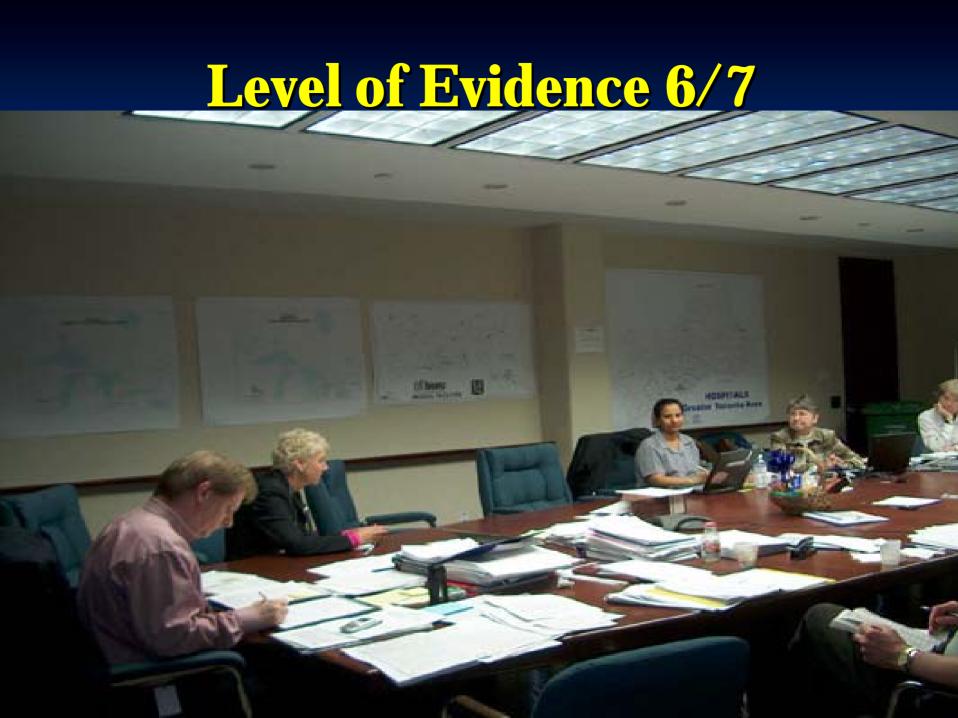
- No test
- No diagnostic criteria
- No idea of clinical course
- No treatment
- No knowledge of disease transmission
- No idea of duration of infectivity

Levels of Evidence

- 1. Positive RCT's
- 2. Neutral RCT's
- 3. Prospective, nonrandom
- 4. Case series
- 5. Animal studies
- 6. Extrapolations
- 7. Rational conjecture

Level of Evidence 1





Best Evidence for SARS

- Expert opinion
- Anecdotal lessons learned
- Extrapolation to other venues

Expert Opinion

- Local
 - > Local Public Health officers
 - > Hospital infection control
 - > Disaster Planning experts
- National
- International

Expert Opinion

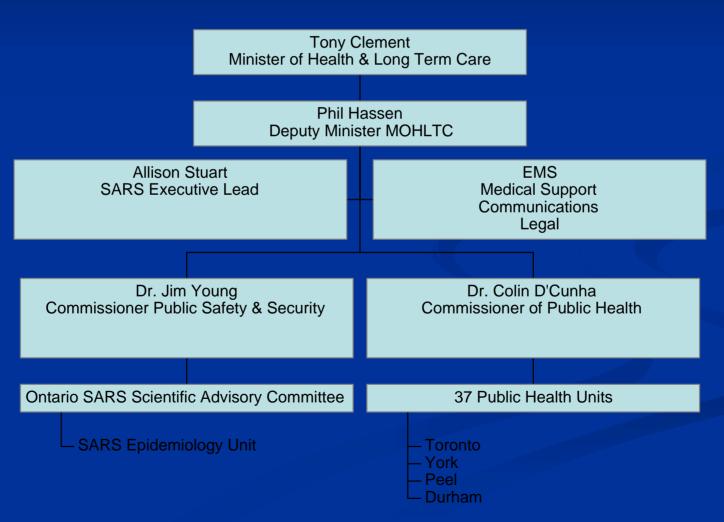
- Local
- National
 - > Health Canada
- International
 - > CDC, WHO

3. Decision Making

- Review by committee
- Sent "upstairs" to operations
- Edits based on reality checks
- Approval by POC/SOC

4. Reporting Structure





4. Reporting

- Chair and Vice-chair members of Executive Committees
- Involvement of members in media
- Advice from individual members and committee on daily issues

4. Reporting

Advice on:

- **■** Communication
- Education
- Hospital issues
- National, international issues
- Operational issues

5. Evaluation

- Strengths
- Challenges
- Recommendations

5. Evaluation - Strengths

Strengths:

- The fact of OSSAC science advising decision makers
- Support of Commissioners and Executive Lead
- Proper size and expertise distribution
- Excellent administrative support

5. Evaluation - Strengths

Strengths:

Reconciling of best evidence available with imperative of the operational emergency

5. Evaluation - Challenges

- Difficulties in accessing data
- Lack of clear terms of reference
- Lack of understanding of levels of authority, eg. accessing data, directing and accessing research
- Communication with stakeholders (eg. facilities, physicians, nurses)

5. Evaluation - Challenges

- Dealing with multiple issues at the same time – directives, education, operations support, media
- Occasional competing agendas

- 1. That science be an integral part of any health emergency response
- 2. That a science advisory body be integrated into the planning component of incident management with a defined terms of reference and reporting structure
- 3. That it be closely aligned with the operations component

- That guidelines for data gathering and management be clear and unambiguous, to allow scientific advisors to make decisions on the best available evidence
- 5. That issues of public health funding and integrated response among municipal, provincial and federal agencies be addressed

That the epidemiological, laboratory and other research be available, subject to ethical and intellectual property considerations, in real time, for use by scientific advisors in planning decisions

- 7. That an Ontario Centre for Infectious Diseases be created, to:
 - Provide surge capacity
 - Distribute capacities across a large province
 - Cooperate with universities in research and training
 - Lead health care-associated infection prevention
 - Monitor province wide surveillance

Thank you.