

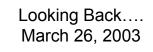


omparing C	Our Coun	tries
Ontario	Canada	Australia
1,076,395 km2	9,984,670 km2	7,741,220 km2
917,741 km2	9,093,507 km2	7,663,808 km2
158,654 km2 (14.8%)	891,163 km2 (8.9%)	77,412 km2 (1%)
12,891,787	33,387,000	21,370,000
13.9 /km ²	3.2/km2	2.6/km2
US\$574.3 billion	US\$1.377 trillion	US\$718.4 billion
US\$42,168	US\$41,102	US\$34,359
	Ontario 1,076,395 km2 917,741 km2 158,654 km2 (14.8%) 12,891,787 13.9 /km ² US\$574.3 billion	1,076,395 km2 9,984,670 km2 917,741 km2 9,093,507 km2 158,654 km2 (14.8%) 891,163 km2 (8.9%) 12,891,787 33,387,000 13.9 /km² 3.2/km2 US\$574.3 billion US\$1.377 trillion

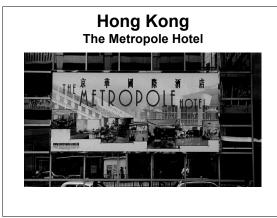
Health Care Systems: Comparison				
Measure	Canada	Australia		
Life Expectancy	80.34	80.62		
Infant Mortality	5.08	4.76		

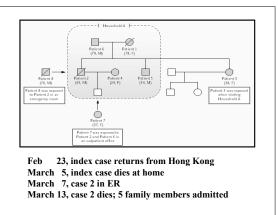
Infant Mortality	5.08	4.76
Physicians	2.1	2.5
Nurses	9.95	10.7
Beds	3.9	7.9
\$ per capita	\$2535	\$2211
% GDP on health	9.4	9.1
Human Dev Index	0.949	0.955

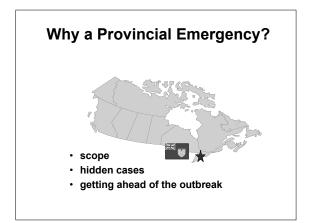




- Ontario's first ever provincial emergency declared
- Unknown etiologic agent
- Acute Respiratory Illness resembling an infectious disease
- Spreading rapidly throughout hospitals



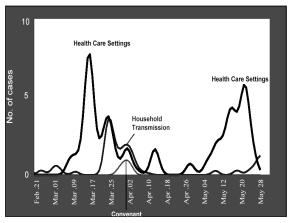




The initial challenge

No name No clear-cut clinical diagnosis No test No idea of clinical course No idea of long term implications Not much idea how it spread When does infectiousness start? When does infectiousness finish? Is there any short term immunity? Is there any long term immunity?





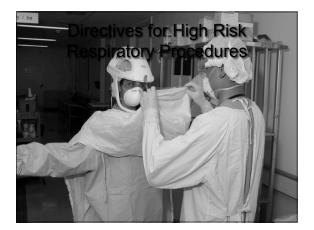
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OSSAC Membership

- Chair and Vice-Chair
- Public Health Physicians
- Infectious Diseases clinicians .
- Infection Control Practitioners •
 - Hospital Epidemiologists
- **Emergency Medicine** . POC Scientist
- Hospital administration Occupational Health

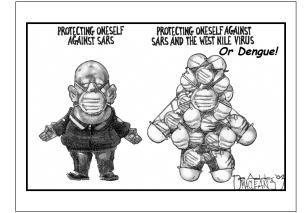
Managing SARS-**Ontario Style** SMS Deserved Tony Clement Minister of Health & Long Term Car Allison Stuart ARS Executive Lea)r. Jim Young sory Con - Hercofte - Marið - Maral - Dunikan - SAIS HyDeniday Unit

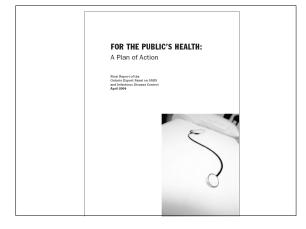






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Key Infection Control Recommendations of the Ontario Expert Panel on SARS and Infectious **Diseases Control (Walker)**

- The report contained 103 recommendations to be implemented over five years.
- Infection Control Training and Staffing
- Expand the availability and accessibility of infection control training/courses for those practicing or intending to practice in infection control
- Enhance infection control training of all healthcare providers at the facility level
- Increase the number of infection control practitioners in acute and longterm care facilities, aiming initially for 1:250 beds

Key Infection Control Recommendations of the Walker Panel - cont'd

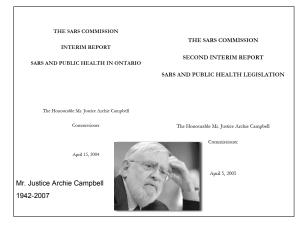
- Provincial Communicable Disease Committee
- · Standing advisory committee should be established together with any necessary subcommittees.
- Mandate to include: develop provincial standards and guidelines develop core indicators for facility-acquired infections, advise on emergency planning and on research priorities.
- · Establish committee web-site to be accessed by healthcare providers and public.
- Initially advisory to the CMOH later to a new Ontario Health Protection and Promotion Agency
- · Broad membership representing key disciplines and areas of health care.
- · Linked to new regional networks for infection control

Key Infection Control Recommendations of the Walker Panel - cont'd

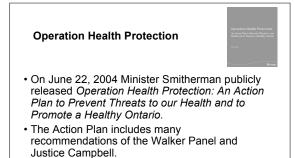
Regional Infection Control Networks

- · Province-wide networks to be established on a regional basis
- Membership to include hospitals, long-term care, public health units, laboratories and others
- · Will facilitate and enhance coordination of infection control activities on a regional basis including: implementation of standards and guidelines; surveillance; access to human resource capacity and expertise

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	SARS COMMISSION Français
lome	About Commission Staff Hearings Mandate Transcripts Media FAQs Feedback
	(R)
	Update April 11, 2005
	The Second Interim Report of the Independent SARS Commission was released today by the Minister of Health and Long-Term Care. It was transmitted to the Minister by Mr. Justice Archie Campbell, the Commissioner of the Independent SARS Commission, on April 6, 2006.
	The Report deals with SARS and Public Health Legislation.
	The SARS Commission's first Interim Report: <u>SARS and Public Health in Ontario</u> , dated April 15, 2004 was released by the Minister of Health April 20, 2004.
	About the Commission
	About the Commission
	The independent Commission to Investigate the Introduction and Spread of Severe Acute Respiratory Syndrome (SARS) was established by the Government of Ontario as an Investigation under section 78 of the Health Protection and Promotion Act. Mr. Justice
	Archie Campbell of the Ontario Superior Court of Justice was appointed Commissioner. For more details click here.
	Arche Campbell of the Ontario Superior Court of Justice was appointed Commissioner. For more details click <u>here</u> . Mandate



From the SARS Commission: • "Public health must invest in the scientific and professional capacity necessary both locally and provincially to provide meaningful expertise and advice to health care facilities and institutions. For long-term issues, protocols, policies and directives, the province have and be advised to health the multi-disciplinary approach and wide spectrum of expertise, to play the role of advisor and expert. But no advisory committee can supply the operational resources required to respond to immediate problems in the field that require speedy used and intervention."



• It will be be rolled out over the next 3 years.

Operation Health Protection - Strategic Priorities

- I. Creation of a Health Protection and Promotion Agency
- II. Public Health Renewal
- III. Health Emergency Management
- IV. Infection Control and Communicable Disease Capacity
- V. Health Human Resources
- VI. Infrastructure for Health System Preparedness

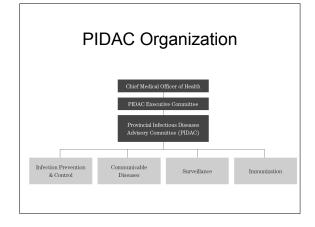
Key Infection Control Recommendations of the Walker Panel – cont'd

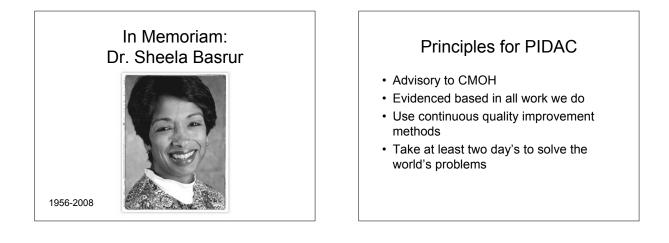
Facility Design

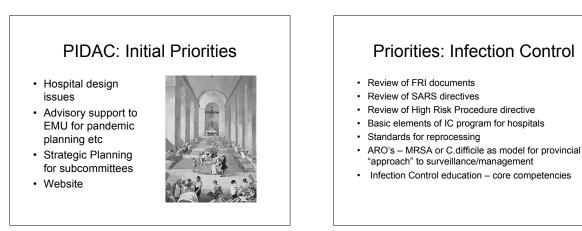
- Standards and guidelines relevant to infection control required to be developed through the Provincial Communicable Disease Committee and used to guide a needs assessment for negative pressure and isolation rooms
- Identification of physical plant barriers to effective infection control and develop multi-year plan for their removal
- Dedicated fund of one-time costs to address facility remediation requirements prioritized on the basis of criteria established through the Provincial Communicable Disease Committee

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IDAC: Peopl	le and Produ
	Best Practice Manuals
Committee Members	Cleaning, Disinfection and Sterilization
Terms of Reference Committee PIDAC Subcommittees Communicable Diseases Immunization Infection Control Surveillance	Clostridium difficile Febrile Respiratory lines English French [PDF] Infection Provention and Control Programs in Ontario Hand Hygiene Infection Prevention and Control of Resistant Staphylococcus aureus and Enterococci Surveillance de Health Care-Associated Health Care-Associated







Priorities: Surveillance

- Review of FRI documents
- Review of SARS directives
- Surveillance for C. difficile
- Scan/overview of existing/pending surveillance systems

Priorities: Vaccines

- Assessment of the suitability of newly licensed vaccines for the Ontario publicly funded immunization program
- Education of healthcare workers on immunization issues
- Vaccine schedules
- · Recommendations for adult vaccine priorities
- Enhanced surveillance and reporting VPDs e.g.
- varicella, pneumococcusMaximizing uptake of vaccines

Public Health Renewal: Progress to Date

Chief Medical Officer of Health Independence

 Bill amending the Health Protection and Promotion Act to increase independence of CMOH introduced on October 14, 2004

Local Public Health Capacity Review

To be guided by a Local Public Health Capacity Review Committee
 Will be opportunity for stakeholder input

Communicable Disease Positions

Funding for 180 full-time communicable disease positions within public health units

Infection Control and Communicable Disease Capacity: PIDAC – cont'd

Full PIDAC membership in place Fall 2004

· Mandate includes:

- Review and develop standards and guidelines for application across Ontario – work on document relevant to *C.difficile* complete
- Develop core indicators for facility-acquired infections
- Advise on immunization programs
- Advise on emergency preparedness for an outbreak
- Advise on infection control education

Advise on research priorities

Infection Control and Communicable Disease Capacity: Regional Networks

- Regional networks for infection control to be phased in to coordinate infection control activities across and through all parts of the healthcare system
- Strategic framework and core deliverables for all networks being developed upon the advice and guidance of PIDAC
- Three initial networks to be established in 2004/05
- Based upon an evaluation of and lesson learned from the three initial networks, province-wide implementation of networks to take place by 2006/07
- Boundaries of networks will be informed by the LHIN process

Infection Control and Communicable Disease Capacity: Education

- Web-based Infection Control Education at Queen's University and Centennial College
- Core competencies in infection control for all healthcare workers being developed and validated – to be used as a platform upon which to build multi-modality educational tools and programs
- Review of university and college healthcare program curricula to determine infection control content to be initiated Fall 2004

Infection Control and Communicable Disease Capacity: Infection Control Practitioners

- Increased number of full-time positions for infection control practitioners within hospitals
- Targeted funding
- Primary goal to achieve 1 practitioner per 250 beds and then....

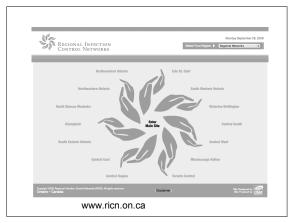
Infrastructure for Health System Preparedness

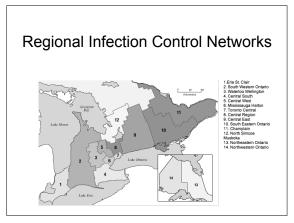
- Goal is to modernize Ontario's processes for collecting and analyzing information related to infectious diseases, and for delivering timely information to healthcare providers and to the public as required
- Implementation of the integrated Public Health Information System (IPHIS) to begin in 2004/05 - will support provincial communicable disease surveillance and outbreak management within public health units, including contact tracing and quarantine management
- Development of comprehensive IT tools and infrastructure to deliver necessary information to healthcare providers and the public on matters of public health during an emergency and on a day-to-day basis underway – known as the PHIIT strategy

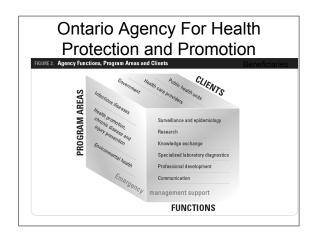




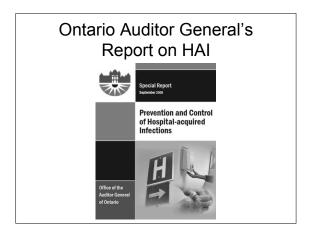


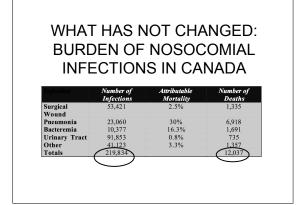






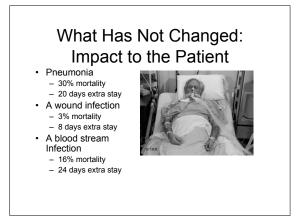
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Patient Safety Indicat	or Reporting: C	omparison by Hospital	Туре	
purposes, hospitals sites that are no the fist are least likely to be similar.	Aug 01 - Aug 31 200	vited for the reporting period. So for con closely grouped in the list while those	father apart in	
Hospital Type	Acute Teaching			
Indicator		Associated Disease (CDAD)		
			1	
Hospital Site Name	Location	Rate (per 1,000 patient days)	Trend	
Ottawa Hospital - General Campus	OTTAWA	0.51	Trend	
Sunnybrook Health Sciences Centre	TORONTO	0.81	Trend	
Ottawa Hospital - Civic Campus	OTTAWA	0.77	Trend	
St Joseph's Health Care System-Hamilton	HAMILTON	0.90	Trend	
	TORONTO	0.34	Trend	
St Michael's Hospital	LONDON	0.60	Trend	
Victoria Hospital - LONDON HEALTH SCIENCES CENTRE				
Victoria Hospital - LONDON HEALTH SCIENCES CENTRE Kingston General Hospital	KINGSTON	0.60	Trend	
Victoria Hospital - LDNDON HEALTH SCIENCES CENTRE Kingston General Hospital Thunder Bay Regional Health Sciences Centre	THUNDER BAY	0.20	Trend	
Victoria Hospital - LONDON HEALTH SCIENCES CENTRE Kingston General Hospital Trunder Bay Regional Health				
Victoria Mogatal - LENCON HEALTH SCIENCES CENTRE Kingaton General Hospital Thurder Bay Regional Health Sciences Centre Toronto General Hospital Site University Hospital - LONDON HEALTH SCIENCES CENTRE	THUNDER BAY TORONTO LONDON	0.28 0.28 0.70	Trend Trend Trend	
Victoria Hospital - LONDON NEALTH SCIENCES CENTRE Kingston General Hospital Thurder Bay Regional Hospital Sciences Centre Toronto General Hospital Site University Hospital Site	THUNDER BAY	0.28	Trend Trend	
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What Has Not Changed: Impact on Health Care Costs

	Rate per 100 adm	No. Infections per Year	Extra Days per Case	Extra Bed Days/Yr	Cost per Infection	Cost per Year ⁵ 5000,000
Surgical Wound	1.39	53,421	8.2	438,052	\$8,200	\$438
Pneumonia	0.60	23,060	20.0	461,200	\$20,000	\$460
Bacteremia	0.27	10,377	24.0	249,048	\$24,000	\$250
Urinary	2.39	91,853	2.4	220,447	\$2,400	\$220
Other	1.07	41,123	4.8	197,390	\$4,800	\$197
Total		219,834		1,566,137		\$1,565



What Has Changed

- High level Global and National Focus on Infection Prevention and Control
- Provincial Programs in Infection Prevention and Control
 - Eg. Ontario Provincial Infectious Diseases Advisory Committees (PIDAC)
 - Québec mandating Infection Control Practitioner numbers
 - Many other examples

What Is Changing

- Recognition of where expertise lies
 CHICA-Canada
 - Academia
 - Medical Microbiologists, Infectious Diseases specialists, epidemiologists etc

What Is Changing

- · Coordination of efforts
- Strategic Partnership between:
 - CHICA-Canada
 - Canadian Patient Safety Institute (CPSI)
 - Canadian Council on Health Services Accreditation (CCHSA)--- Now Accreditation Canada
 - Public Health Agency of Canada (PHAC)
- To coordinate activities aimed at infection prevention and control

Gee Bill, thanks for the \$20 for MRSA research!



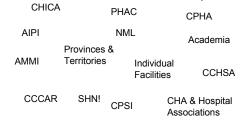
What Needs To Change

- · Lack of Research
 - Poor to nonexistent funding for translational and applied research in infection prevention
- Huge knowledge gaps

 Eg. Do N95 Respirators really protect against infections? Do surgical masks? Which is better?
 - What is best surgical pre-operative preparation of the patient's surgical site?
 - Reservoirs of and best methods to kill C. difficile

Infectious Diseases In Canada

Industry



What Needs To Change

- · Integrated Surveillance across Canada
- Practitioner to Region to Province to Nation to Global
- Global to Nation to Province to Region to Practitioner
- Health Practitioners out of the loop yet this is the point of infection transmission
- · Feed back is powerful

Canadian Nosocomial Infectious Diseases Surveillance Program (CNISP)

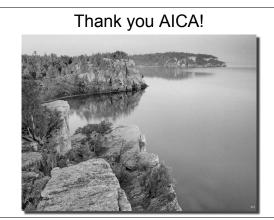
- Control Vacoura Vancha Novellano Paga Program canada di Anardia di Anardia Bios facontario di Anardia Bios facontario Bios facontario Control Paga Bios facontari
- Established 1994
 Focused on Nosocomial Infections
- Terrific example of national collaboration of government & field experts
- Excellent work to date
- Severely under resourced however
- High potential



- Community & Hospital Infection Control Association - Canada (CHICA)
- a multidisciplinary, professional organization for those engaged in the prevention and control of infections
- CHICA has approx 1500 members across Canada
- www.chica.org

CHICA's Mission

- CHICA-Canada is committed to improving the health of Canadians
 - by promoting excellence in the practice of infection prevention and control
 - by employing evidence based practice and application of epidemiological principles.
- This is accomplished through education, communication, standards, research and consumer awareness.



THE NEX	T FEW TELECLASSES
20 Oct. 08	(South Pacific Teleclass) Biofilms - When Bugs Get Clingy Speaker: Dr. David Hammer, Canterbury District Health Board
23 Oct. 08	Health Care Facility Maintenance for Infection Control Speaker: Andy Streifel, University of Minnesota
30 Oct. 08	LTC - How Maryland Increased ICP Presence in Long Term Care Facilities Speaker: Dr. Brenda Roup, Maryland Department of Health and Mental Health
Teleclass sponsored by Virox Technologies 11 Nov. 08 www.virox.com	(British Teleclass) Clostridium difficile - Prevention is Better Than Qure Speaker: Prof Mark Wilcox, University of Leeds
20 Nov. 08	Managing Indoor Air & Water Systems for Infection Control & Prevention Speaker: Andrew Striefel, University of Minnesota
4 Dec. 08	Halting the Spread of MRSA Between Acute Care Facilities and Long Term Care Facilities Speaker: TBA
www.web	obertraining.com.schedulep1.php