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Project for an Ontario Women's Health Evidence-Based Report

A Tool for Monitoring and Improvement

The Project for an Ontario Women's Health Evidence-Based Report (POWER) will serve as a tool to help policymakers and providers to improve the health of and reduce inequities among the women of Ontario.



Uses for POWER Study

- Priority Setting
- Building the Evidence Base
- Informing Practice and Policy
- Tool for Improvement
- Integrating Equity into Planning and Quality Improvement



Stakeholder Consultations

- Power Study Roundtables
- Consumers: representatives of community based groups and associations
- Providers: clinicians, government, health data agencies, LHINs, CHCs, CCACs
- Range of areas and interests
 - Especially cancer, cardiovascular, and depression
 - Some representation from outside GTA



Ontario Women's Health Equity Report

Volume 1

- Burden of Illness
- Cancer
- Depression
- Cardiovascular disease
- Access to Health Care
- Conclusions and Policy Implications

Volume 2

- Diabetes
- HIV Infection
- Musculoskeletal Disorders (arthritis, osteoporosis)
- Reproductive and Gynecological Health
- Special Populations (low income, immigrant and older women)
- Social Determinants of Health

Interactive data cube



Measuring and Monitoring Gender Differences in Cancer Indicators

Women and men have very different:

- Patterns of illness, morbidity, and mortality
- Social contexts
- Experiences with health care

Health inequities among women associated with:

- Socioeconomic position
- Age
- Geography





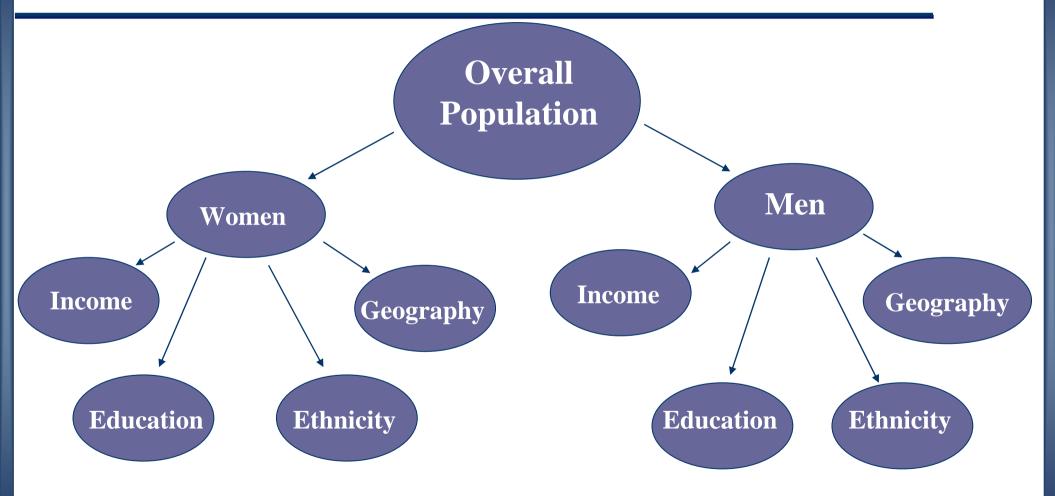


Women's Health Reporting: Developing a New Model

- The Ontario Women's Health Equity Report can serve as a model for
 - incorporating gender and equity as an integral component of improvement efforts;
 - focusing on the need to integrate efforts to improve population health and health care services;
 - building upon evidence-based analyses to provide new information on factors and pathways contributing to gender and socioeconomic differences in health outcomes.



Assessing Equity





Health Indicator Measurement and Reporting: A Tool to Drive Change

Health indicator measurement and reporting provide essential tools for informing and monitoring efforts to:

- Improve population health
- Improve access to quality and outcomes of health care services
- Reduce inequities in health and health care



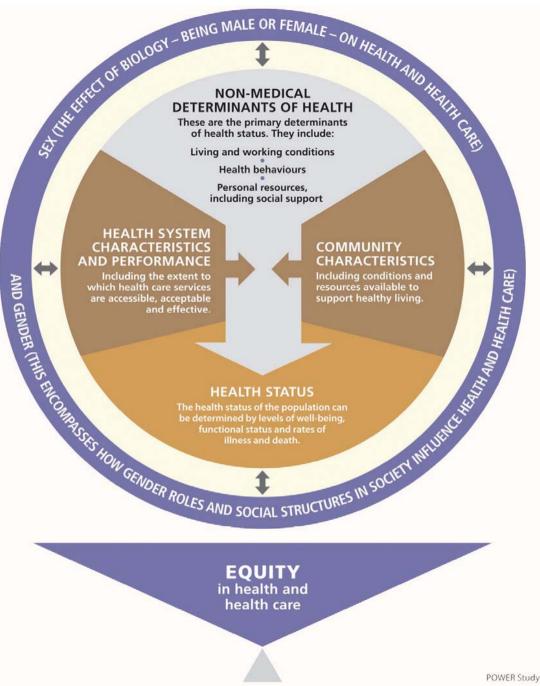
Effecting Change . . .

- Reporting by itself does not result in improvement.
- For performance measurement and reporting to result in change it needs to be evidencebased, strategy driven, linked to a commitment for change by health system leaders and providers, and mechanisms for accountability.



 POWER Study Women's Health Equity Framework





POWER Study Gender and **Equity** Health Indicator Framework



Cancer Chapter Framework

- Developed by members of the Cancer Working Group
- Include major causes of cancer-related morbidity and mortality in women including:
 - Women-specific tumours: breast, ovarian, cervix and endometrial
 - Non-gender specific tumours: lung and colorectal
- Cover continuum of care from prevention through endof-life care
- Process and outcome measures eligible provided feasible to calculate from administrative data available in Ontario



Process for Indicator Selection

Framework for cancer chapter developed by working group

Literature review to identify candidate indicators

No. of indicators identified from literature:

427

Short-listing of candidate indicators by working group members with respect to importance and feasibility of measurement using admin data

No. of indicators presented to TEP:

47

Technical expert panel (TEP)

No. of indicators selected by panel:

31

Analysis with stratification by sex, income & age



Cancer Chapter Indicators

- General Indicators (3 indicators)
- Screening Indicators (5 indicators)
- Colorectal Cancer (4 indicators)
- Lung Cancer (3 indicators)
- Breast Cancer (5 indicators)
- Gynecological Cancers (4 indicators)
- End of Life Care (5 indicators)



Data Sources

Most recently available data (2003-2005) from:

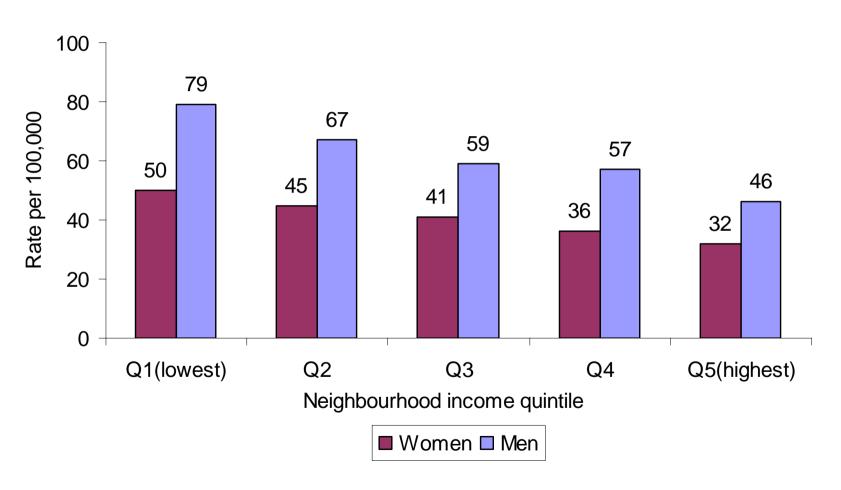
- Ontario Cancer Registry
- Registered Persons Database
- Ontario Health Insurance Plan Database
- Canadian Institutes of Health Information Database
- CytoBase
- Ontario Breast Cancer Screening Program
- National Ambulatory Care Reporting System
- Ontario Home Care Administrative System

All analyses stratified by sex, age, income and region sample size permitting

■ Income matters when it comes to cancer incidence, survival and screening but is generally not an important factor in cancer treatment.



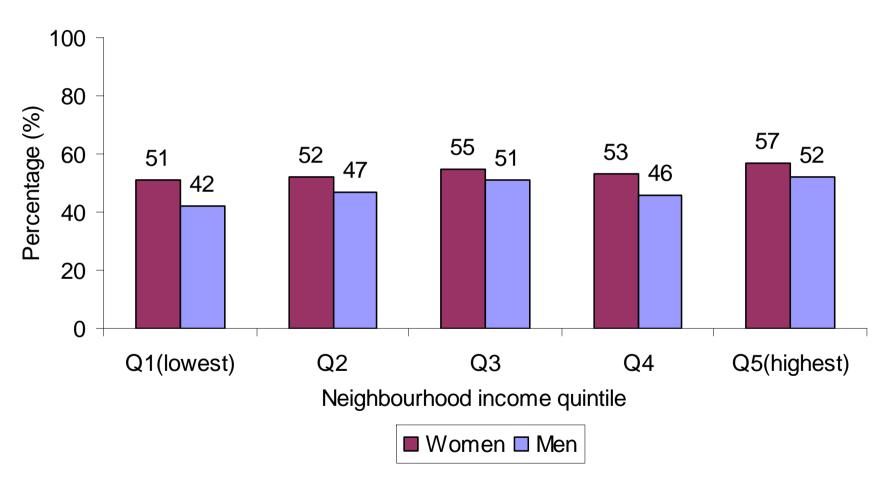
Age-standardized incidence of lung cancer per 100,000 population, by sex and neighbourhood income quintile, 2004/05



Data sources: Ontario Cancer Registry (OCR); Registered Persons Database (RPDB); Statistics Canada 2001 Census



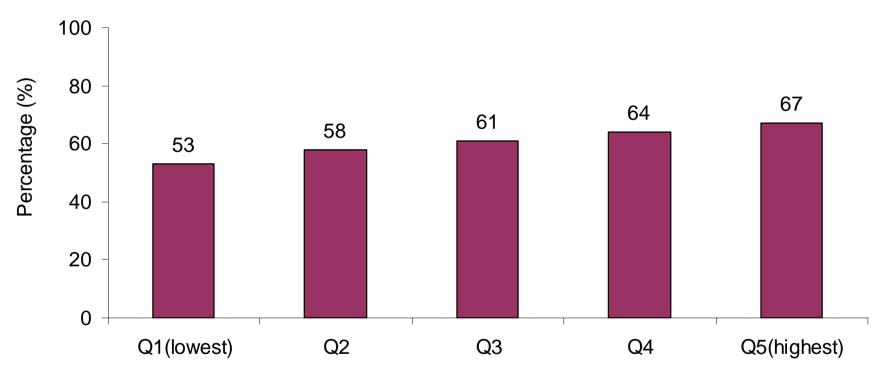
Age-standardized five-year survival rate (percentage) among patients with colorectal cancer, by sex and neighbourhood income quintile^







Age-standardized percentage of screen-eligible women who had a mammogram in the last two years, by neighbourhood income quintile, 2005/06



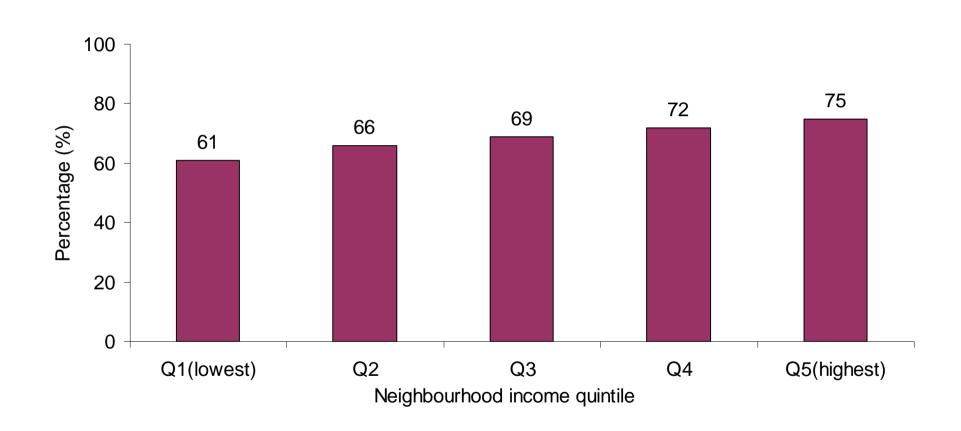
Neighbourhood income quintile

Data sources: Ontario Breast Screening Program (OBSP); OCR; Ontario Health Insurance Plan (OHIP); RPDB; Statistics Canada 2001 Census

^Women aged 50-69 with no history of breast cancer

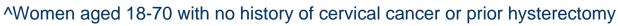


Age-standardized percentage of screen-eligible women who had at least one Pap test in the last three years, by neighbourhood income quintile, 2004/05



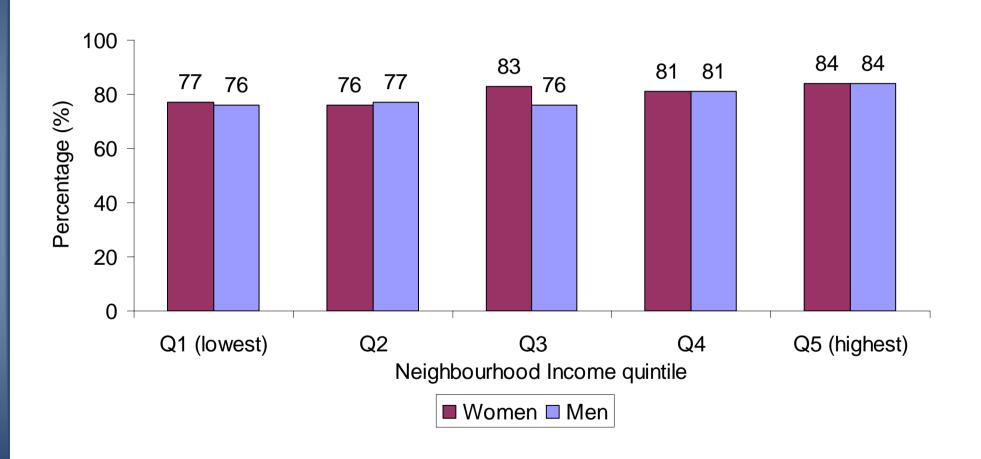
Data sources: CytoBase; OCR; OHIP; RPDB; Canadian Institute for Health Information

Discharge Abstracts Database (CIHI-DAD); Statistics Canada 2001 Census





Age-standardized percentage of colorectal cancer patients who received follow-up colonoscopy within 36 months following surgery, by sex and neighbourhood income quintile, 2002/03 to 2003/04

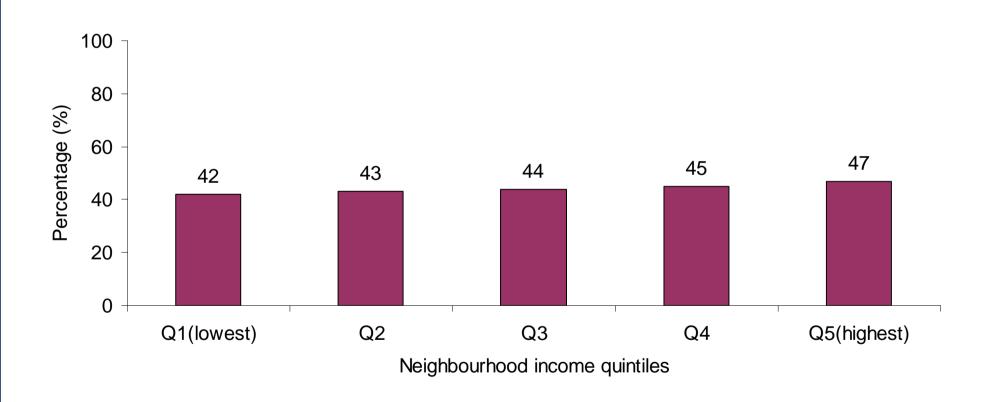




■ Follow-up of abnormal or inadequate Pap screening results was suboptimal.



Age-standardized percentage of women who had a Pap test that showed a low grade lesion who had a repeat Pap test or colposcopy within 6 months of the initial abnormal test, by neighbourhood income quintile, 2004/05



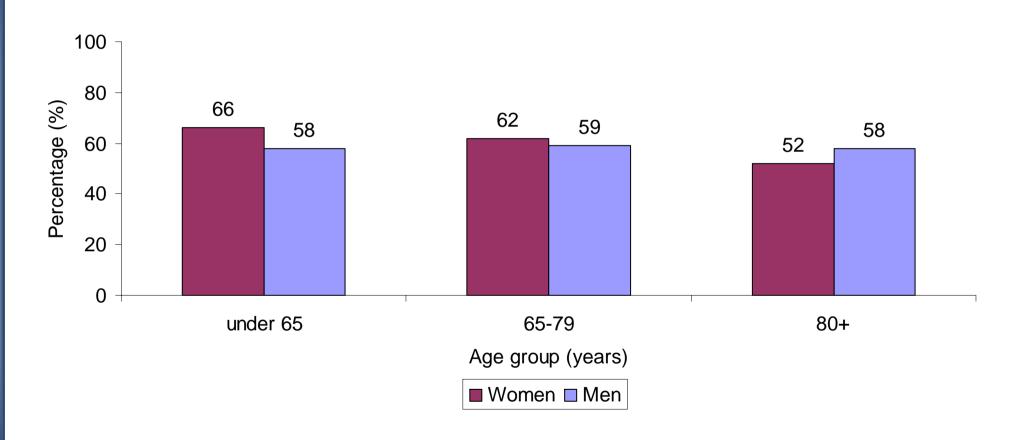
Data sources: CytoBase; OCR; OHIP; RPDB; CIHI-DAD; Statistics Canada 2001Census ^Atypical squamous cells of undetermined significance (ASCUS) or low-grade squamous intraepithelial lesion (LGSIL)



■ Some sex differences exist but these are not pronounced.



Percentage of patients with rectal cancer who received a sphincter-sparing procedure at the time of surgery, by sex and age, 2002/03 to 2003/04

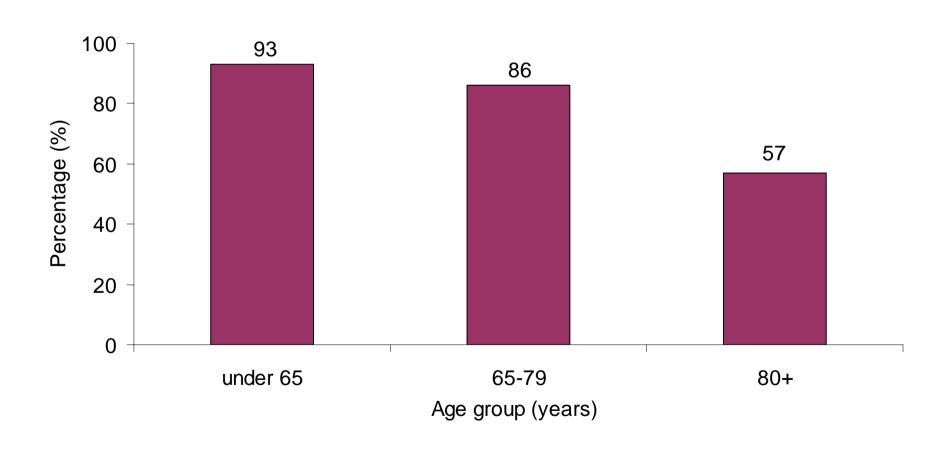




Age is an extremely important determinant of treatment.

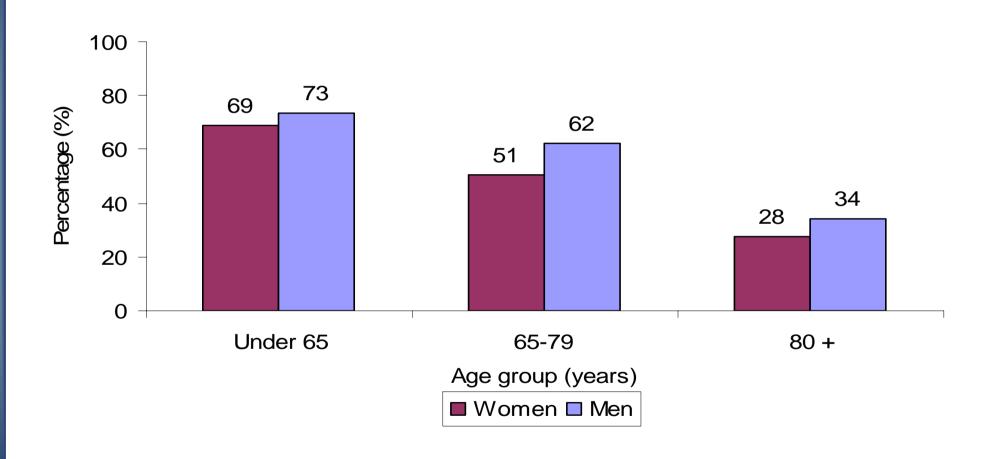


Percentage of women who had breast cancer surgery who had an axillary lymph node dissection, by age, 2003/04 to 2004/05



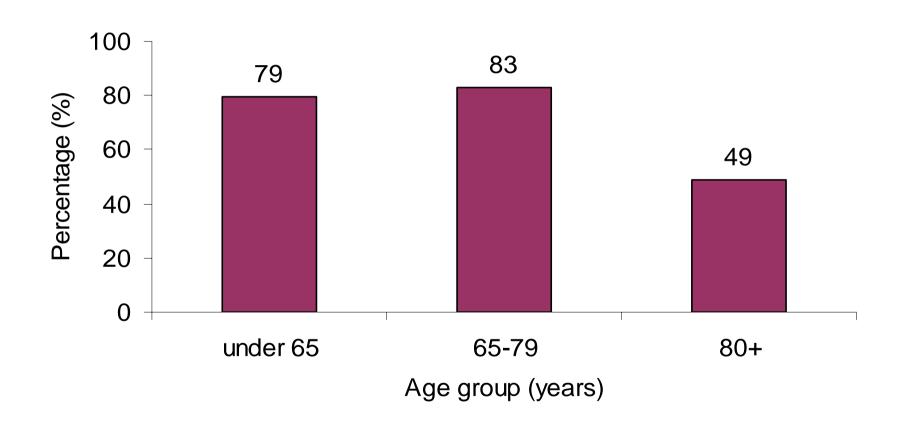


Percentage of patients who underwent surgery for rectal cancer who had a consultation with a radiation oncologist within six months of diagnosis, by sex and age, 2002/03 to 2003/04





Percentage of women with ovarian cancer who received postoperative chemotherapy within four months after surgery, by age, 2003/04 to 2004/05

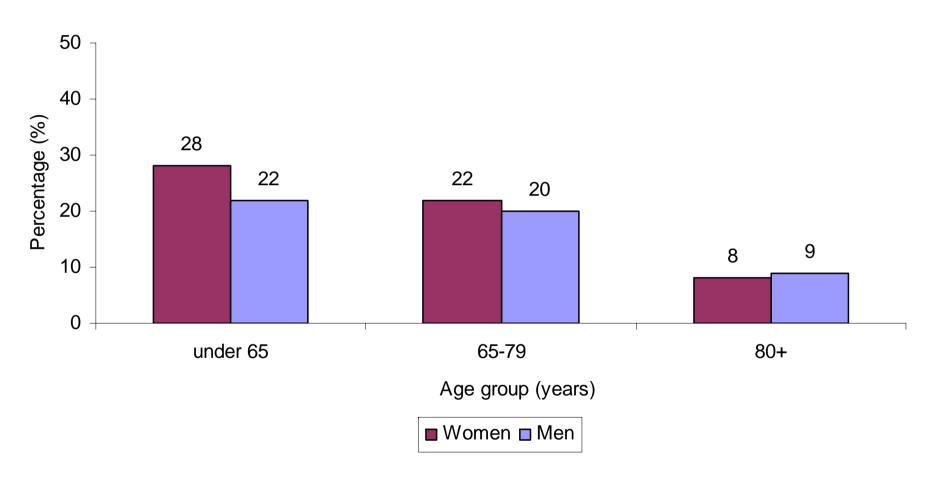




Lung cancer places a heavy burden on the population and the healthcare system and outcomes for lung cancer are especially poor.

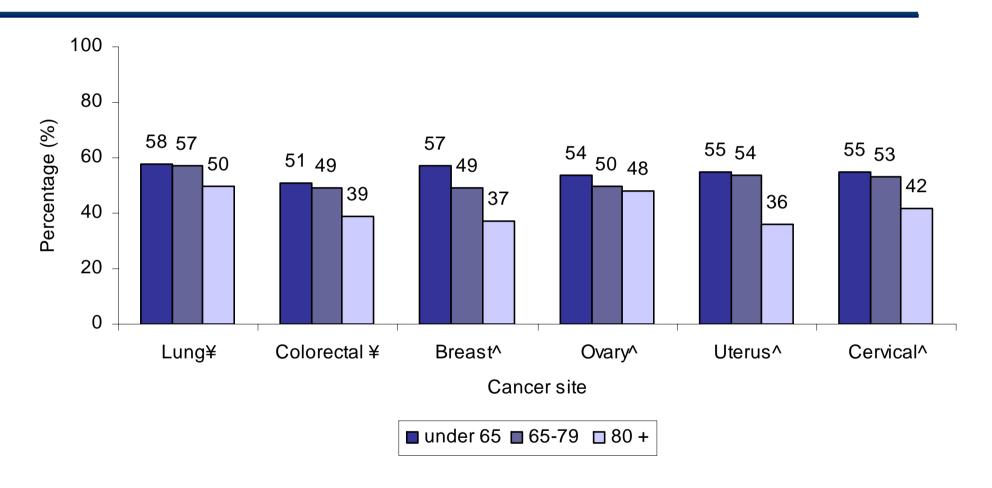


Percentage of patients with non-small cell lung cancer who underwent lung resection, by sex and age, 2003/04 to 2004/05





Percentage of patients with cancer who died in acute care beds, by age and cancer site, 2003 to 2004

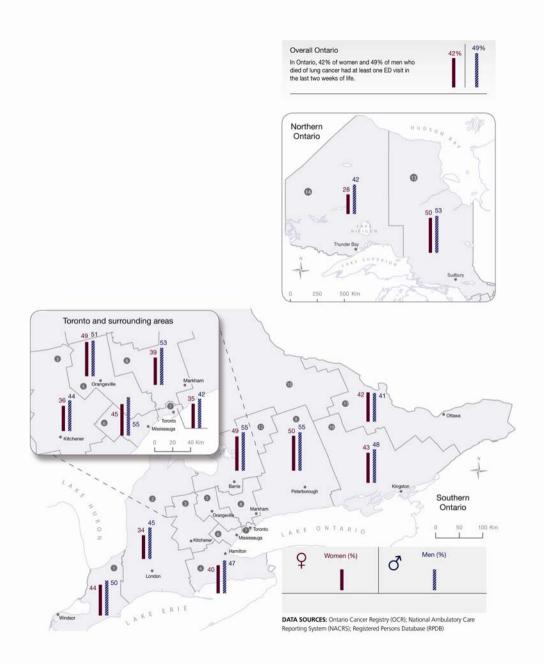


Data sources: OCR; CIHI-DAD; RPDB

¥ Rates are in women and men

^ Rates are in women only

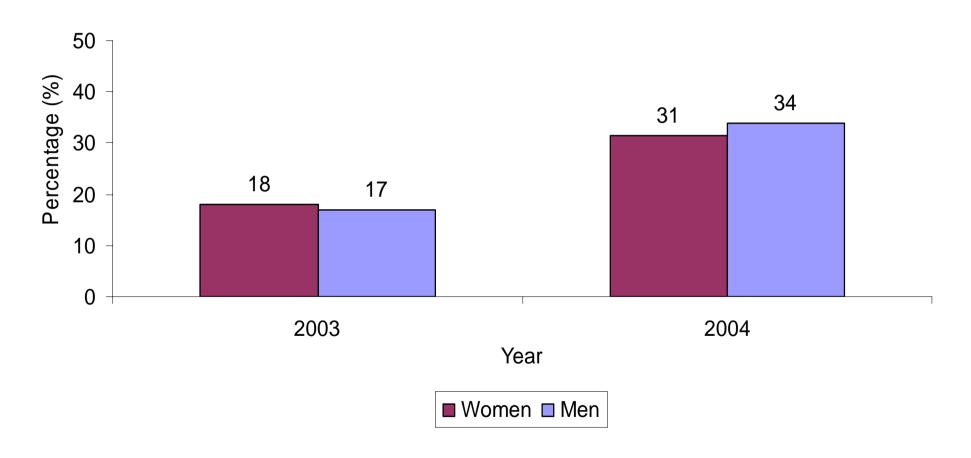




Age-standardized percentage of patients who died of lung cancer who had at least one emergency department visit in the last two weeks of life, by sex and LHIN



Percentage of non-small cell lung cancer patients who received chemotherapy within six months after surgery, by sex and year, 2003/04 to 2004/05



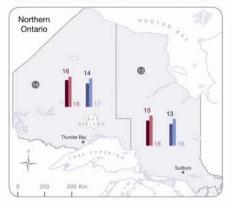


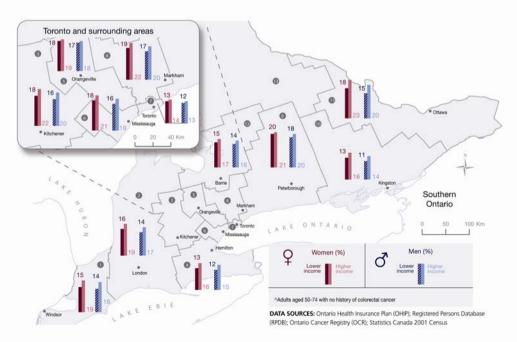
■ Where you live in Ontario affects many aspects of cancer care.





Note: See Appendix 4.3 for details about neighbourhood income quintile calculation

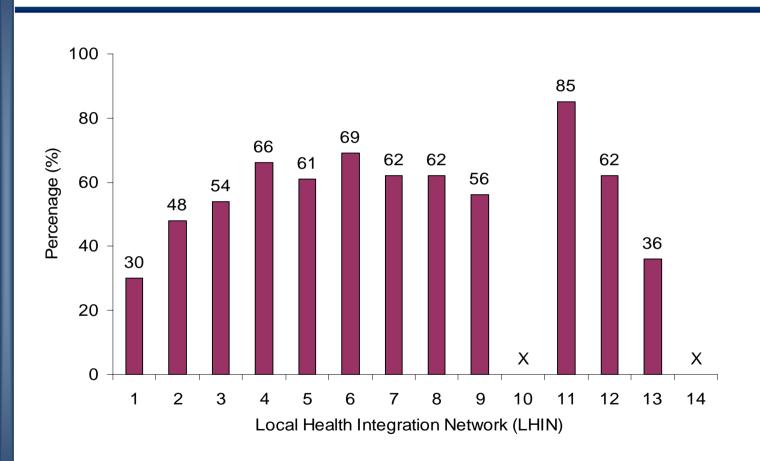




Age-standardized percentage of screen eligible adults who received one or more fecal occult blood tests (FOBT) in the last two years, by sex, neighbourhood income and LHIN



Age-standardized percentage of women who underwent primary ovarian cancer surgery by a gynecologic oncologist, by LHIN, 2003/04 to 2004/05



LHIN

- 1. Erie St. Clair
- 2. South West
- 3. Waterloo Wellington
- 4. Hamilton Niagara Haldimand Brant
- 5. Central West
- 6. Mississauga Halton
- 7. Toronto Central
- 8. Central
- 9. Central East
- 10. South East
- 11. Champlain
- 12. North Simcoe Muskoka
- 13. North East
- 14. North West

Data sources: OCR; CIHI-DAD; OHIP; RPDB; IPDB X Data not shown due to small sample size



Study Limitations

- Data sources created for administrative purposes not research
- Lack of precise staging data and data on patient preferences
- Limited data on outcomes
- Data timeliness
- Ecologic level SES variable



Conclusions

- Cancer screening rates in Ontario remain below target and are especially low in low-income communities
- Follow-up of abnormal Pap tests is suboptimal
- It is important to look at differences in care between subgroups of individuals:
 - Income is an important determinant of screening, but is generally less important when it comes to treatment
 - Some sex differences in care were observed, but these were not pronounced
 - Age is the most consistent determinant of cancer treatment
 - Where you live also matters



Driving Improvement and Equity

- Reduce Cancer-Related Health Inequities by Focusing on Prevention and Screening
- Screening Programs are Not Enough: A System for Ensuring Follow-up of Abnormal Screening Tests is Necessary
- Address the Unique Needs of an Aging Population in Cancer Care Delivery
- Focus on Prevention and End of Life Issues for Lung Cancer as Prognosis is Poor and Much Lung Cancer is Preventable
- Improve Quality, Availability and Timeliness of Data to Asess Cancer and Cancer Care in the Province
- Routinely Include Gender and Equity Analysis in Health Indicator Monitoring

Targets for Intervention

- Interventions:
 - Patient Level
 - Practice Level
 - Health System Level
 - Community Level
- Partnerships with Human Service Providers and Community based Organizations
- Quality Improvement-Target and Monitor Disparities
- Advocacy for Policy and Cross-Sectoral Partnerships to Address Social Determinants of Health



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Improving Women's Health in Ontario

Pour l'amélioration de la santé des Ontariennes

ST. MICHAEL'S HOSPITAL
A teaching hospital affiliated with the University of Toronto





