

Cardiovascular Disease

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

A Tool for Monitoring and Improvement

The **P**roject for an **O**ntario **W**omen's Health **E**vidence-Based **R**eport (**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

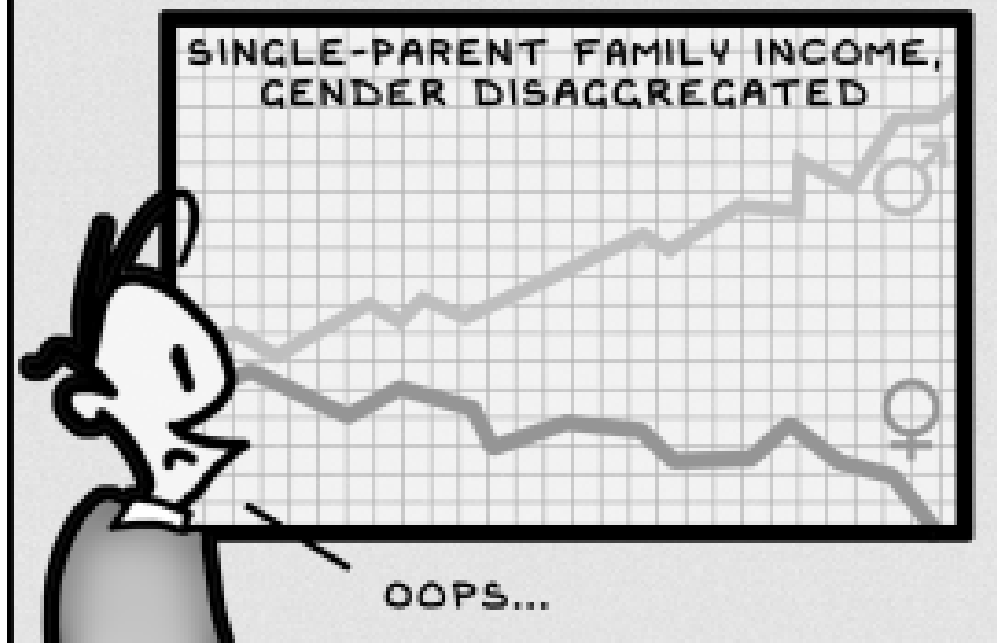
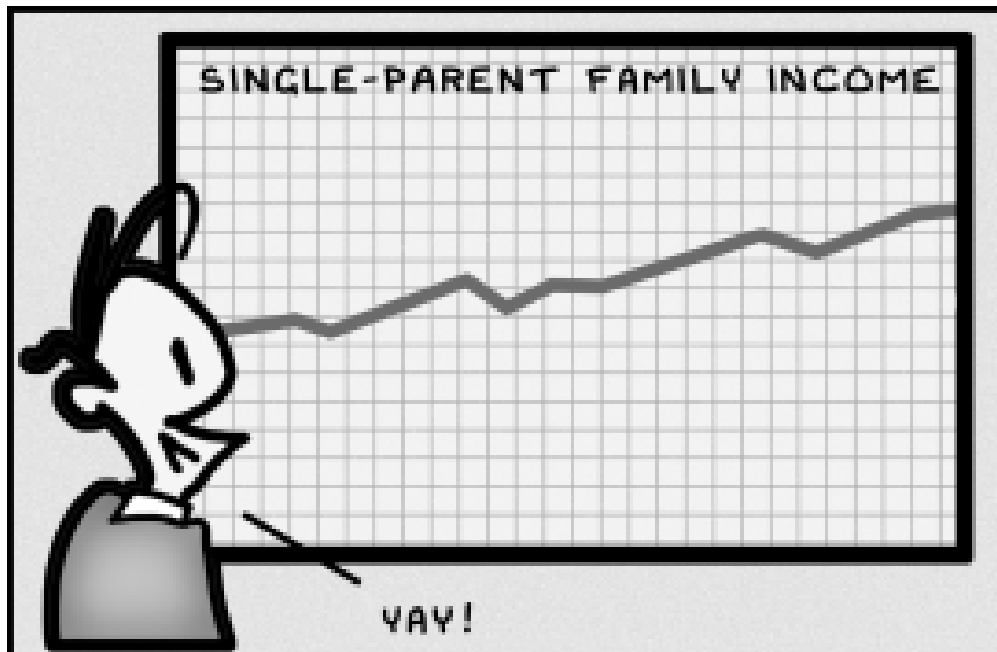
Measuring and Monitoring Gender Differences in CVD Indicators

Women and men have very different:

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

Health inequities among women associated with:

- Socioeconomic position
- Age
- Geography

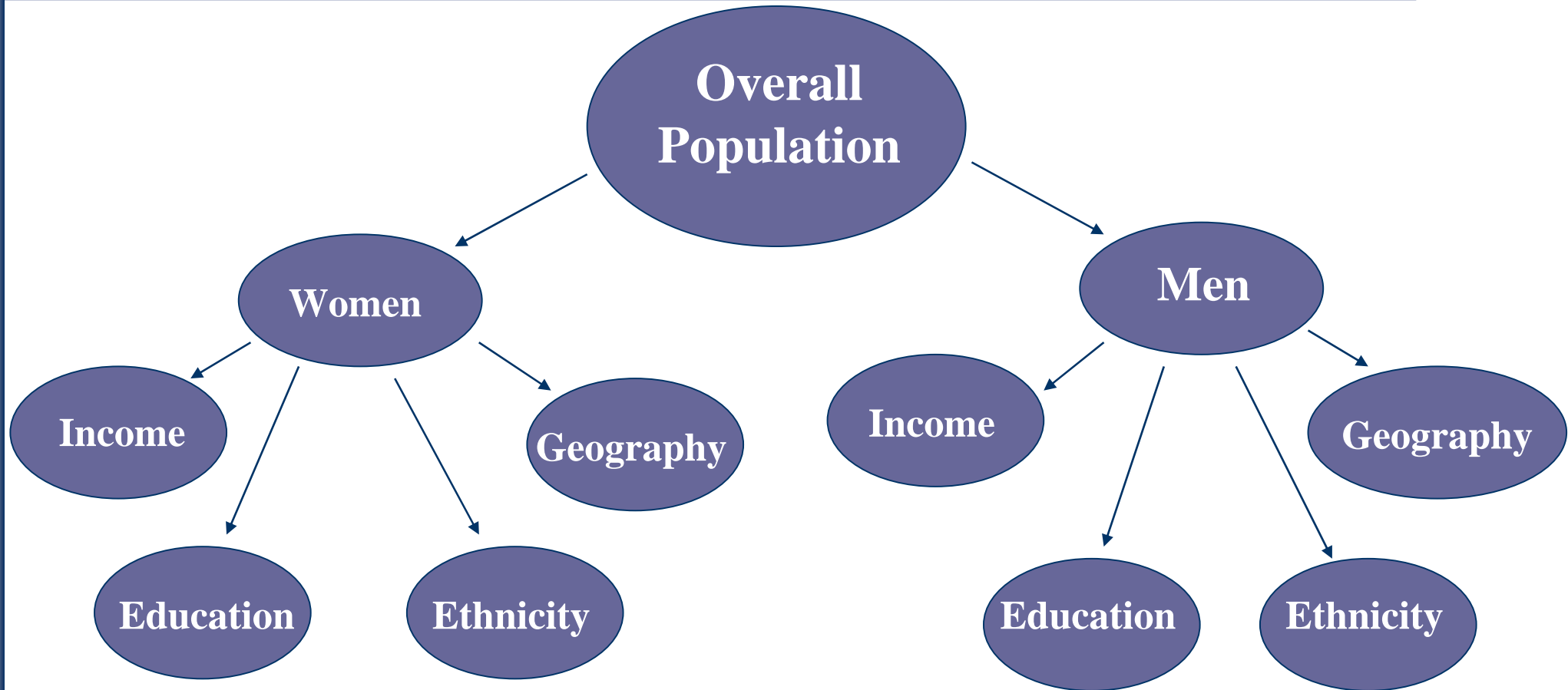


Women's Health Reporting: Developing a New Model

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



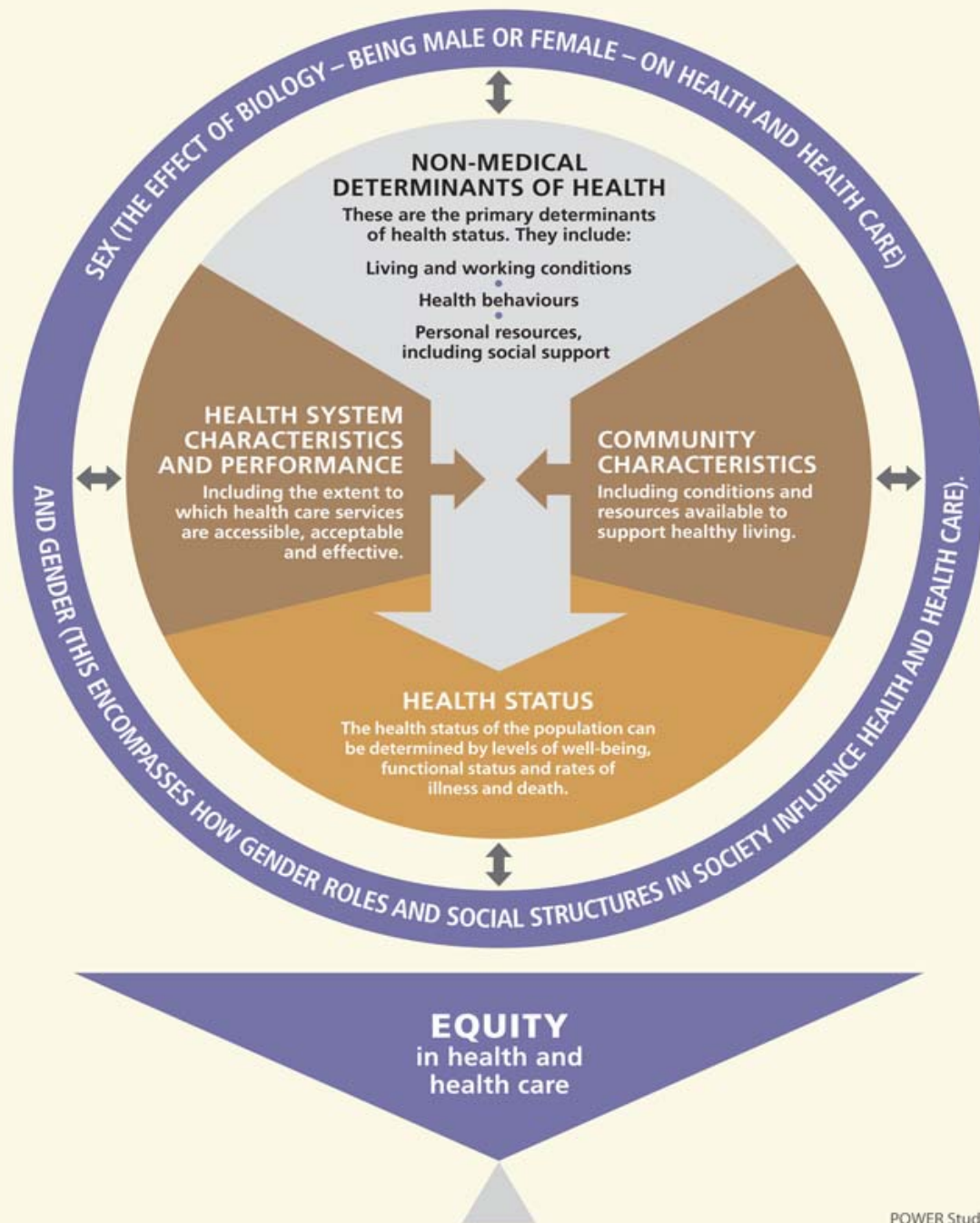
Health Indicator Measurement and Reporting: A Tool to Drive Change

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 evidence-based, strategy driven, linked to a commitment for change by health system leaders and providers, and mechanisms for accountability.



POWER Study Gender and Equity Health Indicator Framework

CVD Chapter Framework

- Developed by members of the CVD Working Group
- Includes:
 - Health and functional status of people with CVD
 - Heart failure (HF)
 - Ischemic heart disease (IHD)
 - Stroke and transient ischemic attack (TIA)
- Includes measures of quality of life, quality of care including physician care, medication management, diagnostic testing and outcomes of care.

Process for Indicator Selection

Framework developed by working group

Literature review to identify candidate indicators

No. of indicators identified from literature:

200+

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:

60

Technical expert panel (TEP)

No. of indicators selected by panel:

57

Analysis with stratification by sex, income, age and LHIN where feasible

CVD Chapter

- Health and functional status of people with CVD
- Heart failure
- Ischemic heart disease
- Stroke

Data Sources

Most recently available data (2000-2005) from:

- Canadian Community Health Survey (CCHS), Cycles 1.1. & 3.1
- Canadian Institutes for Health Information Discharge Abstracts Database (CIHI-DAD)
- Ontario Health Insurance Plan (OHIP), physician claims
- National Ambulatory Care Reporting System (NACRS)
- Ontario Drug Benefit (ODB) database
- CIHI National Rehabilitation Reporting System (NRS)
- Cardiac Care Network (CCN) wait lists database
- Ontario Congestive Heart Failure Database (OCHFD)
- ICES Coronary Artery Bypass Graft Surgery (CABG) database
- Registered Persons Database (RPDB)
- ICES Physician Database (IPDB)
- The Registry of the Canadian Stroke Network-Ontario Stroke Audit (RCSN-OSA)
- Enhanced Feedback for Effective Cardiac Treatment (EFFECT) study, phase I

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

CVD Chapter - LHIN-level data shared

Health and Functional Status	LHIN	By income	By age
No LHIN level data reported			
Heart Failure			
In-hospital physician care for HF patients	GP/FP sole care		
<i>Medication management within 90 days and one year of discharge:</i> - Beta blockers - ACE inhibitors and/or ARBs - Warfarin (for patients with atrial fibrillation)	90-day	90-day beta blockers only	90-day beta blockers only
Left ventricular function evaluation within the period six months before admission to one month post discharge	√	√	
Cardiac testing: stress testing; echocardiography; angiography within the period six months before admission to one month post discharge			

CVD Chapter - LHIN-level data shared

Heart Failure	LHIN	By income	By age
Age-adjusted, emergency department visits post-discharge within: (30 days and one year)	all-cause	all-cause	all-cause
Risk-adjusted, non-elective readmission post-discharge within: (30 days and one year)	all-cause	all-cause	
Risk-adjusted mortality within one year of HF admission	√	√	
Weight measurement on 50 percent of inpatient hospital days			
Discharge instructions	Data are not available at LHIN level		
Cardiology care for newly identified HF patients	Data are not available at LHIN level		

CVD Chapter - LHIN-level data shared

Ischemic heart disease indicators	LHIN	By income	By age
In-hospital physician care for AMI patients:	Cardiology care and GP/FP sole care		
<i>Medication management within 90 days and one year of discharge for an AMI:</i> - Statins - Beta blockers - ACE inhibitors and/or ARBs	90 days		
Age-standardized angiography rates for AMI patients: within 3 months post discharge (includes referred within three months)	√	√	
Risk-adjusted, non-elective readmission post- discharge after an AMI admission: (30 days and one year)	All-cause		
Risk-adjusted mortality within 30 days and one year of AMI admission	One-year	One-year	
Aspirin therapy in hospital	Data are not available at LHIN level		
Median door-to-needle time for thrombolytic therapy in STEMI patients treated with thrombolytics within four hours of being seen in hospital	Data are not available at LHIN level		

CVD Chapter - LHIN-level data shared

Coronary artery bypass surgery (CABG)	LHIN	By income	By age
Use of internal mammary artery to bypass left anterior descending artery for CABG patients without contraindications			
Pre- and post-operative length of stay for CABG patients			
<i>Medication management within 90 days and one year of discharge:</i>			
- Lipid-lowering therapy			
- Beta blockers			
- ACE inhibitors			
One year, age-adjusted CVD-related readmission for CABG patients			
One-year, revascularization rate in CABG patients			
Mortality after CABG (In hospital, 30 days, one year)			
Median and 90th percentile wait times for cardiac procedures			
Angiography			
Angioplasty			
Coronary artery bypass surgery			

CVD Chapter - LHIN-level data shared

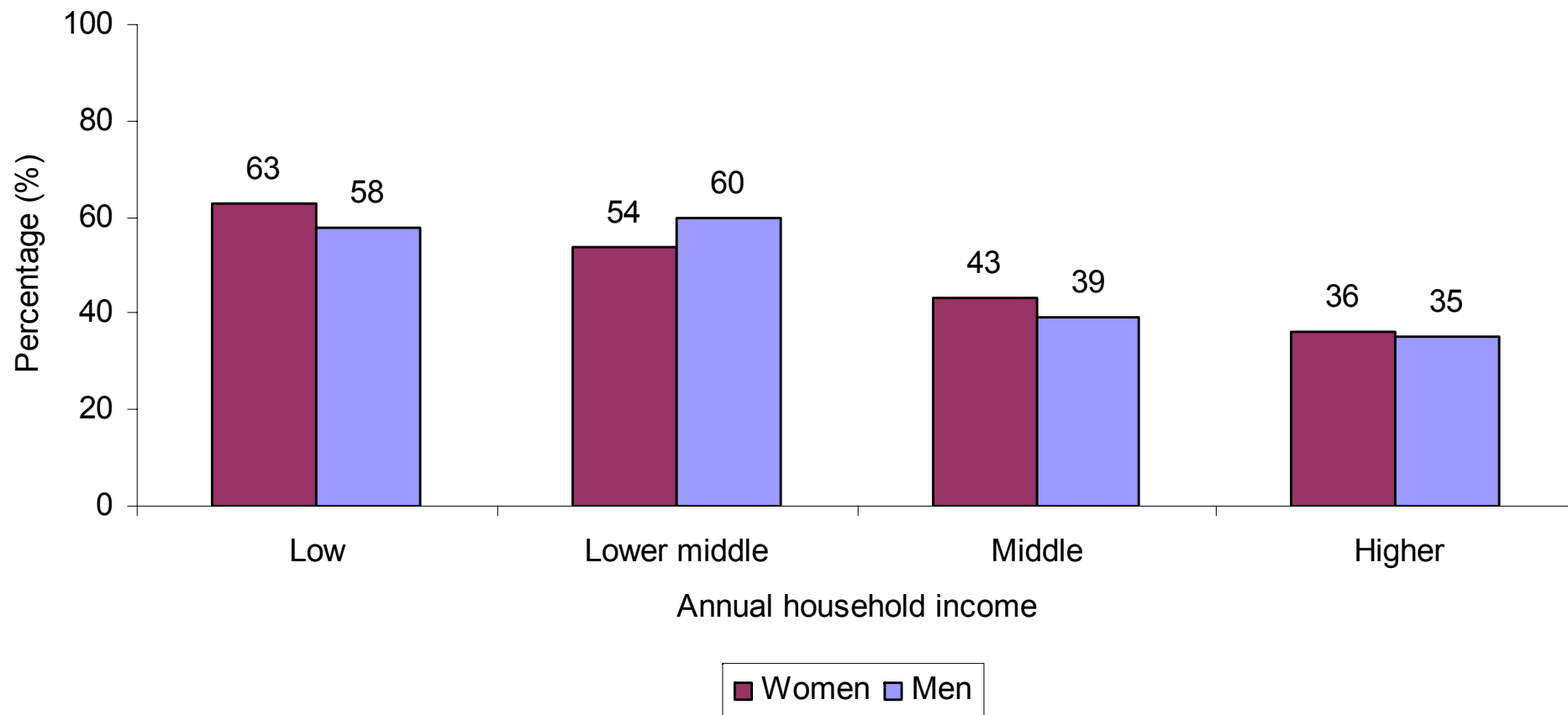
Stroke	LHIN	By income	By age
Thrombolytic therapy with rtPA for ischemic stroke within 2.5 hours of stroke onset			
Antiplatelet therapy for ischemic stroke or TIA within 48 hours of admission			
Antithrombotic therapy at discharge for secondary prevention			
Warfarin therapy at discharge, 90 days and one year			
Measurement of lipids during hospitalization	√		
Lipid-lowering therapy at discharge, 90 days and one year	at discharge and 90 days	At discharge	
Antihypertensive therapy at discharge, 90 days and one year	90 days		
Neuroimaging for stroke (CT and MR imaging)	√		
Carotid imaging for stroke	√		

CVD Chapter - LHIN-level data shared

Stroke	LHIN	By income	By age
In-hospital rehabilitation and nutrition assessment: Physiotherapy, occupational therapy, speech and language therapy, nutritional assessment	√		
Referral to stroke prevention clinics for patients discharged directly from an ED	√		
Median wait time for in-patient rehabilitation	√	√	√
Mean change in Functional Independence Measurement			
Risk-adjusted, non-elective readmission post-discharge within: (within seven days, 30 days and one year)	All-cause, 30-day		
Risk-adjusted mortality within seven days, 30 days and one year of AMI admission	One year		

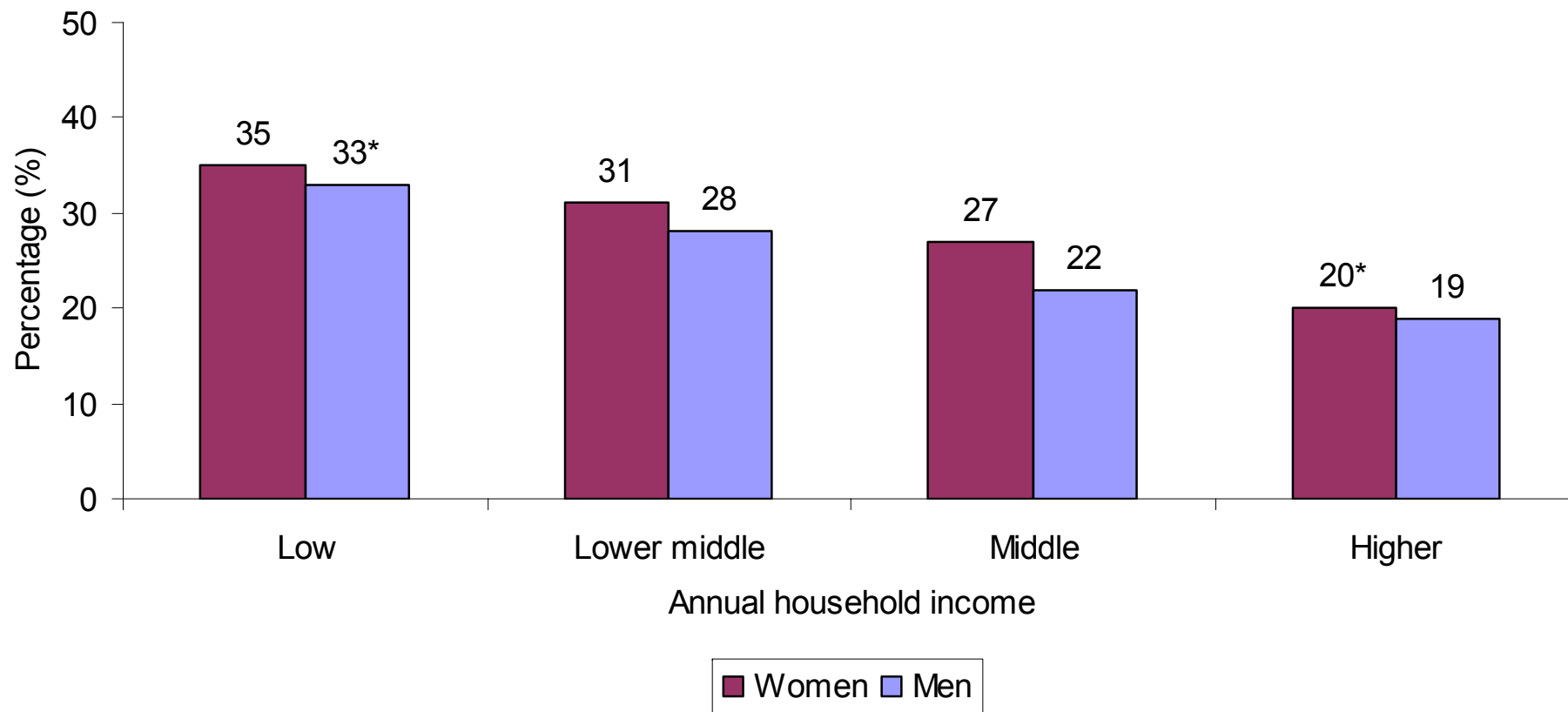
- Health and Functional Status

Age-standardized percentage of adults age ≥ 25 with heart disease or who have had a stroke (CVD) who rated their health as fair or poor, by sex and annual household income, in Ontario 2005



Data source: Canadian Community Health Survey (CCHS), Cycle 3.1

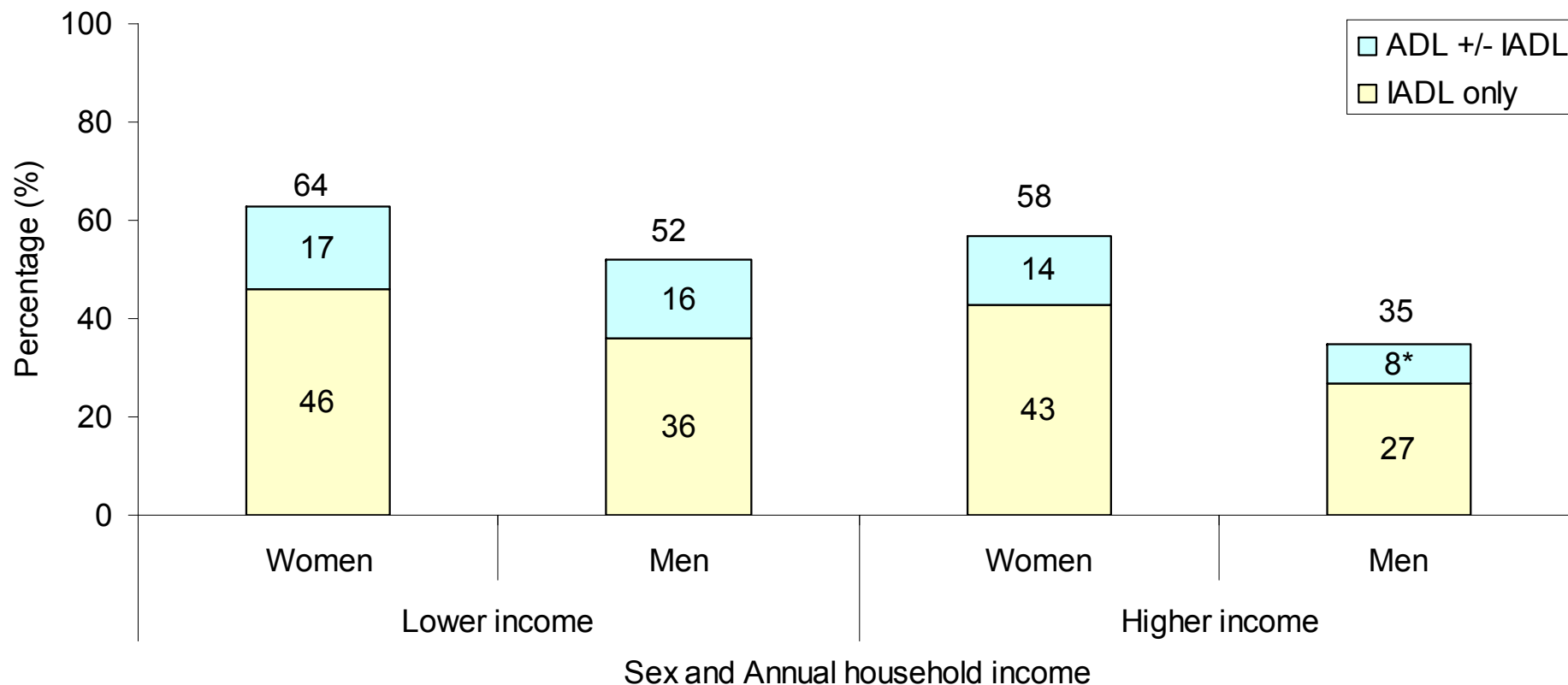
Age-standardized percentage of adults age ≥ 25 with CVD who reported that their current health was somewhat or much worse than their health one year prior, by sex and annual household income, in Ontario 2005



Data source: CCHS, Cycle 3.1

* Interpret with caution due to high sampling variability (coefficient of variation 16.6–33.3)

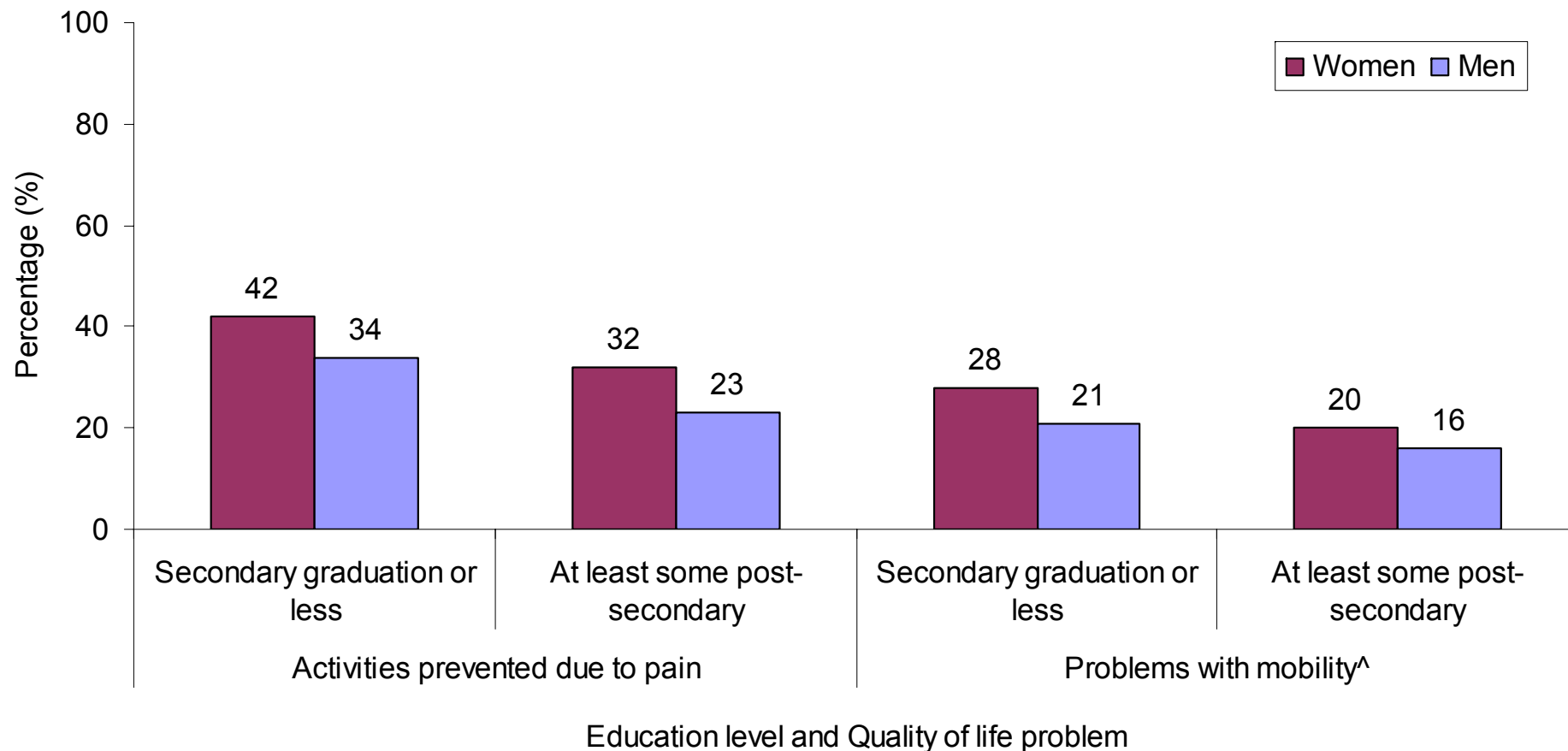
Age-standardized percentage of adults age ≥ 25 with CVD who reported having limitations in Instrumental Activities of Daily Living (IADL) and/or Activities of Daily Living (ADL), by sex and annual household income, in Ontario 2005



Data source: CCHS, Cycle 3.1

* Interpret with caution due to high sampling variability (coefficient of variation 16.6–33.3)

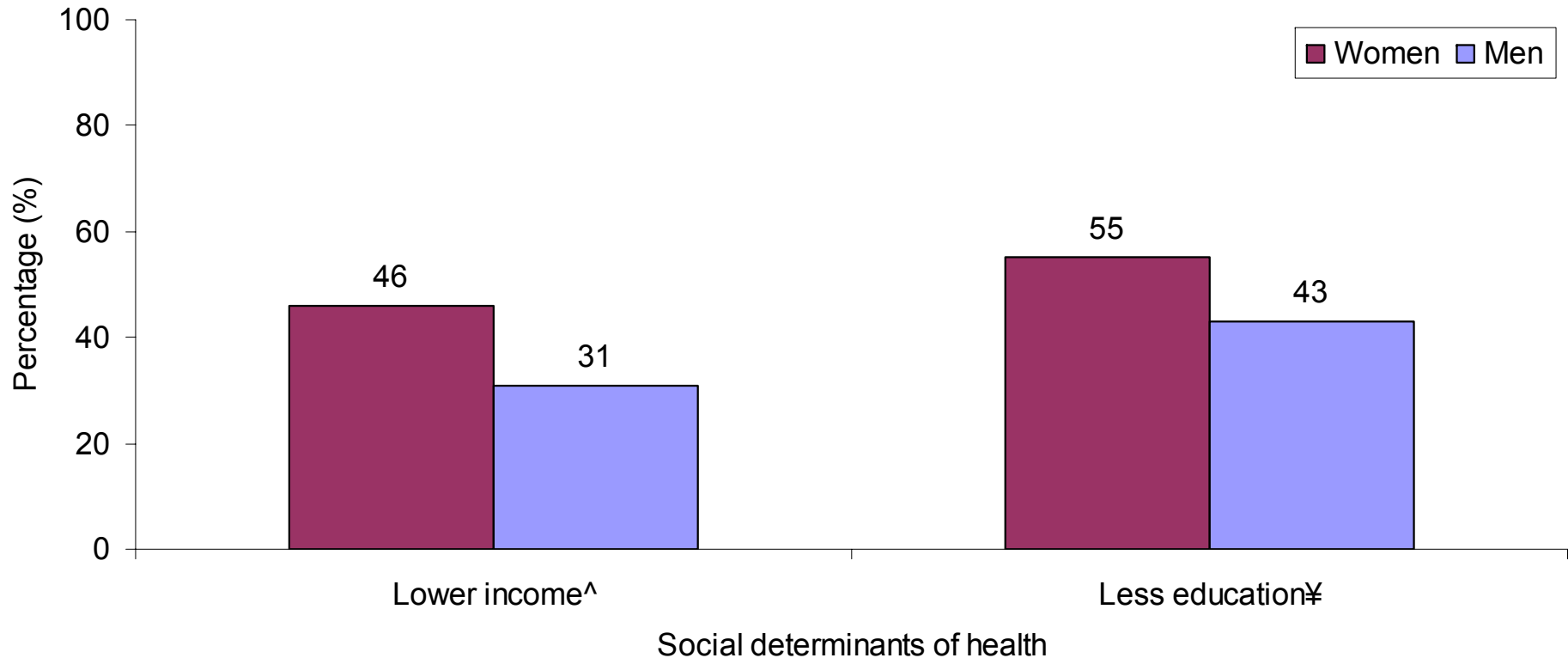
Age-standardized percentage of adults age ≥ 25 with CVD who reported that their activities were prevented due to pain or discomfort or problems with mobility[^], by sex and education level, in Ontario 2005



Data source: CCHS, Cycle 1.1

[^]Including an inability to walk around the neighbourhood or an ability to walk with difficulty, requiring help of other or mechanical supports such as braces, a cane, crutches or a wheelchair

Age-standardized percentage of adults age ≥ 25 with heart disease or who have had a stroke who reported lower income or less education, by sex, in Ontario, 2005



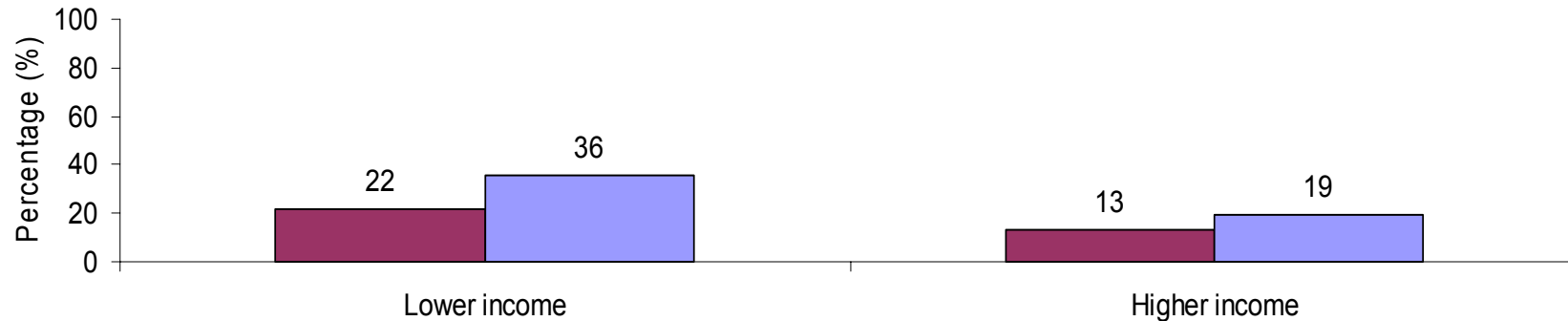
Data source: CCHS, Cycle 3.1

[^]Lower income includes the two lowest annual household income categories

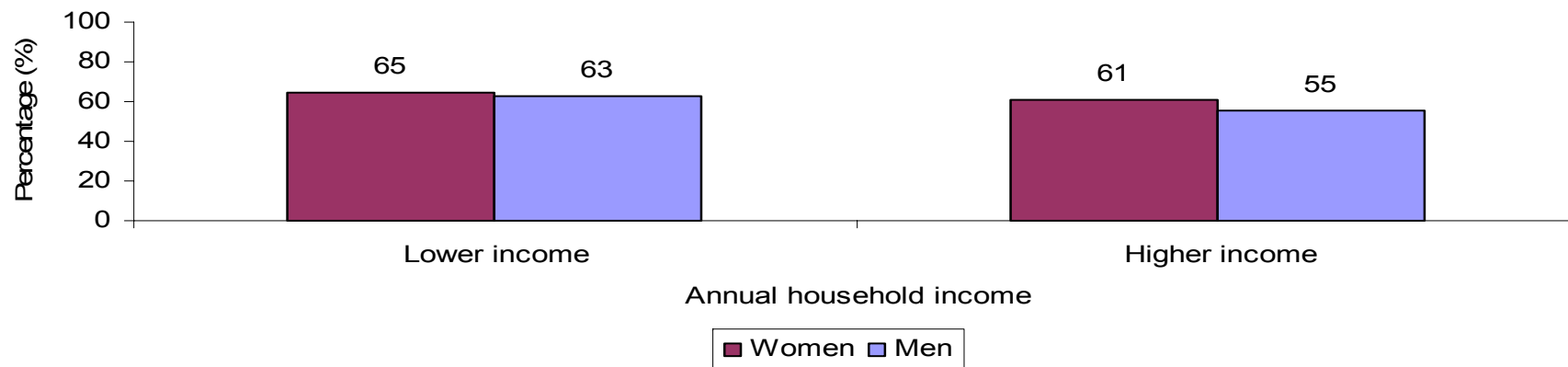
[¥]Less education includes secondary school education or less

Age-standardized percentage of adults age ≥ 25 with CVD who reported having diabetes and/or hypertension, by sex and annual household income, in Ontario, 2005

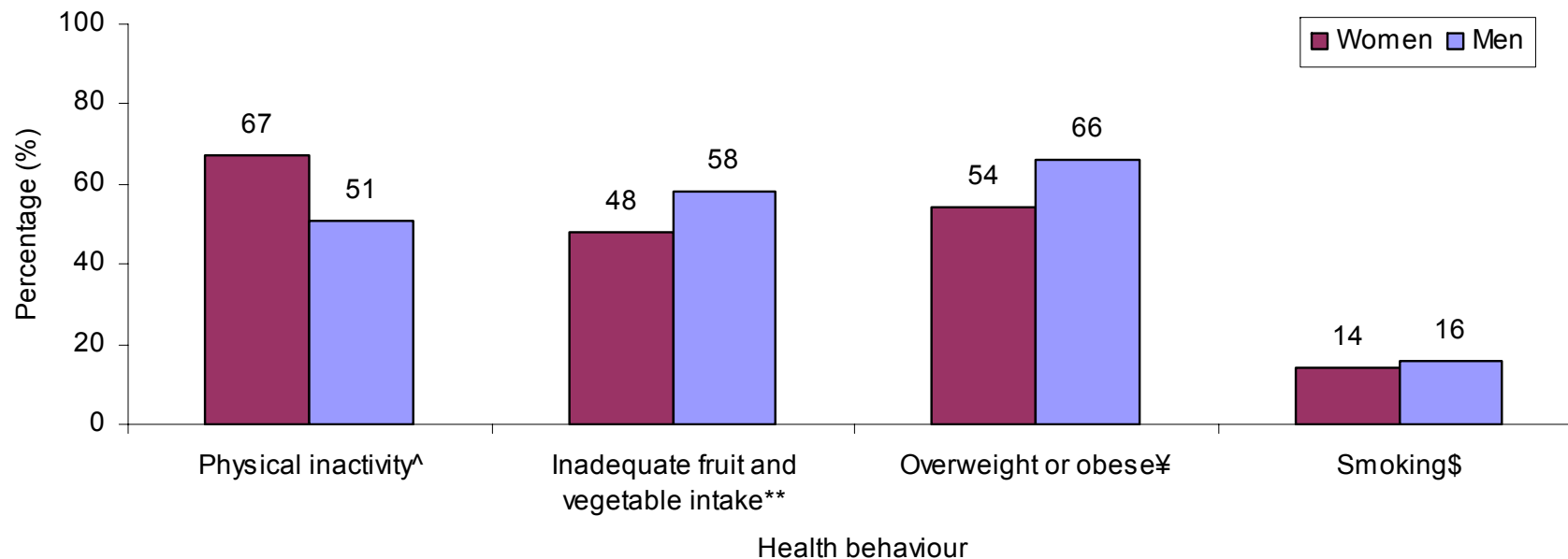
Diabetes



Hypertension



Age-standardized percentage of adults age ≥ 25 with CVD who reported health behaviours that increase risk for chronic diseases, by sex and risk behaviour, in Ontario, 2005



Data source: CCHS, Cycle 3.1

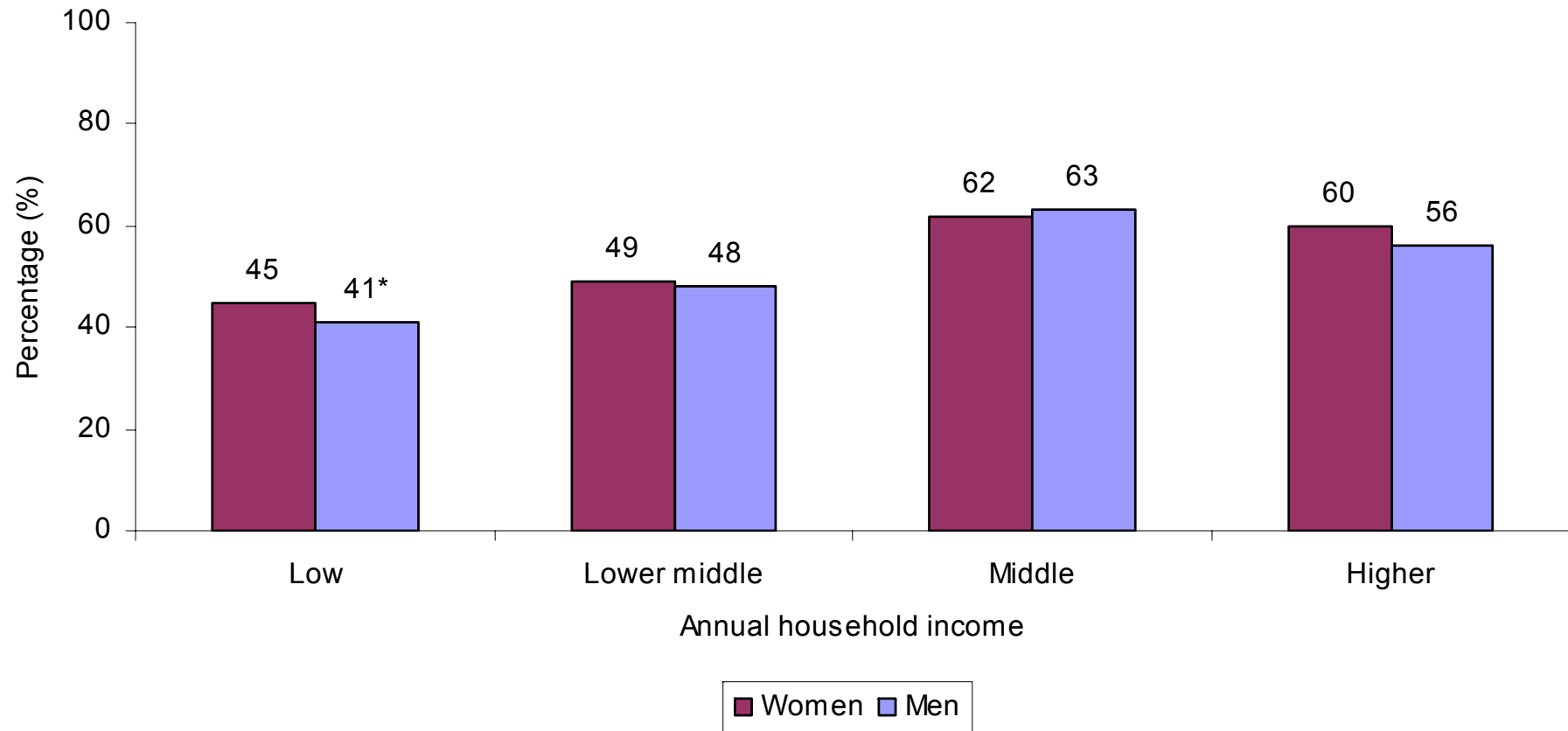
[^] Physical Activity Index of < 1.5 kcal/kg/day

^{**} Daily consumption of less than five servings of fruits and vegetables

[¥] Body Mass Index (BMI) ≥ 25 , calculated from self-reported height and weight

^{\$} Current smokers (daily or occasional)

Age-standardized percentage of adults age ≥ 25 with CVD who did something to improve their health in the previous year, by sex and annual household income, in Ontario, 2005

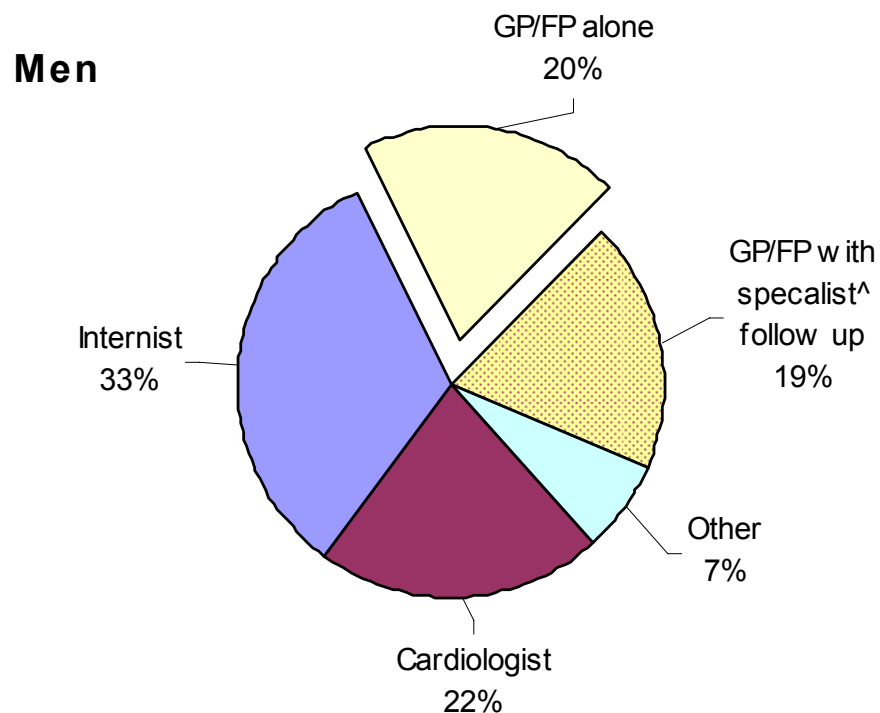
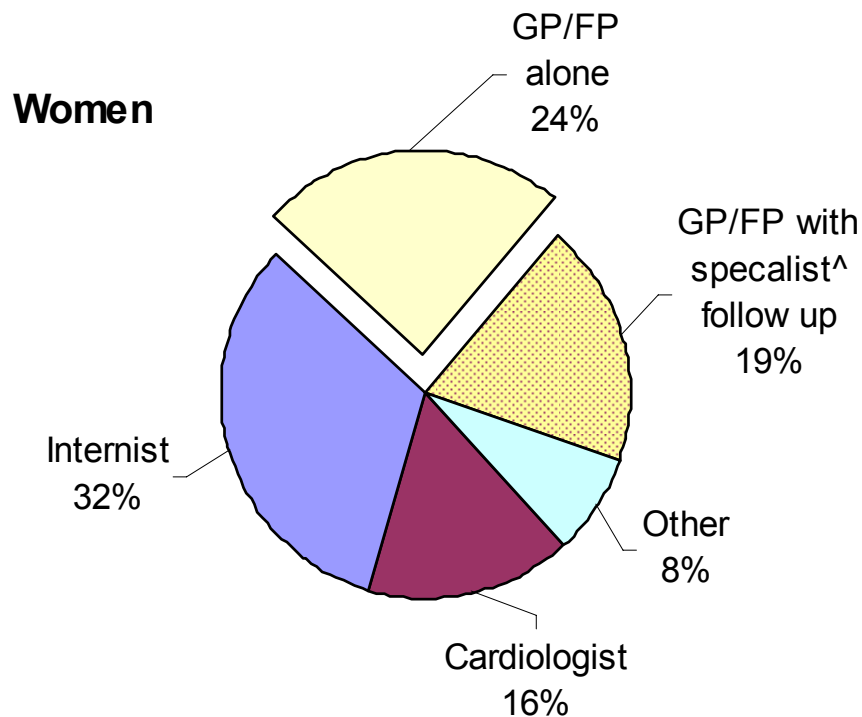


Data source: CCHS, Cycle 3.1

* Interpret with caution due to high sampling variability (coefficient of variation 16.6–33.3)

- Heart Failure

Type of physician providing in hospital care to adults age ≥ 45 hospitalized for heart failure (HF), by sex, in Ontario, 2005/06

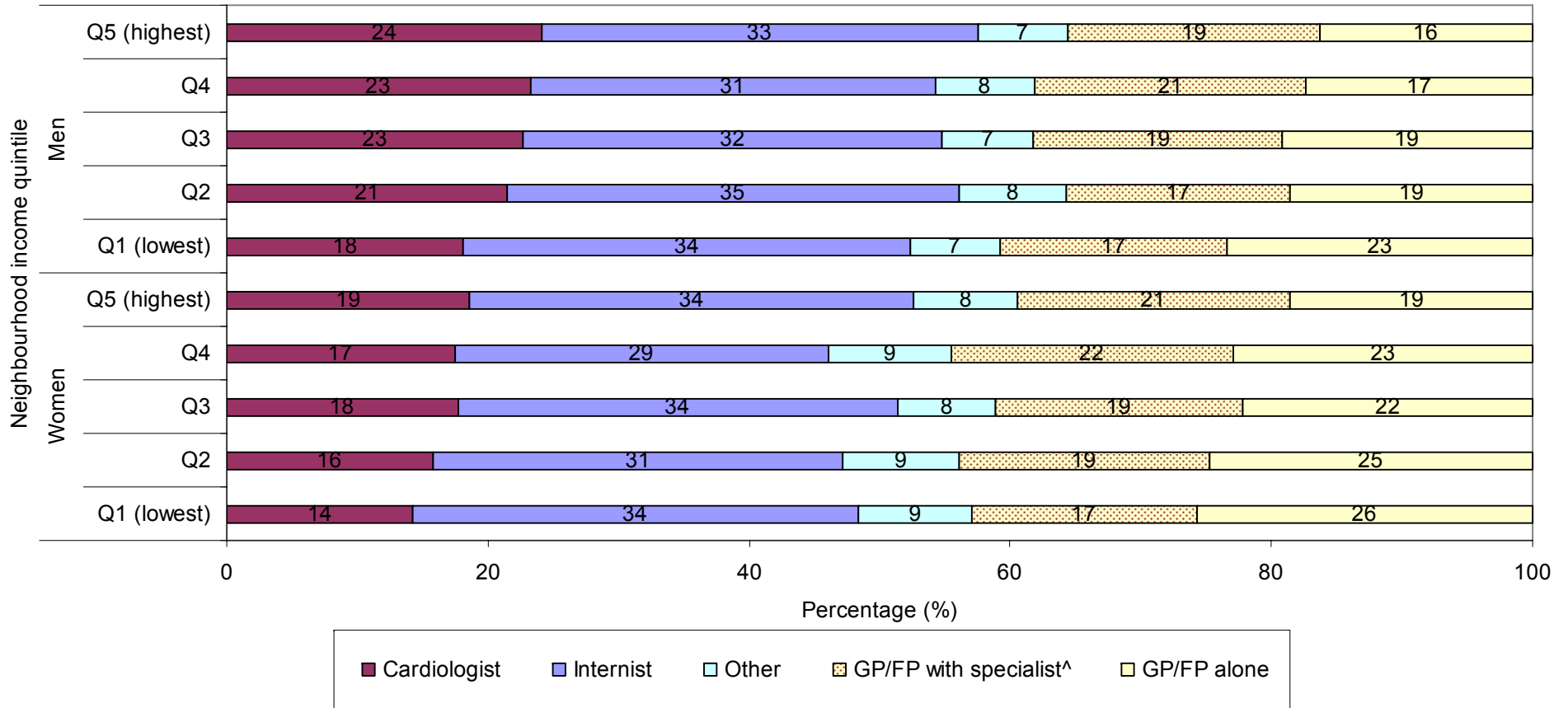


Data source: Canadian Institute for Health Information Discharge Abstract Database (CIHI-DAD)

GP/FP = General practitioner / family physician

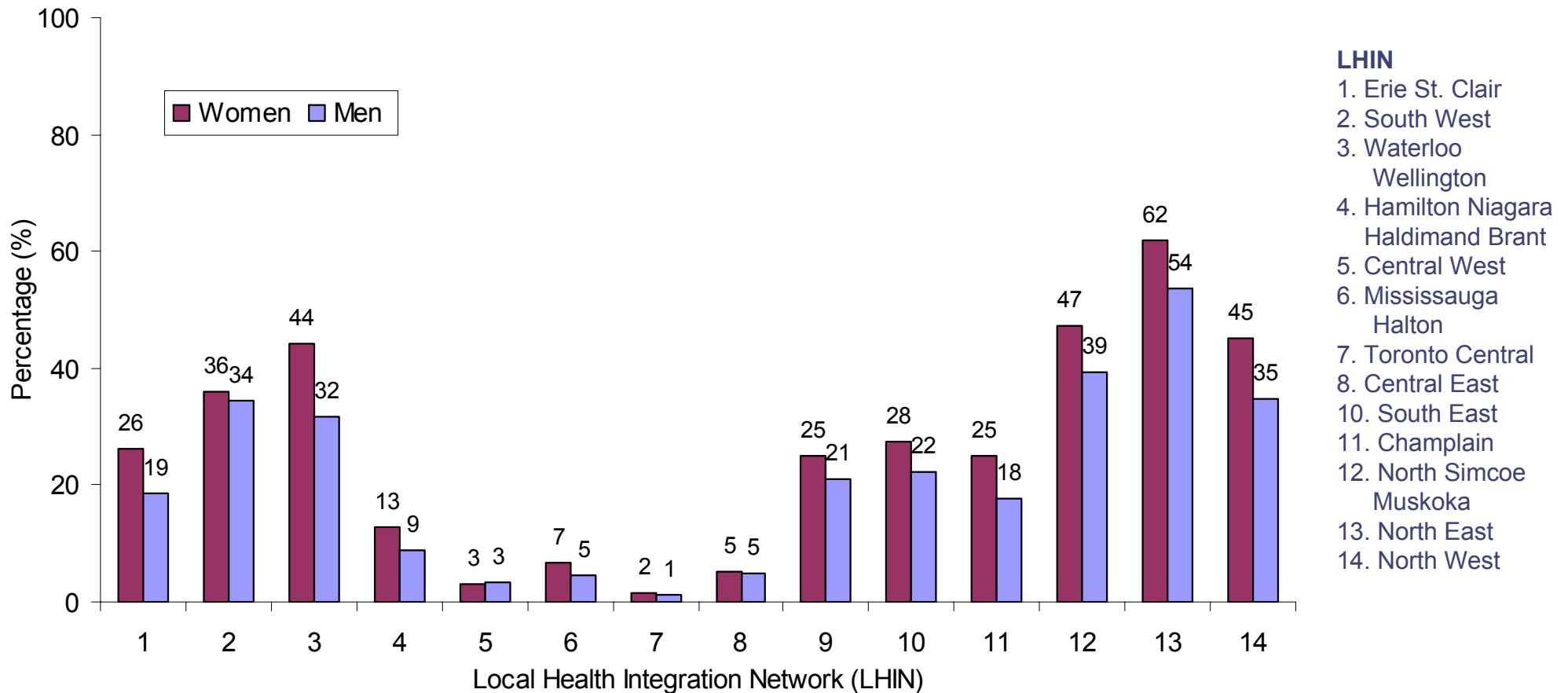
[^]specialist includes cardiologists and internists

Type of physician providing in hospital care to adults age ≥ 45 hospitalized for HF, by sex and neighbourhood income quintile, in Ontario, 2005/06

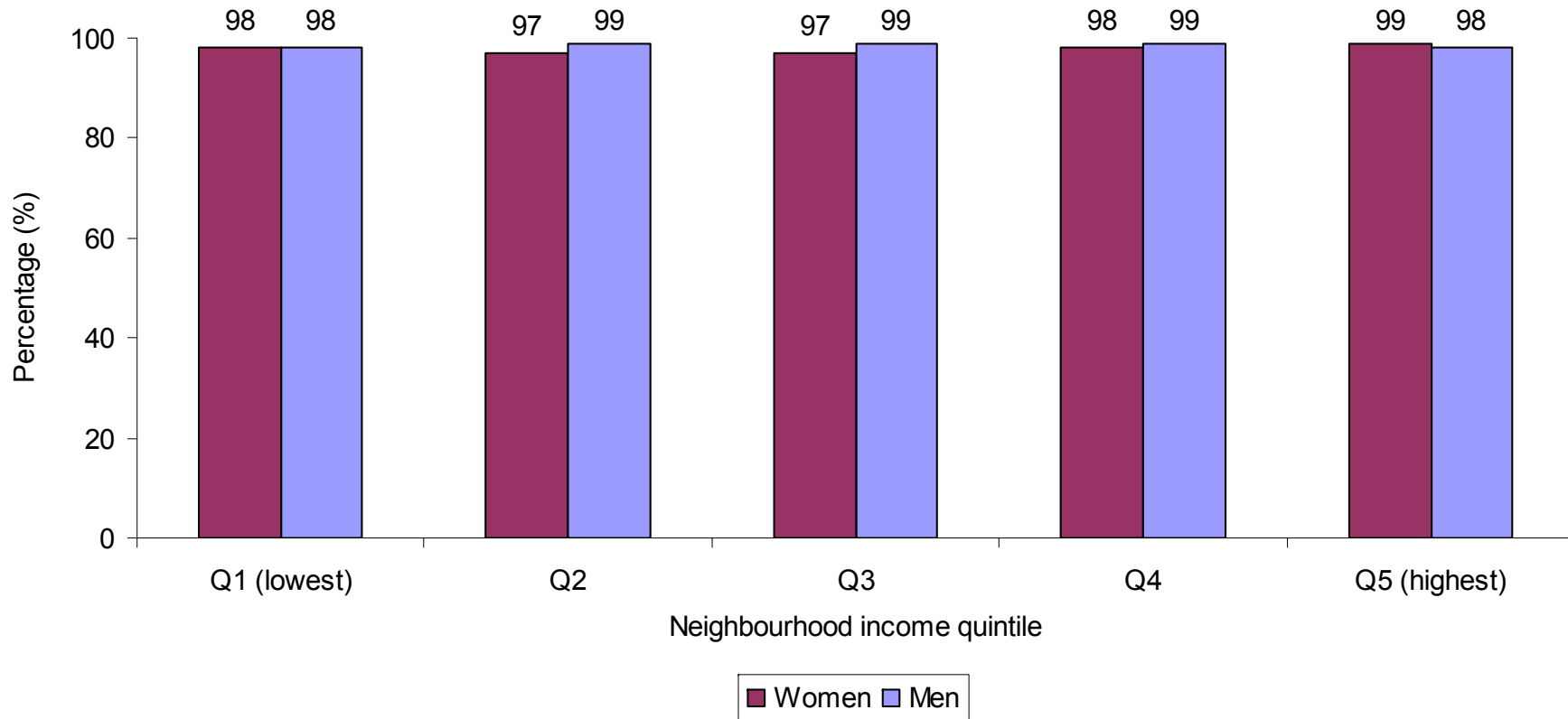


Data sources: CIHI-DAD; Statistics Canada, 2001 Census
 GP/FP= General practitioner / family physician
[^]specialist includes cardiologists and internists

Percentage of adults age ≥ 45 who were under the sole care of a general practitioner/family physician (GP/FP) while hospitalized for HF, by sex, and LHIN, in Ontario, 2005/06

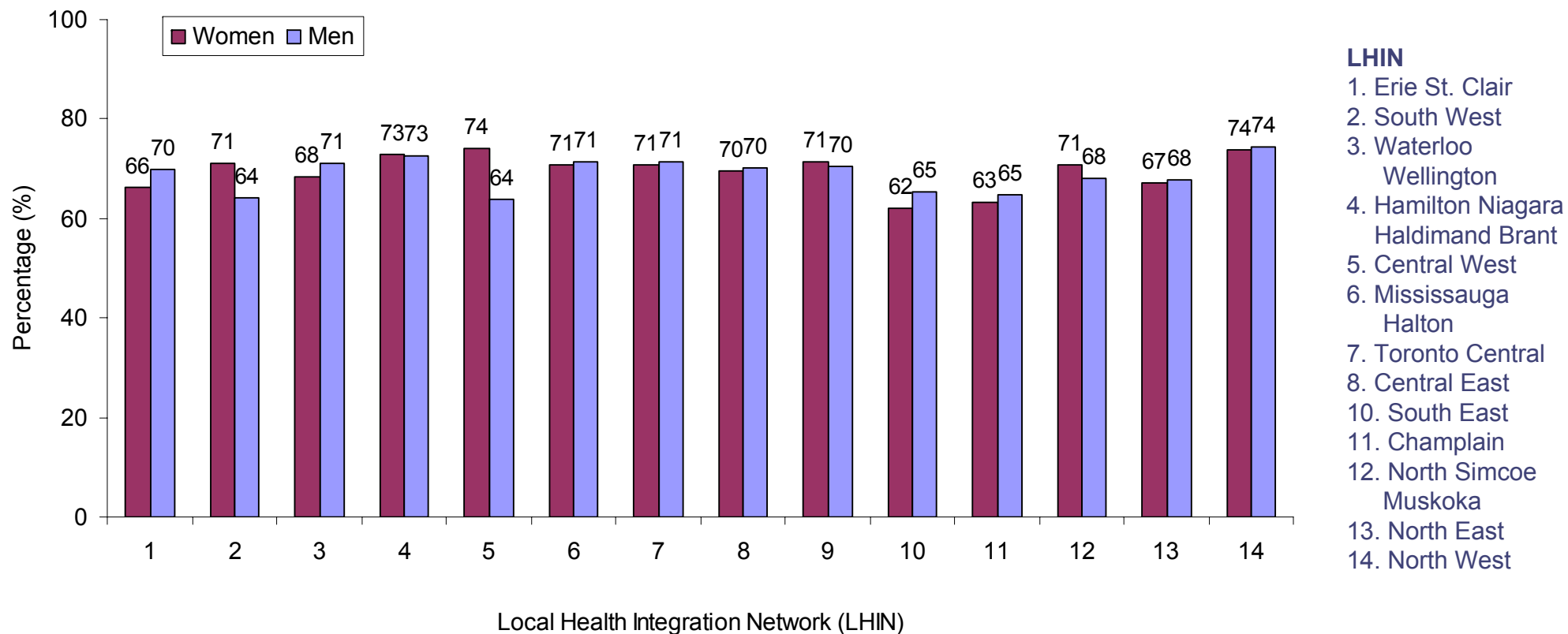


Percentage of adults age ≥ 45 who were seen by a physician within four weeks of discharge from hospital for HF, by sex and neighbourhood income quintile, in Ontario, 2005/06



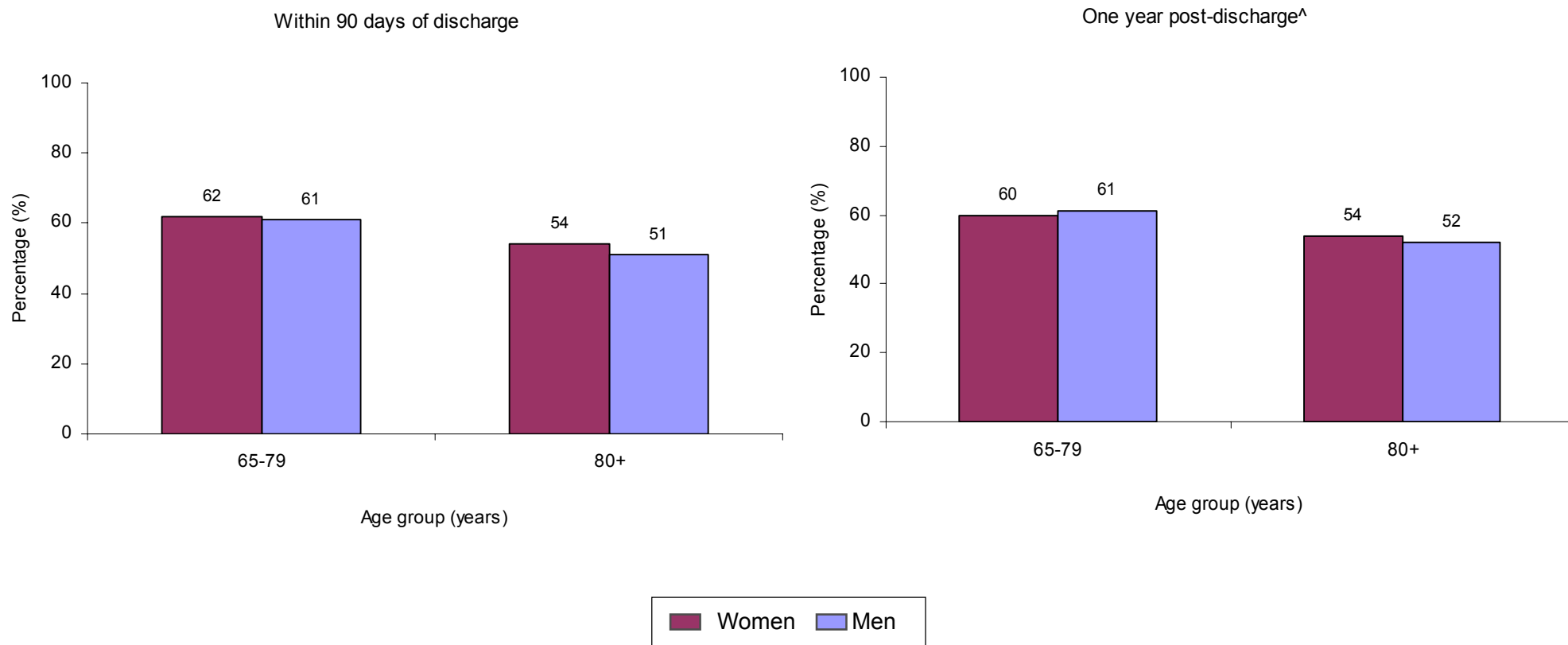
Data sources: CIHI-DAD; Ontario Health Insurance Plan (OHIP); Statistics Canada 2001 Census

Percentage of HF patients age ≥ 65 who filled a prescription for ACE inhibitor and/or ARB one year post discharge from hospital, by sex, and LHIN, in Ontario, 2005/06



Data sources: CIHI-DAD; Ontario Drug Benefits (ODB) Database; Registered Persons Database (RPDB); Statistics Canada 2001 Census
 ACE Inhibitor = Angiotensin-converting enzyme inhibitor; ARB = Angiotensin II receptor blocker

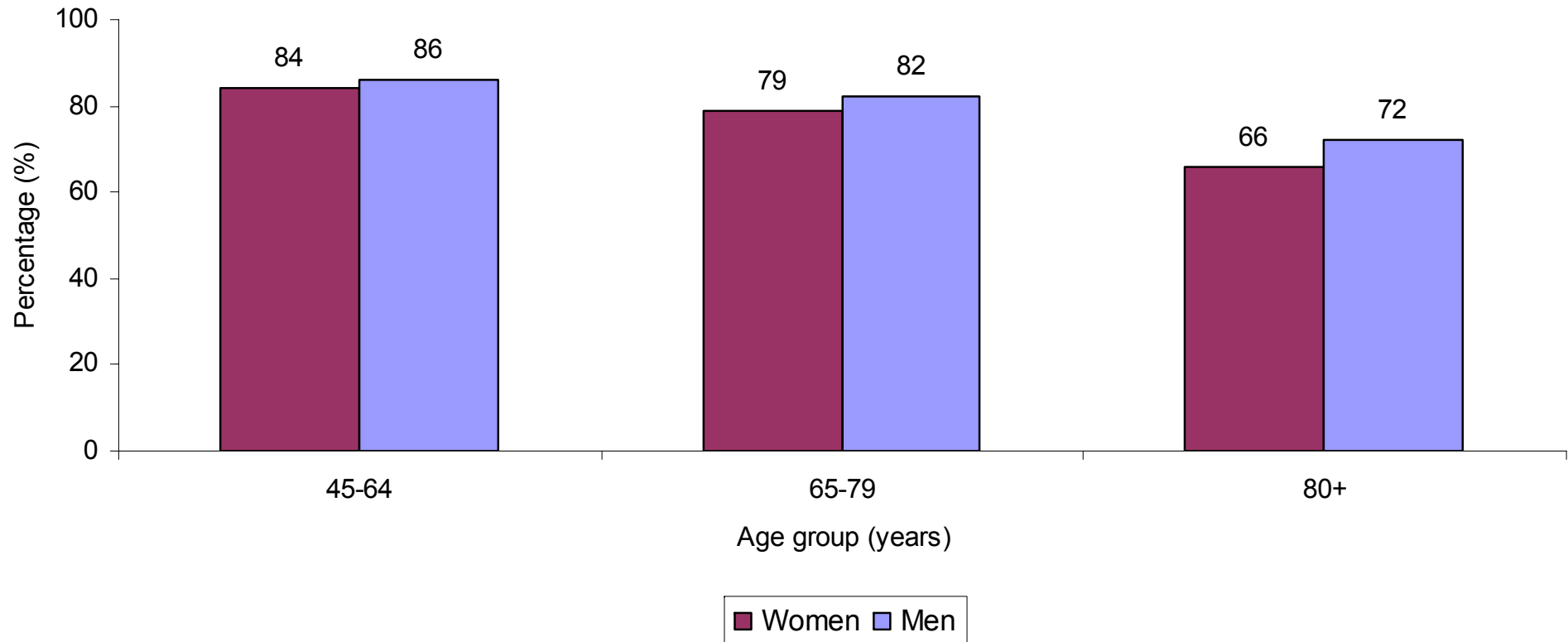
Percentage of HF patients age ≥ 65 who filled a prescription for beta blocker post discharge from hospital, by sex and age group, in Ontario, 2005/06



Data sources: CIHI-DAD; ODB; RPDB

^ Sample is restricted to patients who were alive one year post discharge

Percentage of hospitalized HF patients age ≥ 45 who underwent left ventricular function evaluation[^], by sex and age group, in Ontario, 2005/06

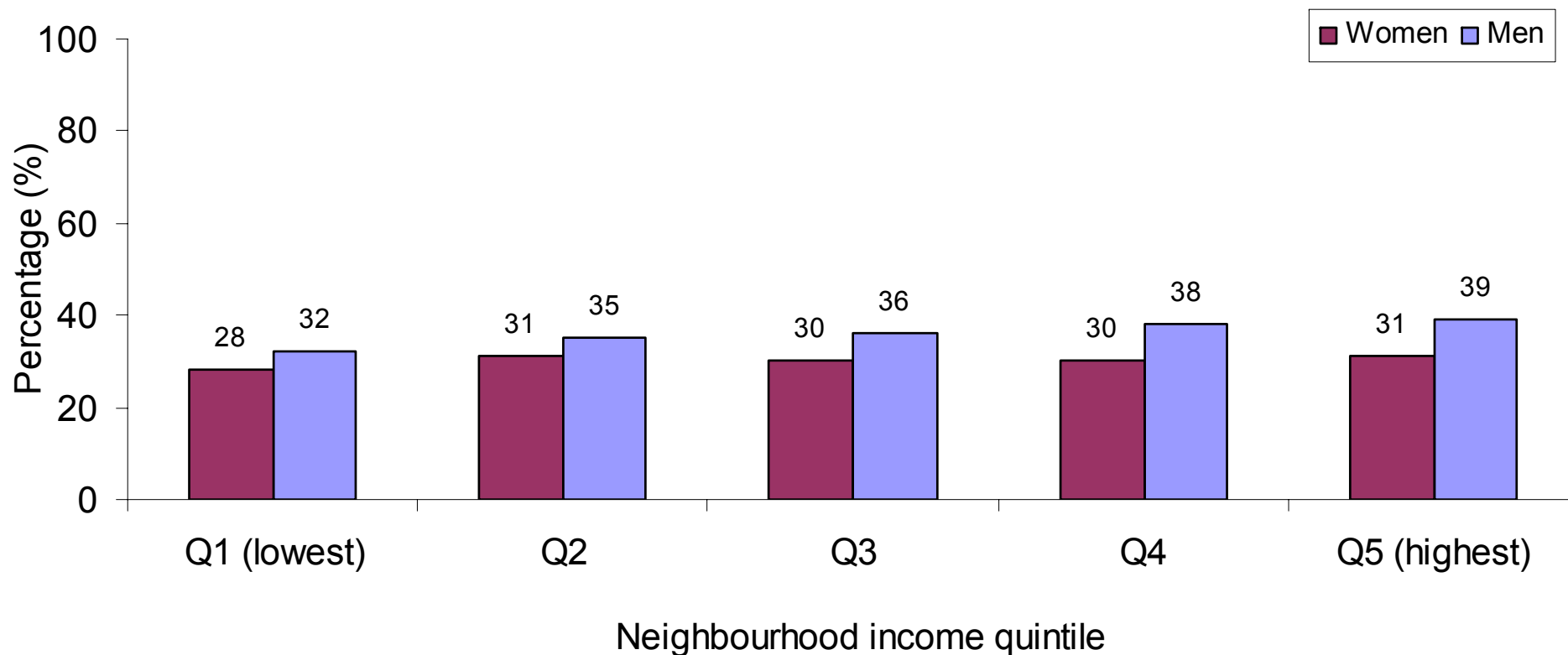


Data sources: CIHI-DAD; OHIP

[^] Measured during the period six months before hospital admission for heart failure (HF) to one month post hospital discharge

Note: LV function evaluation includes echocardiography, angiography, and nuclear imaging.

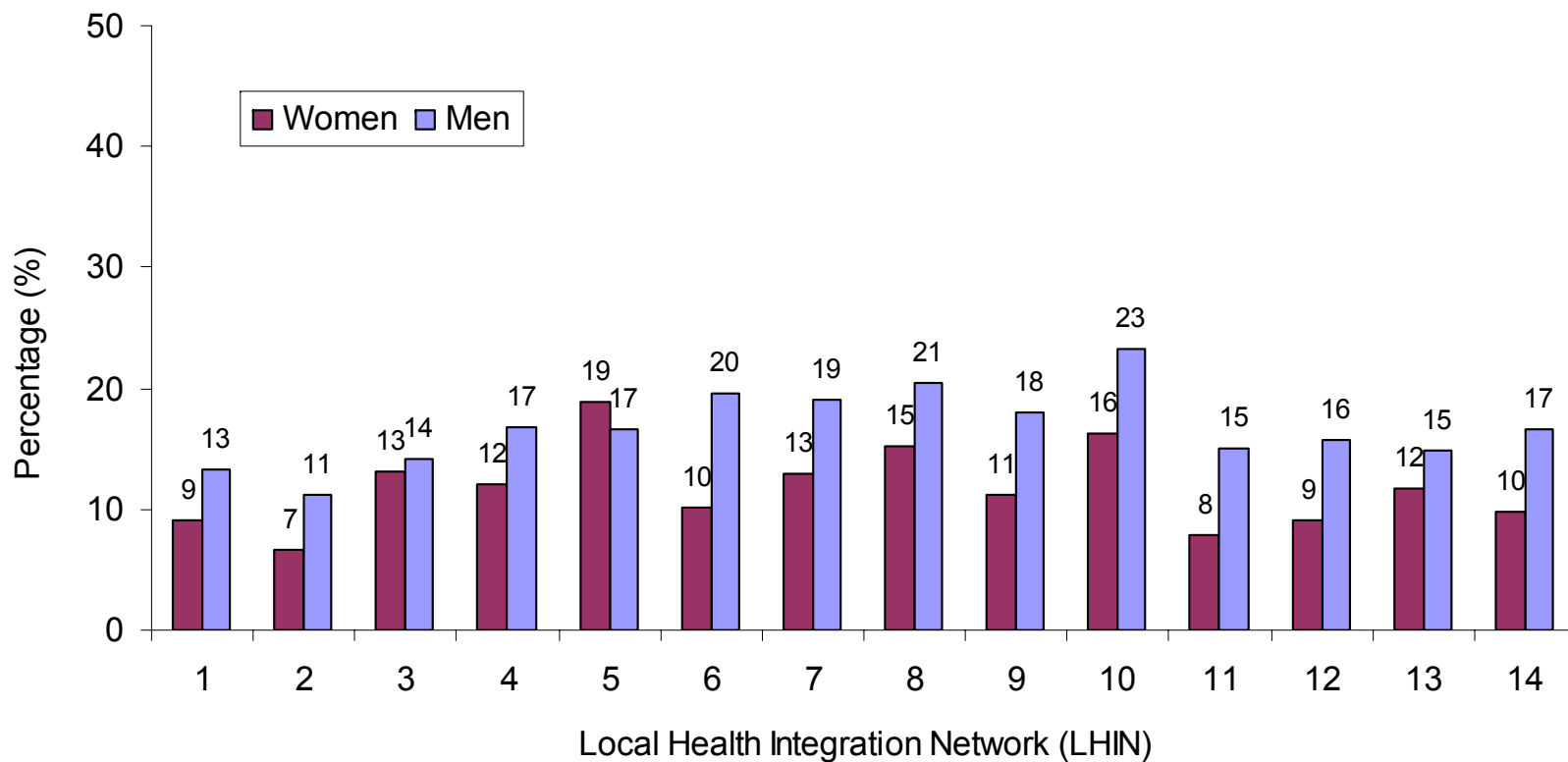
Percentage of hospitalized HF patients age ≥ 45 who underwent echocardiography[^], by sex and neighbourhood income quintile, in Ontario, 2005/06



Data sources: CIHI-DAD; OHIP; Statistics Canada 2001 Census

[^] Measured during the period six months before hospital admission for heart failure (HF) to one month post hospital discharge

Percentage of hospitalized HF patients age ≥ 45 who underwent angiography[^], by sex and LHIN, in Ontario, 2005/06



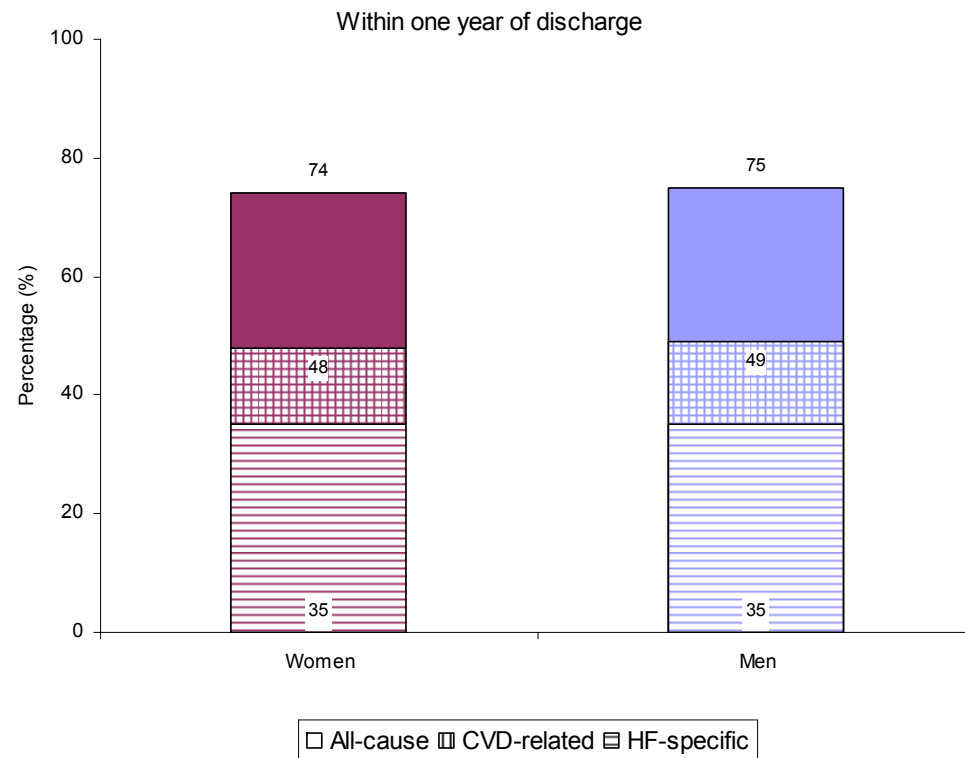
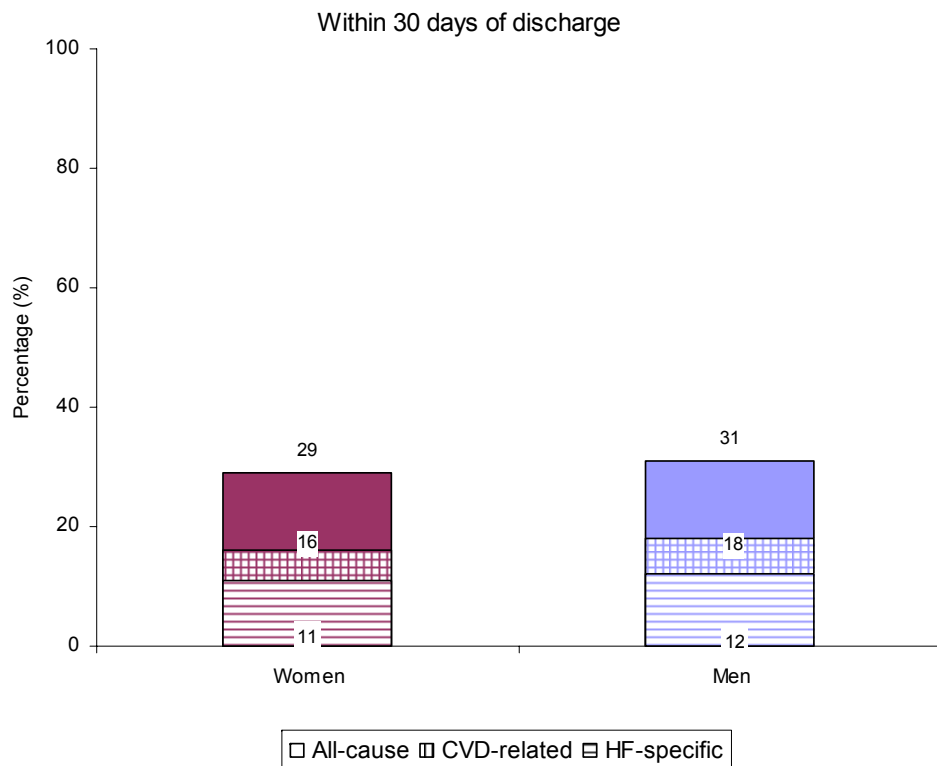
LHIN

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 East
10. South East
11. Champlain
12. North Simcoe Muskoka
13. North East
14. North West

Data sources: CIHI-DAD; OHIP

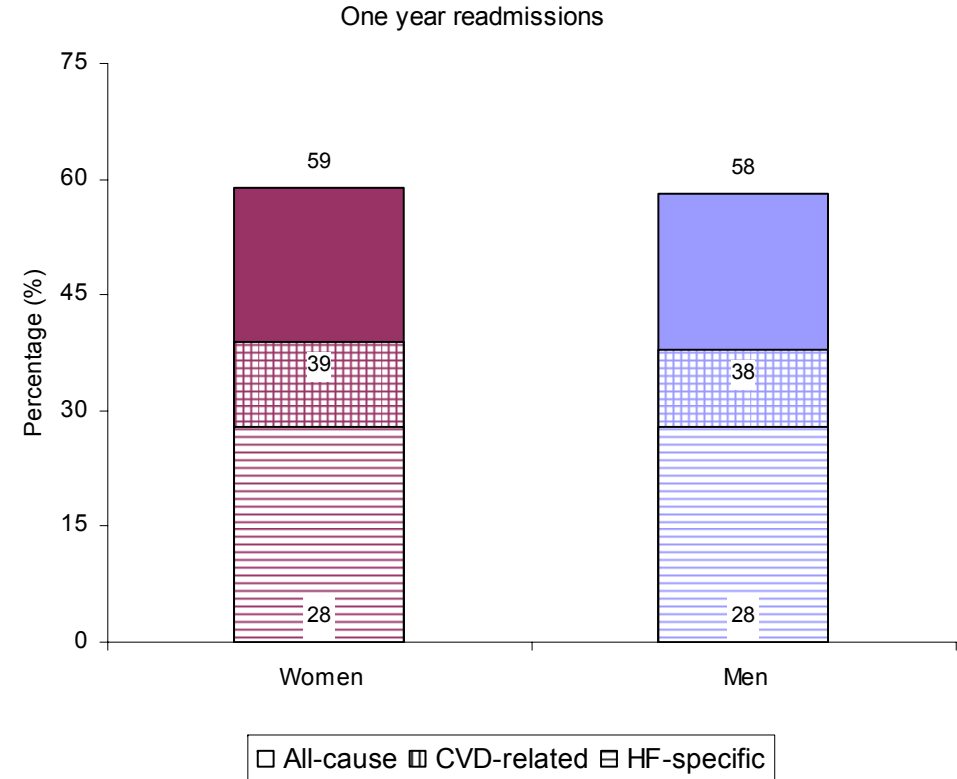
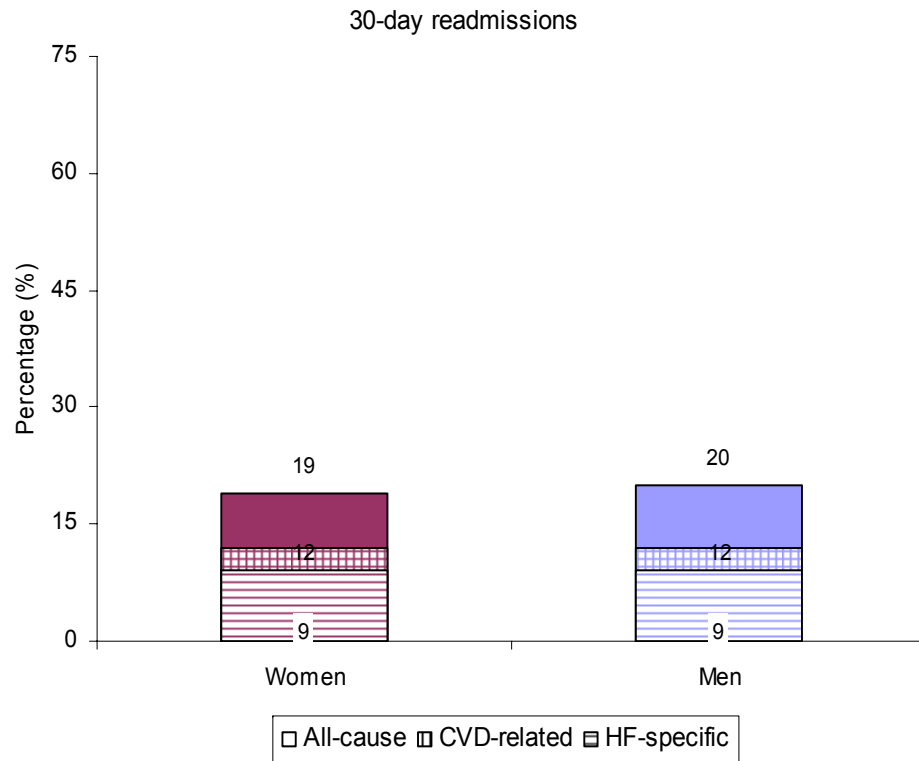
[^] Measured during the period six months before hospital admission for heart failure (HF) to one month post hospital discharge

Age-standardized percentage of hospitalized patients age ≥ 45 who were seen in the emergency department post discharge, by sex and reason for visit, in Ontario, 2005/06

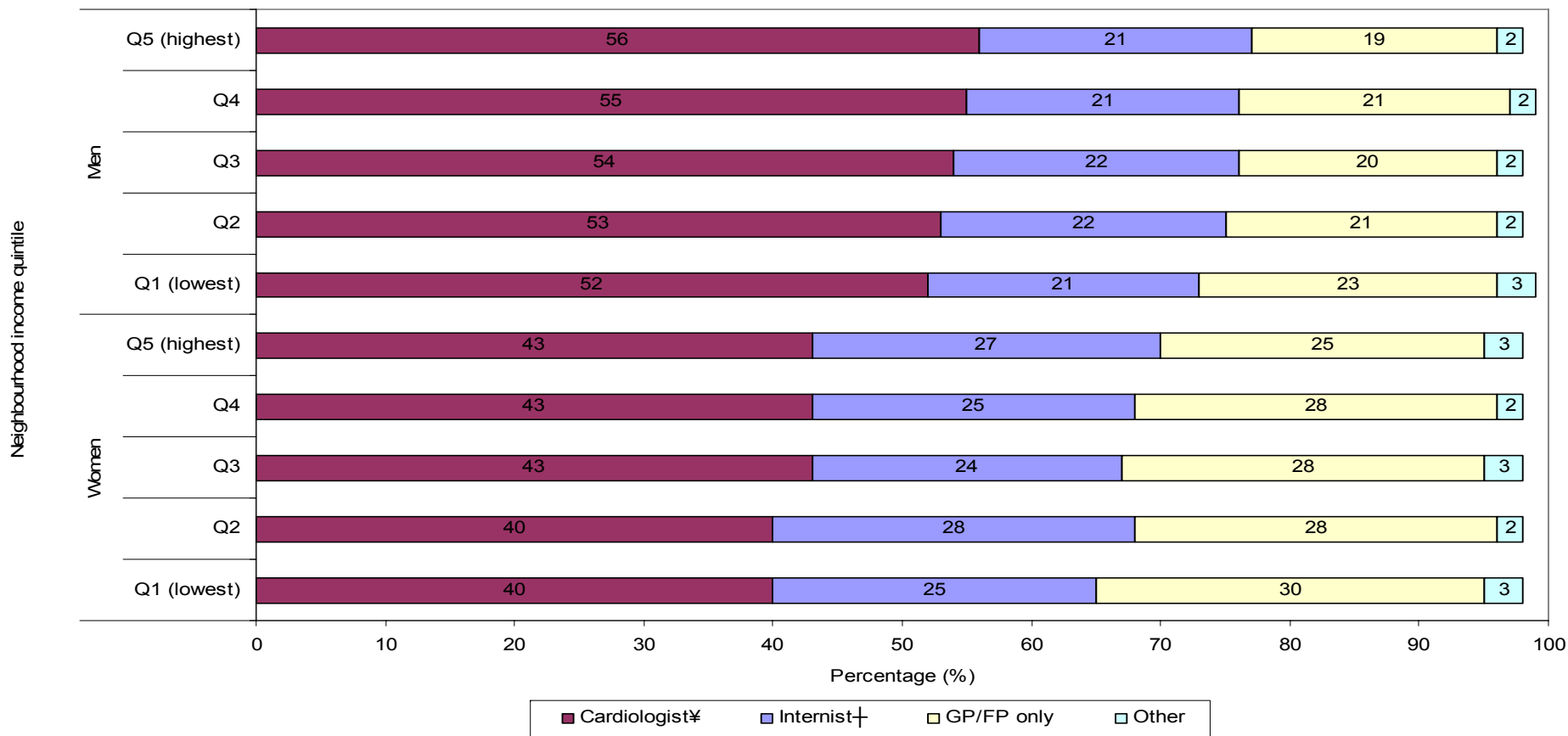


Data sources: CIHI-DAD; National Ambulatory Care Reporting System (NACRS)
 CVD = cardiovascular disease; HF = heart failure

Risk-adjusted percentage of HF patients age ≥ 45 who were non-electively readmitted to hospital, by sex and reason of admission, in Ontario, 2005/06



Type of physician providing care to adults age ≥ 45 with newly diagnosed HF within one year of initial diagnosis, by sex, neighbourhood income quintile and type of physician, in Ontario, 2005/06



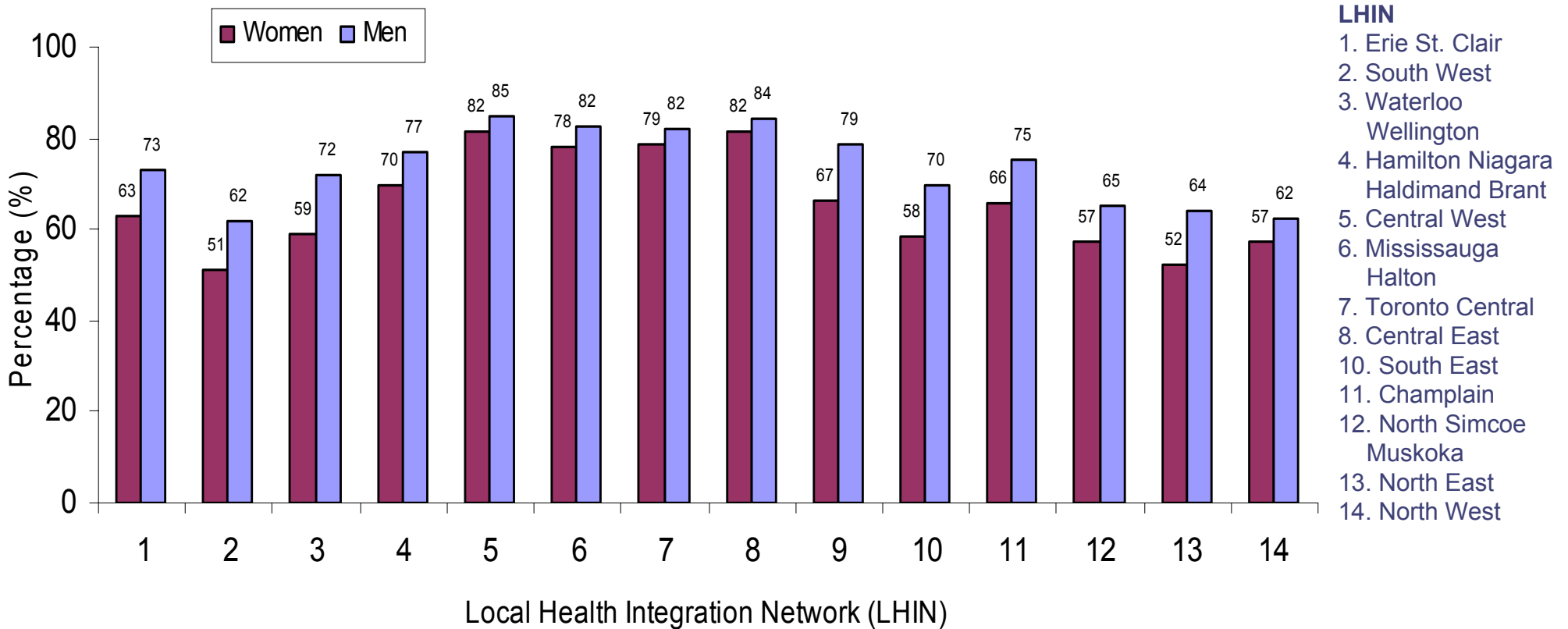
Data sources: Ontario Congestive Heart Failure Database (OCHFDB); ICES Physician Database (IPDB)

GP/FP refers to general practitioner or family physician

¥ Cardiologist includes care by cardiologists with or without other physicians

† Internist includes care by an internist/geriatrician with or without other physicians with the exception of cardiologists

Percentage of adults age ≥ 45 with newly diagnosed HF who were seen by a specialist[^] within one year of initial diagnosis, by sex and LHIN, in Ontario, 2005/06



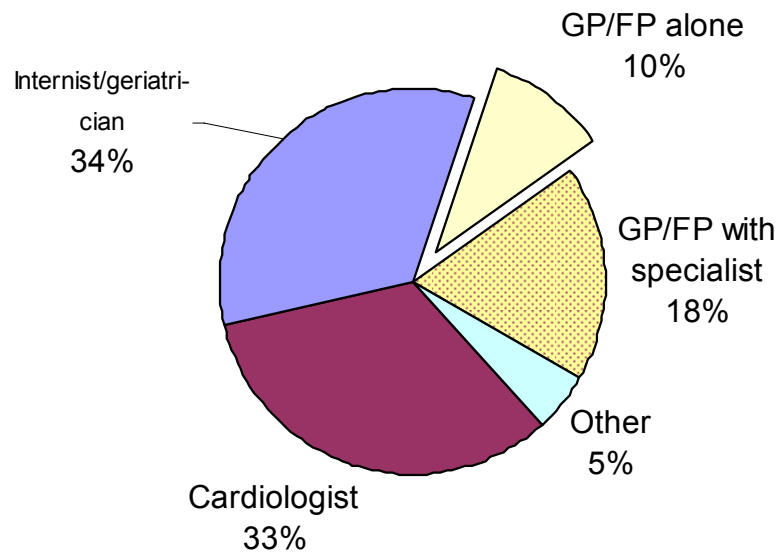
Data sources: OCHFDB; IPDB

[^] Specialist includes cardiologists, internists and/or geriatricians

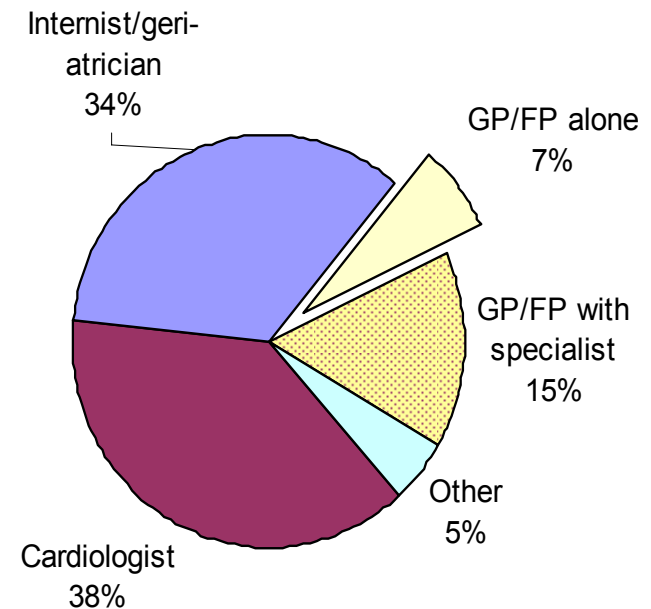
- Ischemic Heart Disease

Type of physician providing in hospital care to adults age ≥ 45 hospitalized with an acute myocardial infarction (AMI), by sex, in Ontario, 2005/06

Women



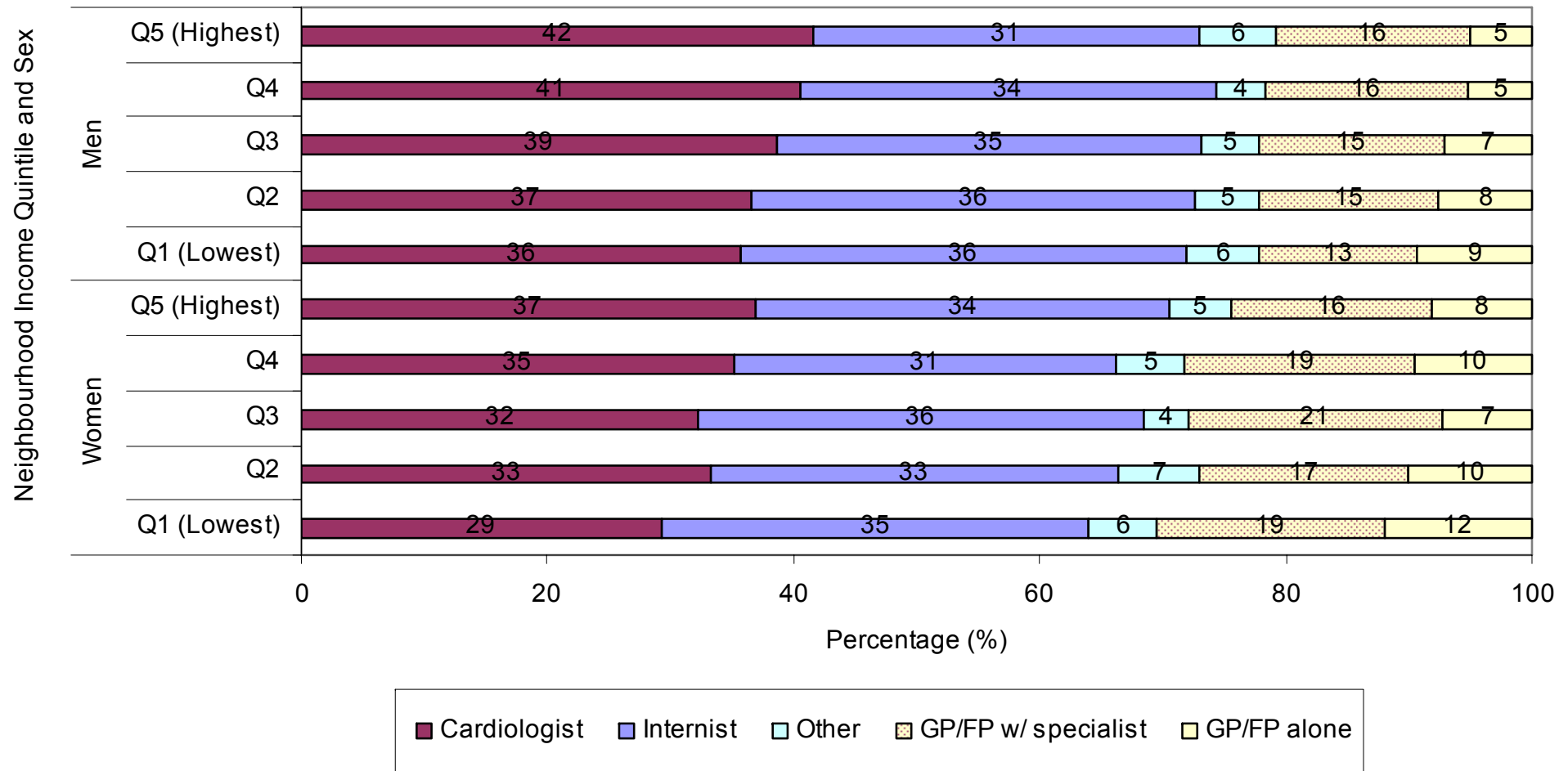
Men



Data source: CIHI-DAD

^ Specialist consultation includes consultation by a cardiologist or an internist/geriatrician
GP/FP refers to general practitioner or family physician

Type of physician providing in hospital care to adults age ≥ 45 hospitalized with an AMI, by sex and neighbourhood income quintile, in Ontario, 2005/06

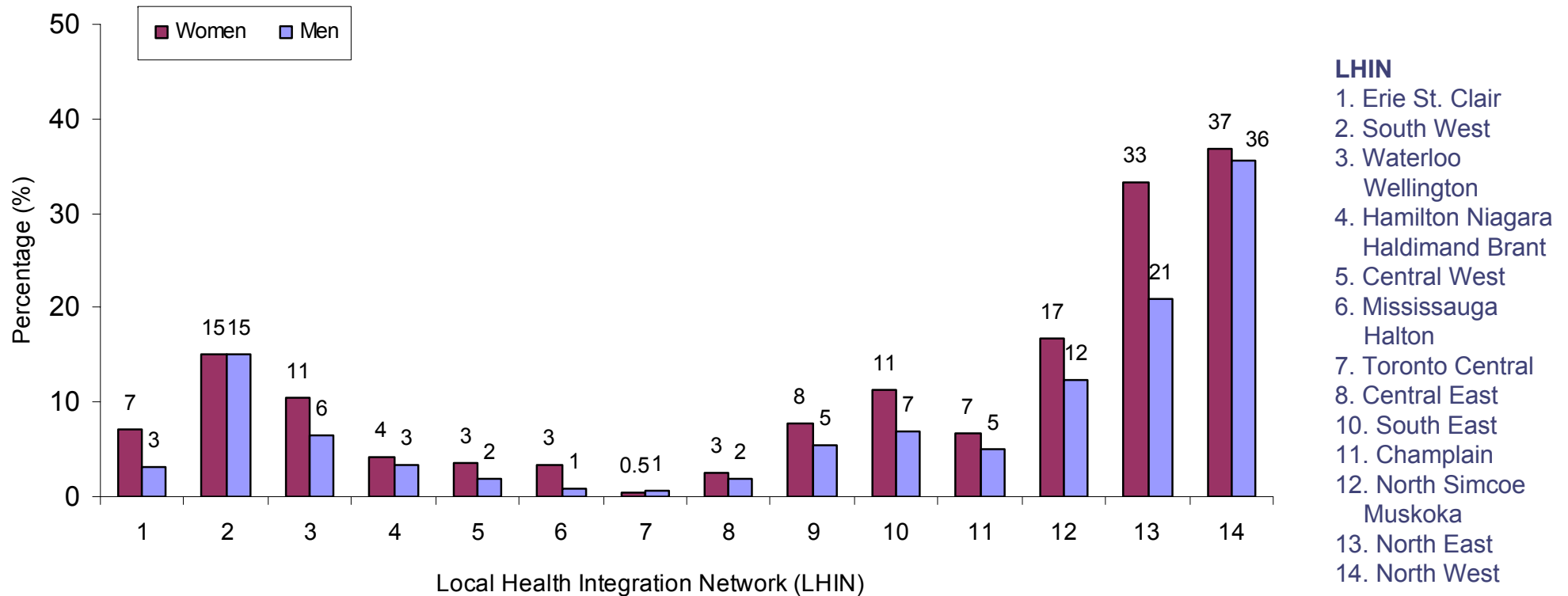


Data sources: CIHI-DAD; Statistics Canada 2001 Census

^ Specialist consultation includes consultation by a cardiologist or an internist/geriatrician

GP/FP refers to general practitioner or family physician

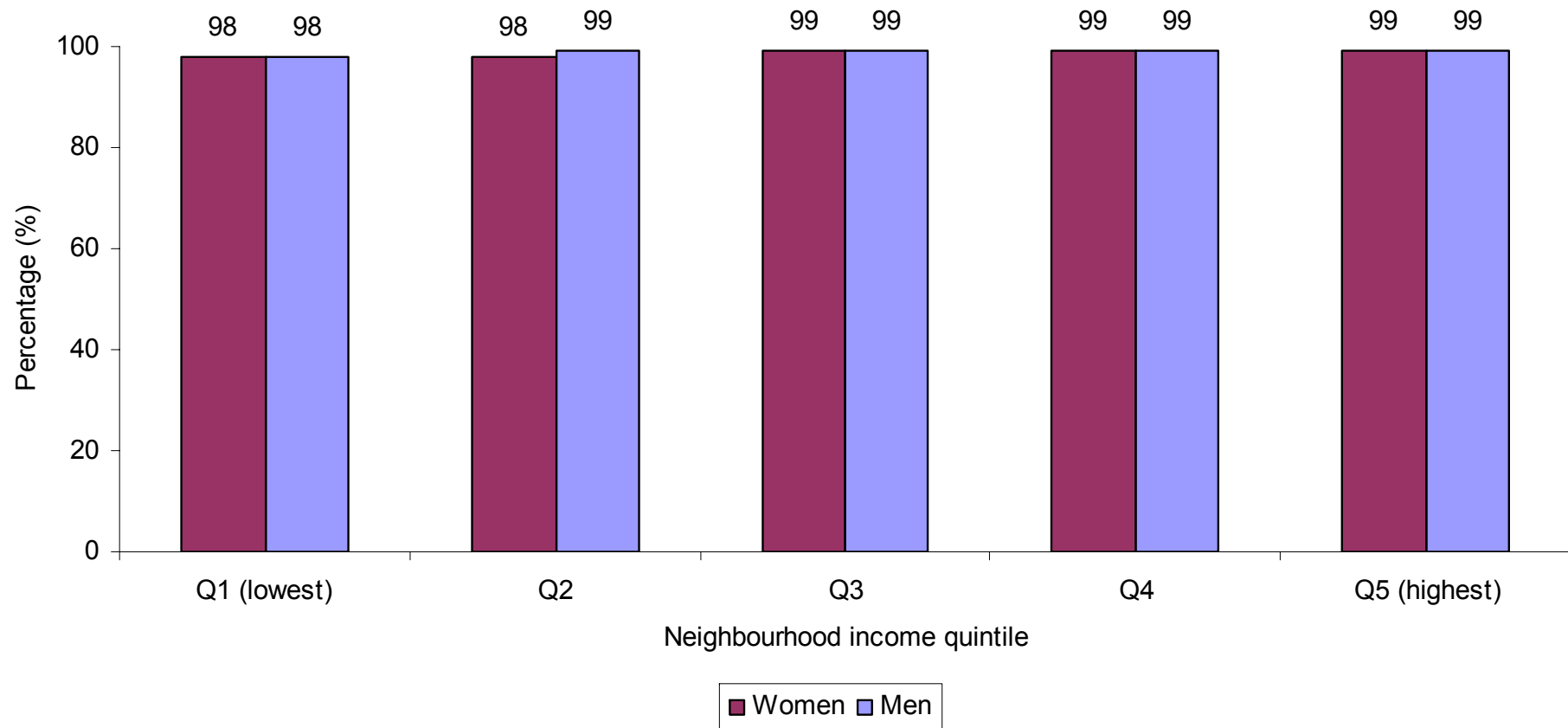
Percentage of adults age ≥ 45 hospitalized for an AMI, who were under the sole care of a GP/FP while in hospital, by sex and LHIN, in Ontario, 2005/06



Data source: CIHI-DAD

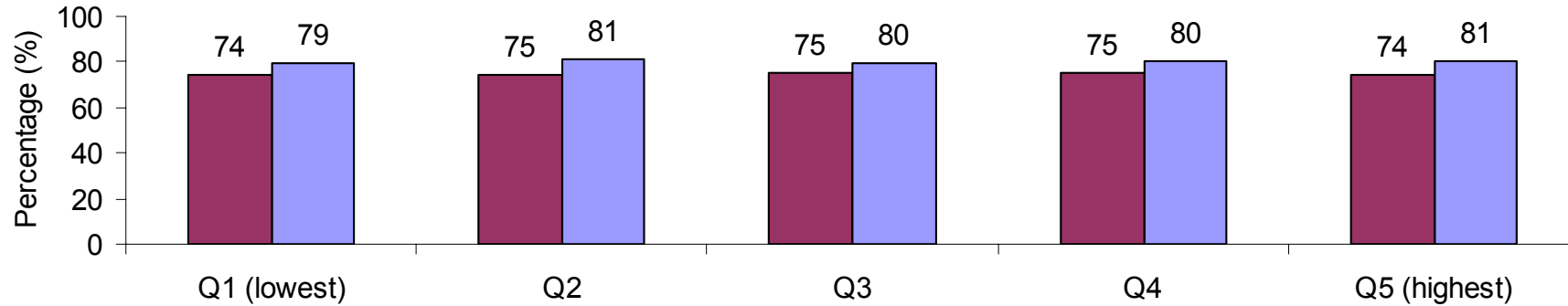
^ GP/FP refers to general practitioner or family physician

Percentage of adults age ≥ 45 hospitalized for an AMI, who were seen by a physician within four weeks of discharge, by sex and neighbourhood income quintile, in Ontario, 2005/06

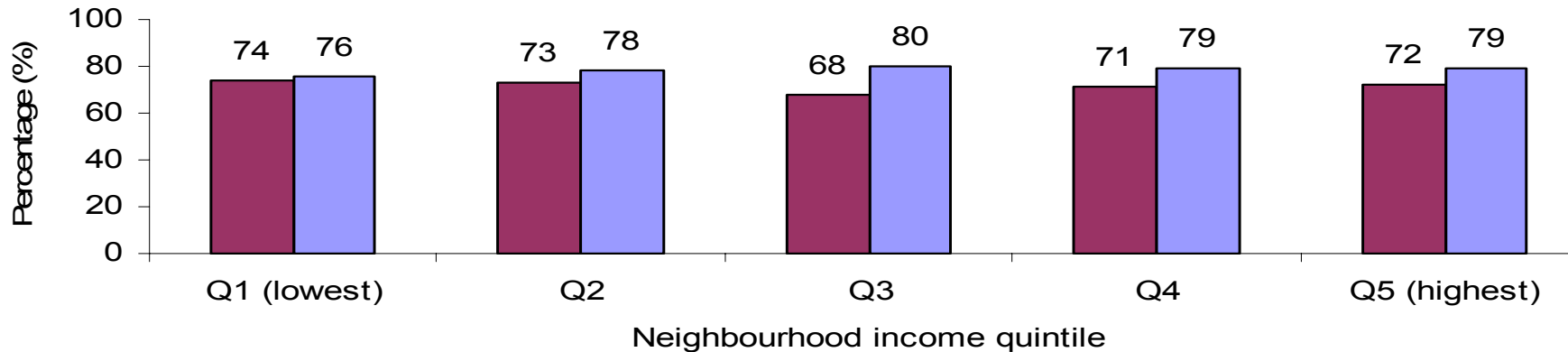


Percentage of AMI patients age ≥ 65 who filled a statin prescription post discharge from hospital, by sex and neighbourhood income quintile, in Ontario, 2005/06

Within 90 days of discharge



One year post-discharge[^]

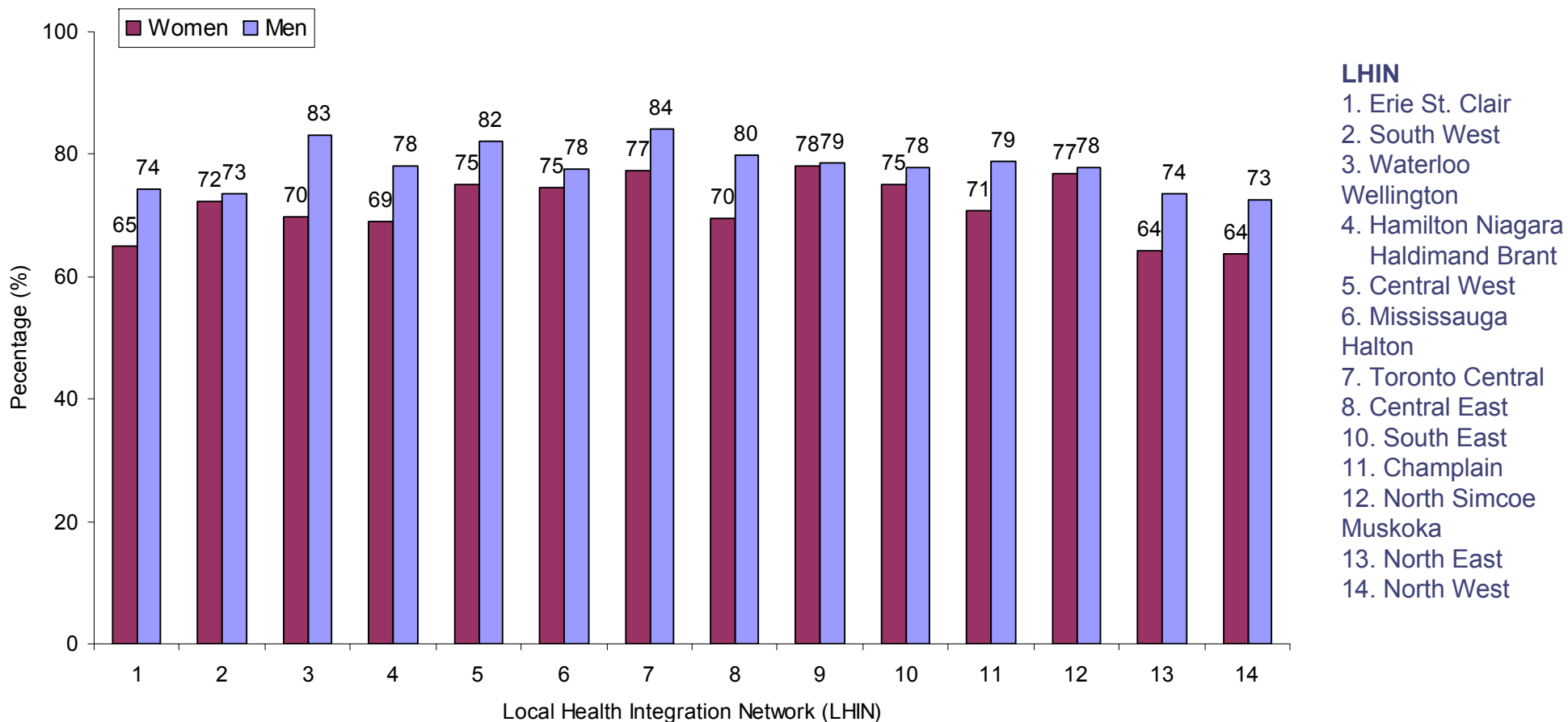


■ Women ■ Men

Data sources: CIHI-DAD; ODB; RPDB; Statistics Canada 2001 Census

[^] Sample is restricted to patients who were alive one year post discharge

Percentage of AMI patients age ≥ 65 who filled a statin prescription one year post discharge[^] from hospital, by sex and LHIN, in Ontario, 2005/06

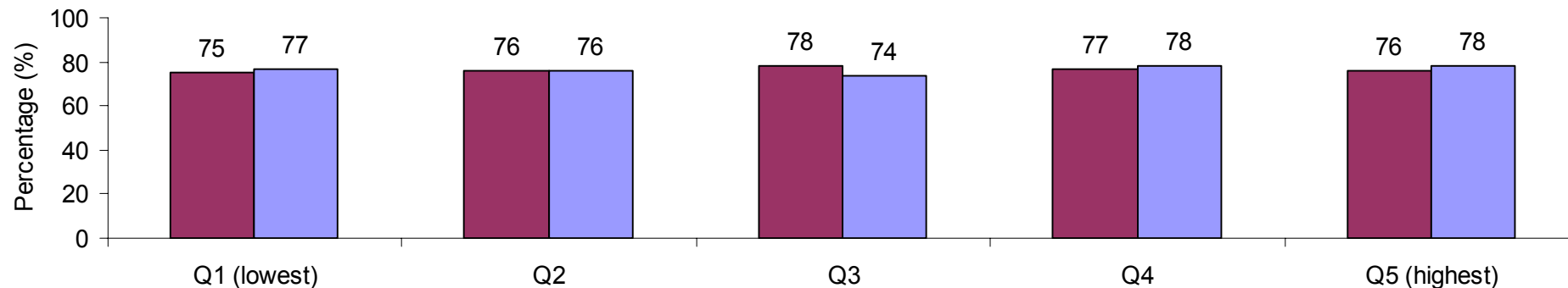


Data sources: CIHI-DAD; ODB; Registered Persons Database (RPDB); Statistics Canada 2001 Census

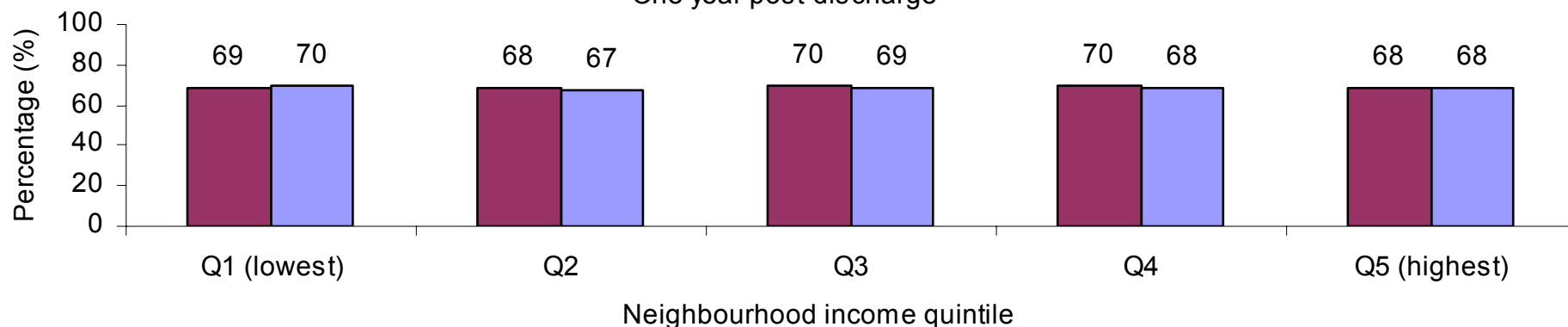
[^] Sample is restricted to patients who were alive one year post discharge

Percentage of AMI patients age ≥ 65 who filled a beta blocker prescription post discharge from hospital, by sex and neighbourhood income quintile, in Ontario, 2005/06

Within 90 days of discharge



One year post-discharge[^]

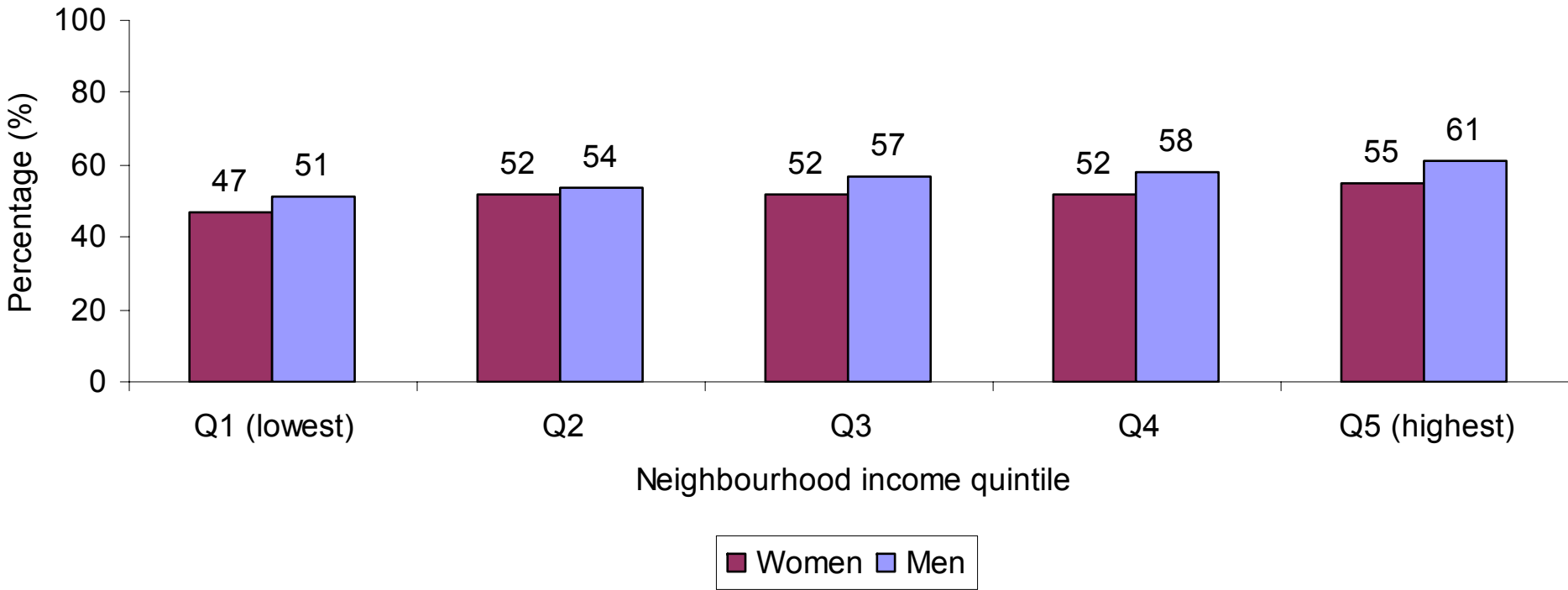


■ Women ■ Men

Data sources: CIHI-DAD; ODB; RPDB; Statistics Canada 2001 Census

[^] Sample is restricted to patients who were alive one year post discharge

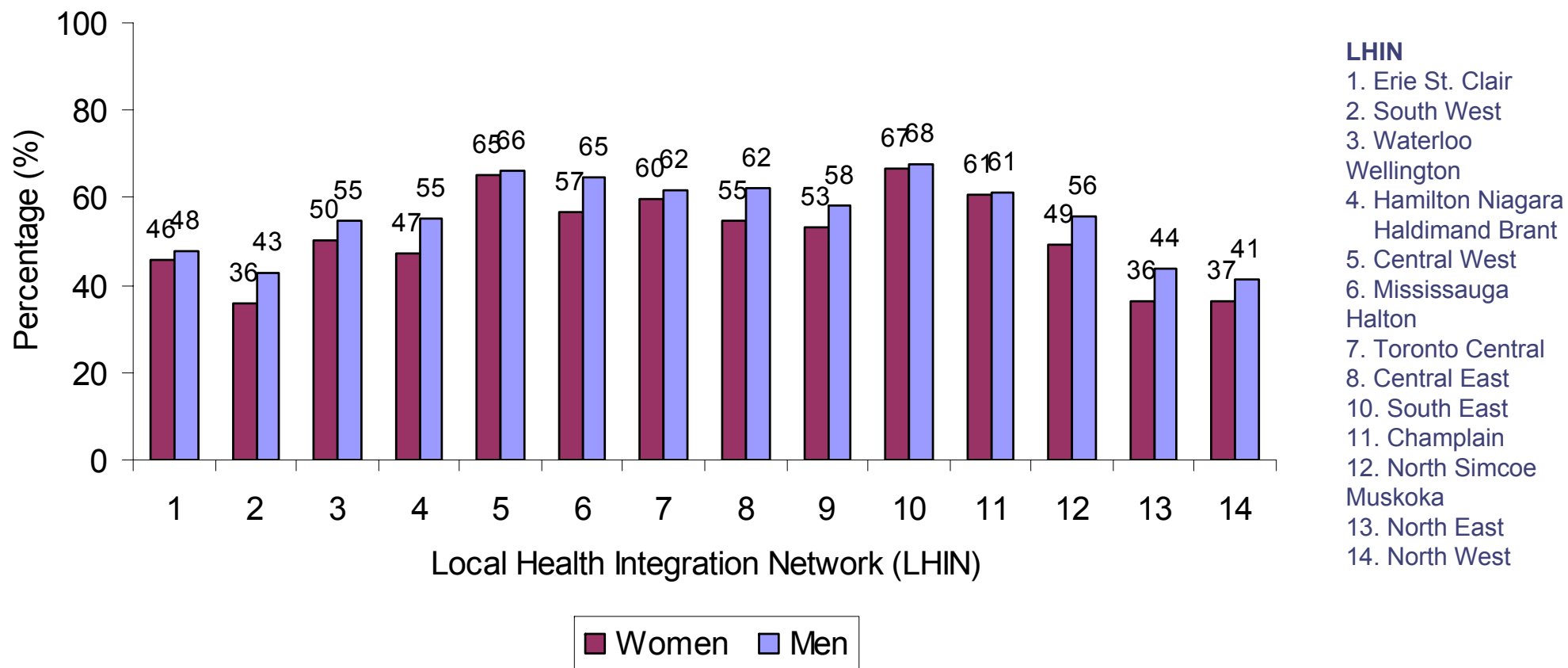
Age-standardized percentage of adults age ≥ 45 admitted to hospital with an AMI who underwent an angiography[^] within three months of discharge, by sex and neighbourhood income quintile, in Ontario, 2005/06



Data sources: CIHI-DAD; Statistics Canada 2001 Census; Canadian Cardiac Network (CCN)

[^] Angiography was measured as in-hospital procedures performed prior to hospital discharge or referral within three months of discharge

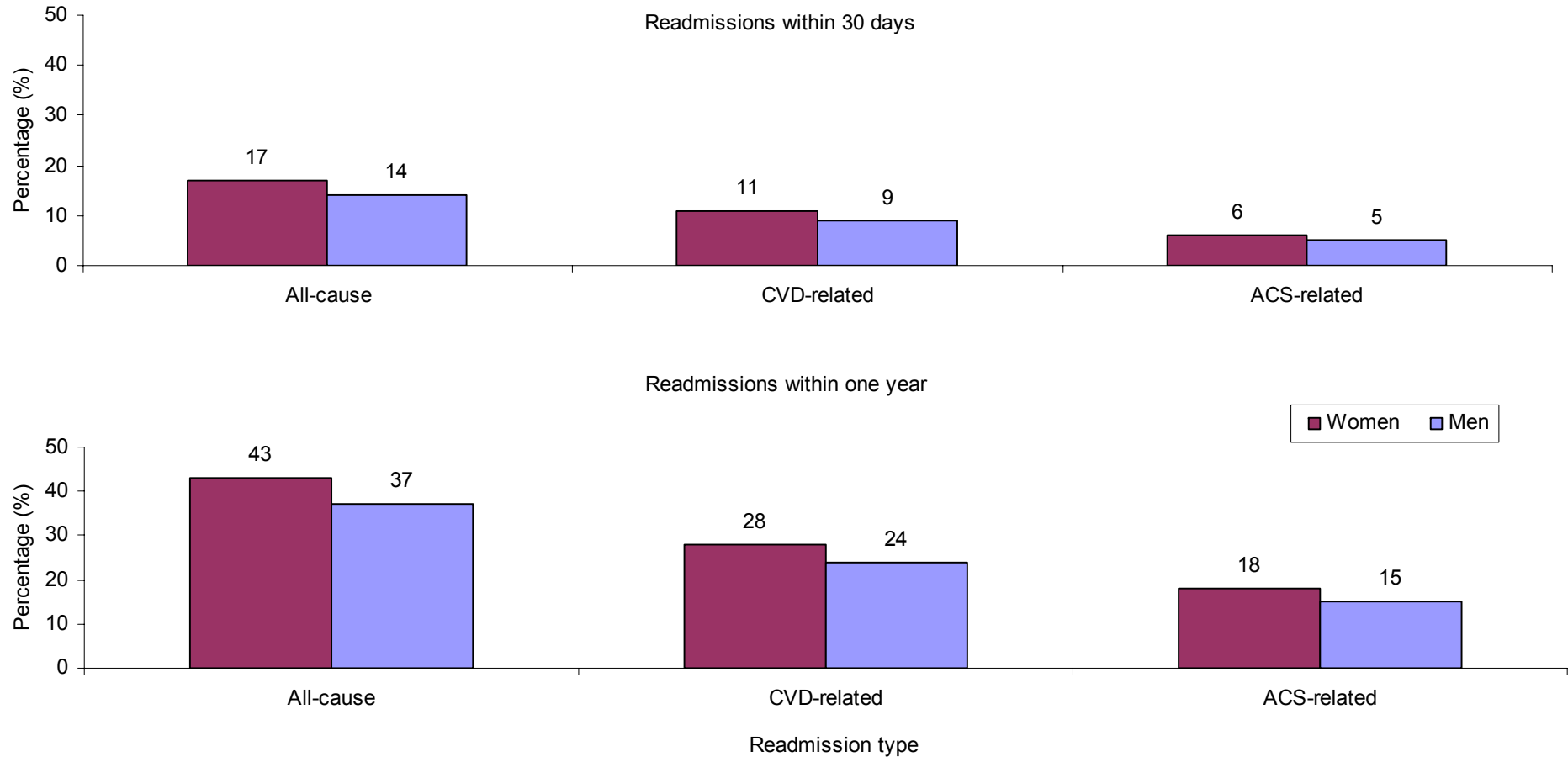
Age-standardized percentage of adults age ≥ 45 admitted to hospital with an AMI who underwent or were referred to an angiography[^] within three months of discharge, by sex and LHIN, in Ontario, 2005/06



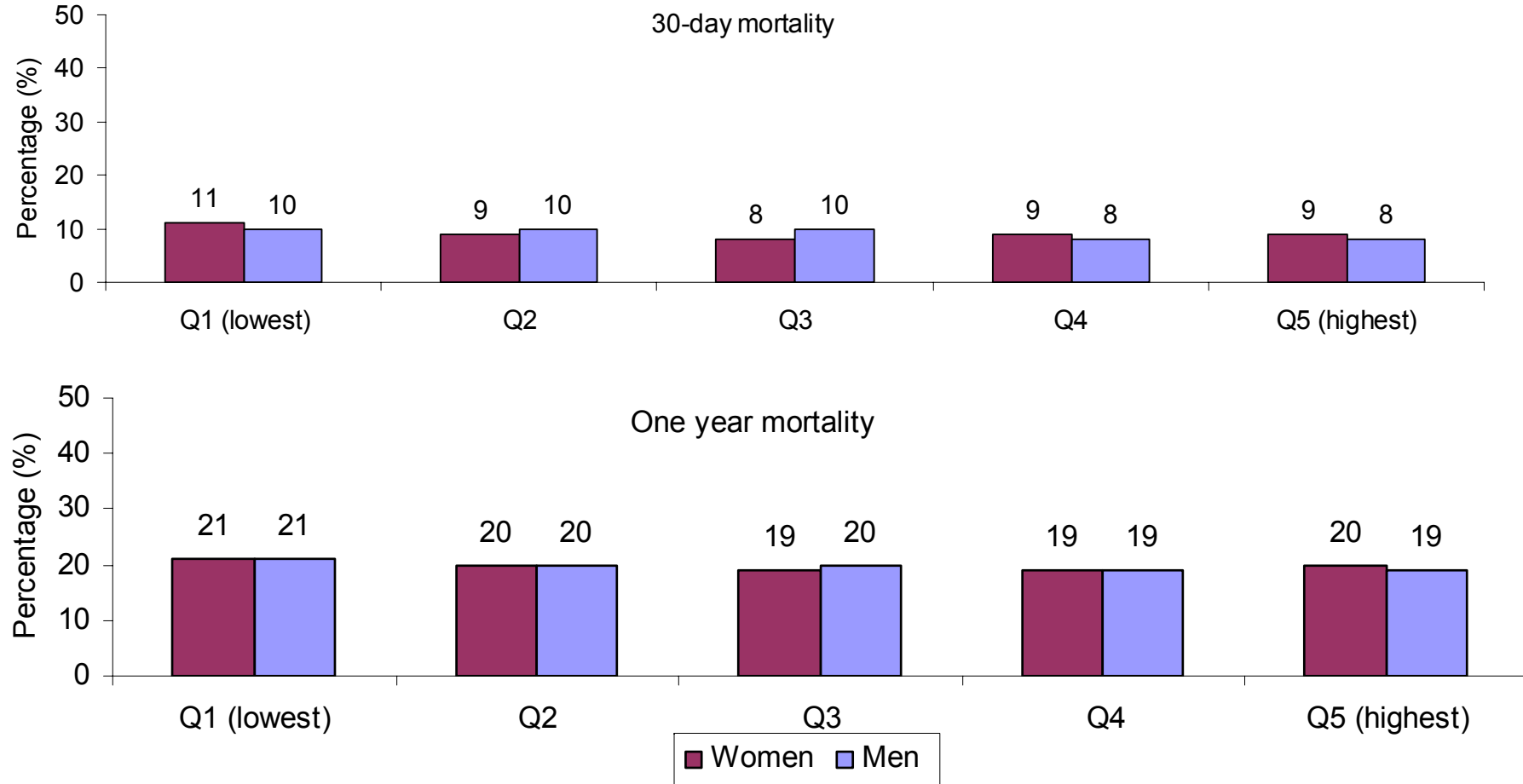
Data sources: CIHI-DAD; Canadian Cardiac Network (CCN)

[^] Angiography was measured as in-hospital procedures performed prior to hospital discharge or referral within three months of discharge

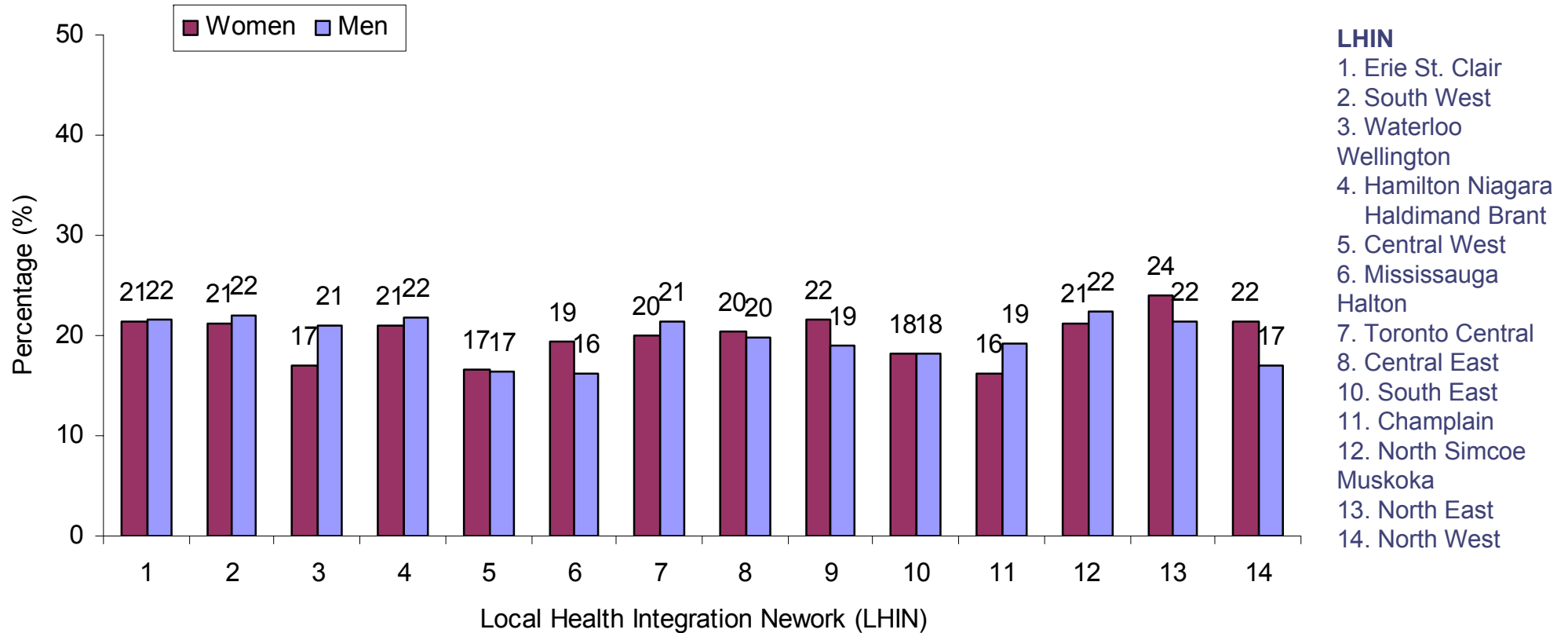
Risk-adjusted, non-elective readmission rates (percentage) in AMI patients age ≥ 45 who were admitted to hospital, by sex, type of readmission and period, in Ontario, 2005/06



Risk-adjusted mortality (percentage) among adults age ≥ 45 who were admitted to hospital for AMI, by sex and neighbourhood income quintile, in Ontario, 2005/06



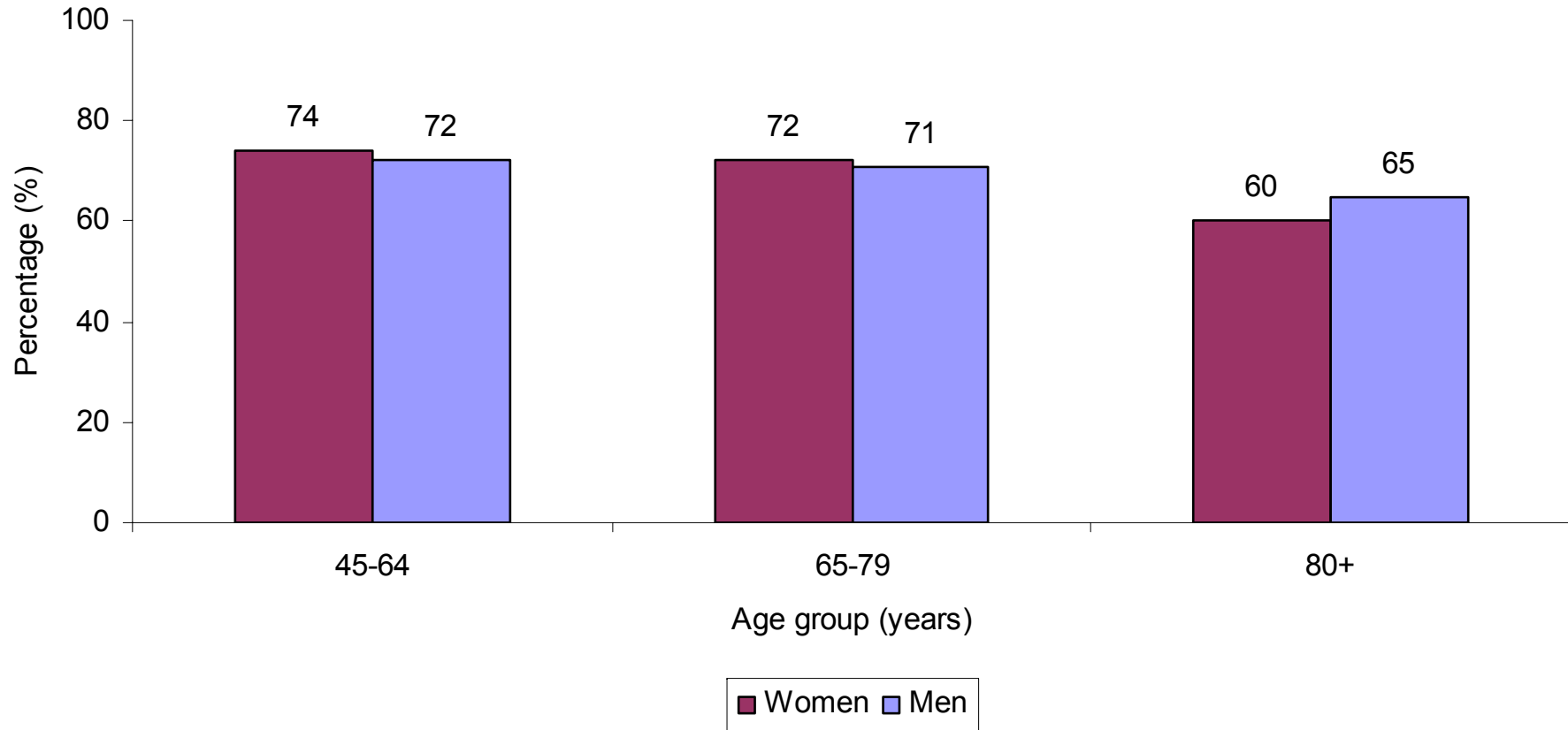
One year risk-adjusted mortality (percentage) among adults age ≥ 45 who were admitted to hospital for AMI, by sex and LHIN, in Ontario, 2005/06



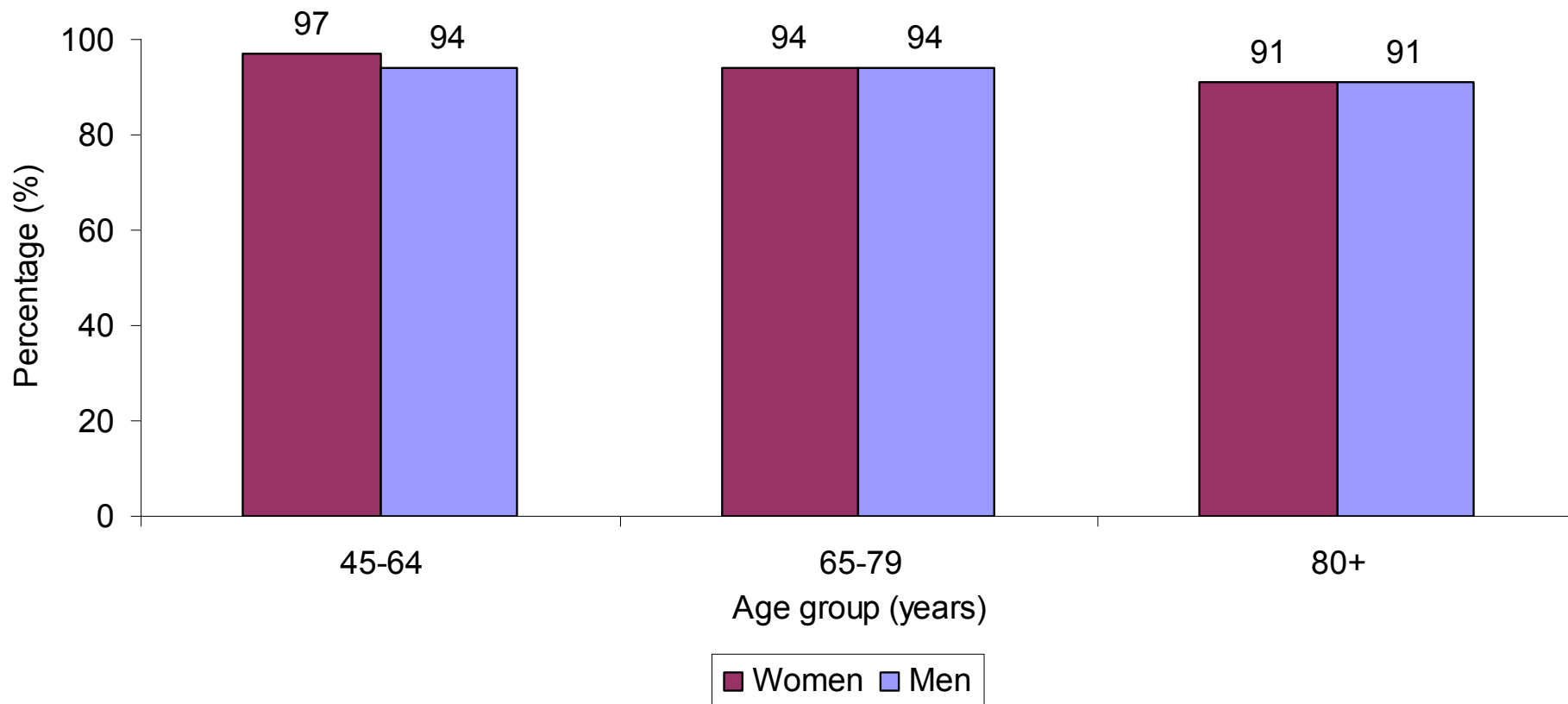
Data sources: CIHI-DAD; RPDB
Risk-adjusted for age and comorbidities

- Stroke

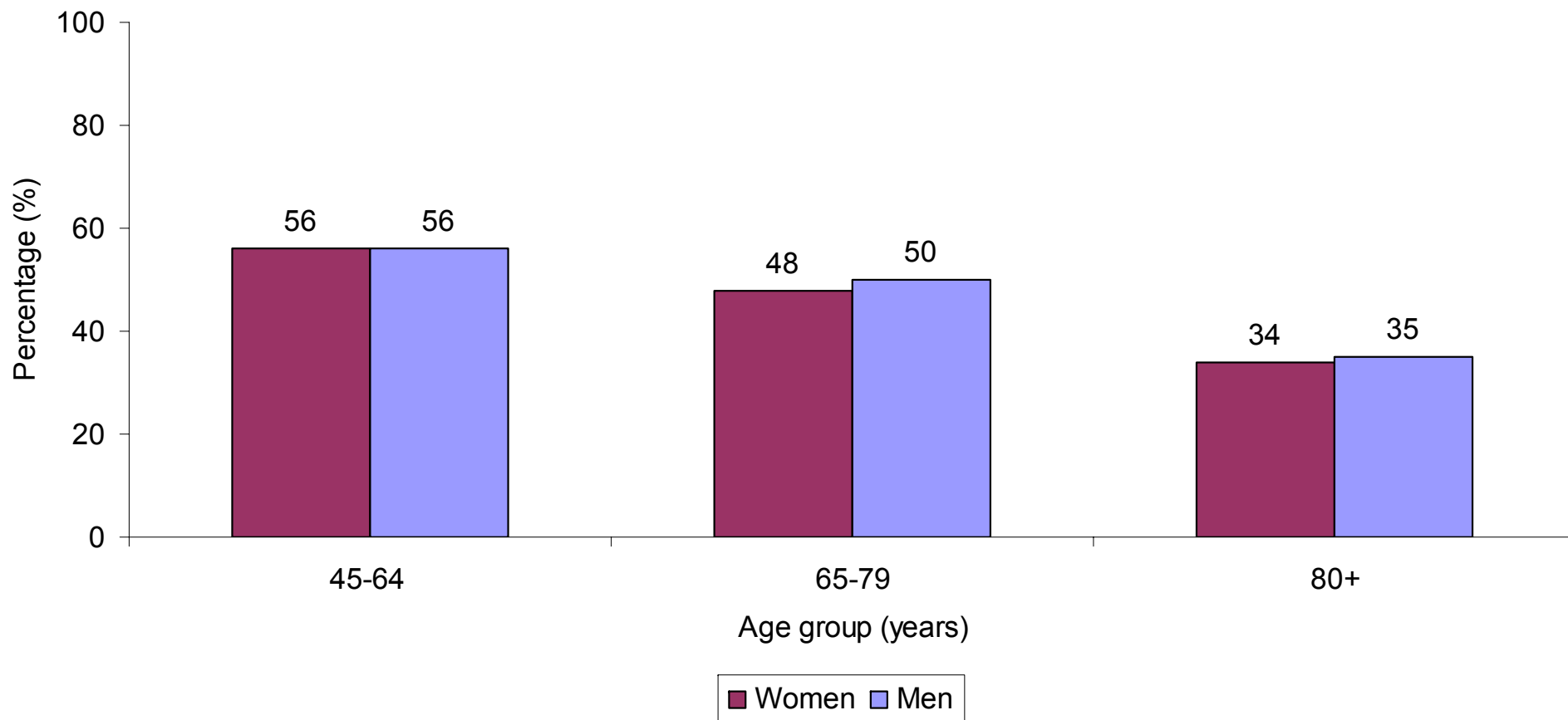
Percentage of adults age ≥ 45 admitted to hospital for ischemic stroke or transient ischemic attack (TIA) who received antiplatelet therapy within 48 hours of arrival to hospital, by sex and age group, in Ontario, 2004/05



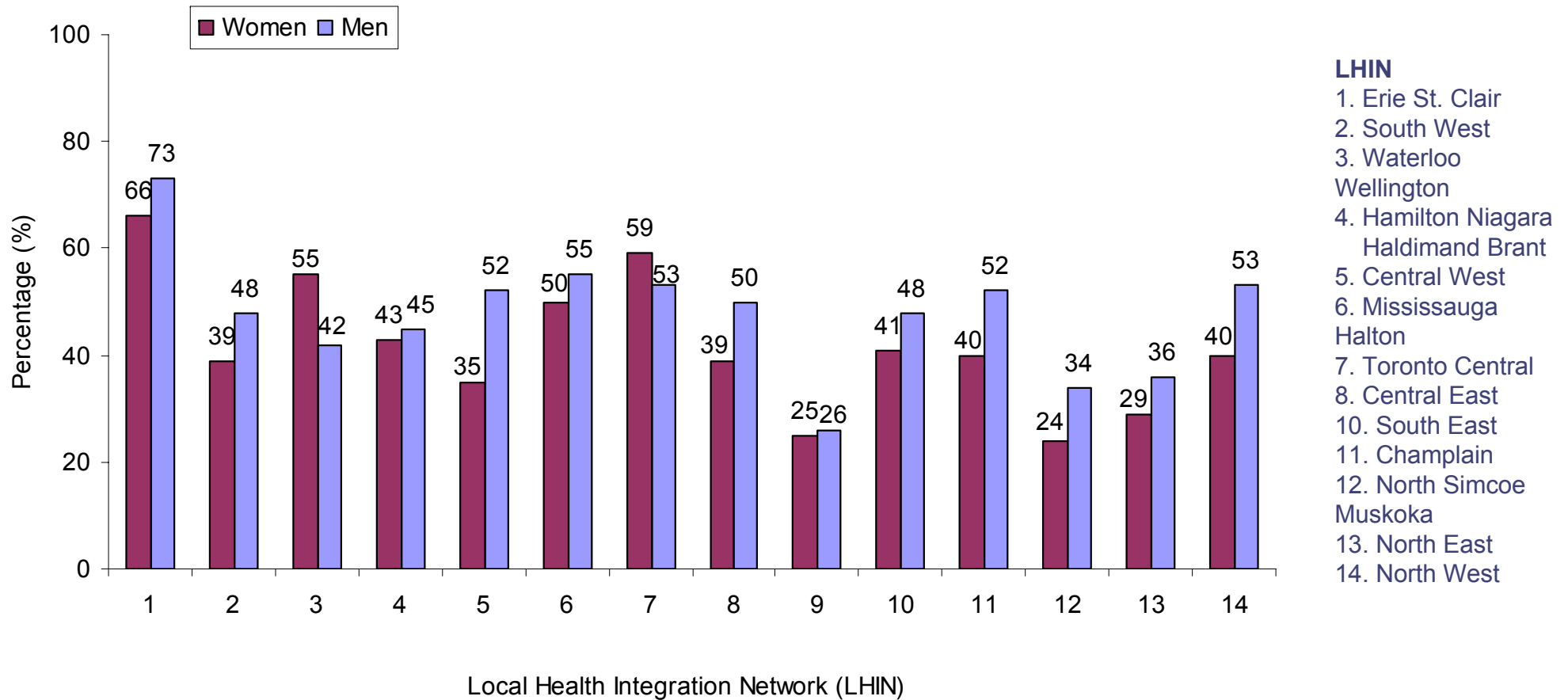
Percentage of patients age ≥ 45 admitted to hospital for ischemic stroke or TIA who were prescribed antithrombotic therapy at hospital discharge, by sex and age group, in Ontario, 2004/05



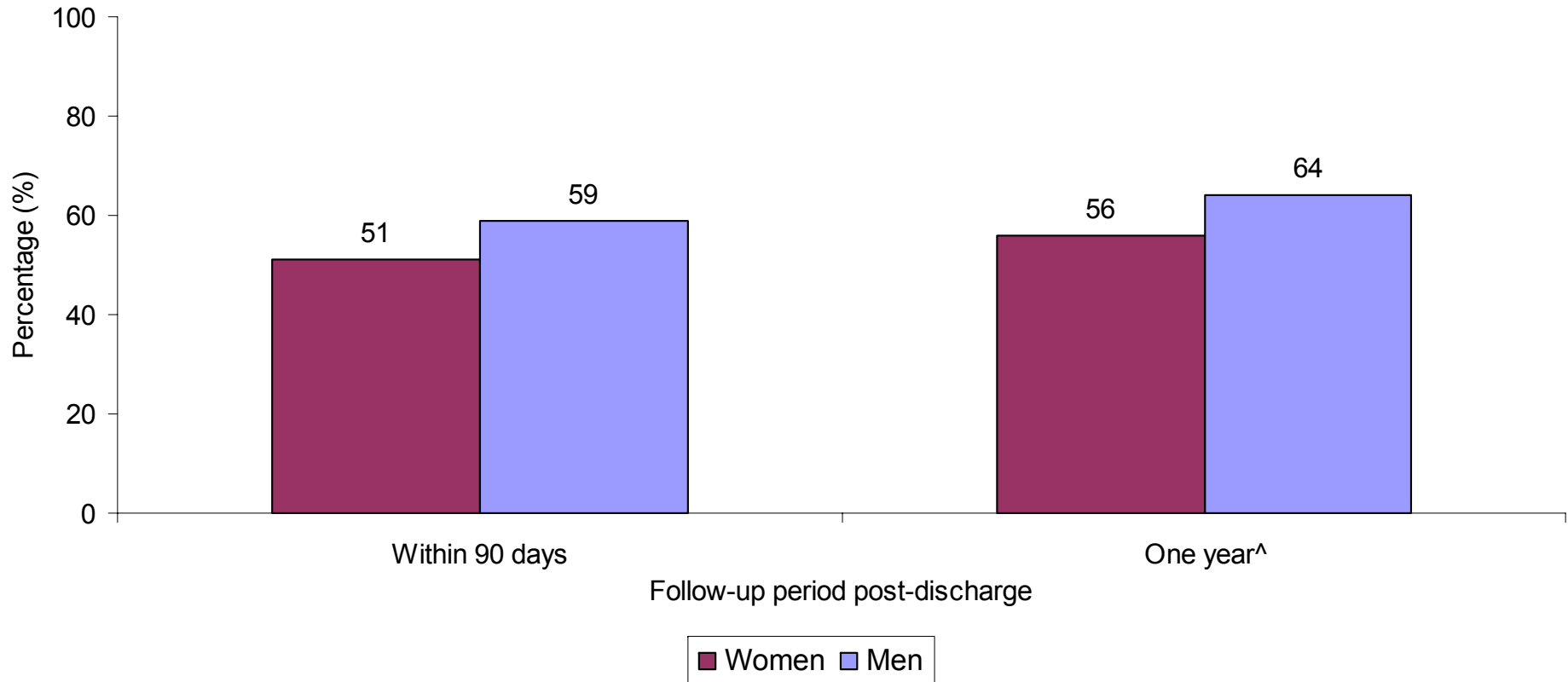
Percentage of patients admitted to hospital with ischemic stroke or TIA age ≥ 45 who had lipid levels measured while in hospital, by sex and age group, in Ontario, 2004/05



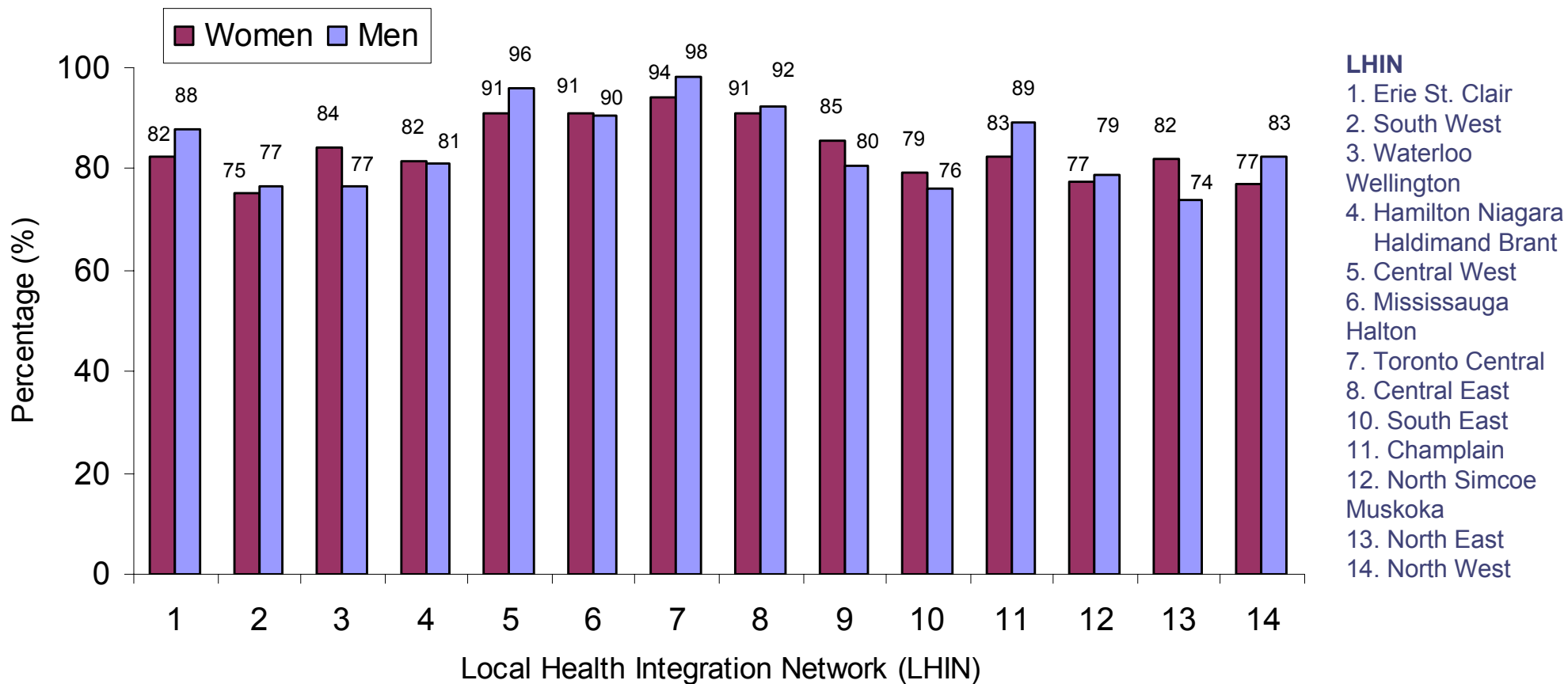
Percentage of patients age ≥ 45 admitted to hospital with ischemic stroke or TIA who had their lipid levels measured while in hospital, by sex and LHIN, in Ontario, 2004/05



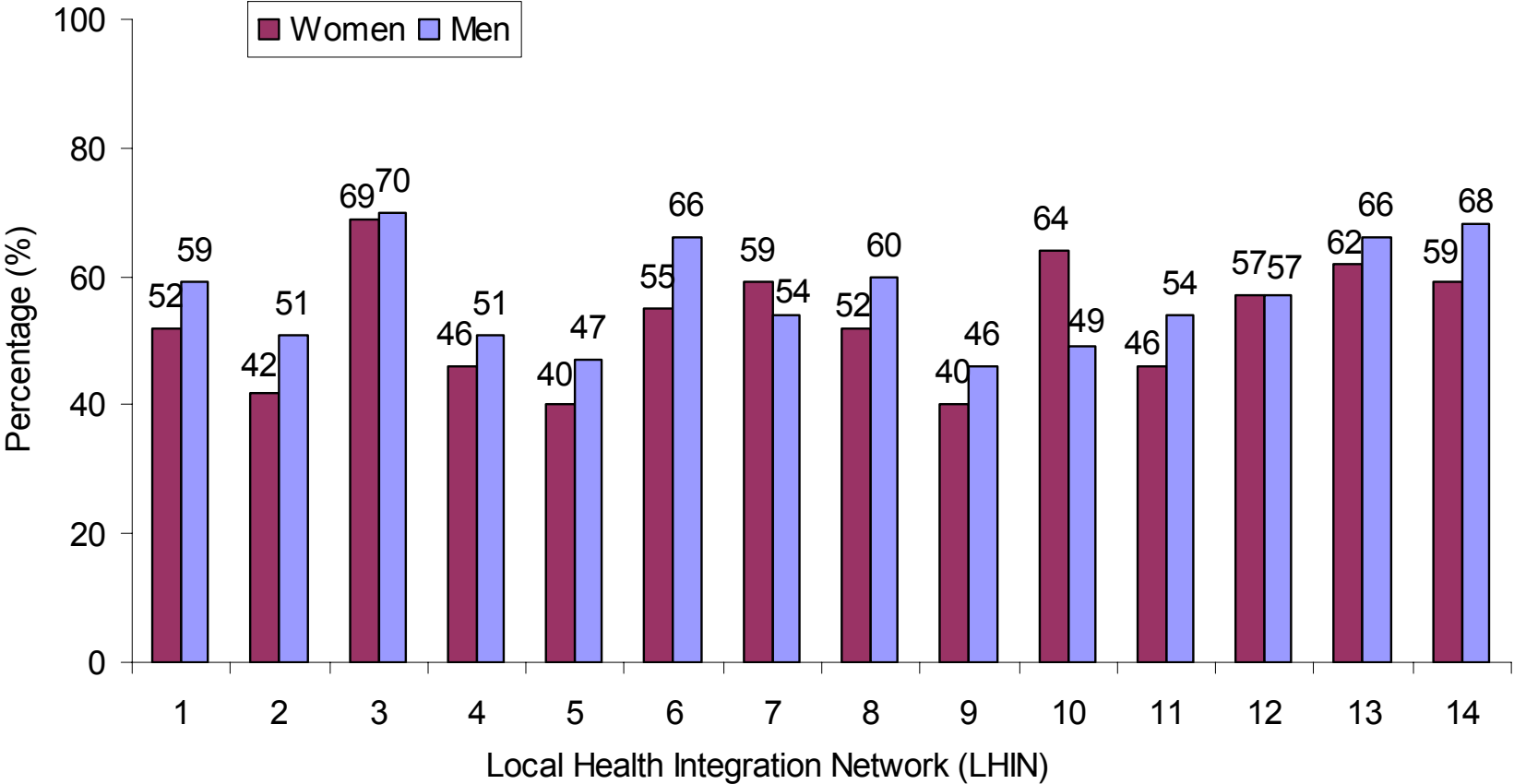
Percentage of patients age ≥ 65 admitted to hospital with ischemic stroke or TIA who were prescribed lipid lowering therapy post discharge from hospital, by sex and follow-up period, in Ontario, 2004/05



Percentage of adults age ≥ 45 who were seen in an emergency department or hospitalized with a stroke or TIA who underwent neuroimaging before discharge, by sex and LHIN, in Ontario, 2004/05

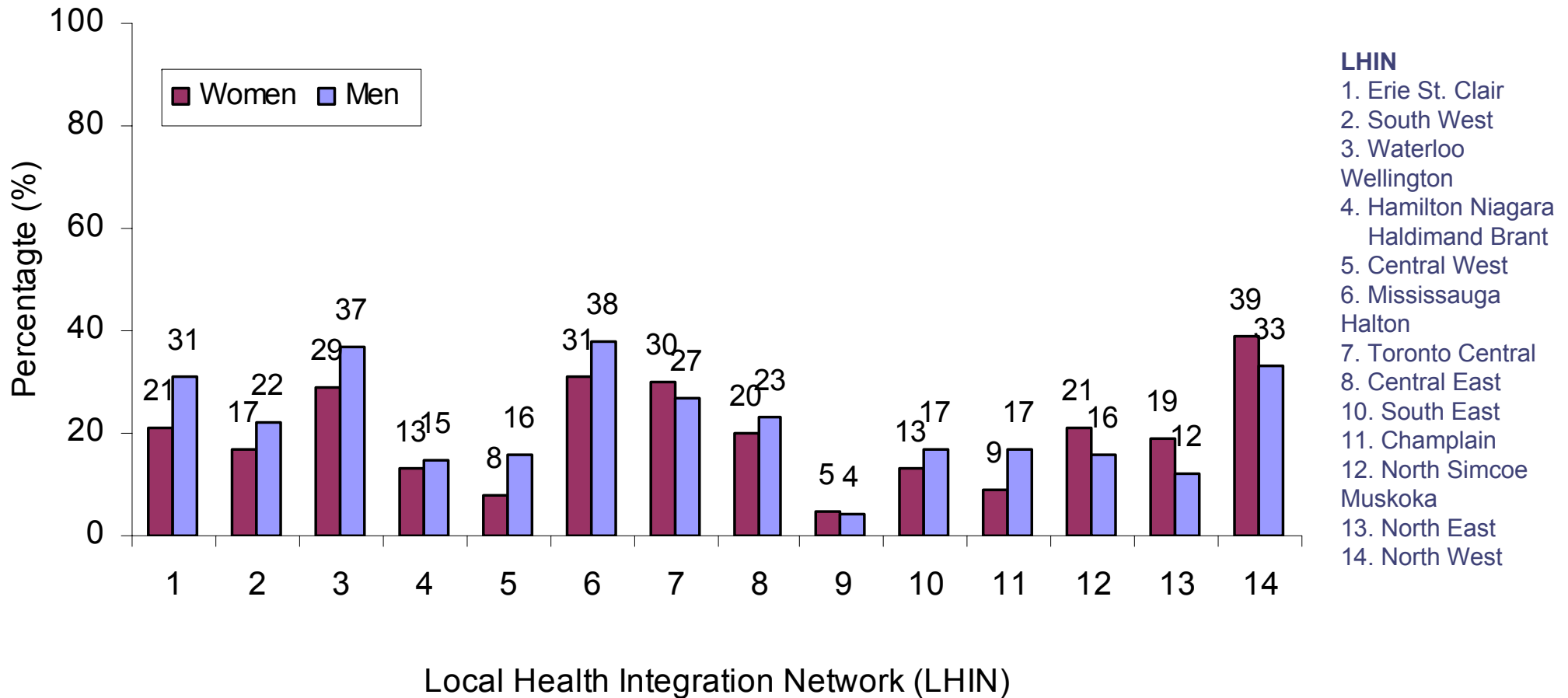


Percentage of adults age ≥ 45 who were seen in an emergency department or hospitalized with an ischemic stroke or TIA who underwent or who were scheduled to undergo carotid imaging, by sex and LHIN, in Ontario, 2004/05

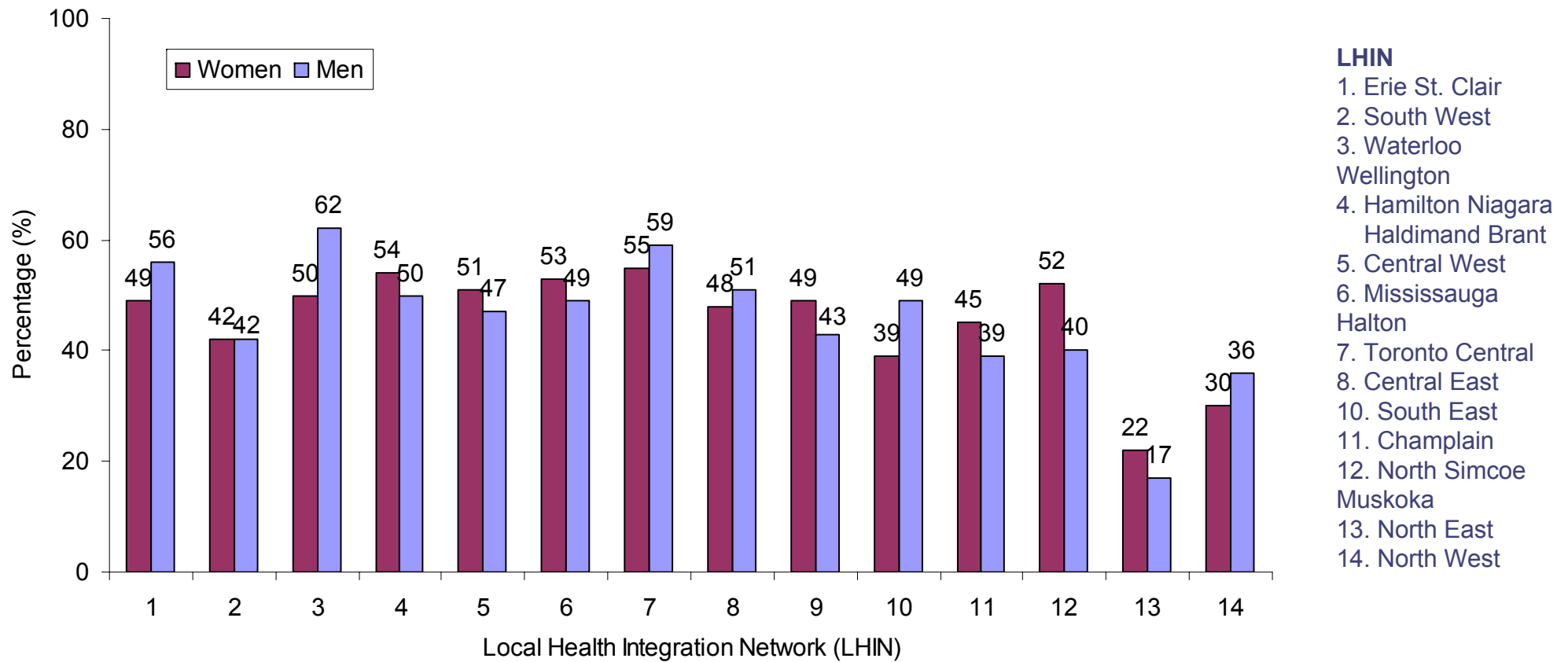


- LHIN**
- 1. Erie St. Clair
 - 2. South West
 - 3. Waterloo Wellington
 - 4. Hamilton Niagara Haldimand Brant
 - 5. Central West
 - 6. Mississauga Halton
 - 7. Toronto Central
 - 8. Central East
 - 10. South East
 - 11. Champlain
 - 12. North Simcoe Muskoka
 - 13. North East
 - 14. North West

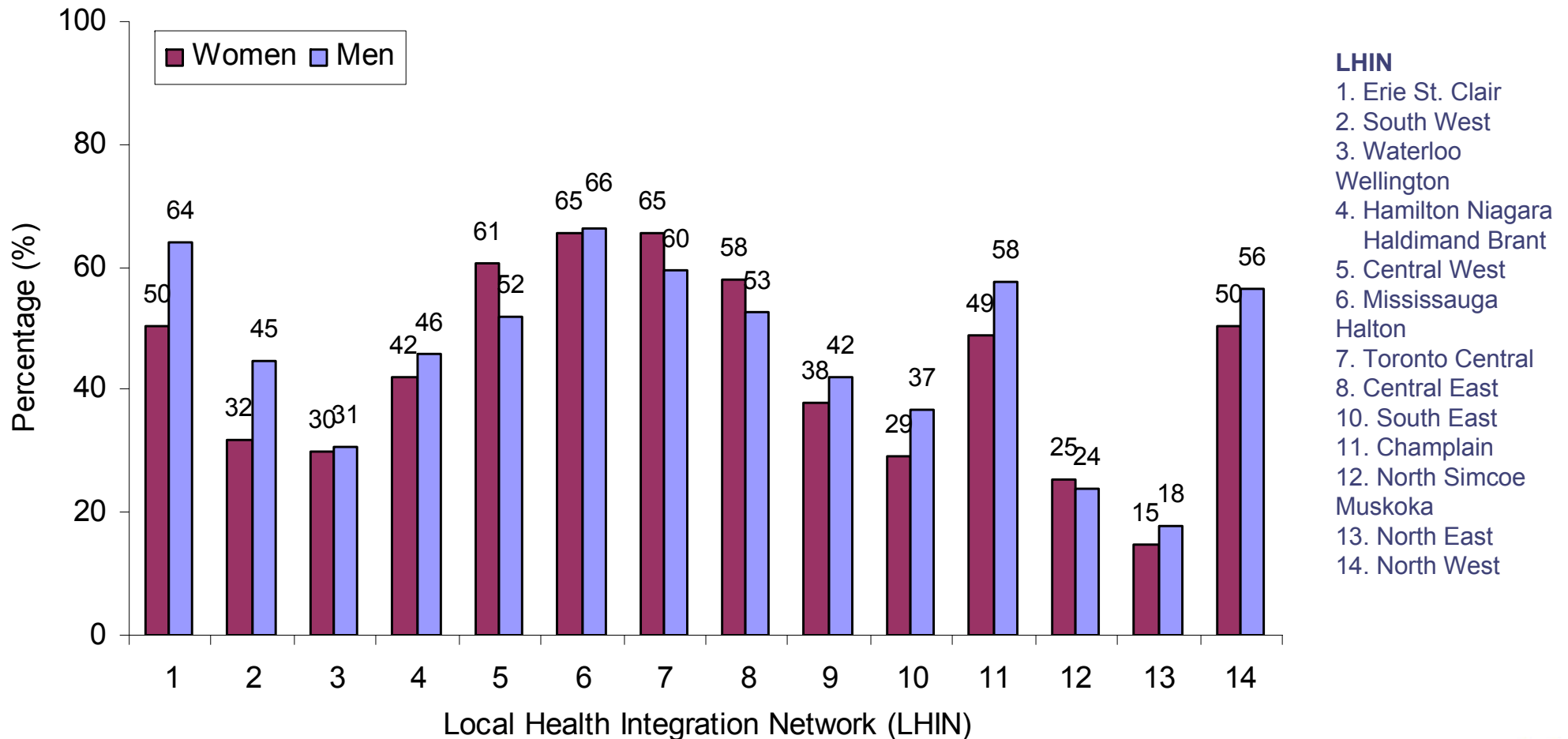
Percentage of adults age ≥ 45 admitted to hospital for a stroke or TIA who were cared for in a dedicated stroke unit while in hospital, by sex and LHIN, in Ontario, 2004/05



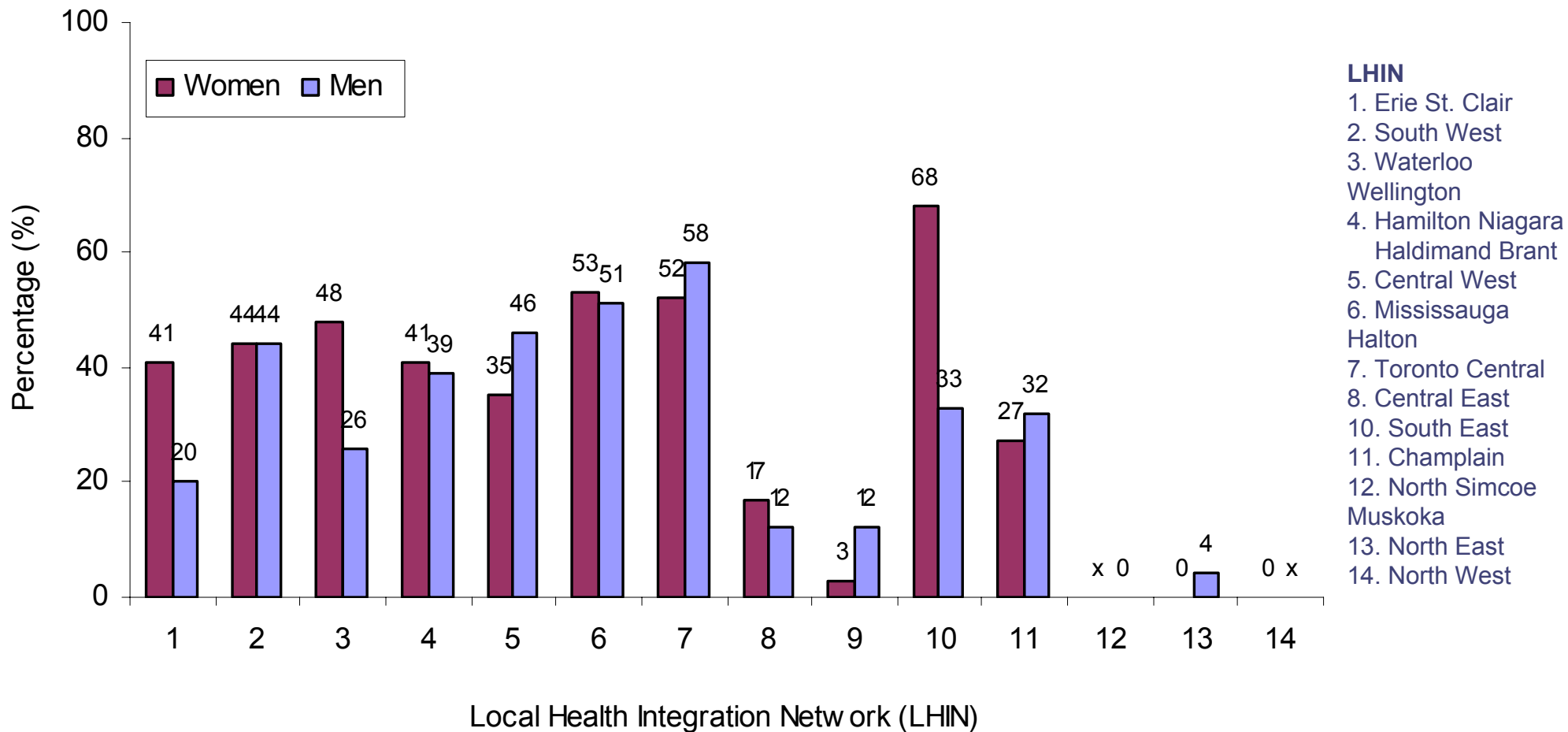
Percentage of stroke or TIA patients age ≥ 45 who were screened for dysphagia while in hospital, by sex and LHIN, in Ontario, 2004/05



Percentage of adults age ≥ 45 who were seen in an emergency department or hospitalized for a stroke or TIA who received neurology or neurosurgical consultation, by sex and LHIN, in Ontario, 2004/05

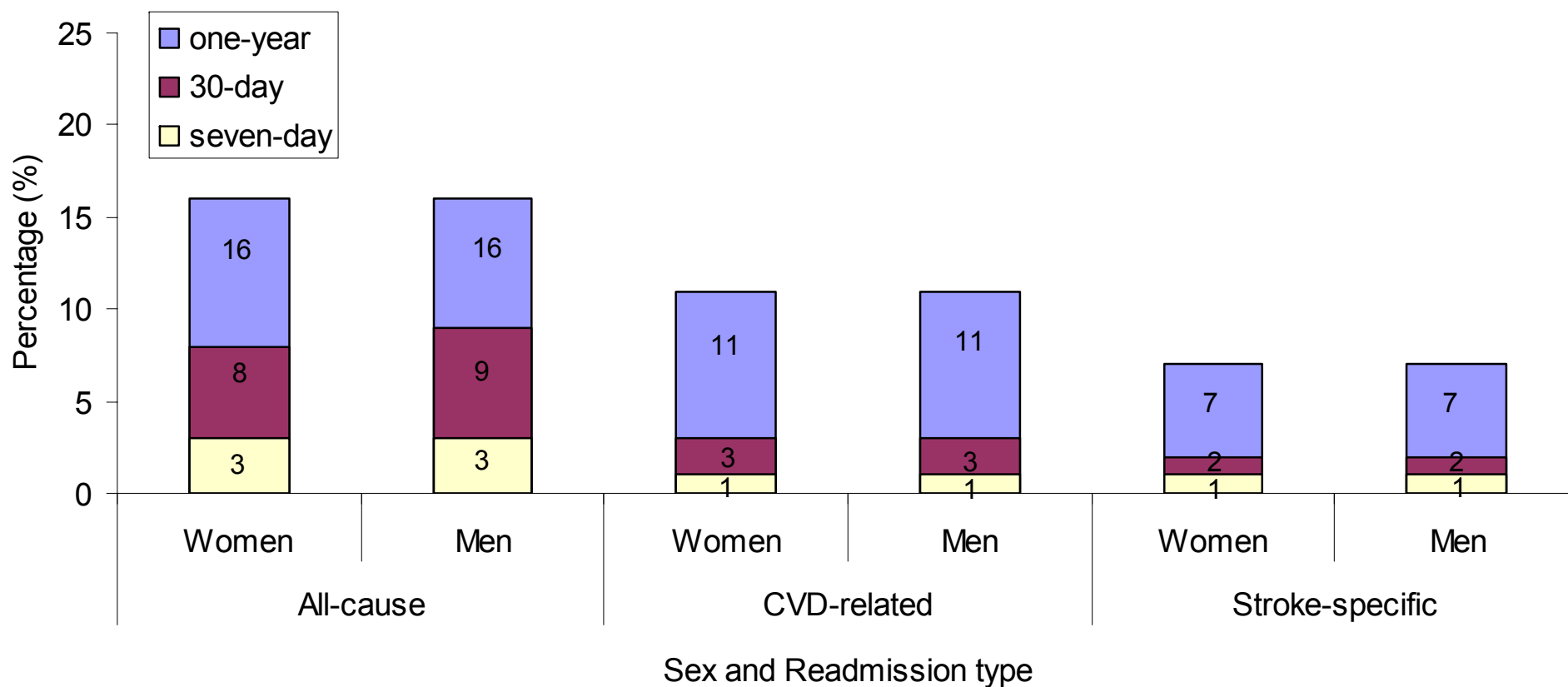


Percentage of adults age ≥ 45 discharged from an emergency department with a diagnosis of stroke or TIA who received a referral to a stroke prevention clinic, by sex and LHIN, in Ontario, 2004/05



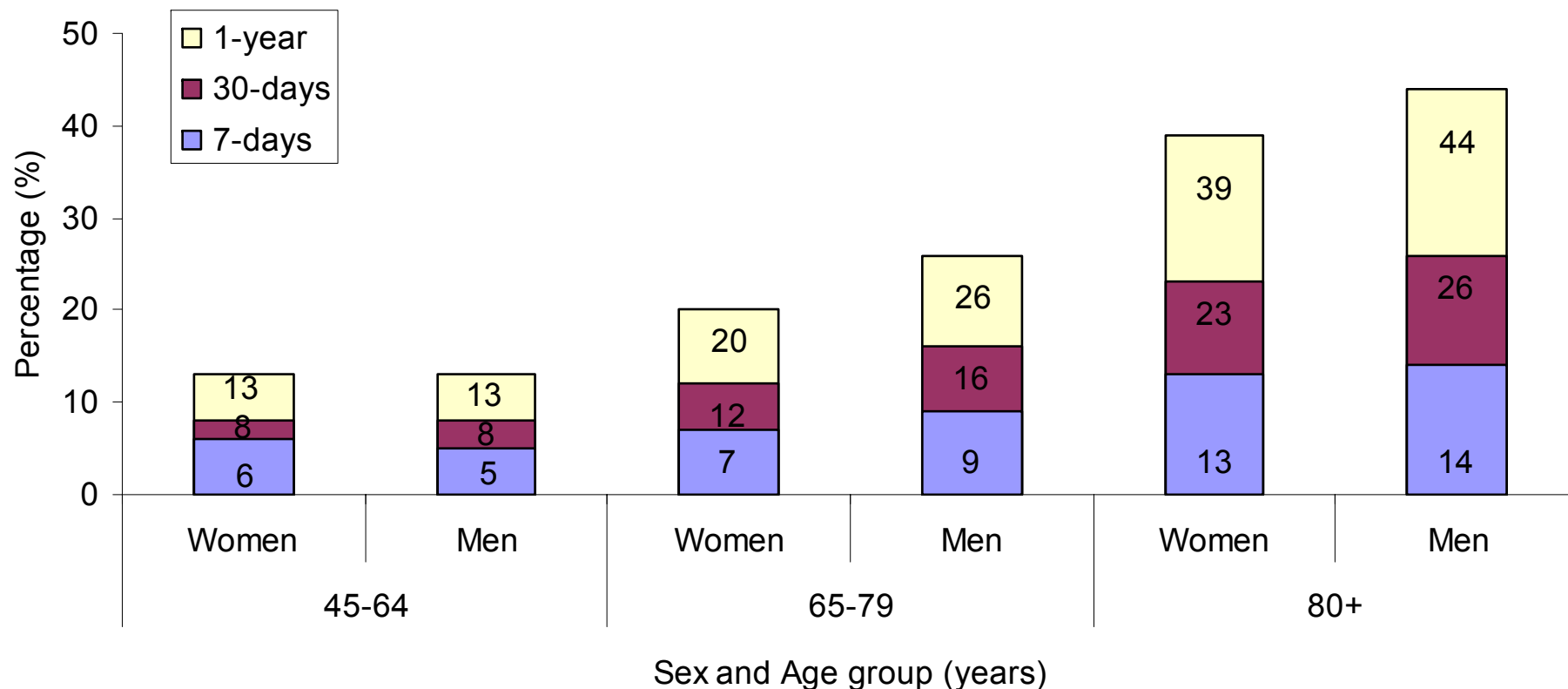
Data source: RCSN-OSA
 X suppressed due to small sample size

Risk-adjusted readmission rates among adults age ≥ 45 discharged alive from hospital with a primary diagnosis of stroke or TIA, by sex, readmission type and follow up period, in Ontario 2005/06

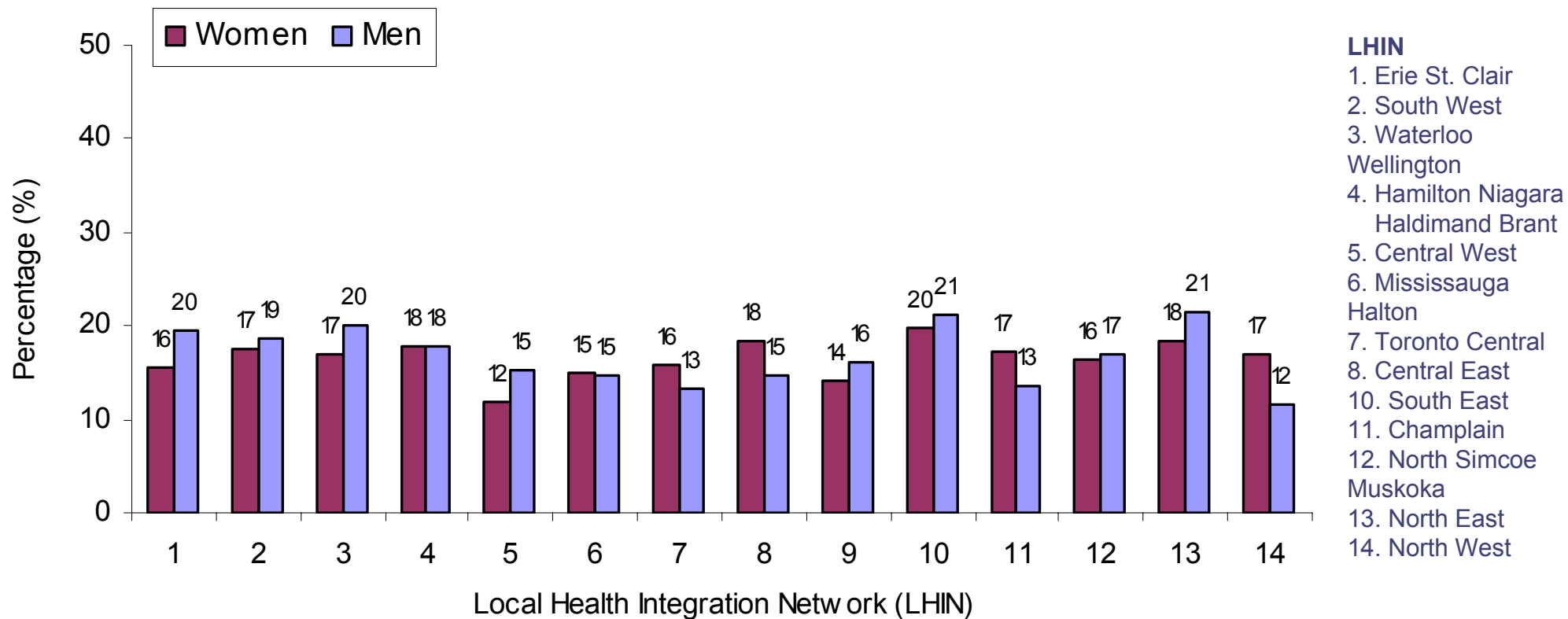


Data sources: CIHI-DAD; NACRS
 Risk-adjusted for age, Charlson-Deyo comorbidity index and stroke type

Risk-adjusted mortality among adults age ≥ 45 seen in an emergency department or admitted to hospital with a primary diagnosis of stroke or TIA by sex, age group and period of follow up, in Ontario, 2005/06



Risk-adjusted 30-day mortality among adults age ≥ 45 seen in an emergency department or admitted to hospital with a primary diagnosis of stroke or TIA by sex and LHIN, in Ontario, 2005/06



Data sources: CIHI-DAD; RPDB
 Risk-adjusted for age, Charlson-Deyo comorbidity index and stroke type

Study Limitations

- We indicate *where* disparities occurred, but cannot explain *why* disparities occurred
- Data sources created for administrative purposes
 - Insufficient clinical detail
- Survey data influenced based on self report
- Medication data coverage (65 and older)
- Limited data on ambulatory care
- Older data (2001 or 2005/06)
- Neighbourhood income quintile as a proxy measure for SES
- No data on ethnicity

Summary of Findings: Health And Functional Status and CVD Risk Factors

- Women who reported they had heart disease or that they have had a stroke consistently reported worse functional status and higher rates of disability than men.
- Lower socioeconomic status was also associated with worse functional status and higher rates of disability among women and men with CVD.
- The prevalence of CVD risk factors was high among both women and men and across income categories, underscoring the need for secondary prevention

Summary of Findings: Heart Failure, Ischemic Heart Disease, Stroke

- Rates of potentially avoidable emergency department use and hospital readmission were high for both women and men after a hospital admission for HF.
- Despite progress, gender gaps in care persist.
- Income was associated with some differences in care.
- Age was associated with differences in performance on many measures.
- Performance on many measures varied across the province.

Key messages

- Reduce health inequities associated with CVD by focusing upstream.
- Prevention (primary and secondary) is key to reducing the burden of illness due to CVD.
- Close the gender gap in care for CVD.
- Comprehensive patient-centred chronic disease management can improve quality and outcomes of care for CVD.
- Province-wide, integrated, organized models of care delivery can improve health outcomes and reduce inequities in care.
- Improve quality, availability and timeliness of data to assess CVD and CVD care in the province.

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