eTable 1 Administrative health data sources

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| **Database**  | **Full database name** | **Description** |
| DAD | Discharge Abstract Database | Inpatient hospitalization data |
| NACRS | National Ambulatory Care Reporting System | Emergency department data |
| NDFP | New Drug Funding Program | Chemotherapy data |
| NRS | National Rehabilitation Reporting System | Rehabilitation data |
| CCRS | Continuing Care Reporting System | Complex continuing care |
| CCRS-LTC | Continuing Care Reporting System Long-Term Care | Long-term care data |
| HCD | Ontario home care database | Home-care data |
| OHIP | Ontario Health Insurance Plan | Outpatient physician billings data |
| ODB | Ontario Drug Benefit  | Pharmacy data |
| OMHRS | Ontario Mental Health Reporting System | Inpatient mental health hospitalization data |
| ONMARG | Ontario Marginalization Index | Marginalization data |
| RPDB | Ontario Registered Persons Database | Mortality data |
| SDS | Same Day Surgery | Day surgery data |

eTable 2 Case definitions for covariates

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| **Covariate**  | **Database** | **Case definition** |
| **Age** | Registered Persons Database | Age |
| **Stroke type** | Discharge Abstract Database | Ischemic stroke: H34.1, I63.x, I64.xIntracerebral hemorrhage: I61.x |
| **Diabetes** | Discharge Abstract DatabaseOntario Health Insurance PlanOntario Drug Benefit Program | ≥2 outpatient claims (ICD-9 250) in a one-year period, or ≥1 hospitalization (ICD-10-CA E10, E11, E13, E14), or ≥1 diabetes drug claim in a one-year period |
| **Hypertension** | Discharge Abstract DatabaseOntario Health Insurance Plan | ≥2 outpatient claims (ICD-9 401.x, 402.x, 403.x, 404.x, or 405.x) in a two-year period, or1 outpatient + 1 hospitalization or day surgery record (ICD-10-CA I10.x, I11.x, I12.x, I13.x, or I15.x) in a two-year period, orIf no outpatient record is found, ≥1 hospitalization or day surgery record |
| **Dyslipidemia** | Ontario Health Insurance Plan | 2 outpatient claims (ICD-9 272) in 2 years |
| **Atrial fibrillation** | Discharge Abstract DatabaseOntario Health Insurance PlanNational Ambulatory Care Reporting System | 1 hospitalization or 1 emergency department visit (ICD-10-CA I48), or 4 outpatient claims (ICD-9 427) in a one-year period |
| **Coronary artery disease** | Discharge Abstract DatabaseSame Day Surgery Database | ICD10-CA I21, I22, orCCI 1IJ50, 1IJ57GQ, 1IJ54, or 1IJ76 |
| **Peripheral arterial disease** | Discharge Abstract DatabaseSame Day Surgery Database | ICD-10-CA I713, I714, I702, I739, I743, I744, orCCI 1JE57, 1JE50, or 1JE87 |

ICD-9 International classification of diseases, ninth revision, ICD-10-CA – International classification of diseases, tenth revision, Canada, CCI – Canadian Classification of Health Interventions

eTable 3 Mean and (95% confidence intervals) direct healthcare costs by material deprivation quintile before and after stroke, total costs and categorized by healthcare setting

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|  | **Q1****Least deprived** | **Q2****Less deprived** | **Q3****Slightly deprived** | **Q4****Very deprived** | **Q5****Most deprived** |
|  | N=14,609 | N=16,042 | N=17,490 | N=19,529 | N=22,619 |
| Pre-stroke total cost | 10,368(10,027, 10,710) | 10,725(10,390, 11,060) | 10,580(10,261, 10,899) | 10,696(10,393, 10,999) | 11,415(11,121, 11,710) |
| Post-stroke total cost | 50,602(49,701, 51,504) | 51,452(50,595, 52,308) | 51,720(50,894, 52,545) | 53,404(52,599, 54,209) | 56,292(55,514, 57,070) |
| Pre-stroke acute care cost | 3,212(3,033, 3,391) | 3,498(3,314, 3,682) | 3,565(3,381, 3,749) | 3,514(3,354, 3,675) | 3,833(3,672, 3,994) |
| Post-stroke acute care cost | 20,681(20,183, 21,179) | 21,056(20,585, 21,527) | 21,556(21,081, 22,030) | 22,514(22,043, 22,987) | 23,810(23,358, 24,261) |
| Pre-stroke outpatient care cost | 5,658(5,464, 5,853) | 5,653(5,483, 5,823) | 5,522(5,358, 5,686) | 5,645(5,482, 5,808) | 5,971(5,808, 6,134) |
| Post-stroke outpatient care cost | 9,959(9,781, 10,137) | 9,869(9,708, 10,031) | 9,842(9,684, 10,000) | 10,126(9,964, 10,288) | 10,434(10,284, 10,584) |
| Pre-stroke rehabilitation cost | 337(290, 384) | 391(340, 443) | 334(288, 379) | 355(309, 400) | 312(276, 347) |
| Post-stroke rehabilitation cost | 9,575(9,317, 9,833) | 9,826(9,568, 10,083) | 9,986(9,743, 10,230) | 9,829(9,600, 10,058) | 10,367(10,146, 10,588) |
| Pre-stroke home care cost | 1,160(1,089, 1,231) | 1,183(1,115, 1,250) | 1,159(1,100, 1,219) | 1,182(1,122, 1,242) | 1,300(1,240, 1,360) |
| Post-stroke home care cost | 2,731(2,621, 2,840) | 2,749(2,649, 2,849) | 2,831(2,731, 2,931) | 2,850(2,757, 2,944) | 2,836(2,751, 2,921) |
| Pre-stroke long-term care cost | -- | -- | -- | -- | -- |
| Post-stroke long-term care cost | 7,656(7,218, 8,094) | 7,952(7,535, 8,369) | 7,505(7,124, 7,885) | 8,084(7,717, 8,450) | 8,846(8,480, 9,213) |

eTable 4 Estimated marginal difference of mean one-year cost after stroke comparing each level of material deprivation quintile to the least deprived quintile from the fully adjusted model

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|  | **Cost difference** | **95% confidence intervals** |
| **Q2 Less deprived compared to****Q1 Least deprived** | $755 | [$-541.60, $1,922] |
| **Q3 Slightly deprived compared to****Q1 Least deprived** | $1,246 | [$7, $2,429] |
| **Q4 Very deprived compared to****Q1 Least deprived** | $2,798 | [$1,536, $3,860] |
| **Q5 Most deprived compared to****Q1 Least deprived** | $3,691 | [$2,006, $4,331] |