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.x  Intracerebral hemorrhage: I61.x |
| **Diabetes** | Discharge Abstract Database  Ontario Health Insurance Plan  Ontario 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 Database  Ontario Health Insurance Plan | ≥2 outpatient claims (ICD-9 401.x, 402.x, 403.x, 404.x, or 405.x) in a two-year period, or  1 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, or  If 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 Database  Ontario Health Insurance Plan  National 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 Database  Same Day Surgery Database | ICD10-CA I21, I22, or  CCI 1IJ50, 1IJ57GQ, 1IJ54, or 1IJ76 |
| **Peripheral arterial disease** | Discharge Abstract Database  Same Day Surgery Database | ICD-10-CA I713, I714, I702, I739, I743, I744, or  CCI 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] |