**Supplementary Table 1 Administrative 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 |
| NRS | National Rehabilitation Reporting System | Rehabilitation data |
| CCRS-LTC | Continuing Care Reporting System Long-Term Care | Nursing home data |
| OHIP | Ontario Health Insurance Plan | Outpatient physician billings |
| PCCF | Postal Code Conversion File | Location of residence |
| RPDB | Ontario Registered Persons Database | Demographics and mortality data |
| HCD | Home Care Database | Home care data |

**Supplementary Table 2 Care trajectories between discharge from acute care and admission to nursing home by sex (n=4,831)**

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| **Care trajectories** | **Women****n=2,946** | **Men****n=1,885** | **S-Diff** |
| Acute care length of stayMedian days (IQR) | 21 (11-46) | 23 (12-55) | 0.11 |
| Inpatient rehabilitation admission | 1,068 (36.3%) | 778 (41.3%) | 0.1 |
|  Median length of stay (IQR) | 44 (30-63) | 51 (34-73) | 0.22 |
|  Mean days per 30 patient-days ± SD | 7.06 ± 10.96 | 8.25 ± 11.57 | 0.11 |
| Complex continuing care admission | 745 (25.3%) | 497 (26.4%) | 0.02 |
|  Median length of stay (IQR) | 59 (33-96) | 66 (33-102) | 0.11 |
|  Mean days per 30 patient-days | 5.57 ± 10.61 | 5.69 ± 10.60 | 0.01 |
| Home-care use after acute care discharge  | 949 (32.2%) | 571 (30.3%) | 0.04 |
|  Median number of visits (IQR) | 62 (23-126) | 58 (13-117) | 0.09 |
|  Means number of visits per 30 patient-days ± SD | 13.25 ± 29.34 | 10.94 ± 28.16 | 0.08 |
| Median delay from stroke discharge to nursing home admission in days (IQR) | 48 (0-96) | 61 (0-107) | 0.13 |
| All-cause readmission (between acute care discharge to nursing home admission) | 516 (17.5%) | 347 (18.4%) | 0.02 |

IQR: interquartile range, SD: standard deviation, S-Diff: standardized differences
Standardized differences of < 0.1 indicate adequate balance.

**Supplementary Table 3 Unadjusted prevalence ratios and 95% confidence intervals for health services care needs comparing women to men in the overall cohort and stratified by age, marital status, and baseline living situation (n=4,831)**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Extensive supervision for ADL** | **Symptoms of depression** | **Cognitive impairment** | **Aggressive behaviour**  | **Lower social engagement** | **Pain**  | **Higher health instability** |  **Frail** |
| **Overall** | 1.04(1.01, 1.06) | 1.25(1.11, 1.40) | 1.04(1.00, 1.07) | 0.87(0.80, 0.94) | 1.04(0.91, 1.19) | 1.21(1.13, 1.30) | 1.45(1.28, 1.66) | 1.14(1.08, 1.19) |
| **Age**  |  |  |  |  |  |  |  |  |
| 18-64 | 1.15 (1.02, 1.30) | 1.51 (1.01, 2.26) | 1.01 (0.84, 1.21) | 0.78 (0.56, 1.08) | 0.99 (0.70, 1.40) | 1.28 (1.05, 1.55) | 1.95 (1.15, 3.29) | 1.26(0.99, 1.60) |
| 65-74 | 1.04 (0.97, 1.11) | 1.19 (0.89, 1.59) | 1.03(0.93, 1.14) | 0.73 (0.59, 0.92) | 1.30 (0.96, 1.76) | 1.21 (1.03, 1.42) | 1.40 (0.99, 1.97) | 1.16(1.02, 1.33) |
| 75-84 | 0.98 (0.94, 1.02) | 1.15 (0.96, 1.39) | 0.99 (0.94, 1.05) | 0.84 (0.74, 0.96) | 1.14 (0.90, 1.44) | 1.20 (1.07, 1.34) | 1.33 (1.07, 1.66) | 1.04 (0.96, 1.13) |
| 85+ | 1.02 (0.98, 1.06) | 1.37 (1.10, 1.69) | 0.97 (0.92, 1.02) | 0.94 (0.81, 1.07) | 1.09(0.86, 1.38) | 1.33 (1.17, 1.52) | 1.32 (1.07, 1.62) | 1.05(0.97, 1.13) |
| **Marital status** |  |  |  |  |  |  |  |  |
| Married | 1.05 (1.01, 1.09) | 1.24 (1.02, 1.51) | 1.02 (0.96, 1.08) | 0.80 (0.69, 0.93) | 1.11 (0.88, 1.40) | 1.31 (1.17, 1.46) | 1.28 (1.04, 1.58) | 1.10 (1.02, 1.19) |
| Not married\* | 1.07 (1.03, 1.11) | 1.28 (1.09, 1.51) | 1.06 (1.01, 1.11) | 0.90 (0.80, 1.00) | 0.97 (0.82, 1.15) | 1.16 (1.06, 1.27) | 1.64 (1.36, 1.98) | 1.22 (1.14, 1.31) |
| **Baseline living situation** |  |  |  |  |  |  |  |  |
| Alone | 1.05 (0.97, 1.13) | 1.40 (1.07, 1.84) | 1.02 (0.93, 1.13) | 1.02 (0.84, 1.25) | 0.74 (0.56, 0.98) | 1.23 (1.06, 1.44) | 1.61 (1.16, 2.23) | 1.23 (1.07, 1.42) |
| Not alone | 1.04 (1.02, 1.07) | 1.20 (1.05, 1.37) | 1.06 (1.02, 1.10) | 0.85 (0.78, 0.93) | 1.12 (0.96, 1.30) | 1.22 (1.12, 1.32) | 1.41 (1.22, 1.64) | 1.14 (1.08, 1.20) |

\*Includes patients who were widowed, divorced, separated, never married, and unknown status

**Supplementary Table 4 Baseline characteristics by sex in the propensity matched cohort (n=2,728)**

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| --- | --- | --- | --- |
| **Baseline characteristics** | **Women**n=1,364 | **Men**n=1,364 | **S-Diff** |
| Median age (IQR) | 81 (74-87) | 81 (73-86) | 0.01 |
| Age categories |  |  |  |
|  18-64 years | 129 (9.5%) | 135 (9.9%) | 0.01 |
|  65-74 years | 243 (17.8%) | 262 (19.2%) | 0.04 |
|  75-84 years | 539 (39.5%) | 514 (37.7%) | 0.04 |
|  85+ years | 453 (33.2%) | 453 (33.2%) | 0 |
| Married | 572 (41.9%) | 601 (44.1%) | 0.04 |
| Living alone at baseline | 268 (19.6%) | 247 (18.1%) | 0.04 |
| Baseline home location |  |  |  |
|  Small town (<10,000) | 181 (13.3%) | 188 (13.8%) | 0.02 |
|  Medium urban (10,000 to 100,000) | 158 (11.6%) | 165 (12.1%) | 0.02 |
|  Large urban (>100,000) | 1,025 (75.1%) | 1,011 (74.1%) | 0.02 |
| Neighbourhood Income Quintile |  |  |  |
|  1 = Lowest | 344 (25.4%) | 324 (23.8%) | 0.04 |
|  2 = Next to lowest | 283 (20.9%) | 293 (21.6%) | 0.02 |
|  3 = Middle | 270 (19.9%) | 276 (20.3%) | 0.01 |
|  4 = Next to highest | 231 (17.0%) | 245 (18.0%) | 0.03 |
|  5 = Highest | 227 (16.8%) | 221 (16.3%) | 0.01 |
| Baseline comorbidities |  |  |  |
|  Diabetes | 598 (43.8%) | 582 (42.7%) | 0.02 |
|  Hypertension | 1,260 (92.4%) | 1,264 (92.7%) | 0.01 |
|   Prior stroke | 232 (17.0%) | 226 (16.6%) | 0.01 |
|  Atrial fibrillation | 482 (35.3%) | 521 (38.2%) | 0.06 |
|  Ischemic heart disease | 433 (31.7%) | 441 (32.3%) | 0.01 |
|  COPD | 412 (30.2%) | 405 (29.7%) | 0.01 |
|  Congestive heart failure   | 328 (24.0%) | 353 (25.9%) | 0.09 |
|  Dementia | 537 (39.4%) | 542 (39.7%) | 0.03 |
| Charlson score categories   |  |  |  |
|  0 | 213 (15.6%) | 199 (14.6%) | 0.03 |
|  1 | 169 (12.4%) | 198 (14.5%) | 0.06 |
|  2 | 314 (23.0%) | 297 (21.8%) | 0.03 |
|  3+ | 668 (49.0%) | 670 (49.1%) | 0 |
| Stroke type |  |  |  |
|  Ischemic Stroke | 1,188 (87.1%) | 1,179 (86.4%) | 0.02 |
|  Hemorrhagic Stroke | 176 (12.9%) | 185 (13.6%) | 0.02 |
| Acute care length of stayMedian days (IQR) | 21 (10-49) | 23 (12-52) | 0.09 |
| Inpatient rehabilitation admission | 569 (41.7%) | 547 (40.1%) | 0.03 |
|  Median length of stay (IQR) | 47 (31-65) | 50 (34-72) | 0.14 |
|  Mean days per 30 patient-days ± SD | 8.12 ± 11.42 | 8.02 ± 11.44 | 0.01 |
| Complex continuing care admission | 364 (26.7%) | 364 (26.7%) | 0 |
|  Median length of stay (IQR) | 63 (33-101) | 65 (31-101) | 0.03 |
|  Mean days per 30 patient-days | 5.64 ± 10.54 | 5.82 ± 10.72 | 0.02 |
| Home-care use after acute care discharge  | 409 (30.0%) | 418 (30.6%) | 0.01 |
|  Median number of visits (IQR) | 62 (22-135) | 61 (17-113) | 0.1 |
|  Means number of visits per 30 patient-days ± SD | 11.26 ± 27.71 | 11.79 ± 30.15 | 0.02 |
| Median delay from stroke discharge to nursing home admission in days (IQR) | 57 (0-107) | 57 (0-102) | 0.01 |
| All-cause readmission (between acute care discharge to nursing home admission) | 257 (18.8%) | 251 (18.4%) | 0.01 |
| Care needs at nursing home admission |  |  |  |
|  Extensive supervision for activities of daily living | 1,140 (83.6%) | 1,164 (85.3%) | 0.05 |
|  Presence of symptom of depression  | 281 (20.6%) | 269 (19.7%) | 0.02 |
|  Presence of cognitive impairment  | 997 (73.1%) | 1,006 (73.8%) | 0.01 |
|  Presence of aggressive behavior  | 471 (34.5%) | 474 (34.8%) | 0 |
|  Lower social engagement  | 236 (17.3%) | 225 (16.5%) | 0.02 |
|  Presence of pain  | 604 (44.3%) | 587 (43.0%) | 0.03 |
|  Instability in health status | 240 (17.6%) | 233 (17.1%) | 0.01 |
|  Frail | 780 (57.2%) | 790 (57.9%) | 0.01 |

IQR: interquartile range, SD: standard deviation, S-Diff: standardized differences, COPD: Chronic Obstructive Pulmonary Disease

Standardized differences of < 0.1 indicate adequate balance.