Supplemental Table 1 Case definition and databases for the components of the PaSSV score

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| **Variables** | **Database** | **Details** |
| **Emergency department Canadian Triage and Acuity Scale (CTAS)** | NACRS | From first NACRS record in episode of care‘1’ = Resuscitation‘2’ = Emergent‘3’ = Urgent‘4’ = Less urgent (semi-urgent)‘5’ = Non urgent |
| **Presentation by ambulance** | NACRS  | From first NACRS record in episode of careAdmit to ED via air, ground, or water ambulance |
| **Mechanical ventilation within 2 days of presentation** | DAD, NACRSPhysician billing codes | From first two days in episode of careBritish Columbia physician billing codes: 01412, 01422, 01413, or 01423Ontario physician billing codes: G405, G406, G407, G557, G558, or G559Nova Scotia physician billing codes: CP01, CP10CCI codes: DAD: INCODE1-20 in (‘1GZ31CAND’, ‘1GZ31CAEP’\*\*, ‘1GZ31CRND’, ‘1GZ31GPND’)NACRS: INCODE1-10 in (‘1GZ31CAND’, ‘1GZ31CAEP’\*\*, ‘1GZ31CRND’, ‘1GZ31GPND’)Service days <= 2 days from index date |
| **Transfer marker to a stroke hospital with a higher level of care** | NACRS, DAD | From first 24 hrs in episode of carePatient was transferred from one hospital to a higher level of care within 24 hours of index date.Three levels of hospital hierarchy from highest to lowest: non-designated centre, primary stroke centre (provides intravenous thrombolysis), comprehensive stroke centre (provides intravenous thrombolysis and for endovascular thrombectomy).Hospital list obtained from co-investigators in each province |
| **Level of consciousness** | NACRS, DAD | For all symptoms – from all NACRS records and the 1st DAD record in the index stroke episode of careR40  |
| **Speech symptoms** | NACRS, DAD | R47 |
| **Visual symptoms** | NACRS, DAD | H47, H51, H53, H54  |
| **Motor symptoms** | NACRS, DAD | G81, G82, G83  |
| **Ataxia symptoms** | NACRS, DAD | R26, R27  |
| **Sensory symptoms** | NACRS, DAD | R20  |

DAD: Discharge Abstract Database, NACRS: National Ambulatory Care Reporting System.

Supplemental Table 2 Comparison of characteristics among patients with versus without NACRS record

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|  | **British Columbia** | **Nova Scotia** |
|  | No NACRS record – entry not through ED | No NACRS record – entry was through ED  | Total no NACRS record | NACRS record found | P-value\* | No NACRS record – entry not through ED | No NACRS record – entry was through ED  | Total no NACRS record | NACRS record found | P-value\* |
|  | N=347 | N=4,307 | N=4,654 | N=19,495 |   | N=598 | N=2,484 | N=3,082 | N=2,918 |  |
| Median (IQR) age | 73 (63, 83) | 76 (66, 84) | 76 (66, 84) | 76 (66, 85) | 0.74 | 70 (59, 79) | 75 (65, 83) | 74 (64, 83) | 72 (63, 82) | 0.01 |
| Female sexn (%) | 138(39.8) | 1,943 (45.1) | 2,081 (44.7) | 9,042 (46.4) | 0.04 | 287(48.0) | 1,217(49.0) | 1,504(48.8) | 1,327(45.5) | 0.01 |
| Rural homen (%) | 142(40.9) | 1,729 (40.1) | 1,871 (40.2) | 1,213(6.2) | <0.001 | 269(45.0) | 1,046 (42.1) | 1,315(42.7) | 906(31.0) | <0.001 |
| Ischemic stroke n (%) | 298(85.9) | 3,839 (89.1) | 4,137 (88.9) | 16,752 (85.9) | <0.001 | 516(86.1) | 2,271 (91.4) | 2,786 (90.4) | 2,570 (88.1) | 0.004 |
| Charlson 0-1n (%) | 267(77.0) | 3,142 (73.0) | 3,409 (73.3) | 14,752 (75.7) | <0.001 | 342(57.2) | 1,776 (71.5) | 2,118 (68.7) | 2,194 (75.2) | <0.001 |

\*P-value comparing cases with versus without National Ambulatory Care Reporting System (NACRS) record using Chi-squared test for binary variables and Kruskal-Wallis test for age.