

**Door-in-door-out times and functional outcomes after stroke in a large
Canadian hub-and-spoke network**

SUPPLEMENTAL MATERIAL

Table S1. Management and mechanical thrombectomy results at the comprehensive stroke center

Management at the CSC	
CSC door-to-puncture time (minutes), median (Q1-Q3)	24 (14-39)
Recanalization, n (%)	660 (83.5)
mTICI score 2b-3, n (%)	542 (68.6)

CSC: comprehensive stroke center; mTICI: modified thrombolysis in cerebral infarction

Table S2. Data availability

Criteria	n (%)
Entire cohort	N = 790
Known symptom onset date/time	545 (70.0)
Known DIDO	659 (83.4)
Known puncture date/time	779 (98.6)
Known vital status at 90 days	701 (88.7)
Known DIDO and vital status at 90 days	587 (74.3)
Known mRS at 90 days	478 (60.5)
Known DIDO and mRS at 90 days	400 (50.6)

DIDO: door-in-door-out time; mRS: modified Rankin scale

Table S3. Comparison of baseline characteristics between patients with and without available data on modified Rankin scale at 90 days

	Patients with data (n=400)	Patients without data (n=390)
Baseline characteristics		
Age, mean (SD)	69.2 (13.4)	69.3 (13.5)
Female sex, n (%)	205 (51.3)	195 (50.0)
Pre-stroke function status (mRS), median (IQR)	0 (0-1)	0 (0-1)
Acute ischemic stroke characteristics and management at the PSC		
Stroke onset year, n (%)		
March 2017-2018	86 (21.5)	112 (28.7)
March 2018-2019	115 (28.8)	146 (37.4)
March 2019-2020	188 (47.0)	122 (31.3)
Unknown	11 (2.8)	10 (2.6)
Delay from symptom onset to arrival at the PSC (minutes), median (Q1-Q3)	57 (39-83)	55 (40-83)
Stroke severity (NIHSS), median (Q1-Q3)	16 (10-20)	16 (10-20)
Area of ischemic changes on non-contrast CT (ASPECTS), median (IQR)	9 (8-10)	9 (8-10)
Site of arterial occlusion on CT-angiography (n, %)		
Internal carotid artery	72 (18.0)	75 (19.2)
Middle cerebral artery – M1 segment	264 (66.0)	204 (52.3)
Middle cerebral artery – M2 segment	73 (18.3)	72 (18.5)
Evaluation by a neurologist at the PSC, n (%)	292 (73.0)	230 (59.0)
Thrombolysis administration at the PSC, n (%)	228 (57.0)	195 (50.0)
Transportation time between PSC and CSC (minutes), median (Q1-Q3)	36 (25-51)	49 (29-68)
Management at the CSC		
CSC door-to-puncture time (minutes), median (Q1-Q3)	19 (12-30)	32 (18-45)

SD: standard deviation; IQR: interquartile range; mRS: modified Rankin scale; PSC: primary stroke center; CSC: comprehensive stroke center; NIHSS: National Institutes of Health Stroke Severity; ASPECTS: Alberta Stroke Program Early CT Score