

## Exhibit 5.2a

Age- and sex-adjusted revisit or readmission rates within 365 days following stroke or transient ischemic attack (TIA), in Ontario and by stroke type, OSS region, OSS classification and Local Health Integration Network, 2003/04 to 2008/09

Group/Sub-Group	Adjusted <sup>1</sup> Revisit/Readmission Rate (%)					
	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
<b>Ontario<sup>2</sup></b>	<b>11.8</b>	<b>11.9</b>	<b>10.9</b>	<b>10.7</b>	<b>10.8</b>	<b>10.6</b>
<b>Stroke Type</b>						
Intracerebral hemorrhage	9.0	10.6	8.9	8.2	7.8	7.2
Ischemic stroke	10.8	11.0	9.9	9.9	9.7	9.9
Subarachnoid hemorrhage	7.8	7.5	7.0	6.5	7.1	6.6
Transient ischemic attack	14.2	13.8	13.0	12.8	13.3	12.5
<b>Ontario Stroke System Region</b>						
Central East	12.6	11.2	11.3	11.4	11.5	11.2
Central South	11.4	11.1	11.6	10.1	10.1	10.3
East – Champlain	11.5	14.4	10.6	11.9	11.5	10.4
Northeast	12.6	12.9	10.6	12.4	13.0	10.3
Northwest	12.5	14.8	11.5	10.3	12.2	9.4
South East	13.2	14.1	8.1	11.1	11.5	10.8
Southwest	11.9	10.9	12.2	10.8	11.0	10.7
Toronto – North & East	10.7	10.8	9.4	8.4	9.1	9.7
Toronto – Southeast	11.7	12.2	11.3	13.1	9.9	9.9
Toronto – West	9.8	13.0	10.3	9.9	11.4	11.6
West GTA	12.3	11.1	10.3	9.6	9.2	10.8
<b>Ontario Stroke System Classification</b>						
Regional stroke centre	10.8	11.3	9.8	9.9	10.6	10.3
District stroke centre	12.7	12.2	10.7	10.2	10.7	9.8
Non-designated	12.0	12.1	11.5	11.3	10.9	11.0
<b>Local Health Integration Network</b>						
1. Erie St. Clair	13.6	11.4	12.5	11.1	11.0	10.4
2. South West	10.5	10.5	11.9	10.6	11.0	10.9
3. Waterloo Wellington	12.3	11.1	11.5	11.0	11.0	11.0
4. Hamilton Niagara Haldimand Brant	11.1	11.1	11.6	9.8	9.8	10.1
5. Central West	12.8	10.7	9.0	11.9	8.5	11.2
6. Mississauga Halton	12.0	11.3	11.0	8.4	9.6	10.5
7. Toronto Central	9.9	11.9	9.6	10.2	10.3	10.1
8. Central	10.8	10.5	10.8	8.7	10.3	10.5
9. Central East	12.8	12.7	11.2	12.5	11.4	11.8
10. South East	13.2	14.1	8.1	11.1	11.5	10.8
11. Champlain	11.5	14.4	10.6	11.9	11.5	10.4
12. North Simcoe Muskoka	12.8	10.5	11.9	11.1	11.2	10.7
13. North East	12.6	12.9	10.6	12.4	13.0	10.3
14. North West	12.5	14.8	11.5	10.3	12.2	9.4

Data sources: Canadian Institute for Health Information, Discharge Abstract Database (CIHI-DAD), and National Ambulatory Care Reporting System (CIHI-NACRS); 2003/04 to 2008/09.

Inclusion criteria: All patients aged ≥18 years readmitted to an emergency department or inpatient setting of an acute care hospital in Ontario with a diagnosis of stroke (ischemic or hemorrhagic) or TIA on both admissions within 365 days of initial stroke event starting in each year.

Exclusion criteria: Patients with an elective admission, scheduled emergency department visit, or transfer within a facility or between facilities within 24 hours.

<sup>1</sup> Indirect standardization based on an age-sex regression model was used to calculate rates.

<sup>2</sup> Based on unique patients (i.e., does not include multiple patient-visits).

**Notes:**

(1) No washout periods were applied; e.g., if a patient's first hospitalization for stroke had a discharge date of March 31, 2005 (FY 2004/05), followed by another hospitalization for stroke/TIA on April 1, 2005 (FY 2005/06), the April 1 hospitalization would be considered the first hospitalization in 2005/06 and not a readmission related to the hospitalization in 2004/05.

(2) Facility-based analysis (i.e., the location of the facility was used to report regional performance).

(3) See Appendix D for a list of hospitals classified as regional and district stroke centres by the OSS.

### Exhibit 5.3a

Age- and sex-adjusted all-cause readmission rates within 30 days following stroke or transient ischemic attack (TIA), in Ontario and by facility, 2003/04 to 2008/09

Group/Sub-Group				Adjusted <sup>1</sup> Mortality Rate (%)					
				2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
<b>Ontario<sup>2</sup></b>				<b>8.8</b>	<b>8.8</b>	<b>8.6</b>	<b>8.3</b>	<b>8.3</b>	<b>8.3</b>
Institution No.	Institution Name	Local Health Integration Network	Ontario Stroke System Region						
1067	Leamington District Memorial Hospital	Erie St. Clair	South West	9.1	9.2	8.9	8.4	5.8	6.4
1079	Windsor Regional Hospital (Metropolitan)	Erie St. Clair	South West	10.9	10.1	8.4	9.7	11.5	8.6
1223	Public General Hospital Society of Chatham	Erie St. Clair	South West	7.4	9.7	9.2	4.3	6.0	9.6
1239	Sydenham District Hospital	Erie St. Clair	South West	10.3	8.0	8.8	5.3	16.5	14.8
3707	Hotel-Dieu Grace Hospital (St. Joseph's)	Erie St. Clair	South West	9.6	10.3	12.0	10.1	9.8	11.1
4415	Bluewater Health (Sarnia General)	Erie St. Clair	South West	9.7	7.1	9.6	7.0	8.6	8.1
4418	Bluewater Health (Petrolia)	Erie St. Clair	South West	12.2	-	13.3	2.8	5.8	4.8
1030	Grey Bruce Health Services (Lion's Head)	South West	South West	-	-	16.9	19.0	7.6	8.1
1059	St. Thomas-Elgin General Hospital	South West	South West	9.8	4.5	4.5	9.2	8.3	7.5
1124	Hanover & District Hospital	South West	South West	11.9	5.3	9.2	19.7	5.6	12.8
1199	Clinton Public Hospital	South West	South West	6.1	7.6	3.8	10.9	24.8	-
1203	South Huron Hospital	South West	South West	10.8	2.6	14.9	2.9	13.2	10.2
1206	Alexandra Marine & General Hospital	South West	South West	15.3	3.2	8.7	7.0	4.6	9.5
1213	Seaforth Community Hospital	South West	South West	3.9	7.8	4.3	10.2	6.0	4.1
1217	Wingham & District Hospital	South West	South West	2.9	9.7	3.1	13.0	23.7	3.9
1497	St. Joseph's Health Care, London	South West	South West	3.2	10.9	9.9	-	3.4	5.6
1507	Four Counties Health Services Corp	South West	South West	9.6	15.7	3.6	5.2	-	5.5
1515	Strathroy Middlesex General Hospital	South West	South West	12.7	6.9	16.1	4.1	7.7	9.9
1696	Alexandra Hospital	South West	South West	10.2	9.4	10.2	7.5	4.4	7.4
1709	Tillsonburg District Memorial Hospital	South West	South West	9.9	4.2	7.3	10.4	9.2	8.2
1716	Woodstock General Hospital	South West	South West	7.8	6.7	6.2	3.0	9.9	5.5
1740	Listowel Memorial Hospital	South West	South West	4.2	4.6	-	2.3	9.4	3.0
1748	St. Mary's Memorial Hospital	South West	South West	-	6.6	2.9	14.7	3.5	7.9
1754	Stratford General Hospital	South West	South West	4.3	7.1	7.5	3.9	7.2	7.2
3850	London Health Sciences Ctr (University)	South West	South West	8.7	8.1	7.5	6.5	7.1	7.4
3907	South Bruce Grey Health Ctr (Kincardine)	South West	South West	11.4	8.6	9.4	24.8	5.9	15.5
3944	Grey Bruce Health Services (Owen Sound)	South West	South West	9.3	8.7	13.2	7.8	12.0	6.3
4025	Grey Bruce Health Services (Markdale)	South West	South West	9.7	8.3	14.2	10.6	6.7	16.3
4027	Grey Bruce Health Services (Meaford)	South West	South West	13.5	14.6	5.4	5.3	3.6	14.8
4030	Grey Bruce Health Services (Southampton)	South West	South West	8.6	9.7	16.3	2.9	4.1	19.9
4033	Grey Bruce Health Services (Warton)	South West	South West	13.1	12.6	11.2	3.3	-	4.1
4036	South Bruce Grey Health Centre (Durham)	South West	South West	9.9	9.5	13.8	10.8	-	7.5
4039	South Bruce Grey Health Centre (Walkerton)	South West	South West	12.2	7.1	10.8	12.3	9.9	9.6
4042	South Bruce Grey Health Centre (Chesley)	South West	South West	21.0	14.2	22.5	13.6	10.8	5.1
4379	Grey Bruce Health Services (Tobermory)	South West	South West	-	-	-	-	-	-
1905	Cambridge Memorial Hospital	Waterloo Wellington	Central South	7.5	7.9	10.1	9.0	9.5	8.9
1921	St. Mary's General Hospital	Waterloo Wellington	Central South	6.8	6.1	6.0	5.8	9.5	4.8
1936	Groves Memorial Community Hospital	Waterloo Wellington	Central South	8.1	5.3	5.7	12.7	9.1	9.6
1946	Guelph General Hospital	Waterloo Wellington	Central South	4.7	4.5	10.8	6.0	8.6	8.4
3734	Grand River Hospital Corp (Waterloo)	Waterloo Wellington	Central South	6.1	9.8	8.1	8.1	7.4	6.3
4323	North Wellington Hlth Care (Mount Forest)	Waterloo Wellington	Central South	7.9	15.1	13.8	14.8	12.3	12.0
4326	North Wellington Hlth Care (Palmerston)	Waterloo Wellington	Central South	23.6	19.0	15.1	4.2	13.1	5.9
1146	Haldimand War Memorial Hospital	Hamilton Niagara Haldimand Brant	Central South	15.0	10.2	-	8.9	10.4	18.7
1149	West Haldimand General Hospital	Hamilton Niagara Haldimand Brant	Central South	8.6	12.3	7.3	4.0	7.2	11.5
1160	Joseph Brant Memorial Hospital	Hamilton Niagara Haldimand Brant	Central South	7.3	8.3	5.6	6.1	9.2	9.8

### Exhibit 5.3a (continued)

Age- and sex-adjusted all-cause readmission rates within 30 days following stroke or transient ischemic attack (TIA), in Ontario and by facility, 2003/04 to 2008/09

Group/Sub-Group				Adjusted <sup>1</sup> Mortality Rate (%)					
				2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
<b>Ontario<sup>2</sup></b>				<b>8.8</b>	<b>8.8</b>	<b>8.6</b>	<b>8.3</b>	<b>8.3</b>	<b>8.3</b>
Institution No.	Institution Name	Local Health Integration Network	Ontario Stroke System Region						
1538	West Lincoln Memorial Hospital	Hamilton Niagara Haldimand Brant	Central South	11.4	13.6	8.3	7.8	13.1	11.0
1591	Norfolk General Hospital	Hamilton Niagara Haldimand Brant	Central South	8.7	9.8	14.6	8.4	15.1	8.0
1982	Hamilton Health Sciences Corp (General)	Hamilton Niagara Haldimand Brant	Central South	7.5	7.2	6.0	7.0	7.5	7.1
1983	Hamilton Health Sciences Corp (Henderson)	Hamilton Niagara Haldimand Brant	Central South	13.8	10.2	7.5	4.1	7.7	5.4
1994	Hamilton Health Sciences Corp (McMaster)	Hamilton Niagara Haldimand Brant	Central South	9.2	7.5	6.8	10.6	9.9	13.8
2003	St. Joseph's Health Care System (Hamilton)	Hamilton Niagara Haldimand Brant	Central South	9.5	7.2	9.8	8.9	8.4	6.6
3644	St. Joseph's Community Health Centre	Hamilton Niagara Haldimand Brant	Central South	5.8	-	8.9	6.6	15.7	12.7
4210	Niagara Health System (Fort Erie Douglas)	Hamilton Niagara Haldimand Brant	Central South	12.8	4.8	7.0	8.7	12.9	6.5
4213	Niagara Health System (Greater Niagara)	Hamilton Niagara Haldimand Brant	Central South	7.6	7.8	5.9	6.6	7.7	5.8
4219	Niagara Health System (Port Colborne)	Hamilton Niagara Haldimand Brant	Central South	6.1	7.2	8.2	9.2	-	13.7
4224	Niagara Health System (St. Catharines)	Hamilton Niagara Haldimand Brant	Central South	8.1	8.9	8.9	8.5	7.6	8.3
4227	Niagara Health System (Welland County)	Hamilton Niagara Haldimand Brant	Central South	7.9	8.3	7.6	8.4	8.8	11.6
4627	Niagara Health System (Ontario Street)	Hamilton Niagara Haldimand Brant	Central South	-	-	-	7.3	-	8.5
4675	Brant Community Healthcare System (Brantford)	Hamilton Niagara Haldimand Brant	Central South	5.8	7.9	7.7	10.5	7.3	8.7
4680	Brant Community Healthcare System (Willet)	Hamilton Niagara Haldimand Brant	Central South	-	-	-	-	-	-
3684	Headwaters Health Care Centre (Dufferin)	Central West	West GTA	11.3	7.8	9.0	13.4	13.4	13.0
3929	William Osler Health System (Etobicoke)	Central West	West GTA	12.0	12.2	10.4	10.3	11.8	7.2
4016	William Osler Health System (Brampton)	Central West	West GTA	8.2	8.4	9.0	10.2	10.4	-
4681	William Osler Health System (Civic)	Central West	West GTA	-	-	-	-	7.0	10.6
3286	Credit Valley Hospital	Mississauga Halton	West GTA	5.3	10.2	8.7	9.5	9.0	7.5
3917	Trillium Health Centre (Mississauga)	Mississauga Halton	West GTA	9.2	10.6	8.6	10.0	8.9	9.5
3926	Halton Healthcare Services Corp (Oakville)	Mississauga Halton	West GTA	11.2	9.4	9.2	8.8	6.8	7.4
4019	William Osler Health Centre (Georgetown)	Mississauga Halton	West GTA	4.7	5.1	15.1	-	-	-
4022	Halton Healthcare Services Corp (Milton)	Mississauga Halton	West GTA	14.1	6.9	5.8	8.5	6.7	4.6
4363	Trillium Health Centre (West Toronto)	Mississauga Halton	West GTA	5.2	6.6	17.4	21.0	5.2	5.9
4622	Halton Healthcare Services Corp (Georgetown)	Mississauga Halton	West GTA	-	-	12.2	5.2	5.8	9.0
1302	Toronto East General Hospital	Toronto Central	Toronto – Southeast	8.6	9.6	11.1	10.5	7.4	7.7
1406	Hospital for Sick Children	Toronto Central	Toronto – West	-	-	-	-	-	-
1423	Mount Sinai Hospital	Toronto Central	Toronto – West	13.0	10.2	10.1	10.6	4.3	9.0
1443	St. Joseph's Health Centre	Toronto Central	Toronto – West	9.8	10.5	9.3	8.4	9.4	9.7
1444	St. Michael's Hospital	Toronto Central	Toronto – Southeast	7.8	9.9	7.7	10.1	8.0	6.9
3910	University Health Network	Toronto Central	Toronto – West	8.3	11.1	9.1	7.0	9.9	7.5
3936	Sunnybrook Health Sciences Centre	Toronto Central	Toronto – Northeast	8.8	5.8	5.6	6.8	6.2	6.1
4269	Sunnybrook & Women's College HSC (Women's)	Toronto Central	Toronto – Northeast	-	17.0	-	-	-	-
4631	Women's College Hospital	Toronto Central	Toronto – Northeast	-	-	-	-	-	-
1329	North York General Hospital (Branson)	Central	Toronto – North & East	21.5	22.8	9.2	-	-	26.7
1330	North York General Hospital	Central	Toronto – North & East	8.8	8.5	11.8	6.7	6.9	9.5
1343	Humber River Regional Hosp (York-Finch)	Central	Toronto – West	9.9	6.4	9.4	7.8	12.5	7.9
1817	Stevenson Memorial Hospital, Alliston	Central	Central East	14.6	8.1	9.3	4.7	7.2	9.7
2038	Southlake Regional Health Centre	Central	Central East	7.5	8.2	5.5	6.6	6.3	7.3
2046	York Central Hospital	Central	Central East	7.5	8.7	8.3	6.9	7.2	11.1
3587	Markham Stouffville Hospital	Central	Central East	6.8	6.3	7.8	6.1	7.0	11.8
3883	Humber River Regional Hosp (Humber Memorial)	Central	Toronto – West	10.0	10.7	9.4	9.6	8.9	10.2
1597	Campbellford Memorial Hospital	Central East	Central East	14.0	8.5	6.8	5.1	10.0	4.7
1768	Peterborough Regional Health Centre	Central East	Central East	11.3	7.2	6.1	9.6	8.5	6.5





## Exhibit 5.5a

Age- and sex-adjusted mortality rates at 30 days following stroke or transient ischemic attack (TIA), in Ontario and by facility, 2003/04 to 2008/09

Group/Site				Adjusted Mortality Rate <sup>1</sup> (%)					
				2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
<b>Ontario<sup>2</sup></b>				<b>13.3</b>	<b>12.5</b>	<b>12.6</b>	<b>12.7</b>	<b>13.1</b>	<b>12.3</b>
Institution No.	Institution (Site)	Local Health Integration Network	Ontario Stroke System Region						
1067	Leamington District Memorial Hospital	Erie St. Clair	South West	7.4	11.6	10.3	15.1	10.5	11.9
1079	Windsor Regional Hospital (Metropolitan)	Erie St. Clair	South West	8.9	12.6	10.9	11.4	13.1	10.3
1223	Public General Hospital Society of Chatham	Erie St. Clair	South West	13.0	14.3	14.6	9.9	13.3	13.1
1239	Sydenham District Hospital	Erie St. Clair	South West	12.8	8.9	8.0	14.3	12.7	18.4
3707	Hotel-Dieu Grace Hospital (St. Joseph's)	Erie St. Clair	South West	14.0	11.9	13.6	9.6	16.0	9.6
4415	Bluewater Health (Sarnia General)	Erie St. Clair	South West	14.5	10.1	12.5	12.6	14.5	9.4
4418	Bluewater Health (Petrolia)	Erie St. Clair	South West	6.5	18.2	6.9	15.5	13.9	14.1
1030	Grey Bruce Health Services (Lion's Head)	South West	South West	-	19.4	-	15.1	6.3	7.7
1059	St. Thomas-Elgin General Hospital	South West	South West	12.1	10.2	11.3	13.8	12.2	9.8
1124	Hanover & District Hospital	South West	South West	20.0	15.5	8.4	8.4	12.9	8.6
1199	Clinton Public Hospital	South West	South West	5.6	16.1	9.3	14.0	19.4	7.7
1203	South Huron Hospital	South West	South West	12.5	2.5	13.6	12.2	13.9	12.0
1206	Alexandra Marine & General Hospital	South West	South West	9.1	12.9	6.1	8.8	13.1	8.3
1213	Seaforth Community Hospital	South West	South West	10.8	10.4	3.7	5.8	2.9	3.9
1217	Wingham & District Hospital	South West	South West	9.9	6.2	18.7	10.7	8.7	10.2
1497	St. Joseph's Health Care, London	South West	South West	21.6	9.4	-	-	-	-
1507	Four Counties Health Services Corp	South West	South West	12.1	6.4	10.6	11.2	17.2	9.7
1515	Strathroy Middlesex General Hospital	South West	South West	19.6	11.4	20.5	17.0	15.6	18.2
1696	Alexandra Hospital	South West	South West	8.3	9.7	16.5	8.1	14.2	11.8
1709	Tillsonburg District Memorial Hospital	South West	South West	9.5	9.2	3.0	6.6	16.5	4.7
1716	Woodstock General Hospital	South West	South West	15.7	9.9	9.0	14.1	11.7	16.9
1740	Listowel Memorial Hospital	South West	South West	6.5	21.3	10.4	4.4	11.4	9.3
1748	St. Mary's Memorial Hospital	South West	South West	4.0	14.0	11.3	13.2	12.6	6.7
1754	Stratford General Hospital	South West	South West	14.8	14.2	15.0	13.6	11.1	15.7
3850	London Health Sciences Centre (University)	South West	South West	19.1	15.5	16.2	14.2	14.0	14.6
3907	South Bruce Grey Health Centre (Kincardine)	South West	South West	15.0	10.3	14.6	6.5	20.6	8.5
3944	Grey Bruce Health Services (Owen Sound)	South West	South West	16.2	18.0	9.8	15.2	14.7	14.4
4025	Grey Bruce Health Services (Markdale)	South West	South West	16.1	11.2	9.9	23.5	8.6	6.0
4027	Grey Bruce Health Services (Meaford)	South West	South West	8.4	5.4	14.3	12.0	13.1	10.6
4030	Grey Bruce Health Services (Southampton)	South West	South West	18.0	3.2	9.7	14.1	7.6	16.4
4033	Grey Bruce Health Services (Warton)	South West	South West	10.5	6.3	9.2	9.8	26.9	-
4036	South Bruce Grey Health Centre (Durham)	South West	South West	8.8	8.5	9.3	12.2	13.3	14.4
4039	South Bruce Grey Health Centre (Walkerton)	South West	South West	7.0	11.8	9.0	6.9	9.3	2.7
4042	South Bruce Grey Health Centre (Chesley)	South West	South West	6.4	5.7	19.7	15.1	13.6	4.9
4379	Grey Bruce Health Services (Tobermory)	South West	South West	-	-	-	-	-	-
1905	Cambridge Memorial Hospital	Waterloo Wellington	Central South	12.8	11.8	15.6	13.2	13.1	14.1
1921	St. Mary's General Hospital	Waterloo Wellington	Central South	12.2	7.7	7.3	7.5	8.7	8.0
1936	Groves Memorial Community Hospital	Waterloo Wellington	Central South	19.6	9.0	9.9	15.8	16.2	8.7
1946	Guelph General Hospital	Waterloo Wellington	Central South	8.3	13.9	9.2	12.4	11.1	11.3
3734	Grand River Hospital Corp (Waterloo)	Waterloo Wellington	Central South	17.9	16.6	15.3	17.4	16.4	14.7
4323	North Wellington Hlth Care (Mount Forest)	Waterloo Wellington	Central South	9.2	12.3	8.1	-	13.3	12.8
4326	North Wellington Hlth Care (Palmerston)	Waterloo Wellington	Central South	14.8	10.0	10.1	3.9	-	12.4
1146	Haldimand War Memorial Hospital	Hamilton Niagara Haldimand Brant	Central South	10.0	18.2	11.4	11.2	13.5	13.6
1149	West Haldimand General Hospital	Hamilton Niagara Haldimand Brant	Central South	16.7	11.1	9.5	9.4	7.6	15.3

### Exhibit 5.5a (continued)

Age- and sex-adjusted mortality rates at 30 days following stroke or transient ischemic attack (TIA), in Ontario and by facility, 2003/04 to 2008/09

Group/Site				Adjusted Mortality Rate <sup>1</sup> (%)					
				2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
<b>Ontario<sup>2</sup></b>				<b>13.3</b>	<b>12.5</b>	<b>12.6</b>	<b>12.7</b>	<b>13.1</b>	<b>12.3</b>
Institution No.	Institution (Site)	Local Health Integration Network	Ontario Stroke System Region						
1160	Joseph Brant Memorial Hospital	Hamilton Niagara Haldimand Brant	Central South	14.9	11.3	13.5	12.4	14.4	9.2
1538	West Lincoln Memorial Hospital	Hamilton Niagara Haldimand Brant	Central South	9.1	5.7	14.8	10.0	6.9	10.7
1591	Norfolk General Hospital	Hamilton Niagara Haldimand Brant	Central South	11.5	11.2	15.5	10.8	12.9	9.6
1982	Hamilton Health Sciences Corp (General)	Hamilton Niagara Haldimand Brant	Central South	17.1	13.6	17.4	13.9	16.3	15.5
1983	Hamilton Health Sciences Corp (Henderson)	Hamilton Niagara Haldimand Brant	Central South	11.5	13.3	9.1	10.3	11.9	12.3
1994	Hamilton Health Sciences Corp (McMaster)	Hamilton Niagara Haldimand Brant	Central South	13.7	14.1	12.0	17.7	16.0	13.9
2003	St. Joseph's Health Care System (Hamilton)	Hamilton Niagara Haldimand Brant	Central South	10.7	6.8	8.4	12.7	10.9	9.7
3644	St. Joseph's Community Health Centre	Hamilton Niagara Haldimand Brant	Central South	-	-	-	-	-	-
4210	Niagara Health System (Fort Erie Douglas)	Hamilton Niagara Haldimand Brant	Central South	13.1	13.5	12.6	18.0	4.9	6.1
4213	Niagara Health System (Greater Niagara)	Hamilton Niagara Haldimand Brant	Central South	16.9	9.9	16.4	16.3	19.6	17.1
4219	Niagara Health System (Port Colborne)	Hamilton Niagara Haldimand Brant	Central South	9.2	8.4	7.3	8.0	4.4	6.0
4224	Niagara Health System (St. Catharines General)	Hamilton Niagara Haldimand Brant	Central South	12.2	13.8	13.1	12.5	15.2	14.8
4227	Niagara Health System (Welland County)	Hamilton Niagara Haldimand Brant	Central South	16.2	11.9	13.9	19.9	16.3	17.4
4627	Niagara Health System (Ontario Street)	Hamilton Niagara Haldimand Brant	Central South	-	-	8.2	-	6.8	-
4675	Brant Community Healthcare System (Brantford)	Hamilton Niagara Haldimand Brant	Central South	13.3	11.2	13.2	8.1	12.1	11.8
4680	Brant Community Healthcare System (Willet)	Hamilton Niagara Haldimand Brant	Central South	-	-	-	-	-	-
3684	Headwaters Health Care Centre (Dufferin)	Central West	West GTA	16.3	16.7	11.6	12.7	11.3	14.3
3929	William Osler Health System (Etobicoke)	Central West	West GTA	13.4	15.3	12.0	13.0	13.8	10.5
4016	William Osler Health System (Brampton)	Central West	West GTA	14.3	10.9	12.3	14.0	13.1	-
4681	William Osler Health System (Civic)	Central West	West GTA	-	-	-	-	14.7	10.3
3286	Credit Valley Hospital	Mississauga Halton	West GTA	11.3	11.4	9.0	13.3	11.1	11.4
3917	Trillium Health Centre (Mississauga)	Mississauga Halton	West GTA	12.1	17.2	12.3	15.5	12.9	14.8
3926	Halton Healthcare Services Corp (Oakville)	Mississauga Halton	West GTA	10.0	7.2	13.2	12.6	12.2	10.3
4019	William Osler Health Centre (Georgetown)	Mississauga Halton	West GTA	13.3	11.8	12.6	-	-	-
4022	Halton Healthcare Services Corp (Milton)	Mississauga Halton	West GTA	16.2	14.4	11.1	9.0	10.9	11.2
4363	Trillium Health Centre (West Toronto)	Mississauga Halton	West GTA	-	-	-	4.4	-	-
4622	Halton Healthcare Services Corp (Georgetown)	Mississauga Halton	West GTA	-	-	5.7	7.5	8.7	8.3
1302	Toronto East General Hospital	Toronto Central	Toronto – Southeast	13.6	11.4	8.1	12.7	15.6	13.1
1406	Hospital for Sick Children	Toronto Central	Toronto – West	-	-	-	-	-	-
1423	Mount Sinai Hospital	Toronto Central	Toronto – West	10.0	11.5	10.9	14.9	7.5	9.9
1443	St. Joseph's Health Centre	Toronto Central	Toronto – West	15.6	12.7	11.4	13.7	15.3	10.4
1444	St. Michael's Hospital	Toronto Central	Toronto – Southeast	18.6	17.7	17.6	15.8	18.8	13.7
3910	University Health Network	Toronto Central	Toronto – West	12.8	13.8	13.7	14.2	12.6	13.4
3936	Sunnybrook Health Sciences Centre	Toronto Central	Toronto – Northeast	9.3	11.9	13.5	13.2	11.5	10.6
4269	Sunnybrook & Women's College HSC (Women's)	Toronto Central	Toronto – Northeast	-	-	-	-	-	-
4631	Women's College Hospital	Toronto Central	Toronto – Northeast	-	-	-	-	-	-
1329	North York General Hospital (Branson)	Central	Toronto – North & East	-	-	-	-	-	-
1330	North York General Hospital	Central	Toronto – North & East	12.5	12.7	13.4	10.0	12.8	10.7
1343	Humber River Regional Hosp (York-Finch)	Central	Toronto – West	14.0	10.9	11.9	13.1	12.3	8.9
1817	Stevenson Memorial Hospital, Alliston	Central	Central East	16.9	15.2	17.3	11.2	12.7	13.1
2038	Southlake Regional Health Centre	Central	Central East	13.7	10.8	15.0	13.4	13.2	8.8
2046	York Central Hospital	Central	Central East	17.2	15.0	14.8	13.4	13.2	12.0
3587	Markham Stouffville Hospital	Central	Central East	14.5	11.8	12.9	12.2	11.4	8.4
3883	Humber River Regional Hosp (Humber Memorial)	Central	Toronto – West	18.1	12.6	13.8	19.5	13.5	14.6

## Exhibit 5.5a (continued)

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Age- and sex-adjusted mortality rates at 30 days following stroke or transient ischemic attack (TIA), in Ontario and by facility, 2003/04 to 2008/09

Group/Site				Adjusted Mortality Rate <sup>1</sup> (%)					
				2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
<b>Ontario<sup>2</sup></b>				<b>13.3</b>	<b>12.5</b>	<b>12.6</b>	<b>12.7</b>	<b>13.1</b>	<b>12.3</b>
Institution No.	Institution (Site)	Local Health Integration Network	Ontario Stroke System Region						
1597	Campbellford Memorial Hospital	Central East	Central East	10.3	13.8	8.8	14.9	18.6	9.8
1768	Peterborough Regional Health Centre	Central East	Central East	10.7	9.8	11.6	12.7	14.6	13.4
1893	Ross Memorial Hospital	Central East	Central East	16.6	19.3	15.0	12.9	17.9	12.8
3737	Haliburton Highlands Health Services Corp (Haliburton)	Central East	Central East	12.1	8.2	25.3	10.6	2.9	3.8
3860	Northumberland Hills Hospital	Central East	Central East	17.8	14.0	13.9	8.8	14.8	13.7
3932	Lakeridge Health Corporation (Oshawa)	Central East	Central East	9.9	11.3	10.6	11.6	12.8	9.7
3943	Rouge Valley Health System (Centenary)	Central East	Toronto – Southeast	12.1	9.9	10.9	14.9	10.3	14.8
4005	Lakeridge Health Corporation (Port Perry)	Central East	Central East	7.7	10.1	7.6	3.8	9.1	3.6
4008	Lakeridge Health Corporation (Bowmanville)	Central East	Central East	16.9	10.7	6.4	12.1	14.2	7.1
4014	Rouge Valley Health System (Ajax)	Central East	Toronto – Southeast	9.8	9.7	12.0	13.5	10.8	12.4
4152	Scarborough Hospital (General)	Central East	Toronto – North & East	18.0	11.9	16.6	11.3	13.4	16.7
4154	Scarborough Hospital (Grace)	Central East	Toronto – North & East	17.3	15.5	15.3	15.1	14.0	12.5
4191	Haliburton Highlands Health Services Corp (Minden)	Central East	Central East	15.3	6.3	16.7	8.6	-	15.2
4465	Markham Stouffville Hospital (Uxbridge)	Central East	Central East	16.2	16.6	22.1	15.3	12.7	5.9
1097	Hotel Dieu Hospital (Kingston)	South East	South East	-	-	-	-	-	-
1100	Kingston General Hospital	South East	South East	19.7	13.9	18.4	17.2	14.1	18.3
1269	Perth & Smiths Falls District Hospital (Smiths Falls)	South East	South East	12.8	8.6	22.2	4.0	13.8	16.3
1273	Brockville General Hospital	South East	South East	15.9	12.0	11.6	13.3	9.5	12.4
1295	Lennox & Addington County General Hospital	South East	South East	11.4	10.0	8.5	12.9	8.4	10.1
3732	Perth & Smiths Falls District Hospital (Perth)	South East	South East	5.6	8.1	12.9	17.4	11.5	5.6
3988	Quinte Healthcare Corporation (Belleville)	South East	South East	13.7	10.9	13.9	15.3	18.5	10.4
3991	Quinte Healthcare Corporation (Bancroft)	South East	South East	13.0	13.1	7.4	3.0	8.0	8.0
3992	Quinte Healthcare Corporation (Picton)	South East	South East	2.7	5.5	12.3	7.2	14.5	16.8
3994	Quinte Healthcare Corporation (Trenton)	South East	South East	18.1	12.4	8.2	20.0	18.4	8.3
4601	Hotel Dieu Hospital (Kingston)	South East	South East	-	-	-	-	8.3	-
1254	Almonte General Hospital	Champlain	East – Champlain	4.2	3.7	6.6	16.1	13.0	23.3
1256	Carleton Place & District Memorial Hospital	Champlain	East – Champlain	13.1	16.5	14.2	5.1	14.3	10.6
1284	Kemptville District Hospital	Champlain	East – Champlain	5.7	14.0	5.5	5.6	9.5	16.1
1657	Children's Hospital of Eastern Ontario	Champlain	East – Champlain	-	-	-	-	-	-
1661	Hôpital Montfort	Champlain	East – Champlain	15.5	8.6	12.2	10.9	11.8	12.5
1681	Queensway-Carleton Hospital	Champlain	East – Champlain	10.9	10.8	9.0	9.5	10.3	7.9
1777	Hawkesbury & District General Hospital	Champlain	East – Champlain	18.4	16.2	11.2	15.3	18.4	20.3
1799	Arnprior & District Memorial Hospital	Champlain	East – Champlain	11.1	3.2	13.9	5.2	6.0	3.2
1801	St. Francis Memorial Hospital	Champlain	East – Champlain	16.6	19.1	12.0	3.2	8.6	22.0
1803	Deep River & District Hospital	Champlain	East – Champlain	6.4	16.1	-	5.7	10.7	5.1
1804	Pembroke Regional Hospital Inc.	Champlain	East – Champlain	6.8	15.0	8.3	7.9	10.7	8.2
1813	Renfrew Victoria Hospital	Champlain	East – Champlain	5.6	8.3	6.1	4.7	7.2	12.6
1870	Glengarry Memorial Hospital	Champlain	East – Champlain	21.0	19.2	14.4	18.1	13.6	18.4
1885	Winchester District Memorial Hospital	Champlain	East – Champlain	9.6	6.9	13.5	7.3	14.4	14.3
4046	Ottawa Hospital (Civic)	Champlain	East – Champlain	18.2	17.8	12.9	13.4	14.5	15.0
4048	Ottawa Hospital (General)	Champlain	East – Champlain	11.7	12.5	10.1	11.5	10.2	9.3
4164	University of Ottawa Heart Institute	Champlain	East – Champlain	-	30.7	-	-	-	-
4451	Cornwall Community Hospital	Champlain	East – Champlain	10.9	14.3	9.0	10.6	9.0	12.8
1825	Royal Victoria Hospital of Barrie	North Simcoe Muskoka	Central East	10.4	9.2	13.5	12.8	14.8	8.7



## Exhibit 5.5a (continued)

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Age- and sex-adjusted mortality rates at 30 days following stroke or transient ischemic attack (TIA), in Ontario and by facility, 2003/04 to 2008/09

Group/Site				Adjusted Mortality Rate <sup>1</sup> (%)					
				2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
<b>Ontario<sup>2</sup></b>				<b>13.3</b>	<b>12.5</b>	<b>12.6</b>	<b>12.7</b>	<b>13.1</b>	<b>12.3</b>
Institution No.	Institution (Site)	Local Health Integration Network	Ontario Stroke System Region						
1833	Collingwood General & Marine Hospital	North Simcoe Muskoka	Central East	9.5	16.9	9.2	10.8	10.1	11.9
1844	Georgian Bay General Hospital (Midland)	North Simcoe Muskoka	Central East	8.7	4.7	9.7	13.3	12.7	10.5
1853	Orillia Soldiers' Memorial Hospital	North Simcoe Muskoka	Central East	12.3	12.4	14.4	11.6	12.1	11.5
4616	Muskoka Algonquin Healthcare (Huntsville)	North Simcoe Muskoka	Central East	8.5	10.9	12.4	14.3	10.1	15.7
4619	Muskoka Algonquin Healthcare (Bracebridge)	North Simcoe Muskoka	Central East	10.4	13.3	12.5	16.3	7.2	14.9
2057	Blind River District Health Centre/Pavillon Santé	North East	Northeast	40.3	-	10.4	6.1	-	-
2058	St. Joseph's General Hospital	North East	Northeast	17.6	20.2	14.0	13.7	10.9	15.5
2061	Hornepayne Community Hospital	North East	Northeast	37.4	76.7	25.6	135.8	-	-
2064	Sault Area Hospital (Richards Landing)	North East	Northeast	-	26.7	-	-	-	-
2075	Sault Area Hospital (Thessalon)	North East	Northeast	-	-	-	-	-	-
2076	Lady Dunn Health Centre	North East	Northeast	16.3	12.0	13.5	53.9	-	16.8
2078	Lady Minto Hospital	North East	Northeast	6.0	14.8	13.2	8.9	4.5	9.8
2082	Hôpital Notre-Dame Hospital, Hearst	North East	Northeast	16.1	-	-	15.5	19.9	6.8
2084	Anson General Hospital	North East	Northeast	5.0	26.9	13.6	8.9	14.7	-
2088	Sensenbrenner Hospital	North East	Northeast	12.3	17.7	15.9	15.9	12.3	13.3
2090	Bingham Memorial Hospital	North East	Northeast	27.3	-	23.8	15.0	20.4	33.3
2091	Weeneebayko General Hospital	North East	Northeast	-	-	-	-	-	-
2094	Smooth Rock Falls Hospital	North East	Northeast	-	27.1	-	-	-	-
2121	Manitoulin Health Centre (Little Current)	North East	Northeast	12.9	9.5	3.3	12.3	9.3	-
2123	Manitoulin Health Centre (Mindemoya)	North East	Northeast	15.9	4.6	-	9.4	3.6	3.7
2126	Mattawa General Hospital	North East	Northeast	8.2	8.3	26.4	24.3	7.9	24.3
2173	Services de Santé de Chapleau Health Services	North East	Northeast	-	-	16.6	-	10.1	-
2174	Espanola General Hospital	North East	Northeast	11.4	12.3	8.8	18.5	5.6	9.9
2204	Englehart & District Hospital	North East	Northeast	15.4	-	24.2	-	32.0	20.9
2207	Temiskaming Hospital	North East	Northeast	7.4	17.7	22.6	5.9	3.6	4.2
2211	Kirkland & District Hospital	North East	Northeast	23.7	17.8	22.1	5.0	7.2	10.6
2812	West Nipissing General Hospital	North East	Northeast	15.8	10.5	3.3	14.4	13.7	14.7
3411	North Bay General Hospital (Civic/St. Joseph's)	North East	Northeast	14.3	8.4	13.7	11.4	14.2	15.9
3414	Timmins & District General Hospital	North East	Northeast	14.3	11.9	15.1	18.3	11.7	14.8
3729	West Parry Sound Health Centre	North East	Northeast	3.7	15.8	5.1	12.9	17.3	14.8
4059	Hôpital régional de Sudbury Regional Hospital	North East	Northeast	12.7	11.0	13.5	10.9	16.2	15.4
4407	Sault Area Hospital (Sault Ste Marie)	North East	Northeast	10.3	14.3	13.9	13.2	8.9	11.6
4700	Weeneebayko Area Health Authority (Fort Albany)	North East	Northeast	-	-	-	-	-	-
4702	Weeneebayko Area Health Authority (Attawapiskat)	North East	Northeast	-	-	-	-	-	-
2103	Dryden Regional Health Centre	North West	Northwest	15.5	5.9	6.6	3.5	9.9	12.4
2110	Lake-of-the-Woods District Hospital	North West	Northwest	8.7	10.1	10.5	11.4	12.3	11.7
2115	Red Lake Margaret Cochenour Memorial Hospital	North West	Northwest	8.7	16.4	15.3	-	-	-
2147	Atikokan General Hospital	North West	Northwest	26.8	27.6	14.8	21.6	16.6	15.0
2148	Riverside Health Care Facility (Emo)	North West	Northwest	-	-	-	-	71.5	-
2150	Riverside Health Care Facility (La Verendrye)	North West	Northwest	16.6	6.5	11.5	14.1	19.4	10.5
2153	Riverside Health Care Facility (Rainy River)	North West	Northwest	23.6	-	-	18.4	30.0	43.2
2175	Geraldton District Hospital	North West	Northwest	16.5	-	-	-	12.9	29.0
2176	Manitouwadge General Hospital	North West	Northwest	-	-	-	-	-	61.7
2177	Wilson Memorial General Hospital	North West	Northwest	-	-	-	-	26.7	-

