

Sister Study Stroke Outcomes¹ and Characteristics: Data Release 9.1²

	N	% of cohort
Total Cases³	1,717	3.4
Timing and Diagnosis	N	% of cases
Baseline	403	23.5
Hemorrhagic stroke	74	4.3
Nontraumatic intracerebral hemorrhage	73	4.3
Nontraumatic intracranial hemorrhage, unspecified	1	0.1
Cerebral infarction (ischemic stroke)	3	0.2
Stroke, unspecified	326	19.0
Unknown timing ⁴	126	7.3
Nontraumatic intracerebral hemorrhage	1	0.1
Stroke, unspecified	125	7.3
Incident	1,188	69.2
Hemorrhagic stroke	123	7.2
Nontraumatic subarachnoid hemorrhage	31	1.8
Nontraumatic intracerebral hemorrhage	55	3.2
Nontraumatic subdural hemorrhage	20	1.2
Nontraumatic intracranial hemorrhage, unspecified	16	0.9
Presumed hemorrhagic stroke ⁵	1	0.1
Cerebral venous thrombosis	2	0.1
Cerebral infarction (ischemic stroke)	106	6.2
Spinal cord stroke	1	0.1
Cerebellar stroke syndrome	2	0.1
Intraoperative stroke	6	0.3
Postprocedural stroke	1	0.1
Stroke, unspecified	947	55.2
Incident	1,188	
Race/Ethnicity⁶		
Non-Hispanic White	976	82.2
Non-Hispanic Black	116	9.8
Hispanic	54	4.5
Other	42	3.5
Age (in years) at Diagnosis⁷		
Under 50	35	2.9
50-64	324	27.3
65 and older	829	69.8
Diagnosis Confirmation⁸		
Medical	252	21.2
NDI Plus or death certificate only	151	12.7
None	785	66.1

- ¹ Stroke events are defined by the following ICD10 codes: nontraumatic subarachnoid hemorrhage (I60); nontraumatic intracerebral hemorrhage (I61); other and unspecified nontraumatic intracranial hemorrhage (I62) but excluding nontraumatic extradural hemorrhage (I62.1); cerebral infarction (ischemic stroke) or unspecified stroke (I63, I64); intracranial and intraspinal phlebitis and thrombophlebitis (G08); acute infarction of spinal cord (embolic) (nonembolic) (G95.11); intraoperative cerebrovascular infarction (I97.81); vascular syndromes of brain in cerebrovascular diseases (G46); persistent migraine aura with cerebral infarction (G43.6); postprocedural cerebrovascular infarction (I97.82). Other ICD10 codes that may be used only under specified conditions: 1) cerebral aneurysm, nonruptured (I67.1) only if deceased and confirmed as the primary/underlying cause of death from National Death Index (NDI) Plus or death certificate and 2) sequelae of cerebrovascular disease (I69) only in absence of one of the stroke ICD10 codes.
- ² Data release 9.1 includes outcomes from follow-up phases that closed on or before 9/30/2019, excluding all data from participants who have withdrawn their data from the study (n=3).
- ³ Excludes diagnoses where stroke could not be ruled out, but is not the likely diagnosis [n=6]
- ⁴ Unknown timing represents cases that are unknown if diagnosis at or prior to baseline vs. post-baseline (i.e. incident case)
- ⁵ Includes those with report of cerebral aneurysm, nonruptured (I67.1) that is confirmed as the primary/underlying cause of death from NDI Plus or death certificate in the absence of any stroke ICD10 codes.
- ⁶ Race/ethnicity: precedence given to Hispanic ethnicity first, then Black race, then other race, then White race
- ⁷ For those missing age at diagnosis [n=105], age was imputed as the midpoint of the range of plausible ages at diagnosis
- ⁸ Medical confirmation is generally from medical records but also includes medical discharge/billing documentation [n=1]; NDI Plus or death certificate confirmation is specific to cases that do not have medical confirmation