

Supplement

eTable 1:

Diagnosis/Procedure	ICD9 or 10 Code
Acute Ischemic Stroke	I63
Active Cancer	C0*, C20, C21, C22, C23, C24, C25, C26, C3*, C41, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C6*, C8*, C9*, D0*, D1*, D2*, D3*, D4*
Metastasis	C79.9, C79.49, C7B, C80, C79, C78, C77
Endovascular Thrombectomy	03CG*, 03CH*, 03CJ*, 03CL*, 03CM*, 03CN*, 03CP*, 03CQ*

eTable 2:**2a. Comorbidities and stroke characteristics**

Variable	ICD10 Code
Atrial Fibrillation	I48.0, I48.1, I48.2, I489.1
Diabetes Mellitus	E11
Hypertension	I10
Hyperlipidemia	E78.5
Congestive Heart Failure	I50.9
Chronic Kidney Disease	N18
Smoking	Z72.0, F17.2
Anticoagulation Medication	Z79.01
Antiplatelet Medication	Z79.82, Z79.02
tPA	Z92.82
Posterior Circulation	I63.01, I63.11, I63.21, I63.02, I63.12, I63.22, I63.34, I63.44, I63.54
Aphasia	R47.01
Hemiplegia	G81
Herniation	G93.5
Mechanical Ventilation > 48 hours	5A094*, 5A095*, 5A194*, 5A195*

2b. Medical and Neurological Complications

Variable	ICD10 Code
Non-traumatic Intracranial Hemorrhage	I61

Decompressive Hemicraniectomy	0NB0*, 0NB1*, 0NB3*, 0NB4*, 0NB5*, 0NB6*, 0NB7*
PEG	0DH6*
Tracheostomy	0B11*
Deep Venous Thrombosis	I82.4, I82.6
Pulmonary Embolism	I26.9
Pneumonia	J13, J14, J15, J16, J17, J18
Urinary Tract Infection	N39.0
Sepsis	A41.9
Acute Myocardial Infarction	I21
Acute Kidney Injury	N17

eTable 3: Discharge Disposition/Outcomes (HCUP)¹⁵

Coding of DISPUB04 into DISPUNIFORM			
DISPUB04		DISPUNIFORM	
Value	Description	Value	Description
1	Discharged to Home or Self Care (Routine Discharge)	1	Routine
21	Court/Law Enforcement		
30	Still a patient (allowable value for outpatient data starting in data year 2016)		
81	Discharged to Home or Self Care with a Planned Acute Care Hospital Inpatient Readmission (Effective 10/1/13)		
87	Discharged/Transferred to Court/Law Enforcement with a Planned Acute Care Hospital Inpatient Readmission (Effective 10/1/13)		
2	Discharged/transferred to a Short-Term Hospital for Inpatient Care	2	Transfer to Short-term Hospital
5	Effective 10/1/07: Discharged/transferred to a Designated Cancer Center or Children's Hospital		
9	Admitted as an inpatient to this hospital - valid only on outpatient data		
43	Discharged/transferred to a Federal Health Care Facility		
66	Discharged/transferred to a Critical Access Hospital (CAH)		

82	Discharged/Transferred to a Short Term General Hospital for Inpatient Care with a Planned Acute Care Hospital Inpatient Readmission (Effective 10/1/13)		
85	Discharged/Transferred to a Designated Cancer Center or Children's Hospital with a Planned Acute Care Hospital Inpatient Readmission (Effective 10/1/13)		
88	Discharged/Transferred to a Federal Health Care Facility with a Planned Acute Care Hospital Inpatient Readmission (Effective 10/1/13)		
94	Discharged/Transferred to a Critical Access Hospital (CAH) with a Planned Acute Care Hospital Inpatient Readmission (Effective 10/1/13)		
3	Discharged/transferred to a Skilled Nursing Facility (SNF)	5	Transfer Other: Includes Skilled Nursing Facility (SNF), Intermediate Care Facility (ICF), Another Type of Facility
4	Discharged/transferred to an Intermediate Care Facility (ICF)		
5	Effective prior to 10/1/07: Discharged/transferred to another type of institution not defined elsewhere		
51	Hospice - Medical Facility		
61	Discharged/transferred to a Hospital-Based Medicare approved Swing Bed		
62	Discharged/transferred to an Inpatient Rehabilitation Facility (IRF) including Rehabilitation Distinct part unit of a hospital		

63	Discharged/transferred to a Medicare certified Long Term Care Hospital (LTCH)		
64	Discharged/transferred to a Nursing Facility certified by Medicaid, but not certified by Medicare		
65	Discharged/transferred to a Psychiatric Hospital or Psychiatric distinct part unit of a hospital		
69	Discharged/transferred to a Designated Disaster Alternative Care Site (Effective 10/1/13)		
70	Effective 10/1/07: Discharged/transferred to another type of institution not defined elsewhere		
83	Discharged/Transferred to a Skilled Nursing Facility (SNF) with Medicare Certification with a Planned Acute Care Hospital Inpatient Readmission (Effective 10/1/13)		
84	Discharged/Transferred to a Facility that Provides Custodial or Supportive Care with a Planned Acute Care Hospital Inpatient Readmission (Effective 10/1/13)		
89	Discharged/Transferred to a Hospital-based Medicare Approved Swing Bed with a Planned Acute Care Hospital Inpatient Readmission (Effective 10/1/13)		
90	Discharged/Transferred to an Inpatient Rehabilitation Facility (IRF) including Rehabilitation Distinct Part Units of a Hospital with a Planned Acute Care Hospital Inpatient Readmission (Effective 10/1/13)		

91	Discharged/Transferred to a Medicare Certified Long Term Care Hospital (LTCH) with a Planned Acute Care Hospital Inpatient Readmission (Effective 10/1/13)		
92	Discharged/Transferred to a Nursing Facility Certified Under Medicaid but not Certified Under Medicare with a Planned Acute Care Hospital Inpatient Readmission (Effective 10/1/13)		
93	Discharged/Transferred to a Psychiatric Hospital or Psychiatric Distinct Part Unit of a Hospital with a Planned Acute Care Hospital Inpatient Readmission (Effective 10/1/13)		
95	Discharged/Transferred to Another Type of Health Care Institution not Defined Elsewhere in the Code List with a Planned Acute Care Hospital Inpatient Readmission (Effective 10/1/13)		
6	Discharged/transferred to Home under care of Organized Home Health Service Organization	6	Home Health Care (HHC)
8	Home IV Provider		
50	Hospice-Home		
86	Discharged/Transferred to a Home Under Care of Organized Home Health Service Organization with a Planned Acute Care Hospital Inpatient Readmission (Effective 10/1/13)		
7	Left Against Medical Advice or Discontinued Care	7	Against Medical Advice (AMA)
20	Expired	20	Died

40	Expired at home	99	Discharge alive, destination unknown
41	Expired in a Medical Facility		
42	Expired - place unknown		
99	Discharged alive, destination unknown		
.	Missing	.	Missing
.A	Invalid	.A	Invalid

(Healthcare Cost and Utilization Project (HCUP). 2016-2019. Agency for Healthcare Research and Quality, Rockville, MD. www.hcup-us.ahrq.gov/nisoverview.jsp)

eTable 4:Elixhauser Comorbidities¹⁶

ELIXHAUSER COMORBIDITIES
Congestive Heart Failure
Valvular Disease
Pulmonary Circulation Disease
Peripheral Vascular Disease
Paralysis
Other Neurological Disorders
Chronic Pulmonary Disease
Diabetes (without chronic complications)
Diabetes (with chronic complications)
Hypothyroidism
Renal Failure
Liver Disease
Peptic Ulcer Disease
Acquired Immune Deficiency Syndrome
Rheumatoid Arthritis/Collagen Vascular Disease
Coagulopathy
Obesity

Weight loss

Fluid and electrolyte disorders

Anaemia (chronic blood loss)

Anaemia (deficiency)

Alcohol abuse

Drug abuse

Psychoses

Depression

Hypertension

eTable 5:: Types of Cancers undergoing EVT from 2016-2019

Malignancies (n=8935)	
Primary Malignancy	
Hematopoietic	2530 (28.3%)
Lung	1430 (16.0%)
GI	1325 (14.8%)
Urological	1015 (11.4%)
Other or Unspecified	720 (8.1%)
Endocrine	690 (7.7%)
Nervous System	535 (5.9%)
Female Reproductive	230 (2.6%)
Skin	235 (2.6%)
Head and Neck	170 (1.9%)
Male Reproductive	5 (0.1%)
Metastatic Disease	2495 (27.9%)

Types of cancers present in patients undergoing endovascular thrombectomy (EVT). Presented as n (%)

GI= Gastrointestinal

eTable 6. Prognosis Outcomes Associated with Certain Cancers in Patients undergoing EVT. Propensity Score Matching.

Inpatient Mortality	
Lung	OR = 2.378 (95% CI 1.497-3.777) p < 0.001
Urological	OR = 1.899 (95% CI 1.097-3.289) p = 0.026
Metastatic	OR = 2.290 (95% CI 1.572-3.334) p < 0.001
Prolonged Length of Stay (LOS)	
Hematopoietic Malignancy	OR = 1.780 (95% CI 1.316-2.408) p < 0.001

*Only cancers from ST 5 that yielded significant associations were included.