## Stroke CDE Revision History Document

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August 2022 Revisions

- The CDE C00311 Birth weight report value was removed from the Pregnancy and Perinatal History CRF and replaced with CDE C59019 Birth weight measurement. CDE C59019 classified as Supplemental – Highly Recommended.
- The CDE C00311 Birth weight report value was removed from the Stroke Types and Subtypes CRF and replaced with CDE C59019 Birth weight measurement. CDE C59019 classified as Supplemental.
- Start-up Resource Listing was updated to reflect v2.0 recommendations and updates to the Pregnancy and Perinatal History CRF CDEs.

March 2022 Revisions

- Modified Rankin Scale (mRS) NOC was updated.
- Zarit Burden Interview (ZBI) NOC added as Exploratory under the new Caregiver Burden Outcomes Subdomain/ Outcomes and End Points Domain. Highlight Summary document was updated to reflect the addition of this NOC.

November 2021 Revisions

- Western Aphasia Battery NOC was updated to reflect that the full version is recommended, not the bedside version.
- Highlight Summary document was updated to reflect v2.0 recommendations.

September 2021 Revisions

- C59009 Pregnancy current status and C59010 Postpartum period current status were added to the Medical History CRF as Supplemental.

June 2021 Revisions

- Stroke Presentation and Vital Signs Subgroup Summary was posted.
- Assessment of Transient Neurologic Deficits Resolved Prior to Presentation CRF F1160 updates for v2.0 were added. Title was changed from Stroke Symptoms/ Comorbid Events.
  - CDEs Added
    - C22780 Date time clock type
    - C59006 Date time unknown status
  - CDEs Removed
**October 2020 Revisions**

- Classifications for three CDEs on the Pre-Hospital/Emergency Medical Service (EMS) Course CRF were corrected from Supplemental to Supplemental - Highly Recommended:
  - C01000 Glasgow Coma Scale (GCS) - Eye response scale
  - C01001 Glasgow Coma Scale (GCS) - Motor response scale
  - C01002 Glasgow Coma Scale (GCS) - Verbal response scale

**June – September 2020 Revisions**

Overview

The Stroke Version 2.0 CDE Working Group comprehensively reviewed and updated the Stroke Version 1.0 CDEs. The Stroke CDEs were harmonized with the Unruptured Cerebral Aneurysms and Subarachnoid Hemorrhage (SAH) CDEs. There have been significant changes to the content of the Stroke CDE materials in Version 2.0 compared to Version 1.0.

Subgroup Summaries were posted for Stroke Version 2.0 CDE Subgroups.
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Within the Outcomes and End Points Domain, the Emotional and Cognitive Status Subdomain was divided into separate Emotional Status and Cognitive Status Subdomains.

The following case report forms (CRFs) were updated, removed or newly added to the Stroke Version 2.0 recommendations. The corresponding data dictionaries (i.e., CDE Detailed Reports) have been modified in accordance with the form changes. Notably, there were two CDEs added to the list of Core CDEs for all stroke studies: C01521 Heart rate and C04807 Vital status.

Updated CRFs (29)

1. Demographics F1150
   a. CDEs Added
      i. C00031 Race expanded category
      ii. C52535 Ethnicity pertinent intracranial aneurysm type
      iii. C58676 Birth sex assigned type
      iv. C58677 Gender identity type
      v. C58780 Birth sex assigned type other text
      vi. C58781 Gender identity type other text
      vii. C58782 Race expanded maternal category
      viii. C58783 Race expanded paternal category
   b. CDEs Removed
      i. C00035 Gender type
   c. Classification Changes
      i. C14123 Country of residence name: Supplemental (v1.0) to Exploratory (v2.0)
   d. Permissible Value Modifications
      i. C10676 Country of residence code
         1. Added: CN; DE; FI; FR; IN; JP; Other Asian; Other European; RU

2. Social Status F1151
   a. CDEs Added
      i. C19258 Occupation primary status
      ii. C19259 Occupation primary other status text
      iii. C19260 Occupation secondary status
      iv. C19262 Occupation secondary other status text
      v. C19482 Paid work hour week count
      vi. C52560 Occupation paid type
   b. CDEs Removed
      i. C00015 Education year count
   c. Classification Changes
      i. None
   d. Permissible Value Modifications
      i. C00204 Employment current status:
         1. Revised: Keeping House to Homemaker

3. Behavioral History F1154
   a. CDEs Added
      i. C06108 Tobacco smoke pack-year value
      ii. C55953 Tobacco use stopped age not applicable status
      iii. C55966 Alcohol use stopped age not applicable status
      iv. C58936 Drug or substance current illicit or recreational use indicator
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v. C58937 Drug or substance illicit or recreational use category
vi. C58938 Drug or substance illicit or recreational use other text
vii. C58939 Tobacco cigarette use started age value
viii. C58940 Tobacco cigarette use stopped age value
ix. C58941 Tobacco cigarette use stopped age not applicable status
x. C58942 E-cigarette electronic vapor product use ever indicator
xi. C58943 E-cigarette electronic vapor product use status
xii. C58944 Alcohol 30 day use indicator
xiii. C58945 Regular moderate intense aerobic exercise physical activity indicator
xiv. C58946 Regular moderate intense aerobic exercise physical activity days week number

b. CDEs Removed
   i. C00712 Subscribed drug or substance illicitly used category
   ii. C00713 Drug or substance current illicit use indicator
   iii. C18670 Subscribed drug or substance illicitly used other text
c. Classification Changes
   i. C00705 Alcohol current use indicator: Supplemental (v1.0) to S-HR (v2.0)
   ii. C00706 Alcohol prior use indicator: Supplemental (v1.0) to S-HR (v2.0)
d. Permissible Value Modifications
   i. C00719 Tobacco product used type
      1. Added: e-cigarette or vaping products

4. Family History F1153
   a. CDEs Added
      i. C52569 Brain aneurysm family member relationship text
      ii. C52570 Subarachnoid hemorrhage family member relationship text
      iii. C58947 Family history stroke youngest age unknown status
      iv. C58948 Family history coronary artery disease (CAD) youngest age unknown status
   b. CDEs Removed
      i. None
c. Classification Changes
   i. None
d. Permissible Value Modifications
   i. C00720 Family history medical condition type:
      1. Added: Abdominal aortic aneurysm; Arterial dissection; Ehlers-Danlos Syndrome Type IV; Marfan Syndrome; Mitochondrial disorders; Multiple endocrine neoplasia type I; Neurofibromatosis type 1 (NF1); Polycystic kidney disease; Subarachnoid hemorrhage (SAH)

5. History Data Source and Reliability F1156
   a. CDEs Added
      i. None
   b. CDEs Removed
      i. None
c. Classification Changes
   i. None
d. Permissible Value Modifications
   i. C08147 Data source
      1. Removed: Family, specify relation

6. Medical History F1152
   a. CDEs Added
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i. C06246 Medical history condition type
ii. C10539 Diabetes first diagnosis age value
iii. C10541 Diabetes treatment type
iv. C10543 Cancer head or neck radiation treatment indicator
v. C15624 Pregnancy indicator
vi. C15629 Postpartum indicator
vii. C15630 Postpartum day week value
viii. C16012 Medical history condition diagnosis indicator
ix. C16174 Menopause indicator
x. C17473 Cardiovascular history cardiac surgery date
xi. C17475 Cardiovascular history cardiac surgery type
xii. C17480 Diabetes mellitus complications type
xiii. C17488 Psychiatric history psychotic diagnosis type
xiv. C18793 Medical history condition other text
xv. C19057 Diabetes mellitus complications other text
xvi. C19058 Psychiatric history psychotic diagnosis other text
xvii. C19078 Cardiovascular history cardiac surgery other text
xviii. C19174 Other cardiac disorder type
xix. C22679 Medical history first depressive episode diagnosis age value
xx. C52597 Medical history ischemic stroke range
xxi. C52598 Medical history ischemic stroke recency rate
xxii. C52599 Medical history hemorrhagic stroke type
xxiii. C52600 Medical history transient ischemic attack range
xxiv. C52601 Medical history transient ischemic attack recency rate
xxv. C52602 Medical history migraine aura indicator
xxvi. C52603 Medical history migraine active last year indicator
xxvii. C52604 Medical history carotid endarterectomy anatomic site
xxviii. C52605 Medical history carotid artery stenting anatomic site
xxix. C52617 Head trauma result type
xxx. C52618 Medical history neck trauma recency rate
xxxi. C52619 Medical history atrial fibrillation other cause indicator
xxxii. C52620 Medical history atrial fibrillation other cause text
xxxiii. C52621 Medical history artificial valve type
xxxiv. C52622 Medical history cardiac catheterization recency rate
xxxv. C52623 Aortic thoracic aneurysm specify text
xxxvi. C52624 Hypertension first diagnosed age value
xxxvii. C52693 High cholesterol treatment type
xxxviii. C52695 Cancer diagnosis type
xxxix. C52696 Infection within two weeks type
   xl. C52697 Infection within two weeks other text
   xli. C52699 Sickle cell anemia blood transfusion treatment indicator
   xlii. C52700 Hypercoagulable disorder type text
   xliii. C52701 Bleeding disorder type text
   xliv. C52702 Connective tissue disease other type text
   xlv. C52703 Sleep apnea type text
   xlvi. C52706 Mitochondrial encephalomyopathy lactic acidosis stroke like episodes indicator
   xlvii. C52709 Menopause begin age value
   xlviii. C58354 Other cancer type text
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xlix. C58926 Medical history hemorrhagic stroke range
   i. C58927 Medical history hemorrhagic stroke recency rate
   ii. C58928 Medical history carotid endarterectomy recent date
   iii. C58929 Medical history carotid artery stenting recent date
   lii. C58930 Hypertension treatment type
   liv. C58931 Menopause treatment type
   lv. C58932 Menopause treatment type other text
   lvi. C58933 Acquired heart disease indicator
   lvii. C58934 Chickenpox past twelve month indicator
   lviii. C58935 Facial segmental hemangioma PHACE syndrome indicator

b. CDEs Removed
   i. None

c. Classification Changes
   i. C00315 Medical history global assessment indicator: Supplemental (v1.0) to S-HR (v2.0)

d. Permissible Value Modifications
   i. None

7. Pregnancy and Perinatal History F1155
   a. CDEs Added
      i. C00007 Birth date
      ii. C12604 APGAR one minute score
      iii. C16055 Full term delivery child indicator
      iv. C58820 Pregnancy or delivery risk factor status
      v. C58821 Pregnancy or delivery risk factor illness other text
      vi. C58823 Pregnancy or delivery risk factor fetal abnormal recognize in utero text
      vii. C58824 Pregnancy or delivery risk factor maternal infection text
      viii. C58825 Intracranial aneurysm rupture delivery status
   b. CDEs Removed
      i. None

c. Classification Changes
   i. C00001 Gestational age value: Supplemental (v1.0) to S-HR (v2.0)
   ii. C00311 Birth weight value: Supplemental (v1.0) to S-HR (v2.0)
   iii. C00723 APGAR ten minute score: Supplemental (v1.0) to S-HR (v2.0)
   iv. C00724 APGAR five minute score: Supplemental (v1.0) to S-HR (v2.0)
   v. C06005 Data collected date and time: Supplemental (v1.0) to S-HR (v2.0)
   vi. C10556 Pregnant ever indicator: Supplemental (v1.0) to S-HR (v2.0)
   vii. C10558 Delivery or pregnancy termination last date and time: Supplemental (v1.0) to S-HR (v2.0)
   viii. C10559 Spontaneous miscarriage count: Supplemental (v1.0) to S-HR (v2.0)
   ix. C11062 Maternal delivery age value: Supplemental (v1.0) to S-HR (v2.0)
   x. C11063 Parity maternal value: Supplemental (v1.0) to S-HR (v2.0)
   xi. C11065 Gravida maternal value: Supplemental (v1.0) to S-HR (v2.0)
   xii. C11066 Pregnancy or delivery risk factor type: Supplemental (v1.0) to S-HR (v2.0)
   xiii. C11067 Pregnancy or delivery risk factor indicator: Supplemental (v1.0) to S-HR (v2.0)
   xiv. C11078 Delivery mode type: Supplemental (v1.0) to S-HR (v2.0)
   xv. C11079 Neonate delivery route type: Supplemental (v1.0) to S-HR (v2.0)
   xvi. C11080 Delivery modality type: Supplemental (v1.0) to S-HR (v2.0)
   xvii. C11081 Delivery caesarean timing status: Supplemental (v1.0) to S-HR (v2.0)
   xviii. C11083 Delivery extraction type: Supplemental (v1.0) to S-HR (v2.0)
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xix. C14151 Pregnancy medical terminations count: Supplemental (v1.0) to S-HR (v2.0)
xx. C18819 Pregnancy or delivery risk factor other text: Supplemental (v1.0) to S-HR (v2.0)
xxi. C18829 Delivery mode induced other text: Supplemental (v1.0) to S-HR (v2.0)
d. Permissible Value Modifications
   i. C11066 Pregnancy or delivery risk factor type
      1. Added: Fetal abnormalities recognized in utero; Maternal infection; Lack of prenatal care; Maternal drug abuse
   ii. C11078 Delivery mode type
      1. Removed: Induced
   iii. C11080 Delivery modality type: Added Other
8. Prior Functional Status F1157
   a. CDEs Added
      i. None
   b. CDEs Removed
      i. None
   c. Classification Changes
      i. None
   d. Permissible Value Modifications
      i. C11084 Developmental and academic history type
         1. Revised Delayed acquisition of language/cognitive milestones, diagnosed by a pediatrician or neurologist to Delayed acquisition of language milestones, diagnosed by a health care provider or educator; Delayed acquisition of cognitive milestones, diagnosed by a health care provider or educator
9. Hospital Arrival/Admission F1159
   a. CDEs Added
      i. None
   b. CDEs Removed
      i. C14193 Hospital observation stay no admission indicator
   c. Classification Changes
      i. None
   d. Permissible Value Modifications
      i. C14190 Stroke symptoms discover location type
         1. Added: examples of locations Not in a healthcare setting (e.g., at place of residence and not in a hospital or clinic); Another acute care facility (e.g., outside hospital); Chronic healthcare facility (e.g., skilled nursing facility); Outpatient healthcare setting (e.g., clinic)
      ii. C05418 Hospital transport type
         1. Added: Mobile stroke unit; EMS from home/scene; Unknown
         2. Removed: Ground ambulance with physician; Ground ambulance no physician; By foot; Helicopter
      iii. C14195 Hospital point of origin for admission or visit type
         1. Added: Not in a healthcare facility; Another acute care facility; Chronic healthcare facility; Outpatient healthcare facility; Stroke occurred after hospital arrival (in ED/observation unit/inpatient)
         2. Removed: Non-Health Care Facility Point of Origin; Clinic; Transfer From a Hospital (Different Facility); Transfer from a Skilled Nursing Facility (SNF) or Intermediate Care Facility (ICF); Transfer from another Health Care Facility; Emergency Room; Court/Law Enforcement; Transfer from One Distinct Unit of the Hospital to another
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Distinct Unit of the Same Hospital Resulting in a Separate Claim to the Payer; Transfer from Ambulatory Surgery Center; Transfer from Hospice and is Under a Hospice Plan of Care or Enrolled in a Hospice Program

iv. C14197 Hospital care upon admission type
   1. Removed: Other Service Admission; Revised Neuro Admit to Neurology Admission

v. C14198 Hospital presumptive admission diagnosis type
   1. Added: Ischemic Venous Stroke; Intracranial Hemorrhage
   2. Removed: Stroke not otherwise specified
   3. Revised: Ischemic Stroke to Ischemic Arterial Stroke; No stroke related diagnosis to Not stroke related diagnosis

vi. C14199 Stroke complication of medical/ surgical procedure or therapy likelihood type
   1. Added: Not applicable

10. Pre-Hospital/Emergency Medical Service (EMS) Course F1158
   a. CDEs Added
      i. C04814 Residence type
      ii. C05418 Hospital transport type
      iii. C08147 Data source
      iv. C18667 Data source other text
      v. C18747 Residence other text
      vi. C58279 Residence current occupy duration text
      vii. C58804 Emergency Medical Services (EMS) service personnel highest level type
      viii. C58805 Pre-hospital stroke screen tool type
      ix. C58806 Pre-hospital stroke screen tool other text
      x. C58807 Pre-hospital stroke screen tool outcome status
      xi. C58808 Pre-hospital severity scale type
      xii. C58809 Pre-hospital severity scale type other text
      xiii. C58810 Pre-hospital large vessel occlusion indicator
      xiv. C58811 Pre-hospital severity scale total score
      xv. C58812 Pre-hospital severity scale not documented status
   b. CDEs Removed
      i. C14204 Emergency Medical Services (EMS) vehicle type
      ii. C14212 Los Angeles Motor Scale (LAMS) - total score
      iii. C14223 Emergency Medical Services (EMS) service highest level type
   c. Classification Changes
      i. C01000 Glasgow Coma Scale (GCS) - Eye response scale: Supplemental (v1.0) to S-HR (v2.0)
      ii. C01001 Glasgow Coma Scale (GCS) - Motor response scale: Supplemental (v1.0) to S-HR (v2.0)
      iii. C01002 Glasgow Coma Scale (GCS) - Verbal response scale: Supplemental (v1.0) to S-HR (v2.0)
   d. Permissible Value Modifications
      i. C14202 Emergency Medical Services (EMS) dispatch priority type
         1. Added: Not documented
         2. Removed: Unknown
      ii. C14622 Los Angeles Motor Scale (LAMS) - facial smile or grimace abnormal type
         1. Revised: Right; Left to Droop on right side of face; Droop on left side of face
      iii. C14623 Los Angeles Motor Scale (LAMS) - grip abnormal type
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1. Revised: Right Weak Grip to Weak Grip with right hand; Right No Grip to No Grip with right hand; Left Weak Grip to Weak Grip with left hand; Left No Grip to No Grip with left hand

iv. C14624 Los Angeles Motor Scale (LAMS) - arm strength abnormal type
1. Revised: Right Drift Down to Right arm drifts down but does not fall immediately; Right Falls Rapidly to Right arm falls rapidly; Left Drifts Down to Left arm drifts down but does not fall immediately; Left Falls Rapidly to Left arm falls rapidly

11. Stroke Types and Subtypes F1162
a. CDEs Added
   i. C58676 Birth sex assigned type
   ii. C58780 Birth sex assigned type other text
   iii. C58893 Clinical stroke time based ischemic stroke laterality type
   iv. C58894 Clinical stroke time based Intracerebral hemorrhage laterality type
   v. C58895 Clinical stroke tissue based ischemic stroke laterality type
   vi. C58896 Clinical stroke tissue based Intracerebral hemorrhage laterality type
   vii. C58898 Causative Classification System (CCS) - large artery atherosclerosis phenotype status
   viii. C58899 Causative Classification System (CCS) - cardiac embolism phenotype status
   ix. C58901 Causative Classification System (CCS) - small artery occlusion phenotype status
   x. C58902 Causative Classification System (CCS) - other uncommon cause phenotype status
   xi. C58904 Atherosclerosis small-vessel disease cardiac pathology other cause dissection (ASCOD) system - atherothrombosis grade
   xii. C58907 Atherosclerosis small-vessel disease cardiac pathology other cause dissection (ASCOD) system - small vessel grade
   xiii. C58908 Atherosclerosis small-vessel disease cardiac pathology other cause dissection (ASCOD) system - cardioembolic grade
   xiv. C58909 Atherosclerosis small-vessel disease cardiac pathology other cause dissection (ASCOD) system - other grade
   xv. C58910 Atherosclerosis small-vessel disease cardiac pathology other cause dissection (ASCOD) system - dissection grade
   xvi. C58911 Atherosclerosis small vessel disease cardiac pathology other cause dissection (ASCOD) system - sub type
   xvii. C58912 Embolic stroke of undetermined source (ESUS) - criteria category
   xviii. C58913 Perinatal arterial ischemic stroke type
   xix. C58914 Vascular effects of Infection in Pediatric Stroke (VIPS) - arteriopathy primary diagnosis subtype classification status
   xx. C58915 Vascular effects of Infection in Pediatric Stroke (VIPS) - arteriopathy secondary diagnosis subtype classification status
   xxi. C58916 Vascular effects of Infection in Pediatric Stroke (VIPS) - focal cerebral arteriopathy type
   xxii. C58917 Focal Cerebral Arteriopathy Severity Score (FCASS) - supraclinoid internal carotid artery score scale
   xxiii. C58918 Focal Cerebral Arteriopathy Severity Score (FCASS) - middle cerebral artery 1 segment score scale
   xxiv. C58919 Focal Cerebral Arteriopathy Severity Score (FCASS) - anterior cerebral artery 1 segment score scale
   xxv. C58920 Focal Cerebral Arteriopathy Severity Score (FCASS) - middle cerebral artery 2 segment score scale
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xxvi. C58921 Focal Cerebral Arteriopathy Severity Score (FCASS) - anterior cerebral artery 2 segment score scale
xxvii. C58922 Focal Cerebral Arteriopathy Severity Score (FCASS) - baseline score
xxviii. C58923 Focal Cerebral Arteriopathy Severity Score (FCASS) - delta point score code
xxix. C58924 Focal Cerebral Arteriopathy Severity Score (FCASS) - follow up sum score
xxx. C58925 Sophia chance findings during routine imaging other text

b. CDEs Removed
   i. C00035 Gender type
   ii. C14264 Childhood AIS standardized classification and diagnostic evaluation (CASCADE) secondary sub type
   iii. C19075 Childhood AIS standardized classification and diagnostic evaluation (CASCADE) secondary sub other text

c. Classification Changes
   i. C14257 Childhood stroke type: Supplemental (v1.0) to S-HR (v2.0)
   ii. C14258 Perinatal stroke type: Supplemental (v1.0) to S-HR (v2.0)

d. Permissible Value Modifications
   i. C14225 Trial of ORG 10172 in Acute Stroke Treatment (TOAST) - ischemic stroke sub type
      1. Added: Small artery occlusion
      2. Removed: Small vessel occlusion
   ii. C14236 Oxfordshire Community Stroke Project (OCSP) - subtype category
      1. Removed: Cerebral infarction
   iii. C14237 Intracerebral hemorrhage presumed cause type
      1. Removed: Aneurysm
   iv. C14244 Subarachnoid hemorrhage etiology type
      1. Added: Fusiform aneurysm; Presumed amyloid angiopathy
   v. C14257 Childhood stroke type
      1. Added: Childhood cerebral venous thrombosis
      2. Removed: Childhood cerebral sinovenous ischemic stroke
   vi. C14258 Perinatal stroke type
      1. Added: Perinatal arterial ischemic stroke (PAIS); Perinatal cerebral venous thrombosis (CVT); Periventricular venous infarction (PVI)
      2. Removed: Ischemic perinatal stroke (IPS); Neonatal acute arterial ischemic stroke (AIS); Neonatal cerebral sinovenous ischemic stroke; Presumed pre- or perinatal stroke
   vii. C14261 Childhood AIS standardized classification and diagnostic evaluation (CASCADE) - standard primary acute sub type
      1. Added Undetermined etiology

12. Hospital Discharge F1163
   a. CDEs Added
      i. C58829 Diagnosis principal discharge stroke TIA related ICD-10-CM code status
      ii. C58831 Stroke initial residence or discharge destination other text
   b. CDEs Removed
      i. C14217 Stroke service accredited discharge destination type

c. Classification Changes
   i. None

d. Permissible Value Modifications
   i. C14627 Stroke initial residence or discharge destination type
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1. Added: Home with no in-home services; Home with home care services; Another family member’s/ friend’s home; Intensive Inpatient rehabilitation facility (IRF) including distinct rehabilitation units of a hospital: three hours or greater of therapy per day; Skilled nursing facility (SNF)/ subacute rehab: less than two hours a day of therapy; Medicare certified long-term care hospital (LTCH); Hospice- home or medical facility providing hospice level of care; Other not defined above.: Expired

2. Removed: Discharged to home or self care (routine discharge); Discharged/ transferred to a short term/ general hospital for inpatient care; Discharged/ transferred to skilled nursing facility (SNF) with Medicare certification in anticipation of skilled care = patient received therapy less than 3 hours/day; Discharged/ transferred to a Designated Cancer Center or Children’s Hospital; Discharged/ transferred to home under care of organized home health service organization; Expired; Discharged/ transferred to court/ law enforcement; Discharged/ transferred to a federal health care facility; Hospice home; Hospice medical facility (certified) providing hospice level of care; Discharged/ transferred to hospital-based Medicare approved swing bed; Discharged/ transferred to an inpatient rehabilitation facility (IRF) including rehabilitation distinct part units of a hospital; Discharged/ transferred to a nursing facility certified under Medicaid but not certified under Medicare; Discharged/ transferred to a psychiatric hospital or psychiatric distinct part unit of a hospital; Discharged/ transferred to a Medicare certified long term care hospital (LTCH); Discharged/ transferred to a Critical Access Hospital (CAH); Discharged/ transferred to another type of health care institution not defined elsewhere in this code list

13. Physical/Neurological Exam F1164
   a. CDEs Added
      i. C02411 Laterality type
      ii. C21720 Vertigo assessment indicator
      iii. C58816 Frontal lobe function status
      iv. C58817 Parietal lobe function status
      v. C58818 Dysphagia status
      vi. C58819 Dizziness indicator
   b. CDEs Removed
      i. C13520 Dysphagia indicator
      ii. C13523 Dizziness or vertigo indicator
   c. Classification Changes
      i. None
   d. Permissible Value Modifications
      i. None

14. Vital Signs F1165
   a. CDEs Added
      i. C01500 Airway treatment type
      ii. C01551 Respiration type
      iii. C01557 Respiratory support type
   b. CDEs Removed
      i. None
   c. Classification Changes
      i. None
   d. Permissible Value Modifications
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i. C01553 Blood pressure measurement position type
   1. Removed: Unknown

ii. C01550 Temperature measurement anatomic site
    1. Removed: Forehead Cutaneous Infrared; Unknown

15. Biospecimen Collection and Processing F1169
   a. CDEs Added
      i. C01705 Lab test name
      ii. C01712 Lab specimen type
      iii. C14517 Device manufacturer name
      iv. C18731 Lab test other text
      v. C54743 Specimen biologic source type
      vi. C54746 Specimen not collected reason
      vii. C54748 Specimen baseline collection indicator
      viii. C54749 Cerebrospinal fluid collection method type
      ix. C54750 Cerebrospinal fluid collection method other text
      x. C54751 Cerebrospinal fluid collection anatomic site
      xi. C54752 Cerebrospinal fluid collection anatomic site other text
      xii. C54753 Specimen collection tube type
      xiii. C54754 Specimen collection tube other text
      xiv. C55003 Specimen centrifugation revolutions per minute value
      xv. C55004 Specimen centrifugation temperature value
      xvi. C55005 Specimen centrifugation duration
      xvii. C55009 Specimen storage temperature value
      xviii. C55323 Specimen normal control collected indicator
      xix. C55325 Specimen convalescent collected indicator
      xx. C55327 Specimen serial collected indicator
      xxi. C55329 Specimen storage barcode system used indicator
      xxii. C55338 Specimen freeze thaw cycle prior biomarker assay number
      xxiii. C55340 Specimen selective inhibitor used indicator
      xxiv. C55341 Specimen selective inhibitor used type
      xxv. C55343 Specimen hazardous triple packaged ship indicator
      xxvi. C55344 Microdialysis cerebral probe location anatomic site
      xxvii. C55345 Microdialysis cerebral probe number
      xxviii. C55346 Microdialysis cerebral probe molecular weight limit value
      xxix. C55347 Microdialysis cerebral probe membrane length measurement
      xxx. C55348 Device model number
      xxxi. C55349 Microdialysis cerebral Ictus monitoring interval
      xxxii. C55352 Microdialysate source type
      xxxiii. C55353 Microdialysate composition type text
      xxxiv. C55357 Microdialysis cerebral analyte glucose measurement
      xxxv. C55358 Microdialysis cerebral analyte pyruvate measurement
      xxxvi. C55359 Microdialysis cerebral analyte lactate measurement
      xxxvii. C55360 Microdialysis cerebral analyte lactate pyruvate ratio value
      xxxviii. C55361 Microdialysis cerebral novel target analyte indicator
      xxxix. C55362 Multiplex platform normalization technique text
            xl. C55363 Multiplex platform batch effect indicator
            xli. C55746 Specimen surround dry ice shipment indicator
            xlii. C55747 Specimen insulate shipment box indicator
xliii. C56123 Specimen centrifugation performed indicator
xliv. C57923 Blood collection tube additive type
xlv. C58407 Blood collection tube volume value
xlii. C58426 Biomarker specimen collected aliquot number
xlvi. C58427 Biomarker specimen collected aliquot value
xlvii. C58717 Alcoholic drink not applicable last year indicator
xlviii. C58718 Tobacco last consumed date and time
li. C58719 Tobacco not applicable last year indicator
lii. C58720 Collection time mortality status indicator
liii. C58721 Lab specimen type other text
liv. C58722 Specimen collection position type
lv. C58723 Blood collection method type other text
lv. C58724 Specimen hemolyzed indicator
lvi. C58735 Needle gauge size type
lvii. C58736 Needle gauge size type other text
lviii. C58737 Blood collection tube number
lix. C58738 CSF/serum simultaneous collection indicator
lx. C58739 CSF/plasma simultaneous collection indicator
lxi. C58740 Specimen collection grossly bloody indicator
lxii. C58741 Specimen shipped indicator
lxiii. C58742 Shipping conditions type
lxiv. C58743 Shipping conditions type other text
lxv. C58744 Specimen ambient light protection indicator
lxvi. C58745 Specimen cooler than room temperature indicator
lxvii. C58746 Specimen centrifugation date and time
lxviii. C58747 Specimen freezing date and time
lxix. C58748 Freezing method type
lxx. C58749 Freezing method type other text
lxxi. C58750 Blood collection tube additive type other text
lxxii. C58751 Specimen expiration date
lxxiii. C58752 Specimen expiration not applicable indicator
lxxiv. C58753 Specimen analysis date and time
lxxv. C58754 Multiplex platform statistical methodology type
lxxvi. C58873 Blood collection method category
b. CDEs Removed
i. C12207 Gastrointestinal therapy take nutrition supplement indicator
ii. C12208 Gastrointestinal therapy nutrition supplement type
iii. C14543 Genetic disorder type
iv. C14544 Pregnant or in postpartum period indicator
v. C14545 Pregnant or in postpartum period status
vi. C18827 Gastrointestinal therapy nutrition supplement other text
vii. C18961 Genetic disorder other text
c. Classification Changes
i. C01701 Lab specimen collection date and time: Supplemental (v1.0) to S-HR (v2.0)
d. Permissible Value Modifications
i. None
16. Laboratory Tests F1167
a. CDEs Added
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i. C01714 Pregnancy test not applicable reason
ii. C58755 Toxicology screen other text
iii. C58756 Lab test result standard unit of measure
iv. C58757 Lab test unit type

b. CDEs Removed
i. C01707 Lab test abnormality significance type
ii. C01708 Lab test performed indicator
iii. C01711 Lab test result unit of measure

c. Classification Changes
i. None

d. Permissible Value Modifications
i. C01705 Lab test name
   1. Added: Acidity/pH; Activated Partial Thromboplastin Time (aPTT); Activated protein C resistance (APCR); Albumin; Ammonia (NH3); Analgesics; Anticardiolipin antibody IgG (ACA IgG); Anticardiolipin antibody IgM (ACA IgM); Anticonvulsants; Antinuclear antibodies (ANA); Antithrombin activity (AT-III); Barbiturates; Beta 2- glycoprotein Antibody IgG; Beta 2- glycoprotein Antibody IgM; Classical AntiNeutrophil Cytoplasmic Antibodies (C-ANCA); Confirmatory testing for lupus anticoagulant; Creatinine Clearance; CSF glucose; CSF protein; CSF red blood cell count; CSF white blood cell count; D-dimer; Dlute russell viper venom time (DRVVT); Direct bilirubin; Electrophoresis; Erythrocyte sedimentation rate (ESR); Factor V Leiden mutation (FVL); Fibrinogen; Folate; Glomerular Filtration Rate (GFR); Glycosylated Hemoglobin (HgBA1C); High Sensitivity C Reactive Protein (hsCRP); HIV antibodies; Homocysteine; Immunoglobulin G (IgG); Oligoclonal Bands; Partial pressure of carbon dioxide (PaCO2); Partial Pressure of Oxygen (PaO2); Plasmin; Protein C activity; Protein S activity; Protein S Antigen, Free; Prothrombin gene mutation (Factor II/ G20210A); Protoplastic-staining AntiNeutrophil Cytoplasmic Antibodies (P-ANCA); Psychotropics; Rapid plasma reagin (RPR); Rheumatoid factor; Sedatives; Stimulants; Stool guaiac; Sympathomimetics; Thrombin time; Total protein; Varicella-Zoster Virus (VZV) Antibodies; Varicella-Zoster Virus (VZV) PCR; Venereal Disease Research Laboratory (VDRL) Slide Test
   2. Removed 8-isoprostanes; 8-OH-2-deoxyguanosine; Atrial natriuretic peptide (ANP); B-type natriuretic peptide (BNP); C-Reactive Protein; Fasting Glucose; Frataxin Level; GAA repeat-expansion mutation; Glycosylated Hemoglobin; Lactate; Oral glucose tolerance; Plasma malondialdehyde; Serum N-terminal atrial natriuretic peptide (ANP-N); Urea; Urine 8-OH-2-deoxyguanosine/creatinine ratio; Urine Creatinine; Urine Nitrite; Urine pH; Urine White Blood Cells (WBC); Vitamin E

ii. C10896 Pregnancy test performed indicator
   1. Removed: Unknown

17. Parenchymal Imaging F1171

a. CDEs Added
i. C02426 Epidural hematoma findings type
ii. C02429 Epidural hematoma volume measurement
iii. C02455 Midline shift supratentorial indicator
iv. C02474 Subdural hematoma acute volume measurement
v. C08245 Imaging slice count
vi. C13245 National Institutes of Health Stroke Scale (NIHSS) - Severity total score
vii. C58822 Imaging acute infarcts count category
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viii. C58826 Hyperdense artery specify text
ix. C58827 Hyperdense venous sinus or cortical vein specify text
x. C58828 Imaging acute ischemic lesion volume sequence type
xi. C58830 Imaging acute ischemic lesion volume sequence specify text
xii. C58832 Imaging chronic infarct count category
xiii. C58833 Leukoaraiosis sequence type
xiv. C58834 Leukoaraiosis sequence specify text
xv. C58835 Perihematomal edema MRI sequence type
xvi. C58836 Perihematomal edema MRI sequence other text
xvii. C58837 Epidural hematoma thickness measurement
xviii. C58838 Epidural hematoma location anatomic site
xix. C58839 Subdural hematoma thickness measurement
xx. C58840 Subdural hematoma location anatomic site
xxi. C58841 Herniation present indicator
xxii. C58842 Herniation location type
xxiii. C58843 Findings other present indicator
xxiv. C58844 Other findings text

b. CDEs Removed
i. C08254 Imaging visual analysis location performed type
ii. C08255 Imaging visual analysis blinded indicator
iii. C10931 Imaging quality of images technically satisfactory indicator
iv. C13752 Imaging computed tomography angiography (CTA) source used indicator
v. C13754 Imaging CT settings window value
vi. C13755 Imaging CT settings level value
vii. C13757 Imaging acute infarct level of confidence status
viii. C13758 Imaging diagnosis stroke transient ischemic attack indicator
ix. C13759 Imaging diagnosis stroke transient ischemic attack symptoms resolve indicator
x. C13760 Imaging diagnosis stroke transient ischemic attack symptoms resolve less 24 hours indicator
xi. C13761 Imaging acute infarcts count
xii. C13787 Imaging chronic infarct count
xiii. C13818 Hematoma deep region epicenter anatomic site
xiv. C13844 Hemorrhagic transformation symptomatic type
xv. C13845 Imaging shift present indicator
xvi. C13846 Imaging shift type
xvii. C13856 Malformation other present indicator
xviii. C18620 Hyperdense vessel specify text
xix. C18720 Imaging visual analysis location performed other text
c. Classification Changes
i. C13774 Imaging one third middle cerebral artery territory involved indicator:
   Supplemental (v1.0) to Exploratory (v2.0)
d. Permissible Value Modifications
i. C13751 Imaging acquisition reason
   1. Added: Follow-up
ii. C02437 Imaging modality type
   1. Added: CT
iii. C02495 Imaging scanner strength value
   1. Added: 1.5T; 3.0T; 4.0T; 7.0T; Other, specify
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iv.  C02499 Imaging pulse sequence type
    1.  Added: T1-weighted; T2-weighted; Other, specify

v.  C02411 Laterality type
    1.  Added: Right; Left; Bilateral; NA - Not present

vi.  C13767 Imaging vascular Territory location of acute infarct name
    1.  Added: Lenticulostriates; Borderzone
    2.  Removed: Watershed

vii. C13768 Imaging additional vascular result
    1.  Added: Hyperdense venous sinus or cortical vein, specify
    2.  Removed: Mass Effect; Loss of grey white differentiation
    3.  Revised: Edema to Malignant edema; Hyperdense vessel, specify to Hyperdense artery, specify

viii. C13817 Hematoma deep region anatomic site
    1.  Removed: Subcortical white matter

ix.   C13838 Hijdra scale anatomic site
    1.  Removed: Third Ventricle

x.    C13841 Subdural hematoma type
    1.  Removed: Lengthy; Prolonged

xi.   C13842 Hemorrhagic transformation present indicator
    1.  Added: Unsure
    2.  Removed: Unknown

xii.  C13762 Imaging infarcts one vascular territory indicator
    1.  Removed: Unknown

xiii. C13774 Imaging one third middle cerebral artery territory involved indicator
    1.  Removed: Unknown

xiv.  C13786 Imaging chronic infarct present indicator
    1.  Removed: Unknown

xv.   C13821 Spot sign positive indicator
    1.  Removed: Unknown

xvi.  C13826 Hematoma chronic indicator
    1.  Removed: Unknown

xvii. C13828 Microbleed present indicator
    1.  Removed: Unknown

xviii. C13840 Subdural hematoma present indicator
    1.  Removed: Unknown

xix.  C13848 Hydrocephalus present indicator
    1.  Removed: Unknown

xx.   C13850 Arteriovenous present malformation indicator
    1.  Removed: Unknown

xxi.  C13852 Tumor present indicator
    1.  Removed: Unknown

xxii. C13854 Abscess present indicator
    1.  Removed: Unknown

18.  Perfusion and Penumbral Imaging F1172
    a.  CDEs Added
        i.  C58814 Imaging magnetic resonance based identification penumbra method other text
        ii. C58815 Imaging perfusion computed tomography based identification penumbra method other text
b. CDEs Removed
   i. C02437 Imaging modality type
   ii. C02495 Imaging scanner strength value
   iii. C08244 Imaging slice thickness value
   iv. C08254 Imaging visual analysis location performed type
   v. C08255 Imaging visual analysis blinded indicator
   vi. C10931 Imaging quality of images technically satisfactory indicator
   vii. C18701 Imaging modality other text
   viii. C18718 Imaging scanner strength other text
   ix. C18720 Imaging visual analysis location performed other text

C. Classification Changes

D. Permissible Value Modifications
   i. C13857 Imaging magnetic resonance based identification core volume type
      1. Removed: Cerebral blood volume (CBV) defect volume
   ii. C13862 Imaging magnetic resonance based identification perfusion defect volume type
      1. Added: (CBV) to Cerebral blood flow defect volume
   iii. C13866 Imaging magnetic resonance based identification penumbra method type
      1. Added: Other, specify
   iv. C13873 Imaging perfusion computed tomography based identification perfusion defect volume type
      1. Added: Regional cerebral blood flow (rCBF): Removed Cerebral blood volume(CBV) defect volume
   v. C13877 Imaging perfusion computed tomography based identification penumbra method type
      1. Added: Other, specify

19. Vessel Carotid Ultrasound F1173
   a. CDEs Added
      i. C13245 National Institutes of Health Stroke Scale (NIHSS) - Severity total score
      ii. C58867 Imaging chronic stroke type
      iii. C58868 Imaging transient ischemic attack type
      iv. C58869 Imaging contrast agent name
      v. C58870 Imaging plaque thickness unit of measure
      vi. C58871 Imaging signal indicator
      vii. C58872 Intima media thickness (IMT) edge detection algorithm type
   b. CDEs Removed
      i. C08254 Imaging visual analysis location performed type
      ii. C08255 Imaging visual analysis blinded indicator
      iii. C10931 Imaging quality of images technically satisfactory indicator
      iv. C13751 Imaging acquisition reason
      v. C13918 Imaging no signal indicator
      vi. C13937 Imaging mean lumen diameter measurement
      vii. C13938 Imaging minimum lumen diameter measurement
      viii. C13939 Imaging mean interadventitial diameter measurement
      ix. C13940 Imaging minimum interadventitial diameter measurement
      x. C18720 Imaging visual analysis location performed other text
      xi. C18888 Imaging acquisition reason other text
   c. Classification Changes
d. Permissible Value Modifications

i. C13901 Imaging patient type
   1. Added: Chronic TIA
   2. Removed: Brain Edema; Vasospasm

ii. C10570 Imaging contrast agent used indicator
    1. Removed: Unknown; Not applicable

iii. C13924 Imaging vertebral origin result
     1. Added: Reverse flow

iv. C13925 Imaging vertebral interosseous result
    1. Added: Occluded; Reverse flow
    2. Removed: Occlusion

v. C13922 Imaging common carotid artery (CCA) externalization indicator
    1. Removed: Unknown

vi. C13926 Intima media thickness (IMT) B mode indicator
    1. Removed: Unknown

vii. C13927 Intima media thickness (IMT) B Mode guided M mode indicator
     1. Removed: Unknown

viii. C13928 Intima media thickness (IMT) electronic caliper indicator
     1. Removed: Unknown

ix. C13929 Intima media thickness (IMT) edge detection algorithm indicator
    1. Removed: Unknown

20. Vessel Imaging Angiography F1174

a. CDEs Added
   i. C02483 Traumatic aneurysm findings type
   ii. C02484 Traumatic aneurysm status
   iii. C02485 Traumatic aneurysm anatomic site
   iv. C02486 Traumatic aneurysm volume measurement
   v. C02487 Vascular dissection findings type
   vi. C02488 Vascular dissection extent type
   vii. C02491 Venous sinus injury status
   viii. C02492 Venous sinus injury anatomic site
   ix. C02493 Venous sinus injury morphology type
   x. C13948 Imaging mean blood velocity measurement
   xi. C54675 Imaging aneurysm anatomic site
   xii. C54728 Aneurysm neck maximum measurement
   xiii. C54729 Aneurysm aspect ratio value
   xiv. C54738 Aneurysm thrombus indicator
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xv. C54739 Aneurysm shape pathology type
xvi. C54757 Imaging aneurysm dome size value
xvii. C54758 Imaging aneurysm irregular indicator
xviii. C54760 Imaging aneurysm 3D reconstruct indicator
xix. C54761 Wall opposition stent flow diverter quality grade
xx. C54762 Imaging aneurysm occlusion percent value
xxi. C54763 Imaging aneurysm Raymond Roy Occlusion Classification category
xxii. C54764 Imaging aneurysm parent branch vessel occlusion indicator
xxiii. C54765 Imaging aneurysm kinetic energy mean measurement
xxiv. C54766 Imaging aneurysm shear rate mean measurement
xxv. C54767 Imaging aneurysm vorticity mean measurement
xxvi. C54768 Imaging aneurysm viscous dissipation measurement
xxvii. C54769 Imaging aneurysm vortex coreline length measurement
xxviii. C54770 Imaging aneurysm wall shear stress mean measurement
xxix. C54771 Imaging aneurysm wall shear stress maximum measurement
xxx. C54772 Imaging aneurysm wall shear stress minimum measurement
xxxi. C54773 Imaging aneurysm shear concentration index value
xxi. C54774 Imaging aneurysm low wall shear stress percent value
xxii. C54775 Imaging aneurysm oscillatory shear stress mean value
xxiii. C54776 Imaging aneurysm inflow mean rate
xxiv. C54777 Imaging aneurysm inflow concentration index value
xxv. C58881 Expanded Thrombolysis in Cerebral Infarction (eTICI) perfusion scale grade
xxvi. C58889 Imaging vessel angiography Tan collateral score
xxvii. C58890 Imaging aneurysm kinetic energy mean unit of measure
xxviii. C58891 Imaging aneurysm shear rate mean unit of measure
x. C58892 Imaging aneurysm vorticity mean unit of measure
xi. C58897 Imaging aneurysm viscous dissipation unit of measure
xlii. C58900 Imaging aneurysm oscillatory shear stress mean value unit of measure
xliii. C58903 Traumatic aneurysm anatomic site other text

b. CDEs Removed
i. C08254 Imaging visual analysis location performed type
ii. C08255 Imaging visual analysis blinded indicator
iii. C10931 Imaging quality of images technically satisfactory indicator
iv. C13886 Imaging vessel angiography cause type
v. C13887 Imaging vessel angiography symptomology type
vi. C13888 Thrombolysis In Myocardial Infarction (TIMI) scale - individual vessel score
vii. C13889 Thrombolysis In Myocardial Infarction (TIMI) scale - global score
viii. C13891 Thrombolysis in Cerebral Infarction (TICI) perfusion scale grade
ix. C13895 Imaging vessel angiography presumed pathogenesis type
x. C13896 Imaging vessel angiography level of confidence status
xi. C18720 Imaging visual analysis location performed other text

c. Classification Changes
i. C02494 Imaging study date and time: Supplemental (v1.0) to S-HR (v2.0)
ii. C13750 Imaging study ID number: Supplemental (v1.0) to S-HR (v2.0)
iii. C13879 Imaging modality vessel imaging angiography type: Supplemental (v1.0) to S-HR (v2.0)

d. Permissible Value Modifications
i. C13751 Imaging acquisition reason
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1. Added: Treatment
   ii. C13879 Imaging modality vessel imaging angiography type
      1. Added: Cone Beam Computed Tomography (CBCT)
      2. Revised: MRA to MRA/MRV; CTA to CTA/CTV
   iii. C02411 Laterality type
      1. Added: Right; Left; Bilateral; N/A - Not present
   iv. C13882 Magnetic resonance angiography type
      1. Removed: Computer Tomography Venography (CTV)
   v. C13884 Imaging vessel angiography arterial anatomic site
      1. Revised: Basilar-distal to AICA to Basilar-distal; Basilar-proximal to AICA to Basilar-proximal
   vi. C13885 Imaging vessel angiography arterial result
      1. Added: Other
   vii. C13894 Imaging vessel angiography overall assessment type
      1. Added: Stenosis; Occlusion; Other
      2. Removed: Impaired flow
      3. Revised: Small Caliber to Small Caliber/Congenital Hypoplasia

21. Electrocardiogram (ECG) F1177
   a. CDEs Added
      i. None
   b. CDEs Removed
      i. None
   c. Classification Changes
      i. None
   d. Permissible Value Modifications
      i. C04504 ECG heart rhythm result type:
         1. Removed: Atrial arrhythmia; Premature atrial contractions; Atrial fibrillation; Atrial flutter; Atrial other; Ventricular arrhythmia; Premature ventricular contractions; Ventricular fibrillation; Ventricular tachycardia; Ventricular other; Ventricular arrhythmia morphology-Uniform; Paced rhythm, specify type; Paced rhythm type-Atrial; Paced rhythm type-ventricular

22. Antithrombotics and Risk Factor Controlling Medications F1178
   a. CDEs Added
      i. C58845 Discharge origin location type
      ii. C58846 Discharge origin location other text
      iii. C58949 Medication stroke discharge prescribe category
      iv. C58950 Anticoagulant agent stroke discharge prescribe type
      v. C58951 Anticoagulant agent stroke discharge prescribe other text
      vi. C58952 Antiplatelet agent stroke discharge prescribe type
      vii. C58953 Antiplatelet agent stroke discharge prescribe other text
      viii. C58954 Antihypertensive agent stroke discharge prescribe type
      ix. C58955 Antihypertensive agent stroke discharge prescribe other text
      x. C58956 Anti diabetic agent stroke discharge prescribe type
      xi. C58957 Anti diabetic agent stroke discharge prescribe other text
      xii. C58958 Lipid lower agent stroke discharge prescribe type
      xiii. C58959 Lipid lower agent stroke discharge prescribe other text
      xiv. C58960 Antithrombotic therapy not prescribed serious side effect text
   b. CDEs Removed
i. C14636 Heparin venous thromboembolism (VTE) prophylaxis dose
ii. C14637 Stroke discharge medication category

Classification Changes
i. None

Permissible Value Modifications
i. C14630 Anticoagulant agent in hospital type
   1. Added: Direct thrombin inhibitor (Lepirudin, Desirudin, Bivalirudin, Argatroban, Dabigatran); Factor Xa inhibitor (Apixaban, Betrixaban, Edoxaban, Rivaroxaban, Fondaparinux)
   2. Removed: Fondaparinux (Arixtra)

ii. C14632 Antiplatelet agent in hospital type
   1. Added: Cilostazol
   2. Removed: Ticlopidine (Ticlid)

iii. C14635 Extracranial venous thromboembolism prophylaxis type
    1. Added: Direct thrombin inhibitor (Lepirudin, Desirudin, Bivalirudin, Argatroban, Dabigatran)
    2. Added examples: Factor Xa inhibitor (Apixaban, Betrixaban, Edoxaban, Rivaroxaban, Fondaparinux)
    3. Removed: Warfarin; Venous foot pumps (VFP); Oral Factor Xa inhibitor

iv. C14638 Antithrombotic therapy not prescribed reason
    1. Revised: Allergy to or complication related to aspirin, ticlopidine, clopidogrel, dipyridamole, warfarin, or heparins (history or current) to Allergy to aspirin, clopidogrel, dipyridamole, cilostazol, warfarin, direct thrombin inhibitor, factor Xa inhibitor or heparin (history or current); Risk for bleeding or discontinued due to bleeding to Risk for bleeding; Discontinued due to bleeding; Serious side effect to medication to Serious side effect to medication, specify

23. Prior and Concomitant Medications F1206
   a. CDEs Added
      i. C12207 Gastrointestinal therapy take nutrition supplement indicator
      ii. C12208 Gastrointestinal therapy nutrition supplement type
      iii. C18827 Gastrointestinal therapy nutrition supplement other text
      iv. C54985 Stimulant current former use type
      v. C54986 Stimulant current former use other text
      vi. C54987 Stimulant current former use duration
      vii. C54988 Stimulant current former use age start value
      viii. C54989 Stimulant former use age end value
      ix. C54990 Cocaine expose year prior unruptured intracranial aneurysm presentation indicator
      x. C54991 Cocaine use duration
      xi. C54992 Cocaine exposure age start value
      xii. C54993 Cocaine exposure age end value
      xiii. C54994 Potency enhancing drug current former use type
      xiv. C54995 Potency enhancing drug current former use duration
      xv. C54996 Potency enhancing drug current former use age start value
      xvi. C54997 Potency enhancing drug former use age end value
      xvii. C54998 Medication immunosuppressant current former type
      xviii. C54999 Medication immunosuppressant current former take other text
      xix. C58961 Medication antiplatelet current former take indicator
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xx. C58962 Medication antiplatelet past week type
xxi. C58963 Medication antiplatelet past week other text
xxii. C58964 Medication anticoagulant current former take indicator
xxiii. C58965 Medication anticoagulant past week type
xxiv. C58966 Medication anticoagulant past week other text
xxv. C58967 Medication cholesterol reduce control current former take indicator
xxvi. C58968 Medication cholesterol reduce control past week type
xxvii. C58969 Medication cholesterol reduce control past week other text
xxviii. C58970 PCSK9 inhibitor past three month indicator
xxix. C58971 Medication diabetic current former take indicator
xxx. C58972 Medication diabetic past week type
xxxi. C58973 Medication diabetic past week other text
xxxii. C58974 Medication antihypertensive current former take indicator
xxxiii. C58975 Medication antihypertensive past week type
xxxiv. C58976 Medication diuretic past week type
xxxv. C58977 Medication diuretic past week other text
xxxvi. C58978 Medication beta-blocker past week type
xxxvii. C58979 Medication beta-blocker past week other text
xxxviii. C58980 Medication angiotensin receptor blocker past week type
xxxix. C58981 Medication angiotensin receptor blocker past week other text
xl. C58982 Medication calcium-channel blocker past week type
xli. C58983 Medication calcium-channel blocker past week other text
xlii. C58984 Medication ACE inhibitor past week type
xliii. C58985 Medication ACE inhibitor past week other text
xliv. C58986 Medication other antihypertensive past week type
xlv. C58987 Medication other antihypertensive past week text
xlvi. C58988 Medication hormone replacement current former take indicator
xlvii. C58989 Medication hormone replacement past week type
xlviii. C58990 Medication hormone replacement past week other text
xlix. C58991 Medication hormone replacement therapy route type
  l. C58992 Medication hormone replacement therapy route other text
  li. C58993 Medication oral contraceptive current former take indicator
  lii. C58994 Medication implant estrogen contraceptive current former take indicator
  liii. C58995 Medication other current former take indicator
  liv. C58996 Medication other past week type
  lv. C58997 Medication other past week other text
  lvi. C58998 Medication ADHD ADD current former take indicator
  lvii. C58999 Medication cold preparation current former take indicator
  lviii. C59000 Medication L-asparaginase current former take indicator
b. CDEs Removed
  i. None
c. Classification Changes
  i. None
d. Permissible Value Modifications
  i. C02011 Medication prior or concomitant dose frequency
     1. Revised: AD to alt. d.

24. Thrombolytic/Reperfusion Therapies F1179
   a. CDEs Added
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i. C58852 IV tPA not started MRI selection treatment beyond 4.5 hour reason
   ii. C58857 Angiographic image last date and time

b. CDEs Removed
   i. None

c. Classification Changes
   i. None

d. Permissible Value Modifications
   i. C14396 IV tPA initiated status
      1. Added: Yes- beyond 4.5 hour using imaging selection
   ii. C14399 IV tPA not started reason
      1. Added: Stroke severity nondisabling; MRI not feasible; CTP not feasible
      2. Removed: Stroke severity too mild

25. Stroke Surgical and Procedural Interventions F1180

a. CDEs Added
   i. C58784 Stroke surgical therapeutic procedure type
   ii. C58785 Stroke neurosurgical procedure non vascular other text
   iii. C58786 Stroke surgical therapeutic procedure other text
   iv. C58787 Thrombectomy artery anatomic site
   v. C58788 Thrombectomy middle cerebral artery segment anatomic site
   vi. C58789 Intracranial revascularization procedure type
   vii. C58790 Intracranial revascularization procedure other text
   viii. C58791 Bypass revascularization surgery type
   ix. C58792 Carotid revascularization procedure type
   x. C58793 Carotid revascularization procedure other text
   xi. C58794 Vertebral artery revascularization procedure type
   xii. C58795 Vertebral artery revascularization procedure other text
   xiii. C58796 Ventricular drain place type
   xiv. C58797 Ventricular drain place other text
   xv. C58798 Increase intracranial pressure medical therapy type
   xvi. C58799 Osmotic therapy type
   xvii. C58800 Stroke surgical operative preventive treatment indicator
   xviii. C58801 Stroke surgical operative preventive treatment type
   xix. C58802 Stroke surgical operative preventive cardiac treatment text
   xx. C58803 Stroke surgical operative preventive neurosurgical treatment other text

b. CDEs Removed
   i. C05108 Surgical or therapeutic procedure type
   ii. C18765 Surgical or therapeutic procedure other text

c. Classification Changes
   i. None

d. Permissible Value Modifications
   i. C05104 Inpatient outpatient status
      1. Removed: Home health

26. Lifestyle Modification Therapies F1181

a. CDEs Added
   i. C58845 Discharge origin location type
   ii. C58846 Discharge origin location other text
   iii. C58847 Weight loss counsel indicator
   iv. C58848 Weight loss intervention type
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v. C58849 Physical activity increase recommendation indicator
vi. C58850 Physical activity increase intervention type
vii. C58851 Physical activity increase intervention other text
viii. C58853 Dietary intervention type
ix. C58854 High sodium intake avoid counsel indicator
x. C58855 High sodium intake avoid intervention type
xi. C58856 High alcohol consumption avoid counsel indicator
xii. C58858 High alcohol consumption avoid intervention type
xiii. C58859 Recreational prescription drug abuse discontinue counsel indicator
xiv. C58860 Recreational prescription drug abuse discontinue intervention type
xv. C58861 Recreational prescription drug abuse discontinue intervention other text
xvi. C58862 Contraceptive hormone replacement treatment counsel indicator
xvii. C58863 Contraceptive hormone replacement treatment intervention type
xviii. C58864 Mental resilience stress management tool adopt counsel indicator
xix. C58865 Mental resilience stress management tool adopt intervention type
xx. C58866 Mental resilience stress management tool adopt intervention other text

b. CDEs Removed
   i. C14276 Weight loss or activity recommendation indicator
   ii. C14278 Formal dietary counseling indicator
c. Classification Changes
   i. None
d. Permissible Value Modifications
   i. C14275 Smoking cessation treatment type
      1. Added: Education provided to patients and caregivers about second hand smoke exposure
      2. Revised: Direct discussion with patient or caregiver about stopping smoking (e.g., advised patient to stop smoking) to Direct discussion with the patient or caregiver about stopping smoking; Institution of a structured nicotine withdrawal protocol/program during acute hospitalization; Prescription of Wellbutrin/bupropion or alternative FDA-approved smoking cessation medication if prescribed as smoking cessation to Prescription of Wellbutrin (bupropion), Chantix (varenicline), or alternative FDA-approved smoking cessation medication if prescribed for smoking cessation

27. Palliative/Comfort Care and End of Life Issues F2834
   a. CDEs Added
      i. None
   b. CDEs Removed
      i. None
c. Classification Changes
   i. None
d. Permissible Value Modifications
   i. C14280 Comfort care earliest documentation timepoint type
      1. Removed: Timing unclear
   ii. C14283 Do not resuscitate or intubate (DNR or DNI) earliest documentation timepoint type
      1. Removed: Timing unclear

28. Rehabilitation Therapies F1182
   a. CDEs Added
Stroke CDE Revision History Document

i. C05134 Therapy rehabilitation start date time
ii. C22608 Total rehabilitation session count
iii. C58874 Location post-acute stroke discharge other text
iv. C58875 Therapy or rehabilitation received status other text
v. C58876 Therapy or rehabilitation session week frequency
vi. C58877 Inpatient therapy or rehabilitation location type
vii. C58878 Therapy or rehabilitation duration
viii. C58879 Assistive device use indicator
ix. C58880 Assistive device type
x. C58882 Assistive device other text
xi. C58883 Adjunctive treatment drool surgical procedure injection specify text
xii. C58884 Supportive medical equipment indicator
xiii. C58885 Supportive medical equipment type
xiv. C58886 Supportive medical equipment other text
xv. C58887 Follow-up care specialist type
xvi. C58888 Follow-up care specialist other text

b. CDEs Removed
i. C05132 Therapy or rehabilitation frequency
ii. C05133 Therapy or rehabilitation session duration
iii. C12679 Mobility device use indicator
iv. C12682 Orthosis use indicator
v. C12683 Mobility device type
vi. C12943 Orthosis type
vii. C14292 Durable medical equipment indicator
viii. C14293 Durable medical equipment type
ix. C14294 Follow-up care stroke specialist indicator
x. C14295 Follow-up care primary care provider indicator
xi. C14296 Follow-up care rehabilitation doctor indicator
xii. C18870 Mobility device other text
xiii. C18883 Orthosis other text
xiv. C18914 Durable medical equipment other text

c. Classification Changes
i. None

d. Permissible Value Modifications
i. C14290 Location post-acute stroke discharge type
   1. Added: Home with no in-home services; Home with home care services; Another family member’s/ friend’s home; Intensive Inpatient rehabilitation facility (IRF) including distinct rehabilitation units of a hospital: three hours or greater of therapy per day; Skilled nursing facility (SNF)/ subacute rehab: less than two hours a day of therapy; Medicare certified long-term care hospital (LTCH); Hospice- home or medical facility providing hospice level of care; Other not defined above.; Expired
   2. Removed Own home with self care; Another family member’s/ friend’s home; Short term/ general hospital for inpatient care; Skilled nursing facility (SNF) with Medicare certification in anticipation of skilled care; Designated Cancer Center or Children’s Hospital; Home under care of organized home health service organization; Expired; Court/ law enforcement facility; Federal health care facility; Hospice- home; Hospice-medical facility (certified) providing hospice level of care; Hospital-based Medicare approved swing bed; Inpatient rehabilitation facility (IRF) including rehabilitation
Stroke CDE Revision History Document

distinct part units of a hospital; Medicare certified long-term care hospital (LTCH); Nursing facility certified under Medicaid but not certified under Medicare; Psychiatric hospital or psychiatric distinct part unit of a hospital; Critical Access Hospital (CAH); Another type of health care institution not defined above

ii. C14286 Therapy or rehabilitation received status
   1. Removed: Transferred to rehabilitation facility; Referred to rehabilitation services following discharge; Ineligible to receive rehabilitation services because of insurance issues
   2. Revised: Received rehabilitation services during hospitalization to Received rehabilitation therapy during hospitalization; Ineligible to receive rehabilitation services because symptoms resolved to Did not receive rehabilitation therapy because symptoms resolved; Ineligible to receive rehabilitation services due to impairment to Ineligible to receive rehabilitation therapy due to impairment severity or medical issues

iii. C05130 Therapy or rehabilitation type
   1. Added: Speech/Language; Psychological/Cognitive
   2. Removed: Speech therapy; Psychological

iv. C05104 Inpatient or outpatient status
   1. Removed: Home health

v. C14289 Adjunctive treatment type
   1. Added Potential function enhancing drugs (SSRIs, stimulants, antidepressants)
   2. Revised: Surgical procedure for drooling, specify to Surgical procedure or injection for drooling, specify; Feeding tube placement to Feeding/gastrostomy tube placement

CRFs Removed (2)
1. Vessel Imaging Transcranial Color-Coded Real-time Sonography (TCCS)
2. Vessel Imaging Transcranial Doppler (TCD)
These CRFs were merged to form the Vessel Imaging Transcranial CRF.

New CRFs (11)

<table>
<thead>
<tr>
<th>CRF</th>
<th>V2.0 Classification</th>
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<tbody>
<tr>
<td>Aneurysm Location and Dimensions</td>
<td>Supplemental; Exploratory</td>
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<tr>
<td>Cardiac Magnetic Resonance Imaging (MRI)</td>
<td>Supplemental</td>
<td>Yes</td>
</tr>
<tr>
<td>Death</td>
<td>Core; Supplemental; Exploratory</td>
<td>Yes</td>
</tr>
<tr>
<td>Echocardiogram</td>
<td>Supplemental</td>
<td>Yes</td>
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<tr>
<td>Echocardiogram II</td>
<td>Supplemental</td>
<td>Yes</td>
</tr>
<tr>
<td>Home Time</td>
<td>Exploratory</td>
<td>Yes</td>
</tr>
<tr>
<td>Imaging Acquisition</td>
<td>Supplemental</td>
<td>No</td>
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<tr>
<td>Return to Work</td>
<td>Exploratory</td>
<td>Yes</td>
</tr>
<tr>
<td>SAH Surgical/Procedural Interventions</td>
<td>Supplemental – Highly Recommended; Supplemental; Exploratory</td>
<td>Yes</td>
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<tr>
<td>UIA Management</td>
<td>Supplemental; Exploratory</td>
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<td>Vessel Imaging Transcranial</td>
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*Classification may be different than for SAH.

The following instruments were reclassified, removed, or newly added. Information in the instrument summaries was also updated as necessary.

### Updated Instrument Classifications (11)

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<th>V1.0 Classification</th>
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<tr>
<td>Barthel Index</td>
<td>Core</td>
<td>Supplemental</td>
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<tr>
<td>Boston Naming Test (BNT) - 30-item version</td>
<td>Supplemental</td>
<td>Supplemental – Highly Recommended</td>
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<tr>
<td>Center for Epidemiologic Studies-Depression Scale (CES-D)</td>
<td>Supplemental – Highly Recommended</td>
<td>Supplemental</td>
</tr>
<tr>
<td>King's Outcome Scale for Childhood Head Injury (KOSCHI)</td>
<td>Supplemental</td>
<td>Exploratory</td>
</tr>
<tr>
<td>National Institutes of Health (NIH) Toolbox</td>
<td>Exploratory</td>
<td>Supplemental</td>
</tr>
<tr>
<td>Neuropsychiatric Inventory Questionnaire (NPI-Q)</td>
<td>Supplemental</td>
<td>Exploratory</td>
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<tr>
<td>NIH Stroke Scale (NIHSS)</td>
<td>Supplemental – Highly Recommended</td>
<td>Added as Core for Ischemic Stroke only; Supplemental – Highly Recommended</td>
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<tr>
<td>Patient-Reported Outcomes Measurement Information System (PROMIS)</td>
<td>Supplemental</td>
<td>Supplemental – Highly Recommended</td>
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<tr>
<td>Patient-Reported Outcomes Measurement Information System (PROMIS)-Physical Function Assessments</td>
<td>Exploratory</td>
<td>Supplemental</td>
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<tr>
<td>Quality of Life in Neurological Disorders (Neuro-QOL)</td>
<td>Exploratory</td>
<td>Supplemental – Highly Recommended</td>
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<tr>
<td>Questionnaire for Verifying Stroke-Free Status (QVSFS)</td>
<td>Supplemental</td>
<td>Supplemental – Highly Recommended</td>
</tr>
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### Instruments Removed (2)
1. Atherosclerosis Risk in Communities Study (ARIC) TIA/Stroke Form
2. Post Acute Care Admission Continuity Assessment Record and Evaluation (PAC Admission CARE) Tool - Section VI: Functional Status

### New Instrument Recommendations (31)
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<th>Instrument</th>
<th>Subdomain</th>
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<td>6-Minute Walk Test</td>
<td>Performance Measures</td>
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<tr>
<td>Action Research Arm Test</td>
<td>Performance Measures</td>
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<tr>
<td>Animal Naming</td>
<td>Performance Measures</td>
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<tr>
<td>Assessment of Motor and Process Skills (AMPS)</td>
<td>Activities of Daily Living/Performance</td>
<td>Supplemental</td>
<td>No</td>
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<tr>
<td>Beck Anxiety Inventory (BAI)</td>
<td>Emotional Status</td>
<td>Supplemental</td>
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<tr>
<td>Beck Depression Inventory II (BDI-II)</td>
<td>Emotional Status</td>
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<tr>
<td>Berg Balance Scale (BBS)</td>
<td>Performance Measures</td>
<td>Supplemental</td>
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<tr>
<td>Brief Visuospatial Motor Test - Revised (BVMT-R)</td>
<td>Performance Measures</td>
<td>Supplemental</td>
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<tr>
<td>Color-Word Interference Test Delis-Kaplan Executive Function System (D-KEFS)</td>
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<tr>
<td>Controlled Oral Word Association Test (COWAT)</td>
<td>Performance Measures</td>
<td>Supplemental</td>
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<td>Fugl-Meyer Assessment</td>
<td>Performance Measures</td>
<td>Supplemental – Highly Recommended</td>
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<tr>
<td>Generalized Anxiety Disorder (GAD-7)</td>
<td>Emotional Status</td>
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<td>Grooved Pegboard Test</td>
<td>Performance Measures</td>
<td>Supplemental</td>
<td>Yes</td>
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<tr>
<td>Motor Evaluation Scale for Upper Extremity in Stroke Patients (MESUPES)</td>
<td>Performance Measures</td>
<td>Supplemental</td>
<td>No</td>
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<tr>
<td>Neurobehavioral Symptom Inventory</td>
<td>Physical/Neurological Examination</td>
<td>Supplemental</td>
<td>Yes</td>
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<tr>
<td>Patient Health Questionnaire - 9 (PHQ-9) Depression Scale</td>
<td>Emotional Status</td>
<td>Supplemental – Highly Recommended</td>
<td>Yes</td>
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<tr>
<td>Pediatric Modified Rankin Scale (mRS)</td>
<td>Pediatric</td>
<td>Exploratory</td>
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<tr>
<td>Pediatric Quality of Life Inventory (PedsQL 4.0)</td>
<td>Pediatric</td>
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<td>Pediatric Stroke Recurrence and Recovery Questionnaire (RRQ)</td>
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<td>Supplemental</td>
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<td>PROMIS-10/PROMIS v1.2 – Global Health</td>
<td>Quality of Life/Patient Reported Outcomes</td>
<td>Supplemental – Highly Recommended</td>
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<td>PROMIS-29</td>
<td>Quality of Life/Patient Reported Outcomes</td>
<td>Supplemental – Highly Recommended</td>
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<tr>
<td>PTSD Checklist - Civilian (PCL-C)</td>
<td>Emotional Status</td>
<td>Exploratory</td>
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<tr>
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<th>Subdomain</th>
<th>V2.0 Classification</th>
<th>Added from SAH?</th>
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<tbody>
<tr>
<td>Repeatable Battery for the Assessment of Neuropsychological Status (RBANS)</td>
<td>Cognitive Status</td>
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<tr>
<td>Rey Auditory Verbal Learning Test [RAVLT]</td>
<td>Cognitive Status</td>
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<td>Yes</td>
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<td>Similarities Subtest of the Wechsler Adult Intelligence Scale-Fourth Edition (WAIS-IV)</td>
<td>Cognitive Status</td>
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<td>Six-Item Screener (SIS)</td>
<td>Cognitive Status</td>
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<td>No</td>
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<tr>
<td>Stroke and Aphasia Quality of Life-39 (SAQOL-39)</td>
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<td>Token Test</td>
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<tr>
<td>Trail Making Test (TMT), Delis-Kaplan Executive Function System (D-KEFS)</td>
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<td>Utrecht Scale for Evaluation of Rehabilitation-Participation (USER-P)</td>
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<tr>
<td>Western Aphasia Battery-Revised (WAB-R)</td>
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</tr>
</tbody>
</table>

### January 2020 Revisions
- General Core CRF updated to replace ‘Gender’ question with ‘Sex assigned at birth’ and ‘Gender identity’.
- Two new CDEs added to CRF: C58676 (Birth sex assigned type) and C58677 (Gender identity type). C00035 has been removed
- Start-Up document updated to reflect these changes.

### December 2018 Revisions
- F1161 Glasgow Coma Scale:
  - Scoring information section text was corrected to state that lower, not higher, scores indicate patients in coma.

### August 2018 Revisions
- F1151 Social Status:
  - Classification revised to Supplemental – Highly Recommended for:
    - C00015 Education year count
Stroke CDE Revision History Document

- CRF revised
- F1171 Perfusion and Penumbral Imaging:
  - Classification revised to Supplemental – Highly Recommended for:
    - C13750 Imaging study ID number
    - C02494 Imaging study date and time
  - C13245 National Institutes of Health Stroke Scale (NIHSS) - Severity total score added to form
- F1176 Vessel Imaging Transcranial Doppler (TCD):
  - Classification revised to Supplemental- Highly Recommended for:
    - C13750 Imaging study ID number
    - C02494 Imaging study date and time
    - C13942 Imaging vessel category
    - C02411 Laterality type
    - C14056 Imaging depth measurement
    - C13947 Imaging peak velocity measurement
    - C13948 Imaging mean blood velocity measurement
    - C14007 Imaging Transcranial Doppler (TCD) findings result type
    - C13949 Imaging flow/probe direction type
  - CRF revised

July 2018 Revisions
- F1154 Behavioral History CRF was revised. Question 7 text was corrected to query six or more drinks instead of five or more drinks.

April 2017 Revisions
- The Unruptured Cerebral Aneurysms and Subarachnoid Hemorrhage (SAH) CDEs were posted to the NINDS website under their own landing page: https://www.commondataelements.ninds.nih.gov/SAH.aspx#tab=Data_Standards.

October 2016 Revisions
- CRFs updated:
  - Pregnancy and Perinatal History: formatting updates
  - Hospital Discharge: formatting; ICD-9 codes updated to ICD-10
  - Surgical and Procedural Interventions: formatting; ICD-9 codes updated to ICD-10; ISO 8601 link added

February 2016 Revisions
- Revised Start-Up Resources to reflect C00015 Education year count CDE is now Supplemental – Highly Recommended
May 2015 Revisions
- Revised Start-Up Resources based on revised Core classification.

April 2015 Revisions
No changes.

March 2015 Revisions
No changes.

February 2015 Revisions
No changes.

January 2015 Revisions
- Posting of revised 508 compliant Start-Up and Highlight Summaries.
- The CDEs in use page was updated with new studies in Stroke.

November 2014 Revisions
No changes.

September 2014 Revisions
No changes.

August 2014 Revisions
No changes.

July 2014 Revisions
- Upload of various CRFs and NOCs Stroke with editorial corrections.

June 2014 Revisions
No changes.

May 2014 Revisions
No changes.

April 2014 Revisions
No changes.

March 2014 Revisions
No changes.
February 2014 Revisions
No changes.

January 2014 Revisions
No changes.

December 2013 Revisions
- Updated highlight summaries and start-up resource documents for Stroke

November 2013 Revisions
No changes.

August 2013 Revisions

Overview
There have been Minor changes to the content and structure of the Stroke CDE materials in Version 2.0 compared to Version 1.3, including the following:

Form Status Changes

New Forms:
- None

Updated Forms:
- Summary of NINDS Recommended Measures for Neurological Impairment
- Summary of NINDS Recommended Measures for Activities of Daily Living
- Summary of NINDS Recommended Measures for Emotional and Cognitive Status
- Summary of NINDS Recommended Measures for Participation/Quality of Life
- Summary of NINDS Recommended Measures for Performance
- Summary of NINDS Recommended Measures for Pediatrics
- Summary of NINDS Recommended Measures for Clinical Event End Points

Removed Forms:
- None

Detailed Form Revisions:
Additional specific changes to the CRF modules are detailed in the table included on the subsequent page.
<table>
<thead>
<tr>
<th>CRF Module/ Guideline</th>
<th>Current Version</th>
<th>Previous Version</th>
<th>Change Classification</th>
<th>Change Type</th>
<th>Description of Change</th>
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</thead>
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</table>

May 2013 Revisions

Overview

There have been Major changes to the content and structure of the Stroke CDE materials in Version 1.2 compared to Version 1.1, including the following:

Form Status Changes

New Forms:

- Barthel Index
- The National Institute of Health Toolbox (NIH Toolbox)
- Patient-Reported Outcomes Measurement Information System (PROMIS)
- Post-Acute Continuity Assessment Record and Evaluation (PAC Admission CARE)
Stroke CDE Revision History Document

- Quality of Life in Neurological Disorders (Neuro-Qol)
- Boston Naming Test (BNT)
- Delis Kaplan Executive Functioning System- Trail Making Test Parts A&B subtest (DKEFS)
- Hopkins Verbal Learning Test Revised (HVLT-R)
- Montreal Cognitive Assessment (MOCA)
- Neuropsychiatric Inventory Questionnaire (NPI)
- Rey Osterrieth Complex Figure and Delay
- Stroop Test
- Telephone Interview for Cognitive Status (TICS)
- Wechsler Adult Intelligence Scale III-Digit Symbol and Symbol Search Subtests
- Woodcock-Johnson III Test of Cognitive Abilities
- Canadian Occupation Performance Measure (COPM)
- EuroQol 5-Dimension Questionnaire (EQ-5D)
- Stroke Impact Scale (SIS)
- Bayley Scales of Infant Development (Bayley III, BSID)
- Perceived Efficacy and Goal Setting System (PEGS)

Updated Forms:

Notice of Copyright Created (NOC) (Will replace previously existing forms)

- The National Institute of Health Stroke Scale (NIHSS)
- Glasgow Outcome Scale (GOS) and Glasgow Outcome Scale-Extended (GOSE)
- Modified Rankin Scale (mRs)
- Center for Epidemiologic Studies Depression Scale (CES-D)
- Informant Questionnaire on Cognitive Decline in the Elderly (IQCODE)
- 36-Item Short Form Survey (SF-36)
- Stroke Specific Quality of Life (SS-QOL)
- Walking Speed (Subtest of NIH Toolbox)
- Kings Outcome Scale for Childhood Head Injury (KOSCHI)
**Stroke CDE Revision History Document**

- Pediatric Stroke Outcome Measure Short Neuro Exam (PSOM-SNE) Child Version
- Pediatric Stroke Outcome Measure Short Neuro Exam (PSOM-SNE) Infant Version
- Atherosclerosis Risk in Communities Study (ARIC) TIA/Stroke Form
- Questionnaire for Verifying Stroke-Free Status (QVSFS)
- Stroke Adjudication Worksheet

**Removed Forms:**

- None

**Detailed Form Revisions:**

Additional specific changes to the CRF modules are detailed in the table included on the subsequent page.

**2 Stroke Revision History Document Table**

<table>
<thead>
<tr>
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<td>Rey Osterrieth Complex Figure and Delay</td>
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## Stroke CDE Revision History Document

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<td>1.1</td>
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<td>A Notice of Copyright was created for this form and will replace the existing form</td>
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October 2012 Revisions

Overview

There have been changes to the content and structure of the Stroke CDE materials in Version 1.1 compared to Version 1.0, including the following:

- Every attempt was made to remove duplication and redundancy in the Stroke CDEs;
- The Stroke CDEs were harmonized with other large national and international standardization initiatives and efforts [e.g., International Conference on Harmonization (ICH), Logical Observation Identifiers Names and Codes (LOINC), International Classification of Diseases (ICD), Unified Code for Units of Measure (UCUM)]
- The majority of element names and definitions were improved.
- The permissible values and references of some elements were revised; and
- The version numbers of all forms (excluding standardized scales/instruments) were updated.
- Several guideline documents were reorganized and consolidated to make it easier to understand which standardized instruments/scales are recommended, though the recommendations themselves remained unchanged.
- Some of the forms and guideline documents were re-categorized under a different domain or subdomain to be consistent with other NINDS CDEs.
- The corresponding data dictionaries (i.e., CDE Detailed Report) have been modified in accordance with the form changes.

Form Status Changes

New Forms:

History Data Source and Reliability (items/questions originally on the Medical History form)

Updated Forms:

- Antithrombotics and Risk Factor Controlling Medications
Stroke CDE Revision History Document

- Behavioral History
- Biospecimen Collection and Processing
- Demographics
- Electrocardiogram
- Family History
- Hospital Arrival/Admission
- Hospital Discharge
- Lifestyle Modification Therapies
- Medical History
- Palliative, Comfort Care, and End of Life Issues
- Physical/Neurological Examination
- Pregnancy and Perinatal History
- Pre-Hospital/Emergency Medical Services (EMS) Course
- Prior and Concomitant Medications
- Prior Functional Status
- Rehabilitation Therapies
- Social Status
- Stroke Symptoms, Comorbid Events
- Surgical and Procedural Interventions
- Thrombolytic/Reperfusion Therapies
- Vital Signs

Removed Forms:

- None

Detailed Form Revisions:

Additional specific changes to the CRF modules are detailed in the table included on the subsequent page.
## Stroke CDE Revision History Document

### 3 Stroke Revision History Document Table

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<td>All</td>
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<td>Modified CDEs</td>
<td>Nearly all CDE names and definitions were updated to achieve greater consistency across all NINDS CDEs and for clarity</td>
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<td>Various</td>
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<td>1.0</td>
<td>Minor</td>
<td>Deleted CDEs</td>
<td>The following types of CDEs were deleted: CDEs redundant with other CDEs; CDEs specifying unit; and CDEs specifying an &quot;other, specify&quot; response</td>
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<td>1.0</td>
<td>Minor</td>
<td>Modified CDEs</td>
<td>For a number of CDEs, &quot;Unknown&quot; was added to the permissible value set and in some cases &quot;Unknown&quot; replaced &quot;Unknown/Don't Know&quot;</td>
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<tr>
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<td>1.0</td>
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<td>1.0</td>
<td>Minor</td>
<td>Modified Forms</td>
<td>Reworded footnote identifying certain CDEs as Core.</td>
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<td>1.0</td>
<td>Minor</td>
<td>Modified Forms</td>
<td>Added note referring to General Prior and Concomitant Medications form.</td>
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<td>1.0</td>
<td>Minor</td>
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<td>Added Tobacco product used type and Tobacco cigarettes smoked daily average number</td>
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<td>Deleted CDEs</td>
<td>Deleted CDEs for Current Average Packs Smoked per day and Use of Cigars, Pipe, or Chewing Tobacco</td>
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<td>Minor</td>
<td>Modified CDEs</td>
<td>Modified Drug or substance illicitly used category permissible values</td>
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<td>Minor</td>
<td>Modified Forms</td>
<td>Reworded several questions to be consistent with other disease areas and modified skip logic.</td>
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<td>CRF Module/ Guideline</td>
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<td>1.0</td>
<td>Minor</td>
<td>Modified Forms</td>
<td>Removed footnote identifying certain CDEs as Core.</td>
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<td>Minor</td>
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<td>Modified location of Lab specimen collection date and time on form.</td>
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<td>Minor</td>
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<td>1.0</td>
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<td>Relabeled Sex to Gender on form and reworded footnote.</td>
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<td>Minor</td>
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<td>Added ECG heart rate and ECG global result</td>
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<td>Modified ECG heart rhythm result permissible values</td>
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<td>Minor</td>
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<td>Modified CDEs</td>
<td>Modified Family history medical condition type permissible values</td>
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<td>New form</td>
<td>New form created using CDEs previously on Medical History form.</td>
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<td>Modified CDEs</td>
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<td>Minor</td>
<td>Modified CDEs</td>
<td>Revised Diagnosis new indicator and Stroke initial residence or discharge destination type permissible values</td>
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<td>Minor</td>
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<td>Moved Data Source and Reliability CDEs to separate form.</td>
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<td>1.0</td>
<td>Minor</td>
<td>Modified CDEs</td>
<td>Modified Comfort care indicator permissible values</td>
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<td>1.0</td>
<td>Minor</td>
<td>Added CDEs</td>
<td>Added Hand Preference Type (item originally on Demographics form)</td>
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<td>Physical/Neurological Examination</td>
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<td>Modified Forms</td>
<td>Removed NIH Stroke Scale, Heart Rate Abnormality Indicator, and Heart Rate Abnormality Type from form.</td>
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<td>Minor</td>
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<td>Modified Prior and Concomitant Medications form to be consistent with General CDEs.</td>
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<td>Minor</td>
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<td>Prior Functional Status</td>
<td>1.1</td>
<td>1.0</td>
<td>Minor</td>
<td>Modified Forms</td>
<td>Reworded School placement type</td>
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</table>
## Stroke CDE Revision History Document

<table>
<thead>
<tr>
<th>CRF Module/ Guideline</th>
<th>Current Version</th>
<th>Previous Version</th>
<th>Change Classification</th>
<th>Change Type</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior Functional Status</td>
<td>1.1</td>
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<td>Minor</td>
<td>Modified Forms</td>
<td>Removed Grade level CDE from form as redundant with data captured on the Social Status form.</td>
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<tr>
<td>Rehabilitation Therapies</td>
<td>1.1</td>
<td>1.0</td>
<td>Minor</td>
<td>Modified CDEs</td>
<td>Revised Therapy or rehabilitation assessment made indicator, Mobility device use indicator, Mobility device type, Adjunctive treatment indicator, Orthoses or positioning devices indicator, Durable medical equipment indicator, Follow up care from stroke specialist indicator, Follow up care from PCP indicator, and Follow up care from rehab doctor indicator permissible values</td>
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<tr>
<td>Social Status</td>
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<td>Minor</td>
<td>Modified CDEs</td>
<td>Modified Living with persons relationship type and Family income range permissible values</td>
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<tr>
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<td>1.0</td>
<td>Minor</td>
<td>Modified Forms</td>
<td>Removed footnote identifying certain CDEs as Core.</td>
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<tr>
<td>Social Status</td>
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<td>Minor</td>
<td>New CDEs</td>
<td>Added Education years number</td>
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<tr>
<td>Stroke Symptoms, Comorbid Events</td>
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<td>Modified CDEs</td>
<td>Edited Stroke symptom/comorbid event seizure type permissible values</td>
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<tr>
<td>Surgical and Procedural Interventions</td>
<td>1.1</td>
<td>1.0</td>
<td>Minor</td>
<td>Added CDEs</td>
<td>Added Surgical or Therapeutic Procedure CDEs to be consistent with General CDEs.</td>
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<tr>
<td>Surgical and Procedural Interventions</td>
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<td>1.0</td>
<td>Minor</td>
<td>Modified Forms</td>
<td>Removed footnote identifying certain CDEs as Core; added note that detailed questions can be used as interview questions rather than CDEs; and edited wording of questions on form</td>
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<td>1.0</td>
<td>Minor</td>
<td>Added CDEs</td>
<td>Added Blood pressure measurement position type, Waist-hip ratio value, and Body mass index value</td>
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<td>Vital Signs</td>
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<td>Minor</td>
<td>Modified CDEs</td>
<td>Modified Temperature measurement anatomic site permissible values</td>
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<td>Minor</td>
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<td>Reworded a number of CDEs on form.</td>
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