

| Modified question | Deleted question | New required question | New optional question |  | Item  | Variable name  |
|-------------------|------------------|-----------------------|-----------------------|--|---|----------------|
|                   |                  | 1                     |                       |  | Pre-Hospital/<br>Emergency Medical<br>System (EMS) Data | InhospStk      |
| 1                 |                  |                       |                       |  | Reasons not admitted                                    | WhyNoAdm       |
| 1                 |                  |                       |                       |  | Hospital admission<br>data                              | AmbStatA       |
|                   |                  |                       | 1                     |  |   |                |
| 1                 |                  |                       |                       |  | Initial glucose   | AdmGlucose     |
| 1                 |                  |                       |                       |  | Medications currently<br>taking prior to<br>admission   | APltAdmYN      |
| 1                 |                  |                       |                       |  | Medications currently<br>taking prior to<br>admission   | ACoagAdmY<br>N |



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|   |  | 1 |   |                        |          |
| 1 |  |   |   | Imaging                | ImageD   |
|   |  | 1 |   |                        |          |
| 1 |  |   |   | Imaging                | ImageT   |
|   |  | 1 |   |                        |          |
| 1 |  |   |   | Imaging                | ImageRes |
|   |  | 1 |   |                        |          |
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|   |  | 1 |   |                        |          |
| 1 |  |   |   | Thrombolytic Treatment | TrmIAM   |

|   |  |   |  |                                       |           |
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| 1 |  |   |  | Thrombolytic Treatment                | TrmlAMD   |
|   |  | 1 |  |                                       |           |
| 1 |  |   |  | Thrombolytic Treatment                | TrmlAMT   |
|   |  | 1 |  |                                       |           |
| 1 |  |   |  | Complications of thrombolytic therapy | ThrmCmpTX |
| 1 |  |   |  | Reasons for no tPA - 0-3 hour window. | NonTrtC   |
| 1 |  |   |  | Reasons for no tPA - 0-3 hour window. | NonTrtCT  |

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| 1 |  |  |   |  | Reasons for no tPA -<br>0-3 hour window.  | NonTrtWN |
|   |  |  | 1 |  |   |          |
|   |  |  | 1 |  |   |          |
| 1 |  |  |   |  | Reasons for no tPA -<br>3-4.5 hour window | NonTrtC4 |

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| 1 |  |  |   | Reasons for no tPA -<br>3-4.5 hour window | NonTrtCT4 |
|   |  |  |   |   |           |
| 1 |  |  |   | Reasons for no tPA -<br>3-4.5 hour window | NonTrtWN4 |
|   |  |  |   |   |           |
| 1 |  |  |   | Reasons for no tPA -<br>3-4.5 hour window | NonTrtNC4 |
|   |  |  |   |   |           |
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| 1 |  |  |   | Reasons for no tPA -<br>3-4.5 hour window | NonTrtIL4 |
|   |  |  |   |   |           |
| 1 |  |  |   | Reasons for no tPA -<br>3-4.5 hour window | NonTrtFR4 |
|   |  |  |   |   |           |
| 1 |  |  |   | Reasons for no tPA -<br>3-4.5 hour window | NonTrtRI4 |

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| 1 |  |  |   | Reasons for no tPA - 3-4.5 hour window  | NonTrtSM4 |
| 1 |  |  |   | If no documented contraindications or warnings, do these factors apply in the 3-4.5 hour time window? | NonTrtTD4 |
| 1 |  |  |   | If no documented contraindications or warnings, do these factors apply in the 3-4.5 hour time window? | NonTrtDX4 |
| 1 |  |  |   | If no documented contraindications or warnings, do these factors apply in the 3-4.5 hour time window? | NonTrtIV4 |
| 1 |  |  |   | If no documented contraindications or warnings, do these factors apply in the 3-4.5 hour time window? | NonTrtOC4 |
| 1 |  |  |   | Other warnings for patients treated in the 3-4.5 hour window?   | NonTrMCA  |
|   |  |  | 1 |   |           |
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| 1 |  |   |   | Documented past medical history | MedhisDrug    |
| 1 |  |   |   | Documented past medical history | MedhisFHStk   |
| 1 |  |   |   | Documented past medical history | MedHisHRT     |
| 1 |  |   |   | Documented past medical history | MedHisObese   |
| 1 |  |   |   | Documented past medical history | MedHisMig     |
| 1 |  |   |   | Documented past medical history | MedHisRenal   |
|   |  | 1 |   |                                 |               |
| 1 |  |   |   | VTE Prophylaxis                 | OFXaVTEReason |
| 1 |  |   |   | Dysphagia Screening             | DysphaPF      |

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| 1  |   |    |    |  | Antithrombotics at discharge | AthDCPlts |
| 1  |   |    |    |  | Antithrombotics at discharge | AthDCCoag |
| 38 | 1 | 20 | 74 |  |                              |           |

\*Variables in the table with the green background are required data elements. Vari

| Text prompt   | Legal values  | Item  | Variable name |
|---|---|---|---------------|
| Did this stroke occur as in-patient?                                      | 1 -Yes; 0 - No  |   |               |
| Reasons that the patient was not admitted                                 | 1 - discharged directly from ED to home or other location that is not an acute care hospital; 4 - Transferred from your ED to another acute care hospital; 6 - died in ED; 7 - Left ED AMA; 8 - discharged from observation status without an inpatient admission; 0 - Other; | Reasons not admitted                            | WhyNoAdm      |
| Was patient ambulatory prior to stroke/TIA?                               | 1 – Able to ambulate independently w/or w/o device; 2 - Yes but with assistance from another person; 3 - Unable to ambulate; 0 - ND   | Hospital admission data                         | AmbStatA      |
|   |   | Functional status prior to stroke               | mRS_pre       |
| If patient received IV tPA (alteplase), what was the first blood glucose? | Numeric # = 3 digit   | Initial glucose                                 | AdmGluc       |
| Antiplatelet medication   | 1 - Yes; 0 - No/ND  | Medications currently taking prior to admission | APIAdm        |
| Anticoagulant   | 1 - Yes; 0 - No/ND  | Medications currently taking prior to admission | ACoagAdm      |



|  |  |                         |          |
|--|--|-------------------------|----------|
|  |  | Telestroke              | TeleYN   |
|  |  | Telestroke              | TeleVid  |
|  |  | Telestroke              | TeleRad  |
|  |  | Telestroke              | TelePho  |
|  |  | Imaging: prior hospital | ImagTYN  |
|  |  | Imaging: prior hospital | ImagTCT  |
|  |  | Imaging: prior hospital | ImagTCTA |
|  |  | Imaging: prior hospital | ImagTCTP |
|  |  | Imaging: prior hospital | ImagTMRI |
|  |  | Imaging: prior hospital | ImagTMRA |
|  |  | Imaging: prior hospital | ImagTMRP |

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|   |   | Imaging: prior hospital      | ImagTDSA |
|   |   | Imaging: prior hospital      | ImagTND  |
|   |   | Imaging: prior hospital      | ImagTD   |
|   |   | Imaging: prior hospital      | ImagTDND |
|   |   | Imaging: prior hospital      | ImagTT   |
|   |   | Imaging: prior hospital      | ImagTTND |
|   |   | Imaging                      | ImageYCT |
|   |   | Imaging                      | ImageYMR |
| Date of brain imaging                           | MMDDYYYY  | Imaging                      | ImageD   |
|   |   | Imaging                      | ImageDND |
| Time of brain imaging                           | Time HHMM   | Imaging                      | ImageT   |
|   |   | Imaging                      | ImageTND |
| Initial brain imaging findings?                 | 1- Hemorrhage; 0 - No hemorrhage; 9 - ND or not available | Imaging                      | ImageRes |
|   |   | Last known well              | LKWDNK   |
|   |   | Last known well              | LKWTNK   |
|   |   | Discovery of stroke symptoms | DiscDNK  |
|   |   | Discovery of stroke symptoms | DiscTNK  |
|   |   | Thrombolytic Treatment       | TrmIVMDN |
|   |   | Thrombolytic Treatment       | TrmIVMTN |
| IA catheter-based reperfusion at this hospital? | 1 - Yes; 0 - No   | Thrombolytic Treatment       | CathTx   |

|   |  |                                       |          |
|---|--|---------------------------------------|----------|
| Date of IA catheter-based reperfusion at this hospital  | MMDDYYYY   | Thrombolytic Treatment                | CathTxD  |
|   |  | Thrombolytic Treatment                | CathTDND |
| Time of IA catheter-based reperfusion at this hospital  | Time HHMM  | Thrombolytic Treatment                | CathTxT  |
|   |  | Thrombolytic Treatment                | CathTTND |
| Were there bleeding complications in a patient transferred after IV tPA (alteplase)   | 1 - yes & detected prior to transfer; 2 - yes but detected after transfer; 3 - UTD; 9 - Not applicable | Complications of thrombolytic therapy | ThrmCmpt |
| Contraindications, which include any of the following: SBP > 185 or DBP > 110 mmHg Seizure at onset; Recent surgery/trauma (<15 days) Recent intracranial or spinal surgery, head trauma, or stroke (<3 mo.) History of intracranial hemorrhage or brain aneurysm or vascular malformation or brain tumor; Active internal bleeding (<22 days) Platelets <100,000, PTT> 40 sec after heparin use, or PT > 15 or INR > 1.7, or known bleeding diathesis; | 1 Yes; 0 No  | Reasons for no tPA - 0-3 hour window. | NonTrtC  |
| Suspicion of subarachnoid hemorrhage (CT findings of ICH, SAH, or major infarct signs);   | 1 Yes; 0 No  | Reasons for no tPA - 0-3 hour window. | NonTrtCT |

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| <p><b>Warnings:</b> conditions that might lead to unfavorable outcomes:<br/> Stroke severity – too severe<br/> Glucose &lt; 50 or &gt; 400 mg/dl; left heart thrombus; increased risk of bleeding due to: acute (or recent) pericarditis, subacute bacterial endocarditis (SBE), hemostatic defects including those secondary to severe hepatic or renal disease, pregnancy, diabetic hemorrhagic retinopathy, or other hemorrhagic ophthalmic conditions, septic thrombophlebitis or occluded AV cannula at seriously infected site; patients currently receiving oral anticoagulants, e.g., Warfarin sodium;</p> | <p>1 Yes; 0 No</p> | <p>Reasons for no tPA - 0-3 hour window.</p>   | <p>NonTrtWN</p> |
|  |                    | <p>If no documented contraindications or warnings, do these factors apply in the 0-3 hour time window?</p> | <p>NonTrtS</p>  |
|  |                    | <p>If no documented contraindications or warnings, do these factors apply in the 0-3 hour time window?</p> | <p>NonTrtOT</p> |
| <p>Contraindications, which include any of the following: SBP &gt; 185 or DBP &gt; 110 mmHg Seizure at onset; Recent surgery/trauma (&lt;15 days) Recent intracranial or spinal surgery, head trauma, or stroke (&lt;3 mo.) History of intracranial hemorrhage or brain aneurysm or vascular malformation or brain tumor; Active internal bleeding (&lt;22 days) Platelets &lt;100,000, PTT &gt; 40 sec after heparin use, or PT &gt; 15 or INR &gt; 1.7, or known bleeding diathesis;</p>   | <p>1 Yes; 0 No</p> | <p>Reasons for no tPA - 3-4.5 hour window</p>  | <p>NonTrtC4</p> |

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| Suspicion of subarachnoid hemorrhage (CT findings of ICH, SAH, or major infarct signs);   | 1 Yes; 0 No | Reasons for no tPA - 3-4.5 hour window | NoT4_CT  |
| Warnings: conditions that might lead to unfavorable outcomes: Stroke severity – too severe Glucose < 50 or > 400 mg/dl; left heart thrombus; increased risk of bleeding due to: acute (or recent) pericarditis, subacute bacterial endocarditis (SBE), hemostatic defects including those secondary to severe hepatic or renal disease, pregnancy, diabetic hemorrhagic retinopathy, or other hemorrhagic ophthalmic conditions , septic thrombophlebitis or occluded AV cannula at seriously infected site; patients currently receiving oral anticoagulants, e.g., Warfarin sodium; | 1 Yes; 0 No | Reasons for no tPA - 3-4.5 hour window | NoT4_WN  |
| Care team unable to determine eligibility   | 1 Yes; 0 No | Reasons for no tPA - 3-4.5 hour window | NoT4_NC  |
|   |             | Reasons for no tPA - 3-4.5 hour window | NoT4_OH  |
| Life expectancy <1 year or severe comorbid illness or CMO on admission  | 1 Yes; 0 No | Reasons for no tPA - 3-4.5 hour window | NoT4_ILL |
| Family refusal  | 1 Yes; 0 No | Reasons for no tPA - 3-4.5 hour window | NoT4_FR  |
| Rapid improvement   | 1 Yes; 0 No | Reasons for no tPA - 3-4.5 hour window | NoT4_RI  |

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| Stroke severity too mild   | 1 Yes; 0 No | Reasons for no tPA - 3-4.5 hour window  | NoT4_SM   |
| Inhospital time delay  | 1 Yes; 0 No | If no documented contraindications or warnings, do these factors apply in the 3-4.5 hour time window? | NoT4_ED   |
| Unable to diagnose or did not diagnose in 3 hour time frame  | 1 Yes; 0 No | If no documented contraindications or warnings, do these factors apply in the 3-4.5 hour time window? | NoT4_DX   |
| No IV access   | 1 Yes; 0 No | If no documented contraindications or warnings, do these factors apply in the 3-4.5 hour time window? | NoT4_PT   |
| Other:   | 1 Yes; 0 No | If no documented contraindications or warnings, do these factors apply in the 3-4.5 hour time window? | NoT4_O    |
| Were there other documented warning conditions for patients treated in the 3-4.5 hour time window? | 1 Yes; 0 No | Other warnings for patients treated in the 3-4.5 hour time window?                                    | NonTrMCA  |
|  |             | IV tPA delay  | tPA Del45 |
|  |             | Brain imaging   | ImageVas  |
|  |             | Brain imaging   | ImageCTA  |

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|--|--|---------------|----------|
|  |  | Brain imaging | ImageCTP |
|  |  | Brain imaging | ImageMRA |
|  |  | Brain imaging | ImageMRP |
|  |  | Brain imaging | ImageDSA |
|  |  | Brain imaging | ImageND  |
|  |  | Brain imaging | ImagVD   |
|  |  | Brain imaging | ImagVDND |
|  |  | Brain imaging | ImagT    |
|  |  | Brain imaging | ImagTND  |
|  |  | Brain imaging | LVO      |

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|--|--|---------------|----------|
|  |  | Brain imaging | LVOICA   |
|  |  | Brain imaging | LVOIICA  |
|  |  | Brain imaging | LVOICICA |
|  |  | Brain imaging | LVOIot   |
|  |  | Brain imaging | LVOMCA   |
|  |  | Brain imaging | LVOMCAM1 |
|  |  | Brain imaging | LVOMCAM2 |
|  |  | Brain imaging | LVOMCAot |
|  |  | Brain imaging | LVOBasAr |
|  |  | Brain imaging | LVOoth   |



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|  |  | Brain imaging                                | LVOVerAr |
|  |  | Catheter-based endovascular stroke treatment | ArtPuncD |
|  |  | Catheter-based endovascular stroke treatment | ArtPuncT |
|  |  | Catheter-based endovascular stroke treatment | MERPROC  |
|  |  | Catheter-based endovascular stroke treatment | NoMERDoc |
|  |  | Catheter-based endovascular stroke treatment | NoMEREx1 |
|  |  | Catheter-based endovascular stroke treatment | NoMEREx2 |
|  |  | Catheter-based endovascular stroke treatment | NoMEREx3 |

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|  |  | Catheter-based endovascular stroke treatment | NoMEREx4 |
|  |  | Catheter-based endovascular stroke treatment | NoMEREx5 |
|  |  | Catheter-based endovascular stroke treatment | NoMEREx6 |
|  |  | Catheter-based endovascular stroke treatment | NoMEREx7 |
|  |  | Catheter-based endovascular stroke treatment | MERType1 |
|  |  | Catheter-based endovascular stroke treatment | MERType2 |
|  |  | Catheter-based endovascular stroke treatment | MERType3 |
|  |  | Catheter-based endovascular stroke treatment | MERType4 |
|  |  | Catheter-based endovascular stroke treatment | MERType5 |
|  |  | Catheter-based endovascular stroke treatment | MERType6 |

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|  |  | Catheter-based endovascular stroke treatment | FPassD   |
|  |  | Catheter-based endovascular stroke treatment | FPassDND |
|  |  | Catheter-based endovascular stroke treatment | FPassT   |
|  |  | Catheter-based endovascular stroke treatment | FPassTND |
|  |  | Catheter-based endovascular stroke treatment | MERDelay |
|  |  | Catheter-based endovascular stroke treatment | WhyMERD1 |
|  |  | Catheter-based endovascular stroke treatment | WhyMERD2 |
|  |  | Catheter-based endovascular stroke treatment | WhyMERD3 |
|  |  | Catheter-based endovascular stroke treatment | WhyMERD4 |
|  |  | Catheter-based endovascular stroke treatment | WhyMERD5 |
|  |  | Catheter-based endovascular stroke treatment | TICIG    |

|   |                            |  |          |
|---|----------------------------|--|----------|
|   |                            | Catheter-based endovascular stroke treatment | TICID    |
|   |                            | Catheter-based endovascular stroke treatment | TICIDND  |
|   |                            | Catheter-based endovascular stroke treatment | TICIT    |
|   |                            | Catheter-based endovascular stroke treatment | TICITND  |
|   |                            |  | NIHSSPre |
| Drug or alcohol abuse?  | 1 - Yes; 0 - No/ND         | Documented past medical history              | MHDRUG   |
| Family history of stroke  | 1 - Yes; 0 - No/ND         | Documented past medical history              | MHFHSTK  |
| Hormone replacement therapy   | 1 - Yes; 0 - No/ND         | Documented past medical history              | MHHRTX   |
| Obesity   | 1 - Yes; 0 - No/ND         | Documented past medical history              | MHOBESE  |
| Migraines   | 1 - Yes; 0 - No/ND         | Documented past medical history              | MHMIGRN  |
| Chronic renal insufficiency (serum creatinine)                              | 1 - Yes; 0 - No/ND         | Documented past medical history              | MHRENAL  |
|   |                            | Dysphagia Screening                          | Dyspha24 |
| Is there a documented reason for using Oral Factor Xa Inhibitor for VTE?    | 1 - Yes; 0 - No            | VTE Prophylaxis                              | OFXAVTE  |
| If patient was screened for dysphagia, what were the results of the screen? | 1 - Pass; 2 - Fail; 9 - ND | Dysphagia Screening                          | DysphaPF |

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|  |  | NIHSS ICD-10-CM<br>code | NIHSSICD |
|  |  | Stroke etiology         | EtioDoc  |
|  |  | Stroke etiology         | EtioType |
|  |  | Lipid Treatment         | CholesTx |

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|   |                    | Lipid Treatment              | StatnDos |
|   |                    | Lipid Treatment              | StatnInt |
|   |                    | Lipid Treatment              | StatnWhy |
| If patient was discharged on an antithrombotic medication, was it an antiplatelet?  | 1 - Yes; 0 - No/ND | Antithrombotics at discharge | DC_PLT   |
| If patient was discharged on an antithrombotic medication, was it an anticoagulant? | 1 - Yes; 0 - No/ND | Antithrombotics at discharge | DC_Coag  |

ables in the table with the blue background are optional data elements.

| Text prompt   | Legal values  | Change description   |
|---|---|--|
|   |   | Variable is deleted, because it can be captured through an existing variable.  |
| Reasons that the patient was not admitted                                 | 1 - discharged directly from ED to home or other location that is not an acute care hospital; 4 - Transferred from your ED to another acute care hospital; 6 - died in ED; 7 - Left ED AMA; 8 - discharged from observation status without an inpatient admission; 9 - Other; | Legal values will be modified to align with GWTG   |
| Was patient ambulatory prior to stroke/TIA?                               | 1 – Able to ambulate independently w/or w/o device; 2 - Yes but with assistance from another person; 3 - Unable to ambulate; 9 - ND   | Legal values will be modified to align with GWTG   |
| Modified Rankin Score pre-stroke  | 0 - No symptoms; 1 - no significant disability despite symptoms; 2 - slight disability; 3 - moderate disability, can walk without assistance; 4 - moderate to severe disability, needs assistance to walk; 5 - severe disability, bedridden; 9 - ND                           | This new data element was added by GWTG, which is the data collection method for a majority of Coverdell participating hospitals. Its addition aligns exactly with GWTG to reduce data burden. This question will help compare functional status before and after a stroke to improve quality of care. |
| If patient received IV tPA (alteplase), what was the first blood glucose? | Numeric # = 3 digit   | Variable name modified to align with GWTG  |
| Antiplatelet medication   | 1 - Yes; 0 - No/ND  | Variable name modified to align with GWTG  |
| Anticoagulant   | 1 - Yes; 0 - No/ND  | Variable name modified to align with GWTG  |

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| Was telestroke consultation performed?                                      | 1- Yes, the patient received telestroke consultation from my hospital staff when the patient was located at another hospital; 2- Yes, the patient received telestroke consultation from someone other than my staff when the patient was located at another hospital; 3- Yes, the patient received telestroke consultation from a remotely located expert when the patient was located at my hospital; 4- No telestroke consult performed; 9- ND | This new data element was added by GWTG. It aligns exactly with GWTG to reduce data burden. This optional question will allow CDC and states to better understand the use of telemedicine to improve stroke care. |
| Telestroke consultation performed via interactive video                     | 1 - Yes; 0 - No  | This new question is being added by GWTG. This optional question will allow CDC and states to better understand the use of telemedicine to improve stroke care.   |
| Telestroke consultation performed via teleradiology                         | 1 - Yes; 0 - No  | This new question is being added by GWTG. This optional question will allow CDC and states to better understand the use of telemedicine to improve stroke care.   |
| Telestroke consultation performed via telephone call                        | 1 - Yes; 0 - No  | This new question is being added by GWTG. This optional question will allow CDC and states to better understand the use of telemedicine to improve stroke care.   |
| Was brain or vascular imaging performed prior to transfer to your facility? | 1 – Yes; 0 – No/ND   | This optional question is added in alignment with GWTG to understand advanced stroke care   |
| If yes, which imaging tests were performed: CT                              | 1 – Yes; 0 – No/ND   | This optional question is added in alignment with GWTG to understand advanced stroke care   |
| If yes, which imaging tests were performed: CTA                             | 1 – Yes; 0 – No/ND   | This optional question is added in alignment with GWTG to understand advanced stroke care   |
| If yes, which imaging tests were performed: CT Perfusion                    | 1 – Yes; 0 – No/ND   | This optional question is added in alignment with GWTG to understand advanced stroke care   |
| If yes, which imaging tests were performed: MRI                             | 1 – Yes; 0 – No/ND   | This optional question is added in alignment with GWTG to understand advanced stroke care   |
| If yes, which imaging tests were performed: MRA                             | 1 – Yes; 0 – No/ND   | This optional question is added in alignment with GWTG to understand advanced stroke care   |
| If yes, which imaging tests were performed: MR Perfusion                    | 1 – Yes; 0 – No/ND   | This optional question is added in alignment with GWTG to understand advanced stroke care   |



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|---|---|--|
| If yes, which imaging tests were performed: DSA   | 1 – Yes; 0 – No/ND  | This optional question is added in alignment with GWTG to understand advanced stroke care  |
| If yes, which imaging tests were performed: Image type not documented                       | 1 – Yes; 0 – No/ND  | This optional question is added in alignment with GWTG to understand advanced stroke care  |
| Date 1 <sup>st</sup> vessel or perfusion imaging initiated at prior hospital                | MMDDYYYY  | This optional question is added in alignment with GWTG to understand advanced stroke care  |
| Date 1 <sup>st</sup> vessel or perfusion imaging initiated at prior hospital not documented | 1 – Yes; 0 – No   | This optional question is added in alignment with GWTG to understand advanced stroke care  |
| Time 1 <sup>st</sup> vessel or perfusion imaging initiated at prior hospital                | Time HHMM   | This optional question is added in alignment with GWTG to understand advanced stroke care  |
| Time 1 <sup>st</sup> vessel or perfusion imaging initiated at prior hospital not documented | 1 – Yes; 0 – No   | This optional question is added in alignment with GWTG to understand advanced stroke care  |
| If brain imaging performed was it a CT?   | 1- Yes; 0-No/ND   | New question added to align with changes made by GWTG. Only required if selected "yes" to ImageYN  |
| If imaging performed was it a diffusion MRI?  | 1- Yes; 0-No/ND   | New question added to align with changes made by GWTG. Only required if selected "yes" to ImageYN  |
| Date brain imaging first initiated at your hospital   | MMDDYYYY  | The modified wording of this question will align with changes made by GWTG   |
| Date imaging first initiated not documented   | 1 - Yes; 0 - No   | This variable is added to align with GWTG  |
| Time brain imaging first initiated at your hospital   | Time HHMM   | The modified wording of this question will align with changes made by GWTG   |
| Date imaging first initiated not documented   | 1 - Yes; 0 - No   | This variable is added to align with GWTG  |
| Initial brain imaging findings?   | 1- acute hemorrhage; 0 - No acute hemorrhage; 9 - ND or not available | Wording of legal values changed to align with GWTG   |
| last known well date not documented   | 1 - Yes; 0 - No   | This variable is added to align with GWTG  |
| Last known well time not documented   | 1 - Yes; 0 - No   | This variable is added to align with GWTG  |
| Discovery date not documented   | 1 - Yes; 0 - No   | This variable is added to align with GWTG  |
| Discovery time not documented   | 1 - Yes; 0 - No   | This variable is added to align with GWTG  |
| IV tPA initiation date not documented   | 1 - Yes; 0 - No   | This variable is added to align with GWTG  |
| IV tPA initiation time not documented   | 1 - Yes; 0 - No   | This variable is added to align with GWTG  |
| Catheter-based treatment at this hospital?  | 1 - Yes; 0 - No   | The modified wording and variable of this question will align with changes made by GWTG, and to capture scientific advances in stroke care |

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| Date of IA t-PA or MER initiation at this hospital  | MMDDYYYY   | The modified wording and variable of this question will align with changes made by GWTG to provide clarity, and to capture scientific advances in stroke care                      |
| Date of IA t-PA or MER initiation not documented  | 1 - Yes; 0 - No  | This variable is added to align with GWTG  |
| Time of IA t-PA or MER initiation at this hospital  | Time HHMM  | The modified wording and variable of this question will align with changes made by GWTG, and to capture scientific advances in stroke care   |
| Time of IA t-PA or MER initiation not documented  | 1 - Yes; 0 - No  | This variable is added to align with GWTG  |
| Were there bleeding complications in a patient transferred after IV tPA (alteplase)   | 1 - yes & detected prior to transfer; 2 - yes but detected after transfer; 3 - UTD; 9 - Not applicable | Variable is modified to align with GTWG and adhere to character length guidelines  |
| Contraindications, which include any of the following: Elevated blood pressure (systolic > 185 or diastolic > 110 mmHg) despite treatment; Recent intracranial or spinal surgery or significant head trauma, or prior stroke in previous 3 months; History of previous intracranial hemorrhage, intracranial neoplasm, arteriovenous malformation, or aneurysm; Active internal bleeding; Acute bleeding diathesis (low platelet count, increased PTT, INR ≥ 1.7 or use of NOAC); Arterial puncture at non-compressible site in previous 7 days; Blood glucose concentration <50 mg/dL (2.7 mmol/L) | 1 Yes; 0 No  | Updates are needed to align with the most recent FDA-approved contraindications and warnings for thrombolytics administration. Updates will also better align with changes in GWTG |
| Symptoms suggest subarachnoid hemorrhage; CT demonstrates multilobar infarction (hypodensity >1/3 cerebral hemisphere)  | 1 Yes; 0 No  | Updates are needed to align with the most recent FDA-approved contraindications and warnings for thrombolytics administration. Updates will also better align with changes in GWTG |

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| <p>Warnings: Pregnancy; Recent acute myocardial infarction (within previous 3 months); Seizure at onset with postictal residual neurological impairments; Major surgery or serious trauma within previous 14 days; Recent gastrointestinal or urinary tract hemorrhage (within previous 21 days)</p>  | <p>1 Yes; 0 No</p> | <p>Updates are needed to align with the most recent FDA-approved contraindications and warnings for thrombolytics administration. Updates will also better align with changes in GWTG</p> |
| <p>Stroke too severe</p>  | <p>1 Yes; 0 No</p> | <p>This will be added to align with its new addition in GWTG</p>  |
| <p>Other reasons (text)</p>   | <p>1 Yes; 0 No</p> | <p>This will be added to align with its new addition in GWTG</p>  |
| <p>Contraindications, which include any of the following: Elevated blood pressure (systolic &gt; 185 or diastolic &gt; 110 mmHg) despite treatment; Recent intracranial or spinal surgery or significant head trauma, or prior stroke in previous 3 months; History of previous intracranial hemorrhage, intracranial neoplasm, arteriovenous malformation, or aneurysm; Active internal bleeding; Acute bleeding diathesis (low platelet count, increased PTT, INR ≥ 1.7 or use of NOAC); Arterial puncture at non-compressible site in previous 7 days; Blood glucose concentration &lt;50 mg/dL (2.7 mmol/L)</p> | <p>1 Yes; 0 No</p> | <p>Updates are needed to align with the most recent FDA-approved contraindications and warnings for thrombolytics administration. Updates will also better align with changes in GWTG</p> |

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| Symptoms suggest subarachnoid hemorrhage; CT demonstrates multi-lobar infarction (hypodensity >1/3 cerebral hemisphere)   | 1 Yes; 0 No | Updates are needed to align with the most recent FDA-approved contraindications and warnings for thrombolytics administration. Variable name was also modified to adhere to character length guidelines set by GWTG. This will ultimately reduce burden for states that use a mix of GWTG and other systems. |
| Warnings: Pregnancy; Recent acute myocardial infarction (within previous 3 months); Seizure at onset with postictal residual neurological impairments; Major surgery or serious trauma within previous 14 days; Recent gastrointestinal or urinary tract hemorrhage (within previous 21 days) | 1 Yes; 0 No | Updates are needed to align with the most recent FDA-approved contraindications and warnings for thrombolytics administration. Variable name is also modified to adhere to character length guidelines set by GWTG. This will ultimately reduce burden for states that use a mix of GWTG and other systems.  |
| Care team unable to determine eligibility   | 1 Yes; 0 No | Variable name is modified to adhere to character length guidelines set by GWTG. This will ultimately reduce burden for states that use a mix of GWTG and other systems.  |
| IV or IA thrombolysis/thrombectomy at an outside hospital prior to arrival  | 1 Yes; 0 No | New optional variable will be collected to capture thrombolytic administration prior to hospital arrival   |
| Life expectancy <1 year or severe comorbid illness or CMO on admission  | 1 Yes; 0 No | Variable name is modified to adhere to character length guidelines set by GWTG. This will ultimately reduce burden for states that use a mix of GWTG and other systems.  |
| Patient/family refusal  | 1 Yes; 0 No | Variable name is modified to adhere to character length guidelines set by GWTG. This will ultimately reduce burden for states that use a mix of GWTG and other systems.  |
| Rapid improvement   | 1 Yes; 0 No | Variable name is modified to adhere to character length guidelines set by GWTG. This will ultimately reduce burden for states that use a mix of GWTG and other systems.  |

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| Stroke severity too mild   | 1 Yes; 0 No        | Variable name is modified to adhere to character length guidelines set by GWTG. This will ultimately reduce burden for states that use a mix of GWTG and other systems. |
| In-hospital time delay   | 1 Yes; 0 No        | Variable name is modified to adhere to character length guidelines set by GWTG. This will ultimately reduce burden for states that use a mix of GWTG and other systems. |
| Delay in stroke diagnosis  | 1 Yes; 0 No        | Variable name is modified to adhere to character length guidelines set by GWTG. This will ultimately reduce burden for states that use a mix of GWTG and other systems. |
| No IV access   | 1 Yes; 0 No        | Variable name is modified to adhere to character length guidelines set by GWTG. This will ultimately reduce burden for states that use a mix of GWTG and other systems. |
| Other reasons  | 1 Yes; 0 No        | Variable name is modified to adhere to character length guidelines set by GWTG. This will ultimately reduce burden for states that use a mix of GWTG and other systems. |
| Additional relative exclusion criteria: Age >80; History of both diabetes and prior ischemic stroke; Taking an oral anticoagulant regardless of INR; Severe stroke (NIHSS >25) | 1 Yes; 0 No        | Updates are needed to align with the most recent FDA-approved contraindications and warnings for thrombolytics administration.  |
| If IV tPA (alteplase) was initiated greater than 45 minutes after hospital arrival, were eligibility or medical reasons documented as the cause for delay?                     | 1 Yes; 0 No        | New required element to align with new national time goals set by AHA/ASA.  |
| Was vascular or perfusion imaging performed at your hospital?  | 1 - Yes; 0 - No/ND | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients                     |
| If yes, type of imaging: CTA   | 1 - Yes; 0 - No/ND | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients                     |

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| If yes, type of imaging: CT Perfusion  | 1 - Yes; 0 - No/ND | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If yes, type of imaging: MRA   | 1 - Yes; 0 - No/ND | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If yes, type of imaging: MR Perfusion  | 1 - Yes; 0 - No/ND | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If yes, type of imaging: DSA (catheter angiography)  | 1 - Yes; 0 - No/ND | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If yes, type of imaging: ND  | 1 - Yes; 0 - No/ND | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| Date 1 <sup>st</sup> vessel or perfusion imaging initiated at your hospital                | MMDDYYYY           | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| Date 1 <sup>st</sup> vessel or perfusion imaging initiated at your hospital not documented | 1 - Yes; 0 - No    | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| Time 1 <sup>st</sup> vessel or perfusion imaging initiated at your hospital                | Time HHMM          | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| Time 1 <sup>st</sup> vessel or perfusion imaging initiated at your hospital not documented | 1 - Yes; 0 - No    | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| Was a target lesion (large vessel occlusion) visualized?                                   | 1 - Yes; 0 - No    | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |

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| If yes, site of large vessel occlusion:<br>ICA                          | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If yes, site of large vessel occlusion:<br>Intracranial ICA             | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If yes, site of large vessel occlusion:<br>Cervical ICA                 | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If yes, site of large vessel occlusion:<br>ICA other/UTD                | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If yes, site of large vessel occlusion:<br>MCA                          | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If yes, site of large vessel occlusion:<br>MCA M1                       | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If yes, site of large vessel occlusion:<br>MCA M2                       | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If yes, site of large vessel occlusion:<br>MCA Other/UTD                | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If yes, site of large vessel occlusion:<br>Basilar artery               | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If yes, site of large vessel occlusion:<br>Other cerebral artery branch | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |

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| <p>If yes, site of large vessel occlusion:<br/>Vertebral artery</p>   | <p>1 - Yes; 0 - No</p> | <p>Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients</p> |
| <p>What is the date of skin puncture at this hospital to access the arterial site selected for endovascular treatment of a cerebral artery occlusion?</p>   | <p>MMDDYYYY</p>        | <p>Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients</p> |
| <p>What is the time of skin puncture at this hospital to access the arterial site selected for endovascular treatment of a cerebral artery occlusion?</p>   | <p>Times HHMM</p>      | <p>Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients</p> |
| <p>Was a mechanical endovascular reperfusion procedure attempted during this episode of care (at this hospital)?</p>  | <p>1 - Yes; 0 - No</p> | <p>Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients</p> |
| <p>Are reasons for not performing mechanical endovascular reperfusion therapy documented?</p>   | <p>1 - Yes; 0 - No</p> | <p>Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients</p> |
| <p>Reasons for not performing mechanical endovascular therapy includes: significant pre-stroke disability (pre-stroke mRS &gt;1); no evidence of proximal occlusion; NIHSS &lt;6; brain imaging not favorable/hemorrhage transformation (ASPECTS score &lt;6); groin puncture could not be initiated within 6 hours of symptom onset; anatomical reason- unfavorable vascular anatomy that limits access to the occluded artery; patient/family refusal; and/or MER performed at outside hospital</p> | <p>1 - Yes; 0 - No</p> | <p>Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients</p> |
| <p>Reason for not performing mechanical endovascular therapy: equipment-related delay</p>   | <p>1 - Yes; 0 - No</p> | <p>Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients</p> |
| <p>Reason for not performing mechanical endovascular therapy: no endovascular specialist available</p>  | <p>1 - Yes; 0 - No</p> | <p>Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients</p> |



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| Reason for not performing mechanical endovascular therapy: delay in stroke diagnosis                                | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| Reason for not performing mechanical endovascular therapy: vascular imaging not performed                           | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| Reason for not performing mechanical endovascular therapy: advanced age   | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| Reason for not performing mechanical endovascular therapy: other reason   | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If MER treatment at this hospital, type of treatment: retrievable stent   | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If MER treatment at this hospital, type of treatment: other mechanical clot removal device besides stent retrieval  | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If MER treatment at this hospital, type of treatment: clot suction device   | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If MER treatment at this hospital, type of treatment: intracranial angioplasty, with or without permanent stent     | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If MER treatment at this hospital, type of treatment: cervical carotid angioplasty, with or without permanent stent | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| If MER treatment at this hospital, type of treatment: other mechanical clot removal device besides stent retrieval  | 1 - Yes; 0 - No | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |

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| What is the date of the first pass of a clot retrieval device at this hospital?   | MMDDYYYY                                    | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| Date of the first pass of clot retrieval device at this hospital not documented   | 1 - Yes; 0 - No                             |   |
| What is the time of the first pass of a clot retrieval device at this hospital?   | Time HHMM                                   | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| Time of the first pass of clot retrieval device at this hospital not documented   | 1 - Yes; 0 - No                             |   |
| Is a cause(s) for delay in performing mechanical endovascular reperfusion therapy documented?   | 1 - Yes; 0 - No                             | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| Reasons for delay: social/religious; initial refusal; care-team unable to determine eligibility; management of concomitant emergent/acute conditions such as cardiopulmonary arrest, respiratory failure (requiring intubation); and/or investigational or experimental protocol for thrombolysis | 1 - Yes; 0 - No                             | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| Reasons for delay: delay in stroke diagnosis  | 1 - Yes; 0 - No                             | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| Reasons for delay: in-hospital time delay   | 1 - Yes; 0 - No                             | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| Reasons for delay: equipment-related delay  | 1 - Yes; 0 - No                             | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| Reasons for delay: other  | 1 - Yes; 0 - No                             | Added as optional to collect information for advanced stroke treatment performance measures. Question is only available for certain stroke patients |
| (TICI) Post-Treatment Reperfusion Grade   | Grade 2a; 4 – Grade 2b; 5 – Grade 3; 6 - ND | This optional question is added to capture advanced stroke treatment  |

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| Date a post-treatment TICI Reperfusion Grade of 2B/3 was first documented during the mechanical thrombectomy procedure?             | Date MMDDYYYY                 | This optional question is added to capture advanced stroke treatment                 |
| Date a post-treatment TICI reperfusion grade 2B/3 not documented during the mechanical thrombectomy procedure?                      | 1 - Yes; 0 - No               |  |
| Time a post-treatment TICI reperfusion grade 2B/3 not documented documented prior to initiation of IA t-PA or MER at this hospital? | Time HHMM                     | This optional question is added to capture advanced stroke treatment                 |
| Time a post-treatment TICI reperfusion grade 2B/3 not documented  | 1 - Yes; 0 - No               |  |
| documented prior to initiation of IA t-PA or MER at this hospital?  | Numeric # = 1 digit           | This optional question is needed for advanced stroke treatment performance measures  |
| Drug or alcohol abuse?  | 1 - Yes; 0 - No/ND            | This variable name is modified to align with GWTG                                    |
| Family history of stroke  | 1 - Yes; 0 - No/ND            | This variable name is modified to align with GWTG                                    |
| Hormone replacement therapy   | 1 - Yes; 0 - No/ND            | This variable name is modified to align with GWTG                                    |
| Obesity   | 1 - Yes; 0 - No/ND            | This variable name is modified to align with GWTG                                    |
| Migraines   | 1 - Yes; 0 - No/ND            | This variable name is modified to align with GWTG                                    |
| Chronic renal insufficiency (serum creatinine)  | 1 - Yes; 0 - No/ND            | This variable name is modified to align with GWTG                                    |
| Was the patient screened for dysphagia within 24 hours of admission?  | 1 - Yes; 0 - No or ND; 2 - NC | Question is needed to capture this data for dysphagia screening performance measure. |
| Is there a documented reason for using Oral Factor Xa Inhibitor for VTE?  | 1 - Yes; 0 - No               | Variable name is modified to align with GWTG   |
| If patient was screened for dysphagia, what were the results of the most recent screen prior to oral intake?                        | 1 - Pass; 2 - Fail; 9 - ND    | Question wording is changed to align with GWTG.                                      |

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| <p>ICD-10-CM code for first captured NIHSS score (any position)</p>  | <p>0 – R29.700; 1 – R29.701; 2 – R29.702; 3 – R29.703; 4 – R29.704; 5 – R29.705; 6 – R29.706; 7 – R29.707; 8 – R29.708; 9 – R29.709; 10 – R29.710; 11 – R29.711; 12 – R29.712; 13 – R29.713; 14 – R29.714; 15 – R29.715; 16 – R29.716; 17 – R29.717; 18 – R29.718; 19 – R29.719; 20 – R29.720; 21 – R29.721; 22 – R29.722; 23 – R29.723; 24 – R29.724; 25 – R29.725; 26 – R29.726; 27 – R29.727; 28 – R29.728; 29 – R29.729; 30 – R29.730; 31 – R29.731; 32 – R29.732; 33 – R29.733; 34 – R29.734; 35 – R29.735; 36 – R29.736; 37 – R29.737; 38 – R29.738; 39 – R29.739; 40 – R29.740; 41 – R29.741; 42 – R29.742; 70 – R29.70; 71 – R29.71; 72 – R29.72; 73 – R29.73; 74 – R29.74; 75 – R29.7</p> | <p>Addition of this optional variable will provide an understanding of agreement between clinically documented NIHSS and those that are included as ICD-10-CM codes before stroke severity is added into nationally reported risk-adjustment models</p> |
| <p>Was stroke etiology documented in the patient medical record?</p> | <p>1 – Yes; 0 - No</p>   | <p>Addition of this optional variable is needed to capture information on mechanism of the stroke documented in the patient record. It aligns directly with GWTG.</p>   |
| <p>If the stroke etiology was documented, select the type.</p>       | <p>1 – Large-artery atherosclerosis (e.g., carotid or basilar stenosis); 2 – Cardioembolism (e.g., atrial fibrillation/flutter, prosthetic heart valve, recent MI); 3 – Small-vessel occlusion (e.g., subcortical or brain stem lacunar infarction &lt;1.5 cm); 4 – Stroke of other determined etiology (e.g., dissection, hypercoagulability, other); 5 – Cryptogenic stroke (multiple potential etiologies, undetermined etiology); 9 - Unspecified</p>  | <p>Addition of this optional variable is needed to capture information on mechanism of the stroke documented in the patient record. It aligns directly with GWTG.</p>   |
| <p>Was a cholesterol-reducing treatment prescribed at discharge?</p> | <p>1 – None; 2 – None-contraindicated; 3 – Statin; 4 – Fibrate; 5 – Other med; 7 – Niacin; 8 – Absorption inhibitor; 9 – PCSK9</p>   | <p>This new variable is needed for the calculation of a new intensive statin therapy performance measure. It aligns directly with GWTG, which requires the collection of this question.</p>   |

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| Statin dose  | Text 25 characters   | This new variable is needed for the calculation of a new intensive statin therapy performance measure. It aligns directly with GWTG, which requires the collection of this question.                              |
| What intensity was the statin that was prescribed at discharge?                      | 1 - High-intensity statin; 2 - Moderate-intensity statin; 3 - Low-intensity statin; 9 - Unknown  | This new variable is needed for the calculation of a new intensive statin therapy performance measure. Specific medications that are collected by GWTG are mapped to the legal value categories to reduce burden. |
| Was there a documented reason for not prescribing guideline recommended statin dose? | 1 - Intolerant to moderate or greater intensity; 2 - No evidence of atherosclerosis (cerebral, coronary, or peripheral vascular disease); 3 - Other documented reason; 9 - Unknown | This new variable is needed for the calculation of a new intensive statin therapy performance measure. It aligns directly with GWTG, which requires the collection of this question.                              |
| If patient was discharged on an antithrombotic medication, was it an antiplatelet?   | 1 - Yes; 0 - No/ND   | Variable name is modified to align with GWTG  |
| If patient was discharged on an antithrombotic medication, was it an anticoagulant?  | 1 - Yes; 0 - No/ND   | Variable name is modified to align with GWTG  |