Provider Orientation: Care and Treatment of Acute Stroke Patients

Objectives:

- Identify location of Stroke Protocols and facility specific process flows
- Utilize protocols for Stroke Alerts
- Knowledge of current available Stroke power plans.
- Apply standardized Stroke Assessment tools to assist in the early recognition of Stroke symptoms
- Identification, treatment, and continuous monitoring of an Acute Stroke patient
- Knowledge of Stroke Core Measures and Guidelines

In accordance with the Joint Commission Standard DSDF.1.04 for Disease Specific Certification (Stroke)

"Orientation provides information and necessary training pertinent to the practitioner's responsibilities.

Completion of the orientation is documented"

Thank you for your time in reviewing this information.

Stroke Practice Guidelines and Facility Specific Process Flows





Clinical Practice Guidelines

Banner Clinical Practice Guidelines for Ischemic and Hemorrhagic Stroke are located on the Banner Connect site.

Stroke Resource Material

All forms related to Stroke Alert are located on the Banner Connect site or in stroke binders', (facility dependent)

Joint Commission Standard: DSPR 1.01

Practitioners have access to reference materials, including clinical practice guidelines, in either hard copy or electronic format. Protocols and care paths (preprinted or electronic documents) are available in the emergency department, acute care areas, and stroke unit for the acute assessment and treatment of patients with ischemic or hemorrhagic stroke.

Stroke Alert Provider Roles and Responsibilities

- Responds to Stroke Alert
- Drives Stroke Alert process forward.
- Assists in NIHSS and VAN assessments.
- Orders appropriate diagnostics.
- Decision Making- IV Thrombolytics
- Consults with Neurology
- Discusses Risk/Benefit for Thrombolytic or Mechanical Endovascular Reperfusion
- Facilitates HLOC Transfer when needed





Presentation: BEFAST+, VAN+/-, Last Known Well w/in 24h

Assessment: VAN, NIHSS

Diagnostics: CT head/brain without for Stroke Alert, CTA/CTP head/neck for Stroke Alert, Rapid sequence MRI

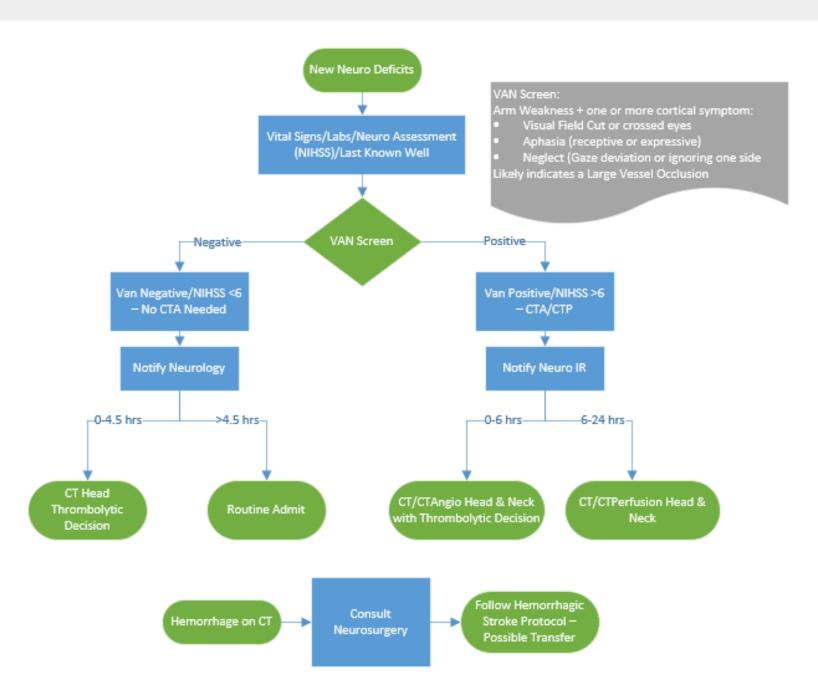
Labs: Glucose, PT/INR, PTT, CBC, BMP, Troponin

Stroke Assessment and Diagnostics

Treatment/management:
Airway management
BP management
IV Thrombolytic Therapy
Mechanical Endovascular Reperfusion
(MER) Therapy

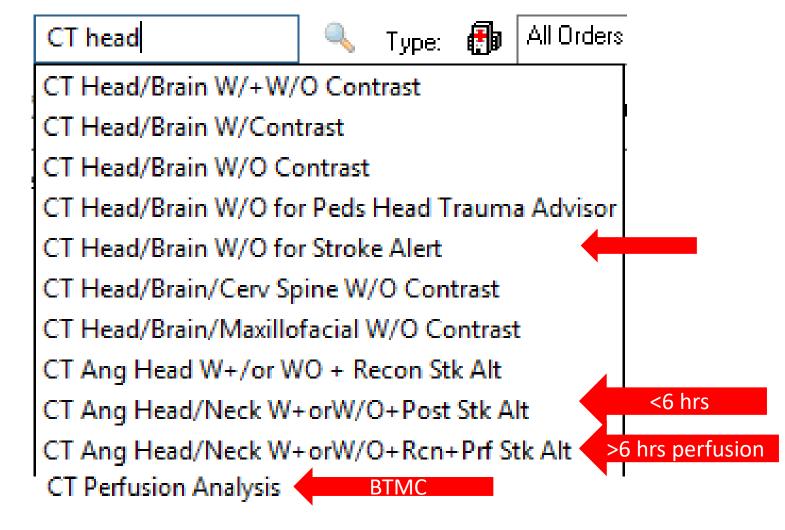
Simplified Stroke Alert Process Flow*

*This is a simplified flow of general guidelines for a stroke process. Each facility may have distinctions based on resources...



Initial Medical Imaging



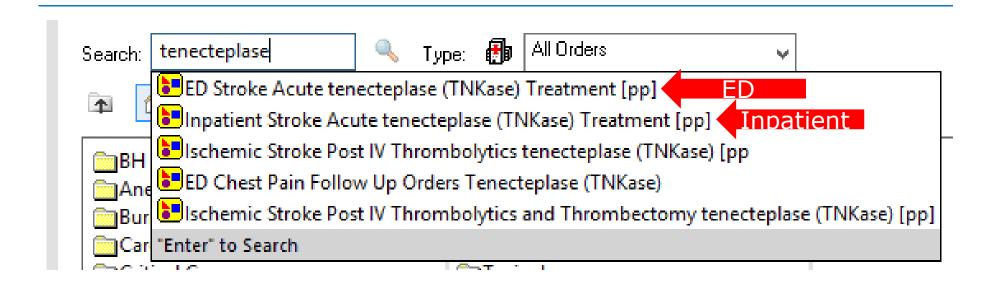


CTA/CTP for suspected Large Vessel Occlusion **GUIDELINE**

- <6 hours from symptom onset CTA Head/Neck</p>
- >6 hours from symptom onset CTA w/Perfusion Head/Neck



Ordering IV Thrombolytic





Stroke Power Plans

ED

- ED Stroke Acute Initial
- ED Non-Acute Initial
- ED Stroke Acute Tenecteplase (TNKase) Treatment
- ED Hold Stroke
 Intracerebral
 Hemorrhage (ICH)
 (intended for extended transfer holds)

Inpatient/OBS

- Inpatient Stroke Acute Tenecteplase (TNKase) Treatment
- Stroke-TIA
- Ischemic Stroke Post IV Thrombolytics Tenecteplase
- Admit Stroke Intracerebral Hemorrhage (ICH)
- Admit Subarachnoid Hemorrhage (SAH)-BUMCP, BUMCT, BTMC, BDMC only

Intervention

- Ischemic Stroke Post Thrombectomy
- Ischemic Stroke Post IV Thrombolytics and Thrombectomy



Monitoring of an Acute Stroke Patient



Blood Pressure parameters for both **Ischemic** and **Hemorrhagic** stroke patients:

- Hemorrhagic Stroke BP parameters:
 - ICH-SBP dependent on the initial SBP and recommended treatment plan per neurology
 - SAH-SBP >120 and <160
- Ischemic Stroke BP parameters without IV thrombolytics
 Permissive HTN for 24 hours or per Neurology
- Ischemic Stroke BP parameters with IV thrombolytics <185/110 to start, then <180/105 for 24hrs post treatment

Vital Sign and Advanced Neuro Assessment frequency are dependent on the stroke powerplan used.

Joint Commission Core
Measure/Guideline

Description

Provider Responsibilities

Use the VTE advisor and order

STK 1 VTE PROPHYLAXIS by end of day 2.

Ischemic or hemorrhagic stroke patients receive VTE Prophylaxis OR Documentation of a contraindication

prophylaxis for patient. ➤ If no prophylaxis is indicated then BOTH forms of prophylaxis need to be addressed as contraindicated (Pharmacological & mechanical)

STK 2 Discharged on Antithrombotic Therapy

Ischemic stroke patients are prescribed antithrombotic therapy at discharge OR Documentation of a contraindication

Prescribe antithrombotic at discharge when completing Depart Med Rec or document a contraindication

STK 3 Anticoagulation Therapy for Atrial Fibrillation/Flutter

Ischemic stroke patients with atrial fibrillation/flutter are prescribed anticoagulation therapy at discharge OR Documentation of a contraindication Prescribe anticoagulation therapy at discharge when completing Depart Med Rec or document a contraindication

Joint Commission Cor
Measure/Guideline
STK 4 Thrombolytic Therapy

e'

hours.

day 2

OR

OR

Description Acute ischemic stroke patients who arrive at the

hospital within 2 hours of time last known well

are considered for thrombolytic therapy w/in 3

Ischemic stroke patients administered

Documentation of a contraindication

Statin medication at discharge)

Documentation of a contraindication

antithrombotic therapy by the end of hospital

Ischemic stroke patients are prescribed a statin

medication at hospital discharge. (Age <75

require an Intensive Statin if discharged on

Statin medication. Age >75 require a mod/int

Order IV Thrombolytic if appropriate: ED Stroke Acute Tenecteplase Treatment [pp]

• If there is a delay in initiating

therapy need to be explicit.

thrombolytic- delays in thrombolytic

• If thrombolytic is contraindicated

documentation needs to be explicit.

Order antithrombotic prior to end of

administered prior to the end of hospital

day 2 or document a contraindication

Prescribe **appropriate** statin therapy at

Order Lipid profile on admission or < 48

hours of patient arrival. (lipid profile in last

or document a contraindication.

30 days is adequate)

discharge when completing Depart Med Rec

hospital day 2 so it has time to be

STK 4 Thrombolytic Therapy

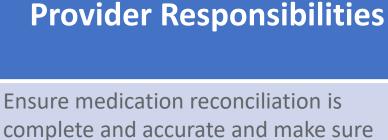
STK 6 Discharged on Statin
Medication

STK 5 Antithrombotic Therapy By End

of Hospital Day Two

J	oint Commission Cor
	Measure/Guideline
K 8	Stroke Education

Description Ischemic or hemorrhagic stroke patients



discharge summary and medication

Document order/assessment for rehab. IF

not be assumed that this is the reason no

patient has returned to baseline it can

Rehab assessment was ordered it must

be clear: **Example** "Patient has returned

to baseline no need for REHAB at this

For patients with an A1C >7, evaluate

current medication regimen. Consider

antihyperglycemic medication (i.e., SGLT-

2 or GLP-1) or document a reason for not

time", must be in provider note.

prescribing while in the facility or

deferring decision to primary care or

adding a cardioprotective

endocrinologist.

reconciliation match

STK 10 Assessed for Rehabilitation

or their caregivers were given educational materials during the hospital stay. Ischemic or hemorrhagic stroke patients

OR

Diabetic Measure (2020)

Diabetic patients or newly diagnosed diabetics receive diabetes treatment in the form of glycemic control (diet or medication) or follow up appointment for diabetes management scheduled at discharge

were assessed for rehabilitation services.

Documentation of a contraindication

Thank you.

Banner Health Joint Commission Certified Stroke Centers:

BBMC

BBWMC

BDMC

BDWMC

BEMC

BTMC

BUMC-P

BUMC-T

BUMC-T South

BNCMC

BWYMC