







Instructor Information

Patient Name: Ubaldini, Gina

Simulation Developer(s): Debra A. Mosley

Scenario Purpose:

 Perform the required steps to care for the patient presenting with an hemorrhagic stroke within the specified time goals per protocol

Learner(s):

- Registered Nurses (RN), Licensed Practical Nurses (LPN) (depending on facility protocols)
- Others as desired, depending on facility protocols
- Recommend no more than 6 learners (3 of which can be observers)

Time Requirements:

Setup: 5 minutesScenario: 25 minutesDebrief: 25 minutes

Reset/Breakdown: 5 minutes

Confederates:

- Stroke Team
 - Neurologist
 - Intensive Care Unit/Stroke Unit Nurse

Scenario Prologue:

- Outpatient/Inpatient: Sixty-five (65) year-old female presented requesting a refill on her "blood pressure medication." She has a twelve (12) year one pack per day history of smoking, hypertension, and non-compliance. Home medications are Metoprolol and a baby aspirin a day. The patient has not taken her Metoprolol for three (3) months because of complaints of feeling tired. She denies allergies to medications. Her blood pressure on admit was 198/101 upon arrival and 10 mg of Labetolol IV was given one (1) hour ago.
- The simulation begins when the learner(s) enter the room

Patient Information:

- General: Alert and distressed
- Weight/Height: 75kg (165lbs) 170.2cm (67in)
- Vital Signs: BP 172/90; Temp 98.3; HR 118; RR 22; O2 Sat 95%
- Pain: Unable to determine
- <u>Neurological</u>: Left pupil larger than the right; right facial droop; right hemiparesis; Wernicke's aphasia
- Respiratory: Clear
- Cardiac: Sinus tachycardia
- Gastrointestinal: Unremarkable
- **Genitourinary**: Unremarkable
- Musculoskeletal: Right hemiparesis
- Skin: Unremarkable
- Past Medical History: Hypertension
 Past Surgical History: Unremarkable

Medications:

- Metoprolol 50 mg two times a day
- Aspirin 81 mg one time a day

Allergies:

- NKDA
- Green Text Confederate
- Red Text Physiology Change







Learning Objectives

Patient Name: Gina Ubaldini

Simulation Developer(s): Debra A. Mosley

Scenario Purpose:

 Perform the required steps to care for the patient presenting with a hemorrhagic stroke within the specified time goals per protocol

Pre-Session Activities:

- Complete training on management of care for the patient experiencing a stroke
- Review the American Heart Association's Stroke algorithm
- Review policies and protocols on the management of care for the patient experiencing a stroke

Potential Systems Explored:

- What facility specific policies or protocols exist for management of care for the patient experiencing a hemorrhagic stroke?
- How would the process differ for an outpatient versus an inpatient?
- How would the plan of care differ for an ischemic versus hemorrhagic stroke?
- What tools are available to assess and prioritize the assessment and care of the patient experiencing a stroke?
- What risk factors and complications are important to consider when caring for the patient experiencing a stroke?
- What facility specific documentation is required for the patient experiencing a stroke?
- stroke algorithm
- Clarify facility specific interdisciplinary roles when managing care for the patient demonstrating signs and symptoms of a stroke

Scenario Specific Learning Objectives (Knowledge, Skills, and Attitudes = K/S/A):

**The learner(s) will demonstrate ICARE principles throughout the scenario.

Learning Objective 1: Complete an immediate general assessment within ten minutes on the patient presenting with signs and symptoms of a stroke per facility protocol

- a. **K** Correlate assessment findings with a possible stroke
- b. S- Establish the time of last normal status
- c. S- Elevate the head of the bed to thirty (30) degrees; head is midline
- d. S- Assess for the presence of adequate airway, breathing, and circulation
- e. **S** Obtain vital signs
- f. S- Establish intravenous access
- q. **S** Ensure suction is available
- h. **S** Perform a neurologic assessment
- i. **S** Obtain a fingerstick blood sugar per protocol
- j. S- Ensure an ECG has been completed

Learning Objective 2: Implement facility specific protocol to manage the care of the patient presenting with signs and symptoms of a stroke

- a. S- Activate facility specific stroke protocol and/or Stroke team within ten (10) minutes
- b. S- Ensure diagnostic tests have been initiated within 10 minutes or per facility protocol
- c. **K** Identify designated staff member to perform stroke assessment
 - **S** Ensure stroke assessment and CT scan/MRI without contrast are complete within twenty-five (25) minutes or per facility protocol
 - **A** Display a sense of urgency while maintaining a composed demeanor
- d. S- Ensure the CT scan/MRI is interpreted within forty-five (45) minutes
- e. K- Establish that patient is not a candidate for fibrinolytic therapy







Learning Objective 3: Communicate effectively when managing the care of the patient experiencing a stroke

- a. **S-** Call the healthcare provider
- b. **S** Perform ISBAR communication
- c. S- Ensure the patient and family are kept informed at a level they can understand
- d. S- Complete required documentation while placing an emphasis on pertinent details

Debriefing Overview:

- Ask the learner(s) how they feel after the scenario
- Have the learner(s) provide a summary of the scenario from a healthcare provider/clinical reasoning point of view
- Discuss the scenario and ask the learners what the main issues were from their perspective
- Ask what was managed well and why.
- Ask what they would want to change and why.
- For areas requiring direct feedback, provide relevant knowledge by stating "I noticed you
 [behavior]..." Suggest the behavior they might want to portray next time and provide a
 rationale. "Can you share with us?"
- Indicate closing of the debriefing but provide learners with an opportunity to voice one or two take-aways that will help them in future practice
- Lastly, ask for any outstanding issues before closing the debrief

Critical Actions/Debriefing Points:

- Identifies symptoms of a possible stroke; elevates the head of bed to 30°; head is midline
- Activate Stroke Team within 10 minutes
- Perform immediate assessment (ABCs, vital signs, secures IV access, FSBS, labs, neurological assessment, and ECG) within 10 minutes
- Provide patient education on plan of care and purpose of NPO status until dysphasia screen is done
- Perform ISBAR communication
- Ensure the patient has undergone stroke assessment scale by member of Stroke Team
- Make certain CT scan/MRI is complete within 25 minutes and interpreted within 45 minutes
- Recognize patient is not a candidate for fibrinolytics
- Begin hemorrhagic stroke pathway within 60 minutes
- 10. Complete facility specific documentation







Simulation Set-Up

Patient Name: Gina Ubaldini (Standardized Patient)

Simulation Developer(s): Debra A. Mosley

Room Set-up:

• Inpatient: Set up like an Inpatient room or outpatient exam room

Patient Preparation:

- Hospital gown if inpatient; street clothes if outpatient
- Moulage right facial droop (can use cotton balls or gauze in mouth)
- Saline lock in the right antecubital space (if inpatient)
- Monitor leads are on the patient (if inpatient)
- Monitoring device (3 Wave form):
 - o ECG (Sinus tachycardia), O2 Sat 95%, BP 172/90, Temperature 98.3, HR 118, RR 22

Have the following equipment/supplies available:

- Telephone
- Posted phone numbers for stroke team and neurologist (laminated)
- Stroke protocol
- Gloves
- Hand sanitizer
- Oxygen source with nasal cannula
- Facility specific stroke protocol
- Blood pressure cuff
- Stethoscope
- Bedside table

Note: 5.8 Simpad software update is required to load scenarios

(http://cdn.laerdal.com/downloads/f4343/simpad-upgrade.vs2 Scenarios may be used with Laerdal or LLEAP software.

Scenario Supplements:

- Confederate scripts
- Confederate name tags
- Patient identification band
- Orders
- Fingerstick Blood Sugar result
- CT Scan / MRI results
- Patient chart
- ZZ test patient/Demo patient in CPRS (if desired)







** Initial State:

- Mental Status: Alert and distressed

- Sp02: 95% - BP: 172/90 - Temp: 98.3 - HR: 118 - RR: 22

- ECG: Sinus tachycardia

- Pain level: Unable to determine due to difficulty with communicating

Skin: Unremarkable

**Did not... **

- ... provide patient education
- The patient becomes more anxious and stating "Boy! Soap!"
- ... verbalize National Institute of Neurological Disorders and Stroke (NINDS) Time Goals for first 10 minutes
- The patient will begin to cry making motions with her left hand mimicking a fingerstick blood sugar test, lab specimen blood draw, ECG, and order CT scan/MRI.

**Did not... **

- ... verbalize NINDS Time Goals for first 25 minutes
- The nurse from the ICU/Stroke Team will say "Let's get going here! Time is brain!"

**Did not... **

- ... verbalize NINDS Time Goals for first 45 minutes
- The neurologist will say "We need to make a decision soon! How much time do we have?"

**Did not... **

- ... verbalize NINDS Time Goals for first 60 minutes
- The nurse from the ICU/Stroke Team will say "How much time do we have?"

Flowchart

Sixty five (65) year old female presented requesting a refill on her "blood pressure medication." She has a 12 year one pack per day history of smoking, hypertension, and non-compliance. Home medications are Metoprolol and a baby aspirin a day. The patient has not taken her Metoprolol for three (3) months because of complaints of feeling tired. She denies allergies to medications. Her blood pressure was 198/101 upon arrival and 10 mg of Labetolol IV was given 1 hour ago. She has a saline lock in the right antecubital space.

Y

- Patient is holding the top, left side of her head with her left hand repeatedly stating "Tool!
 Hat!" (right facial droop and right-sided hemiplegia are present)
- Recognizes Wernicke's aphasia
- Elevates the head of bed to 30°; head is midline
- Activates Stroke Team per facility protocol; calls healthcare provider and notifies family
- Assesses ABCs; obtains vital signs; establishes when symptoms began or "last normal"
- Ensures suction and other equipment is available for patient safety and per policy
- Verbalizes general assessment must be completed within 10 minutes
- Confirms patency of saline lock or establishes IV access per policy
- Obtains fingerstick blood sugar (result is 125) and diagnostics (serum glucose, electrolytes, complete blood count, coagulation studies, pregnancy test per facility policy)
- Completes neurological assessment; NPO; suction is available
- Performs patient education on plan of care
- Orders emergent CT scan/MRI of the brain without contrast
- Obtains a 12 lead ECG but does not delay CT scan/MRI

Stroke Team arrives (Intensive Care Unit (ICU)/ Stroke Unit nurse and a neurologist)

- Performs ISBAR communication
- Verbalizes Stroke Team assessment and CT scan must be completed within 25 minutes
- Neurologist performs stroke scale assessment, obtains patient history, and establishes time of symptom onset per protocol
- **(for time constraints, assume the CT scan has been completed)

V

- Verbalizes CT scan must be interpreted within 45 minutes
- Neurologist states "The CT scan / MRI shows a left parietal intracerebral hemorrhage."

• <u>Verbalizes</u> patient is a candidate for fibrinolytics and the need to begin ischemic stroke pathway within 60 minutes

- Neurologist states "Let's transfer her to the ICU/Stroke unit and consult a neurosurgeon STAT!"
- Provides patient with reassurance, an update on the plan of care

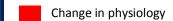
• ICU/Stroke Unit nurse states "You can give me report since I will be her nurse in the unit."

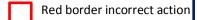
- Provides ICU/Stroke Unit nurse with handoff report
- Completes facility specific documentation

Critical Actions/Debriefing Points:

- Identifies symptoms of a possible stroke; elevates the head of bed to 30°; head is midline
- Activate Stroke Team within 10 minutes
- Perform immediate assessment (ABCs, vital signs, secures IV access, FSBS, labs, neurological assessment, and ECG) within 10 minutes
- Provide patient education on plan of care and purpose of NPO status until dysphasia screen is done
- Perform ISBAR communication
- Ensure the patient has undergone stroke assessment scale by member of Stroke Team
- Make certain CT scan/MRI is complete within 25 minutes and interpreted within 45 minutes
- Recognize patient is not a candidate for fibrinolytics
- Begin hemorrhagic stroke pathway within 60 minutes
- Complete facility specific documentation







Supplements

Confederate Scripts

Name Tags

Identification Band

Nurses Notes

Orders

Fingerstick Blood Sugar Result

CT Scan/MRI Result

Stroke Protocol







Confederate Scripts

Gina Ubaldini (Patient)

The Patient is holding the top, left side of her head with her left hand repeatedly stating "Tool! Hat!" (right facial droop and right-sided hemiplegia are present)

- If the learner does <u>not</u> provide patient education, patient will become more anxious stating "Boy! Soap!"
- If the learner does <u>not</u> verbalize National Institute of Neurological Disorders and Stroke (NINDS)
 Time Goals for first 10 minutes, patient will begin to cry making motions with her left hand mimicking a fingerstick blood sugar test, lab specimen blood draw, ECG, and order CT scan/MRI

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Intensive Care Unit/Stroke Unit Nurse

- If the learner does <u>not</u> verbalize NINDS Time Goals for first 25 minutes, the nurse from the Stroke Team will say "Let's get going here! Time is brain!"
- If the learner does <u>not</u> verbalize NINDS Time Goals for first 45 minutes, the nurse from the ICU/Stroke Team will say "We need to make a decision soon! How much time do we have?"
- If the learner does not verbalize NINDS Time Goals for first 60 minutes, the nurse from the ICU/Stroke Team will say "How much time do we have?"
- After the neurologist states "Let's prepare for fibrinolytics", the ICU/Stroke Team nurse will state to the learner (s), "You can give me report since I will be her nurse in the unit"

Neurologist

- The neurologist will perform stroke the scale assessment, obtain patient history, and establish the time of symptom onset
- The neurologist will state "The CT scan / MRI shows a left parietal intracerebral hemorrhage."
- The neurologist will state "Let's transfer her to the ICU/Stroke unit and consult a neurosurgeon STAT!"







Confederate Name Tags

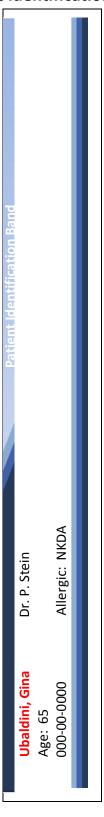
Stroke Team RN Standardized Patient Family Member Gina Ubaldini:







Patient Identification Band









Nurses Notes

Date: Today

Patient Name: Gina Ubaldini

<u>Mode of Arrival</u>: Personally owned vehicle **Accompanied by**: Family member (optional)

Insert picture of patient here

<u>Chief Complaint:</u> Sixty-five (65) year old female presented requesting a refill on her "blood pressure medication." Blood pressure was 198/101 upon arrival and 10 mg. of Labetolol was given IV 1 hour ago.

Active Problems: Hypertension

Patient information:

- General: Alert and distressed
- Weight/Height: 75kg (165lbs) 170.2cm (67in)
- Vital Signs: BP 172/90; Temp 98.3; HR 118; RR 22; O2 Sat 95%
- **Pain:** Unable to determine
- <u>Neurological</u>: Left pupil larger than the right; right facial droop; right hemiparesis; Wernicke's aphasia
- Respiratory: Clear
- Cardiac: Sinus tachycardia
- Gastrointestinal: Unremarkable Genitourinary: Unremarkable
- Musculoskeletal: Right hemiparesis
- Skin: Unremarkable
- Past Medical History: Hypertension
 Past Surgical History: Unremarkable

SCREEN FOR ABUSE/NEGLECT: N/A

Does the patient show any evidence of abuse? No

Does the patient feel safe in his/her current living arrangements? Yes

Suicidal or Homicidal Ideation in the past two weeks? No

Is the patient currently enrolled in primary care? Yes

Diagnostic Procedures Ordered:

- () X-Ray
- () Labs
- () None
- () EKG
- () Head CT without contrast
- () Other

Triage Classification: Emergency Severity Index

Patient Disposition: To be determined

Signed by: /DM/

Medications:

- Metoprolol 50 mg two times a day
- Aspirin 81 mg one time a day

Allergies:

 No known drug allergies (NKDA)







Orders

Patient Information

Ubaldini, Gina Dr. P. Stein

Age: 65

Social Security #: 000-00-0000

Allergies: NKDA
Weight: 75kg (165lbs)
Height: 170.2cm (67in)

Date/Time: Today/Now
Initiate Stroke Protocol

DO NOT WRITE IN THIS SPACE







Fingerstick Blood Sugar Result

Fingerstick Blood Sugar		
Date: Today	Gina Ubaldini	
99 mg/	'dL	







CT or MRI Result

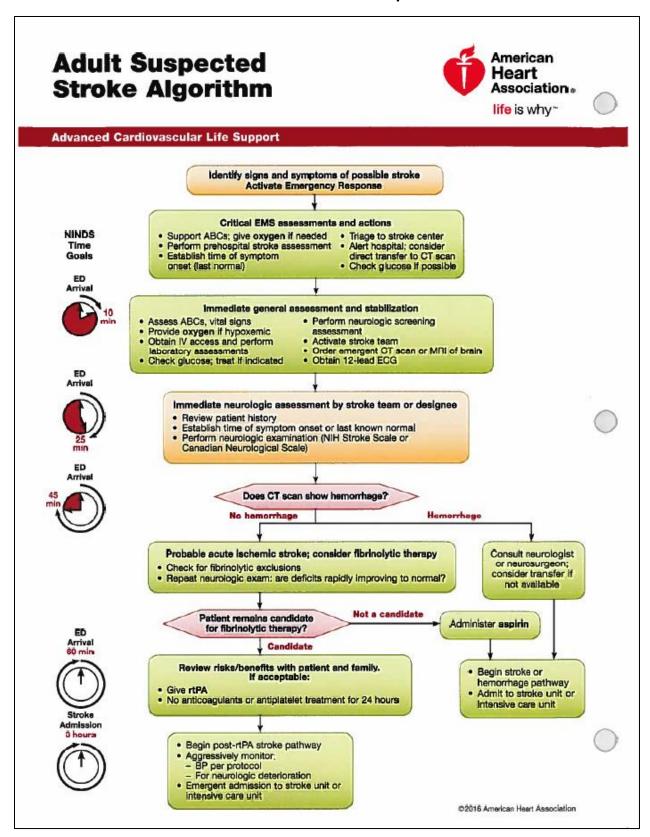
CT Scan or MRI Results		
Date: Today	Gina Ubaldini	
There is a large left parietal intracerebral hemorrhage		







Stroke Protocol Example









References

- American Heart Association. (2016). Acute stroke case. In *Advanced cardiac life* support provider manual (pp. 73-91). Dallas, TX: American Heart Association.
- Department of Veterans Affairs. (2011). *Treatment of acute ischemic stroke (AIS),* (VHA Directive 2011-038). Washington, DC: VHA Publications.
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- National Institute of Neurological Disorders and Stroke. (2003). *NIH Stroke scale*. Retrieved from http://www.ninds.nih.gov
- Singh, A. (2015). Stroke: In-hospital care pathways, Evidence Summary. *The Joanna Briggs Institute*, 1-4. Retrieved from http://ovidsp.uk.ovid.com





