



Case 1: Left Hemisphere Stroke Syndrome

Student Name:	Date of Test:
Prehospital scenario: "The patient is a 71-year-old man whose wife r She was very upset and phoned 9-1-1."	noticed he had weakness and speech difficulty.
In-hospital scenario: "The patient is a 71-year-old man who presents	s with weakness and difficulty with speech."
General notes to instructor: Speaking as the family member, provide	e answers to any questions that the patient can't

answer. If the student asks for the time of symptom onset or last known well, answer, "About 20 minutes."

Vital signs	General notes to standardized patient
Pulse: 88/min Respiratory rate: 16/min Blood pressure: 205/100 mm Hg Oxygen saturation: 98% Blood glucose: 112 mg/dL	The patient has right face, arm, and leg weakness. The patient also has a left conjugate gaze deviation. In response to questions, he struggles to find words and uses related but incorrect words (eg, "five" instead of "fifty"). You should enunciate clearly (the patient has aphasia, not dysarthria).

sNIHSS-8: Left Hemisphere					
Category	Points	Status	Check if correct	Standardized patient instructions	
1a. Level of consciousness (LOC) (Alert, drowsy, etc)	0 = 1 = 2 = 3 =	Alert Drowsy Stuporous Coma		You are awake and alert.	
2. Best gaze (Eyes open; patient follows examiner's fingers or face)	0 = 1 = 2 =	Normal Partial gaze palsy Forced deviation		Left horizontal gaze deviation: Keep your eyes deviated to the left throughout the examination (the best way to simulate this is to stare at something on the left side of the room). Do not follow the student's fingers to your right beyond the point of looking straight ahead (midline).	
3. Visual (Introduce visual stimulus/ threat to patient visual field quadrants. Cover one eye and hold up fingers in all 4 quadrants.)	0 = 1 = 2 = 3 =	No visual loss Partial hemianopsia Complete hemianopsia Bilateral hemianopsia		Right visual field deficit: You cannot see student's fingers in your right visual field (both upper and lower) from both eyes.	
4. Facial palsy (Show teeth, raise eyebrows, and squeeze eyes tightly shut.)	0 = 1 = 2 = 3 =	Normal Minor Partial Complete		Right facial droop: You elevate the left side of your smile only (the best way to simulate this is to think about not moving the right side of the face as you are smiling with the left). You are able to raise both eyebrows and squeeze both eyes shut.	
6a. Motor leg left (Elevate extremity to 30° and score drift/movement. Count to 5 out loud, and use fingers for visual cue.)	0 = 1 = 2 = 3 = 4 = NT =	No drift Drift Can't resist gravity No effort against gravity No movement Amputation, joint fusion (explain)		Keep your left leg elevated.	
6b. Motor leg right (Elevate extremity to 30° and score drift/movement. Count to 5 out loud, and use fingers for visual cue.)	0 = 1 = 2 = 3 = 4 = NT =	No drift Drift Can't resist gravity No effort against gravity No movement Amputation, joint fusion (explain)		Right leg weakness: Let your right leg fall when it is released. You can move the leg a little but not lift it up.	

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sNIHSS-8: Left Hemisphere						
Category	Points	Status	Check if correct	Standardized patient instructions		
9. Best language (Name items, describe picture, and read sentences. Don't forget glasses if they normally wear them.)	0 = 1 = 2 = 3 =	No aphasia Mild to moderate aphasia Severe aphasia Mute		Expressive aphasia: Use minimal speech and incorrect words (eg, "five" instead of "fifty") frustrated with the difficulty you are having expressing yourself.		
10. Dysarthria (Evaluate speech clarity by patient reading or repeating words on list.)	0 = 1 = 2 = NT =	Normal articulation Mild to moderate dysarthria Near to unintelligible or worse Intubated or other physical barrier		Normal articulation: You are unable to read sentences or repeat words, but you can clearly articulate similar-sounding words (eg, "trucks" for "tricks").		
	Total score (0-24): 10					
What stroke syndrome is Left hemisphere	What stroke syndrome is this consistent with? ✓ Left hemisphere ☐ Right hemisphere ☐ Brainstem ☐ Cerebellar ☐ Not a stroke syndrome					
Prehospital: In your region	Prehospital: In your region, where would you transport this patient?					
In-hospital: In your hospi	tal, where	would this patient go next?				
Instructor comments:	Instructor comments:					
Test results: Check PASS	Test results: Check PASS for passing or NR for needs remediation:					
Instructor initials: Instructor number:				Date:		

Abbreviation: sNIHSS, shortened National Institutes of Health Stroke Scale; NT, not testable.

sNIHSS-8 Case 1





Case 2: Right Hemisphere Stroke Syndrome

Student Name:	Date of Test:
Prehospital scenario: "The patient is a 72-year-old woman whose hus and phoned 9-1-1."	sband noticed she had weakness. He was very upset
In-hospital scenario: "The patient is a 72-year-old woman who present	nts with weakness."
General notes to instructor: Speaking as the family member, provide answer. If the student asks for the time of symptom onset or last know	

Vital signs	General notes to standardized patient
Pulse: 91/min Respiratory rate: 16/min Blood pressure: 178/92 mm Hg Oxygen saturation: 98% Blood glucose: 121 mg/dL	The patient has left face, arm, and leg weakness. The patient also has a right conjugate gaze deviation and neglect on the left side.

sNIHSS-8: Right Hemisphere					
Category	Points	Status	Check if correct	Standardized patient instructions	
1a. Level of consciousness (LOC) (Alert, drowsy, etc)	0 = 1 = 2 = 3 =	Alert Drowsy Stuporous Coma		You are awake and alert.	
2. Best gaze (Eyes open; patient follows examiner's fingers or face)	0 = 1 = 2 =	Normal Partial gaze palsy Forced deviation		Right horizontal gaze deviation: Keep your eyes deviated to the right throughout the examination (the best way to simulate this is to stare at something on the right side of the room). Do not follow the student's fingers to your left beyond the point of looking straight ahead (midline).	
3. Visual (Introduce visual stimulus/ threat to patient visual field quadrants. Cover one eye and hold up fingers in all 4 quadrants.)	0 = 1 = 2 = 3 =	No visual loss Partial hemianopsia Complete hemianopsia Bilateral hemianopsia		Left visual field deficit: You cannot see student's fingers in your left visual field (both upper and lower) from both eyes.	
4. Facial palsy (Show teeth, raise eyebrows, and squeeze eyes tightly shut.)	0 = 1 = 2 = 3 =	Normal Minor Partial Complete		Left facial droop: You elevate the right side of the face only (the best way to simulate this is to think about not moving the left side of the face as you are smiling with the right). You are able to elevate both eyebrows and squeeze both eyes shut.	
6a. Motor leg left (Elevate extremity to 30° and score drift/movement. Count to 5 out loud, and use fingers for visual cue.)	0 = 1 = 2 = 3 = 4 = NT =	No drift Drift Can't resist gravity No effort against gravity No movement Amputation, joint fusion (explain)		Left leg weakness: There is no movement in your left leg, and you are unaware of any deficit (neglect).	

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sNIHSS-8: Right Hemisphere						
Category	Points	Status	Check if correct			
6b. Motor leg right (Elevate extremity to 30° and score drift/movement. Count to 5 out loud, and use fingers for visual cue.)	0 = 1 = 2 = 3 = 4 = NT =	No drift Drift Can't resist gravity No effort against gravity No movement Amputation, joint fusion (explain)		Keep your right leg elevated.		
9. Best language (Name items, describe picture, and read sentences. Don't forget glasses if they normally wear them.)	0 = 1 = 2 = 3 =	No aphasia Mild to moderate aphasia Severe aphasia Mute		Say words correctly without slurring.		
10. Dysarthria (Evaluate speech clarity by patient reading or repeating words on list.)	0 = 1 = 2 = NT =	Normal articulation Mild to moderate dysarthria Near to unintelligible or worse Intubated or other physical barrier		Your speech is normal, and you articulate clearly.		
		Total score (0-24): 9				
What stroke syndrome is		hemisphere Brainstem	☐ Cere	bellar	stroke syndrome	
Prehospital: In your region	n, where	would you transport this patient?				
In-hospital: In your hospi	tal, where	would this patient go next?				
Instructor comments:						
Test results: Check PASS	Test results: Check PASS for passing or NR for needs remediation:				□NR	
Instructor initials: Instructor number: Date:						

Abbreviation: sNIHSS, shortened National Institutes of Health Stroke Scale; NT, not testable.

sNIHSS-8 Case 2



called for help."



Case 3: Brainstem Stroke Syndrome

Student Name:	Date of Test:
Prehospital scenario: "The patient is a 58-year-old man who awakens He vomited, awakening his wife. She noticed that his speech was garb	
In-hospital scenario: "The patient is a 58-year-old man admitted for a with severe dizziness and weakness. He vomited, awakening his wife."	9

General notes to instructor: Speaking as the family member, provide answers to any questions that the patient can't answer. If the student asks for the time of symptom onset or last known well, answer, "I don't know, but he was OK when he went to bed," because the patient woke up with symptoms.

Vital signs	General notes to standardized patient
Pulse: 87/min Respiratory rate: 16/min Blood pressure: 162/85 mm Hg Oxygen saturation: 98% Blood glucose: 107 mg/dL	The patient reports dizziness and nausea. The patient has crossed signs with left face weakness and right arm and leg weakness. The patient also has a left conjugate gaze deviation and dysarthria (slurring of speech).

sNIHSS-8: Brainstem					
Category	Points	Status	Check if correct	Standardized patient instructions	
1a. Level of consciousness (LOC) (Alert, drowsy, etc)	0 = 1 = 2 = 3 =	Alert Drowsy Stuporous Coma		Sleepy/drowsy: You are lethargic and not alert, but you respond to repeated verbal stimuli.	
2. Best gaze (Eyes open; patient follows examiner's fingers or face)	0 = 1 = 2 =	Normal Partial gaze palsy Forced deviation		Left horizontal gaze deviation: Keep your eyes deviated to the left throughout the examination (the best way to simulate this is to stare at something on the left side of the room). Do not follow the student's fingers to your right beyond the point of looking straight ahead (midline).	
3. Visual (Introduce visual stimulus/ threat to patient visual field quadrants. Cover one eye and hold up fingers in all 4 quadrants.)	0 = 1 = 2 = 3 =	No visual loss Partial hemianopsia Complete hemianopsia Bilateral hemianopsia		Normal: See the student's fingers in all visual fields.	
4. Facial palsy (Show teeth, raise eyebrows, and squeeze eyes tightly shut.)	0 = 1 = 2 = 3 =	Normal Minor Partial Complete		Left facial droop: Elevate the right side of the smile only (the best way to simulate this is to think about not moving the left side of your face as you are smiling with the right).	
6a. Motor leg left (Elevate extremity to 30° and score drift/movement. Count to 5 out loud, and use fingers for visual cue.)	0 = 1 = 2 = 3 = 4 = NT =	No drift Drift Can't resist gravity No effort against gravity No movement Amputation, joint fusion (explain)		Keep left leg raised.	

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sNIHSS-8: Brainstem						
Category	Points	Status	Check if correct	Standardized patient instructions		
6b. Motor leg right (Elevate extremity to 30° and score drift/movement. Count to 5 out loud, and use fingers for visual cue.)	0 = 1 = 2 = 3 = 4 = NT =	No drift Drift Can't resist gravity No effort against gravity No movement Amputation, joint fusion (explain)		Right leg weakness: Let your right leg drop when it's released. Move the leg a little but don't lift it up.		
9. Best language (Name items, describe picture, and read sentences. Don't forget glasses if they normally wear them.)	0 = 1 = 2 = 3 =	No aphasia Mild to moderate aphasia Severe aphasia Mute		Dysarthria: Say words correctly but with slurred speech so that they are difficult to understand. The best way to simulate slurred speech is to try not to move your tongue as you are speaking and repeating words.		
10. Dysarthria (Evaluate speech clarity by patient reading or repeating words on list.)	0 = 1 = 2 = NT =	Normal articulation Mild to moderate dysarthria Near to unintelligible or worse Intubated or other physical barrier		Dysarthria: Say words with slurred speech so that they are difficult to understand. The best way to simulate slurred speech is to try not to move your tongue as you are speaking and repeating words.		
		Total score (0-24): 9				
What stroke syndrome is	_	hemisphere Brainstem	☐ Cere	bellar	stroke syndrome	
Prehospital: In your regio	n, where	would you transport this patient?				
In-hospital: In your hospi	tal, where	would this patient go next?				
Instructor comments:						
Test results: Check PASS	Test results: Check PASS for passing or NR for needs remediation:					
Instructor initials: Instructor number: Date:						

Abbreviation: sNIHSS, shortened National Institutes of Health Stroke Scale; NT, not testable.

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