



# NIH Stroke Scale

## Instructions

Administer stroke scale items in the order listed. Record performance in each category after each subscale exam. Do not go back and change scores. Follow directions provided for each exam technique. Scores should reflect what the patient does, not what the clinician thinks the patient can do. The clinician should record answers while administering the exam and work quickly. Except where indicated, the patient should not be coached (i.e., repeated requests to patient to make a special effort).

# 1a

## Instructions

### Level of Consciousness:

The investigator must choose a response if a full evaluation is prevented by such obstacles as an endotracheal tube, language barrier, orotracheal trauma/bandages. A 3 is scored only if the patient makes no movement (other than reflexive posturing) in response to noxious stimulation.

## Level of Consciousness

0

### Scale Definition

**Alert;** keenly responsive.

1

**Not alert;** but arousable by minor stimulation to obey, answer, or respond.

2

**Not alert;** requires repeated stimulation to attend, or is obtunded and requires strong or painful stimulation to make movements (not stereotyped).

3

Responds only with reflex motor or autonomic effects, or totally unresponsive, flaccid, and areflexic.

Score

## Level of Consciousness

### Instructions

#### LOC Questions:

The patient is asked the month and his/her age. The answer must be correct — there is no partial credit for being close. Aphasic and stuporous patients who do not comprehend the questions will score 2. Patients unable to speak because of endotracheal intubation, orotracheal trauma, severe dysarthria from any cause, language barrier, or any other problem not secondary to aphasia are given a 1. It is important that only the initial answer be graded and that the examiner not “help” the patient with verbal or non-verbal cues.

0

### Scale Definition

**Answers** both questions correctly.

1

**Answers** one question correctly.

2

**Answers** neither question correctly.

Score

# 1b

# 1c

### Instructions

#### LOC Commands:

The patient is asked to open and close the eyes and then to grip and release the non-paretic hand. Substitute another one-step command if the hands cannot be used. Credit is given if an unequivocal attempt is made but not completed due to weakness. If the patient does not respond to command, the task should be demonstrated to him or her (pantomime), and the result scored (i.e., follows none, one, or two commands). Patients with trauma, amputation, or other physical impediments should be given suitable one-step commands. Only the first attempt is scored.

0

### Scale Definition

**Performs** both tasks correctly.

1

**Performs** one task correctly.

2

**Performs** neither task correctly.

Score

## Level of Consciousness

## Best Gaze

### Instructions

#### Best Gaze:

Only horizontal eye movements will be tested. Voluntary or reflexive (oculocephalic) eye movements will be scored, but caloric testing is not done. If the patient has a conjugate deviation of the eyes that can be overcome by voluntary or reflexive activity, the score will be 1. If a patient has an isolated peripheral nerve palsy (CN III, IV, or VI), score a 1. Gaze is testable in all aphasic patients. Patients with ocular trauma, bandages, pre-existing blindness, or other disorder of visual acuity or fields should be tested with reflexive movements, and a choice made by the investigator. Establishing eye contact and then moving about the patient from side to side will occasionally clarify the presence of a partial gaze palsy.

0

### Scale Definition

**Normal.**

1

**Partial gaze palsy;** gaze is abnormal in one or both eyes, but forced deviation or total gaze paresis is not present.

2

**Forced deviation,** or total gaze paresis is not overcome by the oculocephalic maneuver.

Score

2

3

### Instructions

#### Visual:

Visual fields (upper and lower quadrants) are tested by confrontation, using finger counting or visual threat, as appropriate. Patients may be encouraged, but if they look at the side of the moving fingers appropriately, this can be scored as normal. If there is unilateral blindness or enucleation, visual fields in the remaining eye are scored. Score 1 only if a clear-cut asymmetry, including quadrantanopia, is found. If patient is blind from any cause, score 3. Double simultaneous stimulation is performed at this point. If there is extinction, patient receives a 1, and the results are used to respond to item 11.

0

### Scale Definition

**No visual loss.**

1

**Partial hemianopia.**

2

**Complete hemianopia.**

3

**Bilateral hemianopia** (blind including cortical blindness).

Score

## Visual

## Facial Palsy

### Instructions

#### Facial Palsy:

Ask — or use pantomime to encourage — the patient to show teeth or raise eyebrows and close eyes. Score symmetry of grimace in response to noxious stimuli in the poorly responsive or non-comprehending patient. If facial trauma/bandages, orotracheal tube, tape, or other physical barriers obscure the face, these should be removed to the extent possible.

0

### Scale Definition

**Normal** symmetrical movements.

1

**Minor paralysis** (flattened nasolabial fold, asymmetry on smiling).

2

**Partial paralysis** (total or near-total paralysis of lower face).

3

**Complete paralysis** of one or both sides (absence of facial movement in the upper and lower face).

Score

4

5

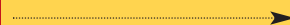
### Instructions

#### Motor Arm:

The limb is placed in the appropriate position: extend the arms (palms down) 90 degrees (if sitting) or 45 degrees (if supine). Drift is scored if the arm falls before 10 seconds. The aphasic patient is encouraged using urgency in the voice and pantomime, but not noxious stimulation. Each limb is tested in turn, beginning with the non-paretic arm. Only in the case of amputation or joint fusion at the shoulder, the examiner should record the score as untestable (UN) and clearly write the explanation for this choice.

5<sup>a</sup>  
5<sup>b</sup>

Left Arm



Score

Right Arm



Score

## Motor Arm

### Scale Definition

**No drift;** limb holds 90 (or 45) degrees for full 10 seconds.

**Drift;** limb holds 90 (or 45) degrees, but drifts down before full 10 seconds; does not hit bed or other support.

**Some effort against gravity;** limb cannot get to or maintain (if cued) 90 (or 45) degrees, drifts down to bed, but has some effort against gravity.

**No effort against gravity;** limb falls.

**No movement.**

**Amputation** or joint fusion, explain:

0

1

2

3

4

UN

## Motor Leg

### Instructions

#### Motor Leg:

The limb is placed in the appropriate position: hold the leg at 30 degrees (always tested supine). Drift is scored if the leg falls before 5 seconds. The aphasic patient is encouraged using urgency in the voice and pantomime but not noxious stimulation. Each limb is tested in turn, beginning with the non-paretic leg. Only in the case of amputation or joint fusion at the hip, the examiner should record the score as untestable (UN) and clearly write the explanation for this choice.

6<sup>a</sup>  
6<sup>b</sup>

Left Leg

Right Leg

Score

Score

6

### Scale Definition

**No drift;** leg holds 30-degree position for full 5 seconds.

**Drift;** leg falls by the end of the 5-second period but does not hit the bed.

**Some effort against gravity;** leg falls to bed by 5 seconds but has some effort against gravity.

**No effort against gravity;** leg falls to bed immediately.

**No movement.**

**Amputation** or joint fusion, explain:

0  
1  
2  
3  
4  
UN

7

### Instructions

#### Limb Ataxia:

This item is aimed at finding evidence of a unilateral cerebellar lesion. Test with eyes open. In case of visual defect, ensure testing is done in intact visual field. The finger-nose-finger and heel-shin tests are performed on both sides, and ataxia is scored only if present out of proportion to weakness. Ataxia is absent in the patient who cannot understand or is paralyzed. Only in the case of amputation or joint fusion, the examiner should record the score as untestable (UN) and clearly write the explanation for this choice. In case of blindness, test by having the patient touch nose from extended arm position.

## Limb Ataxia

### Scale Definition

**Absent.**

**Present in one limb.**

**Present in two limbs.**

**Amputation** or joint fusion, explain:

0  
1  
2  
UN

Score



## Dysarthria

### Instructions

#### Dysarthria:

If patient is thought to be normal, an adequate sample of speech must be obtained by asking patient to read or repeat words from the attached list. If the patient has severe aphasia, the clarity of articulation of spontaneous speech can be rated. Only if the patient is intubated or has other physical barriers to producing speech, the examiner should record the score as untestable (UN) and clearly write the explanation for this choice. Do not tell the patient why he/she is being tested.

0

### Scale Definition

**Normal.**

1

#### Mild-to-moderate dysarthria;

patient slurs at least some words and, at worst, can be understood with some difficulty.

2

**Severe dysarthria;** patient's speech is so slurred as to be unintelligible in the absence of or out of proportion to any dysphasia, or is mute/anarthric.

UN

**Intubated** or other physical barrier, explain:

Score

10

11

### Instructions

#### Extinction and Inattention (formerly Neglect):

Sufficient information to identify neglect may be obtained during the prior testing. If the patient has a severe visual loss preventing visual double simultaneous stimulation, and the cutaneous stimuli are normal, the score is normal. If the patient has aphasia but does appear to attend to both sides, the score is normal. The presence of visual spatial neglect or anosagnosia may also be taken as evidence of abnormality. Since the abnormality is scored only if present, the item is never untestable.

0

### Scale Definition

**No abnormality.**

1

**Visual, tactile, auditory, spatial, or personal inattention,** or extinction to bilateral simultaneous stimulation in one of the sensory modalities.

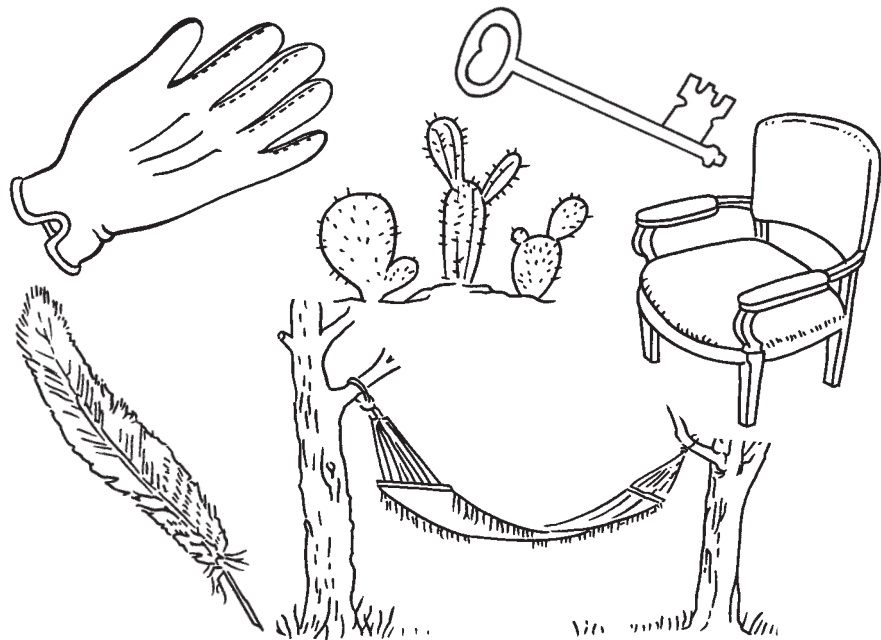
2

**Profound hemi-inattention or extinction to more than one modality;** does not recognize own hand or orients to only one side of space.

Score

## Extinction and Inattention





**You know how.**

**Down to earth.**

**I got home from work.**

**Near the table in the dining room.**

**They heard him speak on the  
radio last night.**

**MAMA**

**TIP – TOP**

**FIFTY – FIFTY**

**THANKS**

**HUCKLEBERRY**

**BASEBALL PLAYER**

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