NIH Stroke Scale		E The NINDS tPA S	Stroke Trial No			
			Pt. Date of Birth	/	/	
		Hospita	ıl	()
			Date of Exam	/	/	
Interval:	1 🗌 Baseline	$2 \square 2$ hours post treatment	$3 \square 24$ hours post onset	of sympton	ns 6 minut	tes
	4 🗌 7–10 days	$5 \square 3$ months	6 🗌 Other		()
Time:	: 1[am 2 pm				

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).

IF ANY ITEM IS LEFT UNTESTED, A DETAILED EXPLANATION MUST BE CLEARLY WRITTEN ON THE FORM. ALL UNTESTED ITEMS WILL BE REVIEWED BY THE MEDICAL MONITOR, AND DISCUSSED WITH THE EXAMINER BY TELEPHONE.

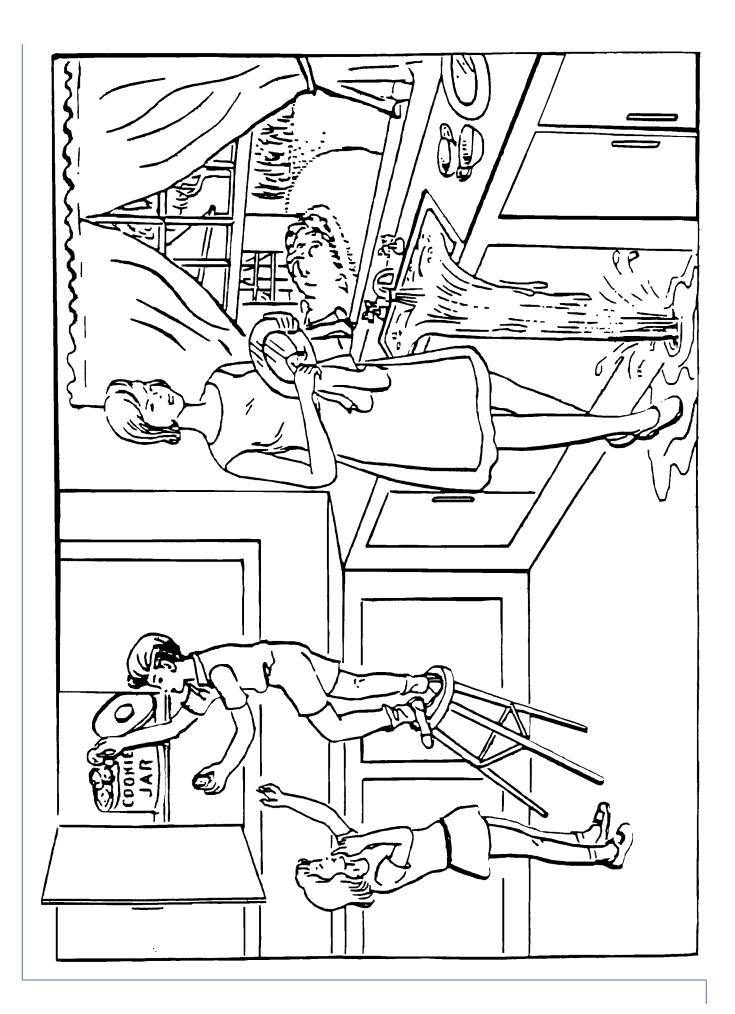
Instructions	Scale Definition	Score
1a. Level of Consciousness: The investigator must choose a response, even if a full evaluation is prevented by such obstacles as an endotracheal tube, language barrier, orotracheal trauma/bandages. A 3 is scored only if the patient makes no movement (other than reflexive posturing) in response to noxious stimulation.	 0 = 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, areflexic. 	
1b. 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 ques- tions 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 = Answers both questions correctly. 1 = Answers one question correctly. 2 = Answers neither question correctly. 	
1c. LOC Commands: The patient is asked to open and close the eyes and then to grip and release the	0 = Performs both tasks correctly	
non-paretic hand. Substitute another one-step com- mand if the hands cannot be used. Credit is given if	1 = Performs one task correctly	
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 them (pantomime) and score the result (i.e., follows none, one or two commands). Patients with trauma, ampu- tation, or other physical impediments should be given suitable one-step commands. Only the first attempt is scored.	2 = Performs neither task correctly	

NIH Stroke Scale The NIN	IDS tPA Stroke Trial No	
	Pt. Date of Birth / /	/
	Hospital ()
	Date of Exam / /	_ /
Interval: $1 \square$ Baseline $2 \square 2$ hours post tre		
$4 \square 7-10 \text{ days}$ $5 \square 3 \text{ months}$	6 🗌 Other ()
Instructions	Scale Definition	Score
2. 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 paresis (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 = Normal 1 = Partial gaze palsy. This score is given when gaze is abnormal in one or both eyes, but where forced deviation or total gaze paresis are not present. 2 = Forced deviation, or total gaze paresis not overcome by the oculocephalic maneuver. 	
3. Visual: Visual fields (upper and lower quadrants) are tested by confrontation, using finger counting or visual threat as appropriate. Patient must 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 answer question 11.	 0 = No visual loss 1 = Partial hemianopia 2 = Complete hemianopia 3 = Bilateral hemianopia (blind including cortical blindness) 	
4. 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 barrier obscures the face, these should be removed to the extent possible.	 0 = Normal symmetrical movement 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) 	

NIH Stroke Scale The NII	NDS tPA Stroke Trial No	
	Pt. Date of Birth / /	_ /
	Hospital ((
	Date of Exam / /	_/
Interval: $1 \square$ Baseline $2 \square 2$ hours post tr	eatment $3 \square 24$ hours post onset of symptoms 6	minutes
$4 \square 7-10 \text{ days} 5 \square 3 \text{ months}$	6 🗌 Other (
Instructions	Casla Definition	Case
	Scale Definition	Score
5 & 6. Motor Arm and Leg: The limb is placed in the appropriate position: extend the arms (palms down) 90 degrees (if sitting) or 45 degrees (if supine) and the leg 30 degrees (always tested supine). Drift is scored if the arm falls before 10 seconds or the leg 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 arm. Only in the case of amputation or joint fusion at the shoulder or hip may the score be """ and the examiner must clearly write the explanation of scoring as a "9."	 0 = No drift, limb holds 90 (or 45) degrees for full 10 seconds. 1 = Drift, Limb holds 90 (or 45) degrees, but drifts down before full 10 seconds; does not hit bed or other support. 2 = 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. 3 = No effort against gravity, limb falls. 4 = No movement 9 = Amputation, joint fusion explain: 	
-		
	5b. Right Arm	
	 0 = No drift, leg holds 30 degrees position for full 5 seconds. 1 = Drift, leg falls by the end of the 5-second period but does not hit bed. 2 = Some effort against gravity; leg falls to bed by 5 seconds, but has some effort against gravity. 3 = No effort against gravity, leg falls to bed immediately. 4 = No movement 9 = Amputation, joint fusion explain: 	
	6a. Left Leg	
	6b. Right Leg	

NIH Stroke Scale The N	NINDS tPA S	troke Trial No	-	
		Pt. Date of Birth		
	Hospita	1		
	•	Date of Exam		
Interval: $1 \square$ Baseline $2 \square 2$ hours post	treatment	$3 \square 24$ hours post onset of		
$4 \prod 7-10 \text{ days}$ $5 \prod 3 \text{ months}$		6 🗌 Other		
Instructions	Scale De	efinition		Score
7. Limb Ataxia: This item is aimed at finding evidence of a unilateral cerebellar lesion. Test with eye open. In case of visual defect, ensure testing is domin in intact visual field. The finger-nose-finger and heel-shin tests are performed on both sides, and ata ia is scored only if present out of proportion to wear ness. Ataxia is absent in the patient who cannot understand or is paralyzed. Only in the case of amputation or joint fusion may the item be scored "9," and the examiner must clearly write the explanation for not scoring. In case of blindness, test by touching nose from extended arm position.	es $1 = Pre$ 2 = Pre If present Right and 9 = amp Left arm 9 = amp Right leg 9 = amp Left leg	sent in one limb sent in two limbs at, is ataxia in m 1 = Yes 2 = No putation or joint fusion, explain a 1 = Yes 2 = No putation or joint fusion, explain g 1 = Yes 2 = No putation or joint fusion, explain 1 = Yes 2 = No	n	
8. Sensory: Sensation or grimace to pinprick when tested, or withdrawal from noxious stimulus in the obtunded or aphasic patient. Only sensory loss attriuted to stroke is scored as abnormal and the examiner should test as many body areas [arms (not hands legs, trunk, face] as needed to accurately check for hemisensory loss. A score of 2, "severe or total," should only be given when a severe or total loss of sensation can be clearly demonstrated. Stuporous a aphasic patients will therefore probably score 1 or 0. The patient with brain stem stroke who has bilatera loss of sensation is scored 2. If the patient does not respond and is quadriplegic, score 2. Patients in con (item 1a=3) are arbitrarily given a 2 on this item.	0 = Not $1 = Mil$ $price 1 = Mil price 1 = 0 1 = 0 1 = 0$	putation or joint fusion, explain rmal; no sensory loss. Id to moderate sensory loss; pa ck is less sharp or is dull on the e; or there is a loss of superfici prick but patient is aware he/sh ched. vere to total sensory loss; patien being touched in the face, arm,	tient feels pin- e affected al pain with ne is being nt is not aware	
9. Best Language: A great deal of information abo comprehension will be obtained during the precedin sections of the examination. The patient is asked to describe what is happening in the attached picture, name the items on the attached naming sheet, and t read from the attached list of sentences. Comprehension is judged from responses here as well as to all of the commands in the preceding ger eral neurological exam. If visual loss interferes with the tests, ask the patient to identify objects placed i the hand, repeat, and produce speech. The intubated patient should be asked to write. The patient in com (question 1a=3) will arbitrarily score 3 on this item The examiner must choose a score in the patient wi stupor or limited cooperation but a score of 3 shoul be used only if the patient is mute and follows no one-step commands.	ng $1 = Mil$ enc to can to can to sior how rial n- satis h tify n $2 = Sevd menna tiont, matith canld iden3 = Mu$	aphasia, normal d to moderate aphasia; some obvi y or facility of comprehension, w t limitation on ideas expressed or n. Reduction of speech and/or com- vever, makes conversation about p difficult or impossible. For exam- on about provided materials, exar- picture or naming card from pati- vere aphasia; all communication is nary expression; great need for in ing, and guessing by the listener. tion that can be exchanged is limi- ties burden of communication. Ex- ntify materials provided from pati- ite, global aphasia; no usable sp litory comprehension.	ithout signifi- form of expres- nprehension, provided mate- ple, in conver- niner can iden- ent's response. s through frag- iference, ques- Range of infor- ted; listener caminer cannot ent response.	

	Stroke Sca	E The NIN	DS tPA	A Stroke Trial No	
				Pt. Date of Birth / /	_/
			Hosp	pital ((
				Date of Exam / /	_ /
nterval:	1 🗌 Baseline	$2 \square 2$ hours post tre	atment	$3 \square 24$ hours post onset of symptoms 6	5 minute
	4 🗌 7–10 days	$5 \square 3$ months		6 🗌 Other (
Instructi	ons		Scale	Definition	Score
adequate ing patien list. If the articulation if the pat er to proof and the e	sample of speech mu nt to read or repeat w e patient has severe a on of spontaneous sp ient is intubated or ha ducing speech may th xaminer must clearly coring. Do not tell the	hought to be normal, an ist be obtained by ask- ords from the attached phasia, the clarity of eech can be rated. Only as other physical barri- ie item be scored "9," write an explanation e patient why he/she is	$1 = \frac{1}{2}$	Normal Mild to moderate; patient slurs at least some words and, at worst, can be understood with some difficulty. Severe; patient's speech is so slurred as to be unintelligible in the absence of or out of pro- portion to any dysphasia, or is mute/anarthric. Intubated or other physical barrier, explain	
Sufficien obtained severe vi neous sti: normal, t but does normal. T anosagno mality. S	t information to ident during the prior testin sual loss preventing v mulation, and the cut he score is normal. If appear to attend to be The presence of visua	ng. If the patient has a visual double simulta- aneous stimuli are the patient has aphasia oth sides, the score is l spatial neglect or n as evidence of abnor- is scored only if	$1 = \frac{1}{2}$	No abnormality. Visual, tactile, auditory, spatial, or personal inat- tention or extinction to bilateral simultaneous stimulation in one of the sensory modalities. Profound hemi-inattention or hemi-inattention to more than one modality. Does not recognize own hand or orients to only one side of space.	
A. Distal held up a	Motor Function: T	the NIH Stroke Scale sco he patient's hand is examiner and patient is s as much as possible.	0 = 1 1 = 1	Normal (No flexion after 5 seconds) At least some extension after 5 seconds, but not fully extended. Any movement of the fingers	
If the pat examiner observes Only the	ient can't or doesn't o places the fingers in for any flexion move patient's first attemp	extend the fingers, the full extension and ement for 5 seconds. ts are graded.	2 =	which is not upon command is not scored. No voluntary extension after 5 seconds. Movements of the fingers at another time are not scored.	
Repetition of the instructions or of the testing is		a. Le	ft Arm		
prohibite			h Di	ght Arm	



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**

Barthel Index

(Full credit is not given for an activity if the patient needs even minimal help/supervision.) A score of 0 is given when patient cannot meet criteria as defined.

1. Feeding

10	Independent; feeds self from tray or table; can put on assistive device if needed; accomplishes
	feeding in reasonable time.

- 5 Assistance necessary with cutting food, etc.
- $0 \square$ Cannot meet criteria
- 2. Moving (from wheelchair to bed and return)
 - 15 🗌 Independent in all phases of this activity.
 - 10 🗌 Minimal help needed or patient needs to be reminded or supervised for safety of 1 or more parts of this activity.
 - 5 Detient can come to sitting position without help of second person but needs to be lifted out of bed and assisted with transfers.
 - 0 🗌 Cannot meet criteria
- 3. Personal Toilet
 - 5 Can wash hands, face; combs hair, cleans teeth. Can shave (males) or apply makeup (females) without assistance; females need not braid or style hair.
 - 0 🗌 Cannot meet criteria
- 4. Getting On and Off Toilet
 - 10 Able to get on and off toilet, fastens/unfastens clothes, can use toilet paper without assistance. May use wall bar or other support if needed; if bedpan necessary patient can place it on chair, empty, and clean it.
 - 5 🗌 Needs help because of imbalance or other problems with clothes or toilet paper.
 - 0 \Box Cannot meet criteria.

5. Bathing Self

- 5 🗌 May use bath tub, shower or sponge bath. Patient must be able to perform all functions without another person being present.
- 0 \Box Cannot meet criteria.

6. Walking on Level Surface

- 15 Patient can walk at least 50 yards without assistance or supervision; may use braces, protheses, crutches, canes, or walkerette but not a rolling walker. Must be able to lock/unlock braces, assume standing or seated position, get mechanical aids into position for use and dispose of them when seated (putting on and off braces should be scored under dressing).
- 10 🗌 Assistance needed to perform above activities, but can walk 50 yards with little help.
- 0 \Box Cannot meet criteria.
- 7. Propelling a Wheelchair

Do not score this item if patient gets score for walking.

- 5 Detient cannot ambulate but can propel wheelchair independently; can go around corners, turn around, maneuver chair to table, bed, toilet, etc. Must be able to push chair 50 yards.
- $0 \square$ Cannot meet criteria.

Barthel Index (Continued)

- 8. Ascending and Descending Stairs
 - 10 Able to go up and down flight of stairs safely without supervision using canes, handrails, or crutches when needed and can carry these items as ascending/descending.
 - 5 \square Needs help with or supervision of any of the above items.
 - 0 🗌 Cannot meet criteria
- 9. Dressing/Undressing
 - 10 Able to put on, fasten and remove all clothing; ties shoelaces unless necessary adaptions used. Activity includes fastening braces and corsets when prescribed; suspenders, loafer shoes and dresses opening in the front may be used when necessary.
 - 5 Needs help putting on, fastening, or removing clothing; must accomplish at least half of task alone within reasonable time; women need not be scored on use of brassiere or girdle unless prescribed.
 - $0 \square$ Cannot meet criteria.
- 10. Continence of Bowels
 - 10 Able to control bowels and have no accidents. Can use a suppository or take an enema when necessary (as for spinal cord injury patients who have had bowel training).
 - 5 \square Needs help in using a suppository or taking an enema or has occasional accidents.
 - $0 \square$ Cannot meet criteria.

11. Controlling Bladder

- 10 Able to control bladder day and night. Spinal injury patients must be able to put on external devices and leg bags independently, clean and empty bag, and must stay dry day and night.
- 5 🗌 Occasional accidents occur, cannot wait for bed pan, does not get to toilet in time or needs help with external device.
- 0 \Box Cannot meet criteria.

Modified Rankin Scale

- 0 \Box No symptoms at all.
- 1 🗌 No significant disability despite symptoms; able to carry out all usual duties and activities.
- 2 Slight disability; unable to carry out all previous activities but able to look after own affairs without assistance.
- 4 Moderate severe disability; unable to walk without assistance and unable to attend to own bodily needs without assistance.
- 5 🔲 Severe disability; bedridden, incontinent, and requiring constant nursing care and attention.

Glasgow Outcome Scale (GOS)

- 1 Good recovery patient can lead a full and independent life with or without minimal neurological deficit.
- 3 🔲 Severely disabled. Patient conscious but totally dependent on others to get through daily activities.
- 4 🗌 Vegetative survival.
- 5 🗌 Dead.

Hunt and Hess Classification of Subarachnoid Hemorrhage

Classification Symptoms

- Grade I Asymptomatic of minimal headache and slight nuchal rigidity.
- Grade II Moderate to severe headache, nuchal rigidity, no neurological deficit other than cranial nerve palsy.
- Grade III Drowsiness, confusion, or mild focal deficit.
- Grade IV Stupor, moderate to severe hemiparesis, possible early decerebrate ridigity and vegetative disturbance.
- Grade V Deep coma, decerebrate ridigity, moribund appearance.

Please elevate patient to at screen to allow the patientPlease circle the appropriate	to achieve the best scre			
Present Feeding Status:	NG NI PE	G NPO		REV 3/98
Patient receiving tube feedi	ngs prior to dysphagi	a screen? yes no		
Current Tube Feeding:				
Date started:	Time started:			
Hx. of Aspiration:	No	Yes	Unkn	own
Controls Secretions:	Normal	Drools/Coughs	Requ	ires suctioning
Consciousness:	Alert	Lethargic	Obtu	nded
Voice Quality:			Wet/g	gurgle *
Follows Commands:	Consistent	Impaired	Impa	ired/poor attention *
Spontaneous Cough:	Strong	Weak	Abse	nt
Facial Weakness:	Normal	Flattened nasolabial fold		teral weakness scapes from closed lips)
Facial Sensation:	Normal	V1, V2, V3		teral facial esia sensory loss
Soft Palate Elevation:	Symmetrical	Asymmetrical	No el	evation, unable to test *
Tongue Strength:	Moves tongue circumorally	Tongue deviates to one side	No m	ovement *
Lip Closure:	Normal	Weak	Not a	chieved
Swallow:	Within 2 sec.	Delayed	No sv	wallow *
Speech Therapy Consult:	Not required	Consult required		
* Categories: Speech Therap Nurse/Respiratory Therapist		C C		
Date: Time:				
Speech Pathologist if consult	required: =		Date:	Time: