Site ID Patient ID
PRCA NEUROLOGICAL OUTCOME MEASURE
(CHILDREN AGED 3 YEARS AND OLDER)
IDENTIFYING DATA
Date of assessment (yyyy-mm-dd):
Age of child: vr mo Location of Assessment: □ In-patient □ Out-patient Clinic

INSTRUCTIONS: Check appropriate column for each item: Normal, Abnormal, or Not Done (includes items that are not age appropriate). Guidelines for Scoring are given as suggestions, and need not be viewed as absolute criteria for scoring. Assess and score severity of abnormality (1- mild; 2- moderate; 3-severe), based on your best clinical judgment.

Neurologist Name (print): \_\_\_\_\_

### **LEVEL OF CONSCIOUSNESS**

TEST ITEM	Normal	Abnormal	Notes
Level Of Consciousness			

#### **BEHAVIOR, MENTAL STATUS**

TEST ITEMS	Normal	Abnormal	Not Done	Guidelines for Scoring
Activity Level				Abnormal: Excessively quiet, shy, removed, hyperactive, fidgety,
•				gets up, uncontrollable, spills, into everything
Interpersonal Interaction				Abnormal: Clings to parent, aloof, withdrawn, gaze avoidance, punches
Cooperation				Age-dependent
Attention				Abnormal: Short, distractible, flits, ignores, preoccupied,
				disorganized, inattentive
Affect				Abnormal: Extremely shy, pouts or clings excessively or cries
				a lot for no reason, angry, totally flat, gaze avoidance, hyperactive,
				no sustained attention
Serial Numbers				Up to 48 mos: Ask: "Count as high as you can"
				Age 4-8 years: Ask: "Start at 20 count backwards"
				Age 8+-13 yrs: Ask: "Start at 50 count backwards by 3's"
				Age 13 yrs & up: Ask: "Start at 100 count backwards by 7's"
Drawing				Ask child to draw circle, triangle, and cross, bisect vertical and horizontal
· ·				lines, and draw clock on attached page (ask progressively more difficult
				tasks, based on performance)
Right/Left				Test in children older than 6 years age:
Orientation				"Show me your left hand" and "Show me your right hand"
Memory,				Instructions: "I need you to memorize 3 words and will ask you to repea
Delayed Recall				them in 5 minutes. The words are "Chair", "Candle", "Dog"
				"Repeat them now to see if you have them."

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# **LANGUAGE**

TEST ITEMS	Normal	Abnormal	Not Done	Guidelines for Scoring
Speech Development				Describe: no words, 1-2 words, many single words, phrases,
				Age-appropriate sentences etc
Repetition				"Stop"; "Stop and Go"; "If it rains we play inside"; "No ifs ands or buts"
Naming				Show patient attached sheet with pictures: skateboard, pencil, shirt, bicycle, and clock. Children ≥6 yrs. ask to identify: pencil, eraser, bicycle seat, buttons
Comprehension				Simple Tasks: a. Close your eyes b. Touch your nose c. Point to the floor and then ceiling Complex 3 Step Command: ask child to listen to the complete instruction, remember it, then do all 3 activities together when prompted: "Blink twice, stick out your tongue, then touch your finger to your nose"
Letter Recognition / Reading				Test age 5 yrs. & up Ask patient to identify letters A, B, H
Writing				Ask patient to print first name (age 5-7) first and last name (age 8-9) or write first and last name in cursive
Comments:	•			

#### **CRANIAL NERVES**

					ANIAL NERVES			
TEST ITEMS	1 =	Normal	Abnormal	Not Done	Guidelines for Scoring and Notes (Describe Abnormalities)			
Visual Fields	Right				Facing patient at 2 – 3 ft encourage to stare at your eyes and tell			
	Left				when they see object come into view from side (or note gaze shifting toward object)			
Pupillary Light Reflex	Right				Direct and Consensual			
	Left							
Fundoscopy	Right				Note Abnormalities:			
	Left							
Ocular Motility	Right				Move pen or red object or light smoothly from right to left and back testing full range. Watch for nystagmus or dysconjugate eye			
	Left				movements			
Facial Sensation	Right				Touch each side with light touch and cold object asking if child ca			
	Left				feel or for older, 'is it the same on both sides' comparing forehead, cheek and chin R / L			
Facial Movements	Right				Ask patient to smile, count to 10 watching mouth symmetry			
	Left				Maximal eye closure strength "Squeeze eyes shut as tightly as you can"			
Hearing	Right				Finger rub for infants or whisper at 2-3 feet away.			
	Left				For older have child repeat letters/numbers			
Swallow	1							
Palate and gag	Right				Observe during open mouth crying or Demonstrate with tongue			
	Left				protruded 'Say 'ahhhhh." Listen to voice quality			
Trapezius Strength	Right				Test Shoulder Shrug			
-	Left							
Tongue Movements	Right							
Side-To-Side	Left							

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### **MOTOR EXAM**

				PO		INVOLUNTARY MOVEMENTS*		
		Normal	Abnormal	Not Tested	Comments	1	Normal (None)	Abnormal (Present)
Neck/Trunk Muscles								
Right Arm	Proximal							
	Distal							
Left Arm	Proximal							
	Distal							
Right Leg	Proximal							
	Distal							
Left Leg	Proximal							
	Distal							

\*Type of Involuntary Movements Seen

Check all that are present

TYPE	Details
Tremor	
Myoclonus	
Choreoathetosis	
Dystonic Posturing	
Tics	

### **TENDON REFLEXES**

TEST ITEMS		Normal	Abnormal	Not Done	Comments
Biceps	Left				
•	Right				
Brachioradialis	Left				
	Right				
Triceps	Left				
	Right				
Quadriceps	Left				
	Right				
Ankle Jerk	Left				
	Right				
Babinski	Left				
	Right				
Elicited ankle clonus	Left				
	Right				

			FINE MO	TOR COORDI	NATION
TEST ITEMS		Normal	Abnormal	Not Done	Guidelines for Scoring
Pincer Grasp	Left				Encourage to pick up small 2-3 mm. ball of rolled up pape
	Right				
Rapid Sequential	Left				Demonstrate: thumb touches tip of individual fingers
Finger Movements	Right				back and forth 5 times "As fast as you can"
Rapid Index Finger Tap	er Tap Left Demonstrate: seated, finger taps table	Demonstrate: seated, finger taps table top or own thigh			
	Right				X 20 times, "As fast as you can"
Finger To Nose Testing	Left				
	Right				
Heel To Shin Testing	Left				
	Right				
Rapid Foot Tap	Left				Demonstrate: feet flat on floor, foot taps floor X 20
	Right				"As fast as you can"
Sitting/ Standing Balance					
Comments:	•		•	•	

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## **SENSORY**

Right Pin Prick Or Cold Sensation Proprioception Left Right Proprioception Left Right Graphesthesia/ Right Test >6 yrs: Eyes closed, draw number in palm & foot	TEST ITEMS		Normal	Abnormal	Not Done	Guidelines for Scoring	
Pin Prick Or Cold Sensation       Left       Use cool metal from tuning fork or reflex hammer         Proprioception       Left       Great Toe up and down with eyes closed (ask: "up or down?")         Graphesthesia/       Left       Test >6 yrs: Eyes closed, draw number in palm & foot	Light Touch	Left				Use cotton swab and ask: " Is it the same on both sides?	
Sensation     Right       Proprioception     Left     Great Toe up and down with eyes closed ( ask: "up or down?")       Graphesthesia/     Left     Test >6 yrs: Eyes closed, draw number in palm & foot		Right					
Proprioception  Left  Great Toe up and down with eyes closed ( ask: "up or down?")  Graphesthesia/  Left  Test >6 yrs: Eyes closed, draw number in palm & foot	Pin Prick Or Cold	Left				Use cool metal from tuning fork or reflex hammer	
Right down?")  Graphesthesia/ Left Test >6 yrs: Eyes closed, draw number in palm & foot	Sensation	Right					
Graphesthesia/  Left  Test >6 yrs: Eyes closed, draw number in palm & foot	Proprioception	Left				Great Toe up and down with eyes closed (ask: "up or	
		Right				down?")	
Stareognosis Pight dorsum with closed pen tip	Graphesthesia/	Left				Test >6 yrs: Eyes closed, draw number in palm & foot	
rotereognosis   Itigrit	Stereognosis	Right				dorsum with closed pen tip	

## **GAIT**

				OAH	
	TEST ITEMS	Normal	Abnormal	Not Done	Guidelines for Scoring
Gait Walking					By ≥ 16 mos.
Gait Running					By 2 yrs age
Gait on Heels					
Gait on Toes					10 steps
Tandem Gait					Heel to toe: test > age 6 yrs; walk on line forward (10 step
Jump on 2 Feet					By ≥ 36 mos.
Hop on Foot repetitively	Left Right				25 x (age 7 yrs to 9 yrs.) 50 x (age 9 yrs or older)
Station on one leg sustained	Left Right				Test age 7 and up. Count seconds out loud and compare stability.
Romberg's Sign					"Eyes closed, feet together, arms stretched forward".
Comments:					

# **GLOBAL Assessment Score**

Derived from PSOM: Pediatric Stroke Outcome Measure-Neuro. Exam. Children's Stroke Program, Hospital for Sick Children, Toronto, Canada. G. deVeber, D. MacGregor, R. Curtis, T. Soman, R. Ichord et al. Version October 2003, revised Mar 2007

A. Sensorimotor Deficit (score each side separately)  None None Mild but no impact on function Moderate with some functional limitations Severe or Profound with missing function Abnormality of tone Global delay in gross motor skill attainment  B. Other motor or sensory deficit (includes cranial nerve deficits) None Mild but no impact on function Moderate with some functional limitations Severe or Profound with missing function  B. Other motor or sensory deficit (includes cranial nerve deficits) None Mild but no impact on function Moderate with some functional limitations Severe or Profound with missing function  For items scored in Category B, identify all the of the types of Other Sensorimotor Deficits that you observed Vision Impairment Difficulty with drinking, chewing or swallowing Ataxia Movement disorde Other, describe:	ents
None Mild but no impact on function Moderate with some functional limitations Severe or Profound with missing function  For items scored in Category A1 and A2, identify all the types of Sensorimotor Deficits that you observed: Abnormality of tone Quadriparesis Hemiparesis Sensory deficit Global delay in gross motor skill attainment Global delay in fine motor skill attainment  B. Other motor or sensory deficit (includes cranial nerve deficits) None Mild but no impact on function Moderate with some functional limitations Severe or Profound with missing function  For items scored in Category B, identify all the of the types of Other Sensorimotor Deficits that you observed  Vision Impairment Difficulty with drinking, chewing or swallowing Ataxia Movement disorder	
<ul> <li>Abnormality of tone □ Quadriparesis □ Hemiparesis □ Sensory deficit □ Global delay in gross motor skill attainment □ Global delay in fine motor skill attainment</li> <li>B. Other motor or sensory deficit (includes cranial nerve deficits)         None 0             Mild but no impact on function 1             Moderate with some functional limitations 2</li> <li>Severe or Profound with missing function 3</li> </ul> <li>For items scored in Category B, identify all the of the types of Other Sensorimotor Deficits that you observed □ Vision Impairment □ Difficulty with drinking, chewing or swallowing □ Ataxia □ Movement disorder</li>	
None 0 Mild but no impact on function 1 Moderate with some functional limitations 2 Severe or Profound with missing function 3  For items scored in Category B, identify all the of the types of Other Sensorimotor Deficits that you observed  Usion Impairment Difficulty with drinking, chewing or swallowing Ataxia Movement disorder	
Mild but no impact on function 1 Moderate with some functional limitations 2 Severe or Profound with missing function 3  For items scored in Category B, identify all the of the types of Other Sensorimotor Deficits that you observed  Usion Impairment Difficulty with drinking, chewing or swallowing Ataxia Movement disorder	
Moderate with some functional limitations 2 Severe or Profound with missing function 3  For items scored in Category B, identify all the of the types of Other Sensorimotor Deficits that you observed.  □ Vision Impairment □ Difficulty with drinking, chewing or swallowing □ Ataxia □ Movement disorder.	
Severe or Profound with missing function 3  For items scored in Category B, identify all the of the types of Other Sensorimotor Deficits that you observed Usion Impairment Upifficulty with drinking, chewing or swallowing Ataxia Movement disorder	
For items scored in Category B, identify all the of the types of Other Sensorimotor Deficits that you observed Usion Impairment Upifficulty with drinking, chewing or swallowing Ataxia Movement disorder	
☐ Vision Impairment ☐ Difficulty with drinking, chewing or swallowing ☐ Ataxia ☐ Movement disorde	
	d:
☐ Other, describe:	r
C. Language Deficit – Production (exclude dysarthria)	
None 0	
Mild but no impact on function 1	
Moderate with some functional limitations 2	
Severe or Profound with missing function 3	
D. Language Deficit - Comprehension	
None 0	
Mild but no impact on function 1	
Moderate with some functional limitations 2	
Severe or Profound with missing function 3	
E. Cognitive Deficit	
None 0	
Mild 1 Moderate 2	
Severe or Profound with missing function 3	
F. Behavioural Deficit	
None 0	
Mild, no impact on academic or social function 1	
Moderate with some functional limitations 2	
Severe or Profound with missing function 3	
For Categories E and F, describe the Cognitive or Behavioral Deficits that you observed:	
Other Comments Regarding Scoring:	
TOTAL SCORING:	

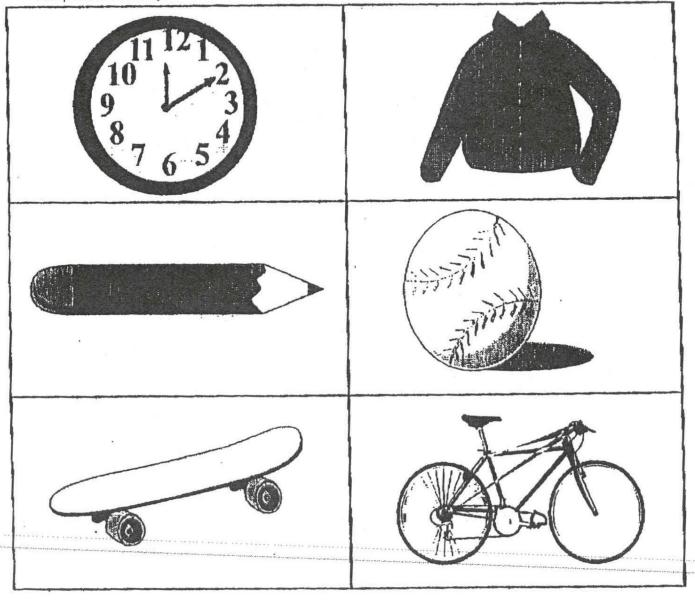
Site ID Patient ID

PICTURES TO ASSESS 'NAMING' (see Language on Page 1)

Derived from PSOM: Pediatric Stroke Outcome Measure-Neuro. Exam. Children's Stroke Program, Hospital for Sick Children, Toronto, Canada. G. deVeber, D. MacGregor, R. Curtis, T. Soman, R. Ichord et al. Version October 2003, revised Mar 2007

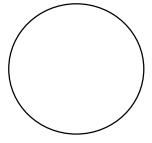
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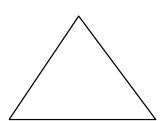
Ask patient to identify:

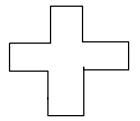


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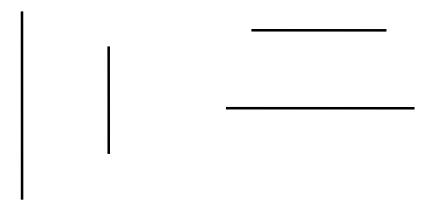
WORKSHEET FOR DRAWING: DRAWING Copy the Following Shapes







Place an 'X' at the middle of each of the 4 lines below



\*Children > 12 yrs.: Draw a Clock and put the numbers on it (use back of this page if needed):