2			W	AVE F	ENI E	D17	C+5
MAC	10/90-2 S NEUROPSYCHOLOGICAL STUDY PHASE 2 ROLOGICAL ASSESSMENT			11 0 Form			
Ex: Ag Ha	aminer use only (not for coding)	MACS NP WA NP PH EXAM REASO (1 - sta		# 1 1 M FERRAL c; 2 - contr	I	Ÿ	II
Q1.	LIFETIME NEUROLOGICAL DISEASE:	(1 = no;	2 = yes; 9 =	unknown/	missing)		
	 a. Multiple sclerosis b. Head trauma with LOC > 1 hr c. Stroke 		d. e. f. g.	Other Slipped	ral nerve damage disc		
	(Previous Rx, evaluation, treating MD)						
							
Q2.	LIFETIME SYSTEMIC DISEASE:	(1 = no;	2 = yes; 9 =	unknown/	missing)		
	Diabetes mellitus Connective tissue disorder eg rheumatoid arthritis or lupus		d. e.	> 6 mos	heavy etoh		
	c. Solvent/heavy metal exposure (Previous Rx, evaluation, treating MD)	11	f. g.		ETOH use w/in 6	mo	
Q3.	ALCOHOL USE, LAST 24 HOURS: (Where one drink is equal to: 1-12 oz beer, or 1-(1 = none; 2 = 1 drink; 3 = 2-3drinks; 4 = 4-6						1
	Comment:						
Q4.	NON PRESCRIPTION DRUG USE, LAST 24: (1 = none; 2 = marijuana/hashish; 3 = cocaine; 7 other drugs; 9 = unknown/missing)		es; 5 = upper	rs/downers	s; 6 = polysubstar	ice;	<u> </u>
	Comment:						
Q5.	WORK STATUS (Specify type of work or school (1 = stable; 2 = change in work status because 4 = change in work status > 6 mos because of h	of health;	3 = change for		easons;		ll
	Type of work:						

			2 MACS STUDY ID #
ls of , indicansk the f f NO: st f YES: o	symptoma ate separatirst sub-qu top at that continue as	tology. The questions are te examiner code on Page testion (numbered as 2). part, score as 1 (normal) a sking successive sub-question 6 in the Cognitive Function Start with introduction - Ask first level of question	ons, ie, 3,4,5, until NO is response, score the number corresponding to highest YES, and go to next question.
	4.	If YES, move to next sub	-question - DO you frequently lose your concentration?
Rememb	er: Your a	are trying to elicit CHANG	ES during the past 6 months.
Q6.		ENTRATION O OF THOUGHT	I'M GOING TO ASK YOU ABOUT NEW PROBLEMS WITH CONCENTRATION OR THINKING WITHIN THE LAST 6 MONTHS.
	2 - 3 - 4 - Commo	Do you frequently lobalancing a check be Are you unable to fe	onal difficulty with concentration? ose your concentration in conversation? Do you need help with tasks like ook? ollow normal conversation? (Examiner: score this 4 if unable to answer.)
Q7.	READ OR TV	ING	I'M GOING TO ASK YOU ABOUT NEW DIFFICULTY WITH READING OR FOLLOWING PROGRAMS ON TV WITHIN THE LAST 6 MONTHS.
00	2 - 3 - 4 - Comm	when reading? Have you cut down Are you unable to fe ents:	these activities because of difficulty understanding? ollow a TV show or read because it doesn't make sense?
Q8.	MEMC	OKI	I'M GOING TO ASK YOU ABOUT NEW CHANGES IN YOUR MEMORY WITHIN THE LAST 6 MONTHS.
	2 - 3 - 4 -	Do you frequently for Are you constantly of (Examiner: score the	onal problems with remembering appointments or where you put things? orget appointments or what to do in the middle of a task? confused about the time, date, or where you are? is 4 if participant is disoriented.)
Q9.	Comm SPEEC	ents: CH	I'M GOING TO ASK ABOUT ANY NEW DIFFICULTIES WITH SPEAKING WITHIN THE LAST 6 MONTHS.
	2 - 3 - 4 -	Do you frequently h Do you find it diffic (Examiner: score th	e extra care to choose the right words occasionally? ave difficulty finding words? ult to produce more than brief phrases or words? is 4 if participant is mute.)
Q10.	MOOI	ents:	I'M GOING TO ASK YOU ABOUT NEW CHANGES IN YOUR MOOD IN THE LAST 6 MONTHS.
	2 - 3 - 4 - Comm	Has this interfered	ing somewhat depressed lately? with your functioning at home or work? nedication or hospitalization?

•		3 MACS STUDY ID #	_1
Instruction	ns: see page 2; (1 = normal, 9 = un		
	GAIT	I'M GOING TO ASK ABOUT NEW DIFFICULTIES WITH WALKING WITHIN THE LAST 6 MONTHS.	4
	 3 - Are you so weak or 4 - Are you so weak or 5 - Are you unable to w 	y, slow, or weak when you walk? unsteady that you require a cane? unsteady that you require a walker? alk even with support?	
Q14.	COORDINATION	I'M GOING TO ASK ABOUT NEW CLUMSINESS IN YOUR HANDS WITHIN THE LAST 6 MONTHS.	N
	everyday activities (e 3 - Do you have difficult 4 - Do you need help wi	umsier but you can still finish g. eating, buttons)? by with everyday activities because of clumsiness? th everyday activities because of clumsiness?	
Q15.	INVOLUNTARY MOVEMENT	I'M GOING TO ASK ABOUT NEW INVOLUNTARY MOVEMENTS LIKE SHAKING, TWITCHING, OR JERKING WITHIN THE LAST 6 MONTHS.	E
	3 - Does it interfere with4 - Is it so severe that ye	any tremor or shaking in your limbs, head or trunk? h everyday activity (eg. writing)? ou cannot perform everyday activities?	
Q17.	SYNCOPE/ SEIZURES	I'M GOING TO ASK ABOUT NEW BLACKOUTS, SEIZURES, OF CONVULSIONS IN THE LAST 6 MONTHS.	R
	2 - Have you had blacked 3 - Have you had any se Comments: (description and	zizures or convulsions?	
Q18.	PARESTHESIAS/ DYSESTHESIAS	I'M GOING TO ASK YOU ABOUT NEW SENSATIONS IN YOUR ARMS AN LEGS IN THE LAST 6 MONTHS.	D
	3 - Are these feelings co	or burning sensations intermittently? ontinuous but don't interfere with everyday activities? ncomfortable enough to limit your daily activities? cription)	l a
Q19.	LOSS OF SENSATION	I'M GOING TO ASK YOU ABOUT NEW NUMBNESS OR LOSS OF SENSATIO IN YOUR ARMS AND LEGS IN THE LAST 6 MONTHS.	N
	3 - Have you noticed th	nittent or fleeting loss of sensation? is continuously, but it doesn't limit everyday activities? enough to limit your daily activities?	Į į

		4 MACS STUDY ID # DATE	
Instructio	ns: see page 2; $(1 = normal, 9 = un$	known/missing) sing	
	MUSCLE WEAKNESS	I'M GOING TO ASK YOU ABOUT ANY NEW WEAKNESS OF YO LEGS IN THE LAST 6 MONTHS.	UR ARMS OR
	3 - Has it been continuo	nittent or fleeting weakness? ous but not severe enough to limit everyday activities? nough to limit your daily activities?	II
Q20a.	MYALGIAS	I'M GOING TO ASK YOU ABOUT ANY NEW MUSCLE PAINS O THE LAST 6 MONTHS.	R ACHING IN
	3 - Have you had freque	nittent or fleeting muscles aches? ent or constant aching for which you've needed medications? ed in daily activities by severe muscle aching?	II
Q21.	VISUAL	I'M GOING TO ASK YOU ABOUT ANY NEW PROBLEMS WITH IN THE LAST 6 MONTHS.	YOUR VISION
	for more than a few	y change of vision persisting minutes (This could be blurring or double vision)? the point where it limits your daily activities?	l <u></u> l
٠.	HEADACHE	I'M GOING TO ASK YOU ABOUT NEW OR UNUSUAL HEADA LAST 6 MONTHS.	CHES IN THE
	3 - Have any of the headacl	re frequent or severe headaches than you are used to getting? hes been so bad that you've had to quit work? lusea, vomiting, or neck stiffness)	_
Q23.	PHYSICIAN VISIT		- II
	ASKED ABOUT (Q6-22)?	ED A PHYSICIAN FOR ANY OF THE SYMPTOMS THAT WE'VE (Record 1 for NO, 2 for YES and indicate below which symptoms) ress,, date, symptom, action)	

Q23a.	EXAMINER CODE (separa neurological examiner)	ate code ONLY if symptoms completed by examiner other than	
Q23b.	NEUROLOGICAL SYMPT	TOMS SUMMARY	
	Instructions: 1 = Does not recode 2 and keep participant	neet criteria for remaining in Phase 2. If any 3 questions (Q6-Q22) ha in Phase 2.	ve scores ≥ 3,

***neurological examination should be performed by someone with neurological training. Follow the format below and note instructions for testing, 1 scoring, if an abnormality is present, but you can't be sure if its new or old, record as NEW (is 3) and write in comment section. An 'old' maily is something that the patient haows has been present since birth, for several years, or is clearly related to trawns or surgery. If you're unsure watcher the ecamination is shormal, record as 2. **Q24.** RESPONSE TO COMMANDS** 1 - normal; 2 - mild slowing; 3 - moderate slowing; 4 - severe psychomotor retardation; 5 - agitated or anxious; 8 - neurologic abnormality is old, congenital, or post-traumatic; 9 - unknown/missing Comments: **MENTAL STATUS** Q25. STEP COMMANDS** COMMANDS** COMMANDS** COMMANDS** 1 - normal; 2 - needs instructions repeated but performs correctly; 3 - one or more errors; 4 - cannot perform; 8 - neurologic abnormality is old, eg, right-left confusion since childhood; 9 - unknown/missing Comments: 1 - normal; 2 - needs instructions repeated but performs correctly; 3 - one or more errors; 4 - cannot perform; 8 - neurologic abnormality is old, eg, right-left confusion since childhood; 9 - unknown/missing Comments: Q25a. REGISTRATION** Name 3 objects: "purple, apple, Cleveland." Then ask the participant to repeat all three after you have said them (1 - 3 points, score 1 for each correct). **b. TIME** Year, season, date, day, month (1 - 5 points; score 1 for each correct) State, county or borough, town, hospital, floor (1 - 5 points; score 1 for each correct) ATTENTION AND CONCENTRATION Spell "world", "horse", "black", or "bread" backwards (1 - 5 points; score number of letters correct before first error. C25c. RECALL Ask for recall of the 3 objects repeated above (Q25a), (1 - 3 points; score 1 for each correct) Allow 3 minutes between registration and recall.			5 MACS STUDY ID # DATE/_	_ _
1 - normal; 2 - mild slowing; 3 - moderate slowing; 4 - severe psychomotor retardation; 5 - agitated or anxious; 8 - neurologic abnormality is old, congenital, or post-traumatic; 9 - unknown/missing Comments: MENTAL STATUS	n sco	oring, if an abr lity is somethin	formality is present, but you can't be sure if its new or old, record as NEW (ie 3) and write in comment section. An ig that the patient knows has been present since birth, for several years, or is clearly related to trauma or surgery. If	'old"
COMMANDS: "With your left thumb, touch your nose, the tip of your chin, then your right shoulder." THEN, "With your right index finger, touch your left elbow, the left thumb, and your forehead." 1 - normal; 2 - needs instructions repeated but performs correctly; 3 - one or more errors; 4 - cannot perform; 8 - neurologic abnormality is old, eg, right-left confusion since childhood; 9 - unknown/missing Comments: Q25a. REGISTRATION Name 3 objects: "purple, apple, Cleveland." Then ask the participant to repeat all three after you have said them (1 - 3 points, score 1 for each correct). TIME Year, season, date, day, month (1 - 5 points; score 1 for each correct) Q25c. PLACE State, county or borough, town, hospital, floor (1 - 5 points; score 1 for each correct) Q25d. ATTENTION AND CONCENTRATION Spell "world", "horse", "black", or "bread" backwards (1 - 5 points; score number of letters correct before first error. Q25e. RECALL Ask for recall of the 3 objects repeated above (Q25a). (1 - 3 points; score 1 for each correct) Ask for recall of the 3 objects repeated above (Q25a). (1 - 3 points; score 1 for each correct) CQ25c. COPY A DESIGN (score 1 point if accurate)	Q24.	1 - normal or anxious	; 2 - mild slowing; 3 - moderate slowing; 4 - severe psychomotor retardation; 5 - agitated ; 8 - neurologic abnormality is old, congenital, or post-traumatic; 9 - unknown/missing	11
right shoulder." THEN, "With your right index finger, touch your left elbow, the left thumb, and your forehead." 1 - normal; 2 - needs instructions repeated but performs correctly; 3 - one or more errors; 4 - cannot perform; 8 - neurologic abnormality is old, eg, right-left confusion since childhood; 9 - unknown/missing Comments: Q25a. REGISTRATION Name 3 objects: "purple, apple, Cleveland." Then ask the participant to repeat all three after you have said them (1 - 3 points, score 1 for each correct). TIME Year, season, date, day, month (1 - 5 points; score 1 for each correct) Q25c. PLACE State, county or borough, town, hospital, floor (1 - 5 points; score 1 for each correct) Q25d. ATTENTION AND CONCENTRATION Spell "world", "horse", "black", or "bread" backwards (1 - 5 points; score number of letters correct before first error. Q25e. RECALL Ask for recall of the 3 objects repeated above (Q25a). (1 - 3 points; score 1 for each correct) Allow 3 minutes between registration and recall.				
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Name 3 objects: "purple, apple, Cleveland." Then ask the participant to repeat all three after you have said them (1 - 3 points, score 1 for each correct). 'b. TIME Year, season, date, day, month (1 - 5 points; score 1 for each correct) Q25c. PLACE State, county or borough, town, hospital, floor (1 - 5 points; score 1 for each correct) Q25d. ATTENTION AND CONCENTRATION Spell "world", "horse", "black", or "bread" backwards (1 - 5 points; score number of letters correct before first error. Q25e. RECALL Ask for recall of the 3 objects repeated above (Q25a). (1 - 3 points; score 1 for each correct) Allow 3 minutes between registration and recall.		perform; 8	- neurologic abnormality is old, eg, right-left confusion since childhood; 9 - unknown/missing	I <u></u> I
after you have said them (1 - 3 points, score 1 for each correct). b. TIME Year, season, date, day, month (1 - 5 points; score 1 for each correct) Q25c. PLACE State, county or borough, town, hospital, floor (1 - 5 points; score 1 for each correct) Q25d. ATTENTION AND CONCENTRATION Spell "world", "horse", "black", or "bread" backwards (1 - 5 points; score number of letters correct before first error. Q25e. RECALL Ask for recall of the 3 objects repeated above (Q25a). (1 - 3 points; score 1 for each correct) Allow 3 minutes between registration and recall.	Q25a.	REGISTR	ATION	
Year, season, date, day, month (1 - 5 points; score 1 for each correct) Q25c. PLACE State, county or borough, town, hospital, floor (1 - 5 points; score 1 for each correct) Q25d. ATTENTION AND CONCENTRATION Spell "world", "horse", "black", or "bread" backwards (1 - 5 points; score number of letters correct before first error. Q25e. RECALL Ask for recall of the 3 objects repeated above (Q25a). (1 - 3 points; score 1 for each correct) Allow 3 minutes between registration and recall.				
Q25c. PLACE State, county or borough, town, hospital, floor (1 - 5 points; score 1 for each correct) Q25d. ATTENTION AND CONCENTRATION Spell "world", "horse", "black", or "bread" backwards (1 - 5 points; score number of letters correct before first error. Q25e. RECALL Ask for recall of the 3 objects repeated above (Q25a). (1 - 3 points; score 1 for each correct) Allow 3 minutes between registration and recall.	·b.	TIME		II
State, county or borough, town, hospital, floor (1 - 5 points; score 1 for each correct) Q25d. ATTENTION AND CONCENTRATION Spell "world", "horse", "black", or "bread" backwards (1 - 5 points; score number of letters correct before first error. Q25e. RECALL Ask for recall of the 3 objects repeated above (Q25a). (1 - 3 points; score 1 for each correct) Allow 3 minutes between registration and recall.			Year, season, date, day, month (1 - 5 points; score 1 for each correct)	
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Q25e. RECALL Ask for recall of the 3 objects repeated above (Q25a). (1 - 3 points; score 1 for each correct) Allow 3 minutes between registration and recall. Q25f. COPY A DESIGN (score 1 point if accurate)	Q25d.	ATTENT	ON AND CONCENTRATION	II
Ask for recall of the 3 objects repeated above (Q25a). (1 - 3 points; score 1 for each correct) Allow 3 minutes between registration and recall. Q25f. COPY A DESIGN (score 1 point if accurate)				
COPY A DESIGN (score 1 point if accurate)	Q25e.	RECALL		11
Copy here	Q25f.	COPY A	DESIGN (score 1 point if accurate)	11
			Copy here	

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					6	MACS	STUDY	ID # DATE/_	
Q26.	8 - neurolog	ic abnormali	ools spots; 3 - hemity is old, congenital	l, or post	-traumati	c; 9 - unl	known/mis	ssing	
Q27.	PUPILS		Assess size, shape	e, symme	try, and s	peed of	response		
	8 - neurolog	ic abnormali	uggish; 3 - abnormaty is old, congenitation	l, or post	-traumati	c; 9 - unl			11
Q28.	OCULAR MOTILITY	Sn	nooth pursuit: test	with slov	w moving	target, >	15" from	face.	
	abnormality	is old, eg, co	corrections; 3 - car ongenital nystagmus	or drug	effects; 9				II
Q29.	SACCADES	Test ey	ye movement from	primary	position t	o target	in all field	s of gaze.	
	8 - neurolog	ic abnormali	normal, eg. slightly ity is old, congenita	l, post-tra	aumatic, o	or drug e	ffects; 9 -	unknown/missing	II
△ 30.		2 - mild asyr ic abnormal	nmetry or equivoca ity is old, congenita						11
Q31.		2 - slightly d nital, or pos				3 - mas	sk-like; 8 -	neurologic abnormality	II
Q32.	OTHER CRANIAL	Assess	speech patterns, to	ongue mo	ovements	, palate n	novement	, hearing.	
	eg. severe d	ysarthria or	rmality, eg. slight sl absent corneal refle eech difficulty or de	ex; 8 - ne	eurologic	abnorma	lity is old,	rate/severe abnormality, congenital, or post-	11
MOTO	OR	foot intrins	ring muscles: hand i sics, toe extensors, a S SYSTEM IS REV	nkle dor	rsiflexors,	hip flexo	rs and ext		
Q33.		2 - mild, vs i e 3/5); 4 - se	evere, (MRC grade					noderate, vs gravity old, congenital, or post	
				RU	RL	LU	LL		
			Proximal	a.	b.	c.	đ.		
	Comments:	(pattern/dis	Distal tribution)	c.	f.	g.	h.		
		A TOTAL CONTRACTOR OF THE PARTY	340						

*0							
		5 8		7	MACS STUD	Y ID # _ DATE	
O34.	TONE	Assess tone in	arms and	l legs with	patient relaxed		
		tch or lead-pipe rigidi				moderate/severe hyper normality is old, conge	
		RU	RL	LU	LL		
		a.	b.	C.	d.		
34a.		\$10 and 10 and 1				tremor; 9 - unknown/n	nissing
Q35.	-traumatic; 9 - unkno			3)	old, congenital, or post	t
Q36.	COORDINATION AND RAM - LIMB	Use finger-nose, her finger-thumb, hand fli inaccuracy or dysmet	p. Disting	guish <u>slowi</u>			
Q37.	slow and/or dysmetri	owness/clumsiness - coc; 4 - severe, unable testing; 8 - neurologic Use tandem, rapid w to assess proximal we	to performation abnormation	m; 5 - slov lity is old, turns. Try	wing alone with congenital, or p	ost-traumatic; 9 -	notably
Q38.	4 - severe gait distur		nce to wa	alk; 5 -no		r difficulty with walkin - neurologic abnormal	
Subje	ect walks a 10 yd distand					Trial 1	
	uct: "Walk as fast as yo eat for 2 additional tria				8	Trial 2	
1						A STATE OF THE STA	

of 3 trials in seconds. Round up/down to nearest Score 000- cannot perform; 999 unknown/missing.

Trial 1	.
Trial 2	
Trial 3	
Average (secs)	

Q39. REFLEX GRADING

NOTE CHANGE IN SCORING

0 - absent; 1 - hypoactive; 2 normal DTR's; 3 - hyperactive DTR's, eg with prominent spread; 4 - clonus; 9 - unknown/missing

	biceps	triceps	knee	ankle
Right	a.	b.	c.	d.
Left	e.	f.	g.	h.

MACS STUDY ID	#	1_11	11_	
	DATE	- Usa		<i>_</i> J

040. RELEASE REFLEXE	040.	REI	FASE	REFI	EXE
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NOTE CHANGE IN SCORING.

0 - absent/normal; 2 - present/abnormal; 9 - unknown/missing

	Plantars	Grasp	Snout	Jaw
Right	a.	c.	e.	f.
Left	b.	d.		

Test SNOUT by tapping with reflex hammer on upper lid with eyes <u>lightly</u> closed - look for pouting of lips. Test JAW by tapping down on jaw with mouth held open and relaxed - look for contraction of masseters.

041.	SENSA	TT	ON

A. VIBRATION

C.

Use tuning fork applied to big toe joint and compare duration of reported "buzzing" compared to examiner's finger <u>under</u> toe. If abnormal, test proprioception/sensory level, Tinel's, Rombergs.

1 - normal; 2 - mild loss, eg. vibration stops < 5 seconds before examiner; 5 - vibration stops > 5 seconds before examiner; 3 - cannot feel vibration in toes; 4 - severe, cannot feel vibration in toes and ankles; 9 - unknown/missing

Comments:		1
PIN SENSATION	Test using broken cotton wool swabstick. Compared sharp end to dull end and hands to feet.	
that stick is more level; 5 - mixed/o	aild distal loss or hemisensory difference; 3 - hyperalgesia distally, ie, patient reports e painful in feet than shins; 4 - definite distal gradient, "stocking glove" pattern, or sensory combination; 9 - unknown/missing	II
STEREOGNOS	Use 2 test objects in each hand with eyes closed: eg: coin, key, paper clip.	
1 - normal, reco	gnizes both objects; 2 - recognizes 1 object; 3 - recognizes neither object; 9 - unknown	
Comments:		!

	9 MACS STUDY ID #	_ 	
nary s 3	NEUROLOGIC SUMMARY should be coded for highest level of impairment. If unsure whether a definite examination abnormality is new or old/congenital/post- B. If unsure which system is abnormal, eg whether LE hyperreflexia is "spinal cord" or "CNS diffuse," mark each system.	raumatic,	
Q42.	PERIPHERAL NERVES		
	1 - normal; 2 - equivocal/mild abnormalities, e.g. a) mild vibration loss <u>and</u> diminished AJ or b) mild vibration <u>and</u> other mild sensory modality; 3 - abnormal, definite peripheral neuropathy with absent AJ or moderate/severe vibration loss; 8 - abnormal, unrelated or old, e.g. longstanding sensory deficit s/p disc; 9 - unknown/missing	T)	
	Comments:	<u> </u>	
Q43.	CNS DIFFUSE		
	1 - normal; 2 - equivocal/mild abnormalities, e.g. diffuse hyperreflexia OR slight slowing of RAM's OR release signs; 3 - definitely abnormal, e.g. a) increased tone UE's and LE's AND hyperreflexia; OR b) slowed RAM's AND hyperreflexia; 8 - abnormal, unrelated or old, e.g. drug effects, s/p trauma; 9 - unknown/missing		
	Comments:		
Q43a.			
ti	CNS FOCAL		
	1 - normal; 2 - equivocal/mild abnormalities, e.g. a) mild focal weakness or hyperreflexia or pronator drift OR eg b); isolated brainstem, eye movement, or pupillary abnormalities; 3 - abnormal, e.g. hemiparesis, cerebellar ataxia, aphasia; 8 - abnormal, unrelated or old, e.g. previous trauma/surgery/CVA; 9 - unknown/missing		
	Comments:		
Q45.	SPINAL CORD		
	1 - normal; 2 - equivocal/mild abnormalities, e.g. slightly increased tone in LE or LE hyperreflexia, but UE's normal; 3 - abnormal, e.g. spastic paraparesis with increased LE tone, reflexes and weakness or sensory level; 8 - abnormal, unrelated or old, e.g. previous trauma, s/p disc; 9 - unknown/missing		
	Comments:	ll	
Q45a.	Use this item for participants in whom you suspect <u>HIV-RELATED MYELOPATHY</u> based on diffuse spinal cord signs (Q45). If myelopathy is clearly unrelated to HIV, eg post-traumatic, code as 8; 9 = unknown/missing. Use coding from next page to grade the myelopathy. Grade dementia separately.		
044	AGUAGO D		
Q46.	MUSCLE		
	1 - normal; 2 - equivocal/mild abnormalities, e.g. slight proximal weakness or diffuse wasting; 3 - abnormal e.g. proximal myopathy; 8 - abnormal, unrelated or old; 9 - unknown/missing	Ĺ	

	10 MACS STUDY ID #				
DDING	G FOR Q43A, DEMENTIA SEVERITY.				
stage 0	(normal): Normal mental and motor function. Neurological signs are within the normal age-appropriate spectrum.				
Stage 0.	lge 0.5 (equivocal or subclinical): Absent, minimal or equivocal symptoms without impairment of work or capacity to perform activities of daily living DL). Exam may be normal or mildly abnormal signs may include reflex changes (eg, generalized increase in deep tendon reflexes with active jaw jerk, but or glabellar sign) or mildly slowed ocular movements, but without clear slowing of extremity movements or loss of their dexterity or strength.				
erform	1 (mild): Able to perform all but the more demanding aspects of work or ADL but with unequivocal evidence (symptoms or signs including mance on neuropsychological testing) of intellectual or motor impairment. The abnormal motor signs usually include slow or clumsy movements remities.				
Stage 2 Inances	2 (moderate): Able to perform basic activities of self care at home but cannot work or maintain more demanding aspects of daily life (eg, maintain es, read text more complex than a tabloid newspaper).				
Stage 3 output)	(severe): Major intellectual incapacity (cannot follow news or personal events, cannot sustain complex conversation, considerable slowing of all or motor disability				
Stage 4	(end stage): Nearly vegetative. Intellectual and social comprehension and output are at a rudimentary level. Nearly or absolutely mute.				
CODIN	IG FOR Q45A, MYELOPATHY SEVERITY.				
Stage 0	: Normal				
Stage 1	: Tandem gait may be impaired, but the patient can walk without assistance.				
Stage 2	: Ambulatory, but may require single prop (eg, cane).				
Stage 3	: Cannot walk unassisted, requiring walker or personal support, usually with slowing and clumsiness of arms as well.				
	: Paraparetic or paraplegic with double incontinence.				
47a.	NEUROLOGICAL OUTCOME				
	1 - return to Phase 1; 2 - remain in Phase 2 because of clinical abnormalities; 3 - Phase 2 in 12 mo (seroconvertor); 4 - other; 5 - incident AIDS/low CD4 protocol; 9 - unknown				
etail a	tions: Record here comments about the exam. Eg, if you detect an abnormality, what do you think is its cause? additional work-up here.				
)47b.	FURTHER TESTING 1 - no; 2 - yes (select from list)				
48.	MRI HTLV serology Biopsy NCV RPR/FTA Other B12 WERE YOU AWARE OF PARTICIPANT'S SEROSTATUS DURING EXAM?				
,10,	1 - yes; 2 - no; 9 - missing				
	1 Jest 7 1101 × 1111011116				

NEUROLOGICAL EXAMINER CODE

Q49.

11 MACS STUDY ID #				
actions: This section is for additional clinical information to be obtained <u>after</u> completion of the neurological history exam. Once these sections have been completely finished and the codes recorded, move on to this section and record notes.				
linical symptoms: Since your last MACS visit, have you had any HIV-related illnesses, such as fever, diarrhea, PCP.				
ntiviral therapy: Describe your antiviral use: start date, type of antiviral, side effects				