

SUBJECT ID _____

DATE OF EXAM |__|_| |__|_| |__|_|
MO DA YR

PHYSICIAN INITIALS |__|_|_|

REASON FOR LEVEL 2 EXAM: (check all that apply)

CLINICALLY INDICATED

LEVEL 2 QC

RECOMMENDED BY DRP

LOCATION OF EXAM BLOOD CENTER.....1

 SUBJECT'S HOME2

 OTHER.....3

 (SPECIFY)

EXAM RESULT |__|_|

PHASE THREE

LEVEL 2 EXAMINATION

REDS HTLV COHORT STUDY

A. PRELIMINARY QUESTIONS

A-1. **(ASK)** First, I would like to ask if you have any problems from recent surgery, injury or other health conditions that might prevent you from standing up from a chair or walking?

- No restrictions per subject 1
- Recent surgery 2
- Injury 3
- Physical handicap 4
- Obesity 5
- Other (SPECIFY _____) 6

(DO NOT ASK) Physician's observation of unreported apparent restrictions (if any):

A-2. **(ASK)** Which hand do you use to write? (USE FOR D-1 through D-4; E-4; and F-8.)

- Right..... 1
- Left..... 2

START EXAM ON NEXT PAGE (SECTION B) WITH SUBJECT SITTING ON EXAMINATION TABLE, LEGS DANGLING.

B. DERMATOLOGIC EXAM

EXAMINE HANDS/ARMS, LEGS/FEET, TRUNK/BACK, HEAD/NECK FOR EVIDENCE OF LESIONS, NODULES, RASH, PUSTULES, VESICLES, OR ULCERS. IF PRESENT, CODE "YES" AND ANSWER SUBSEQUENT QUESTIONS ACROSS THE GRID. EXCLUDE FRECKLES, MOLES, CHERRY HEMANGIOMAS, LIPOMAS, PIMPLES AND ACNE.

B-1. Are any lesions present?	B-2. Are any lesions possibly suspicious for ATL?
<p>a. Hands/Arms</p> <p>YES 1 → NO 2 (b)</p>	<p>YES 1 → Circle reference photo #1, 2, 3, 4, 5, 6, none → NO 2 → What do lesions resemble? (Describe below)</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p style="text-align: center;">(B-1b)</p>
<p>b. Trunk/Back</p> <p>YES 1 → NO 2 (c)</p>	<p>YES 1 → Circle reference photo #1, 2, 3, 4, 5, 6, none → NO 2 → What do lesions resemble? (Describe below)</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p style="text-align: center;">(B-1c)</p>
<p>c. Legs/Feet</p> <p>YES 1 → NO 2 (d)</p>	<p>YES 1 → Circle reference photo #1, 2, 3, 4, 5, 6, none → NO 2 → What do lesions resemble? (Describe below)</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p style="text-align: center;">(B-1d)</p>

B-3. through B-7. Describe lesions possibly suspect for ATL:		B-8. Has subject seen a physician about this?																																							
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<p style="text-align: center;">B-1.</p> <p>Are any lesions present?</p>	<p style="text-align: center;">B-2.</p> <p>Are any lesions possibly suspicious for ATL?</p>
<p>d. Head/Neck</p> <p>YES 1 →</p> <p>NO 2 (e)</p>	<p>YES 1 → Circle reference photo #1, 2, 3, 4, 5, 6, none →</p> <p>NO 2 → What do lesions resemble? (Describe below)</p> <hr/> <hr/> <hr/> <hr/> <p>(B-1e)</p>
<p>e. (ASK) Do you have any problems with your skin in areas other than those I've just examined?</p> <p>YES 1 (Specify locations below)</p> <hr/> <hr/> <p>NO 2</p>	<p>YES 1 → Circle reference photo #1, 2, 3, 4, 5, 6, none →</p> <p>NO 2 → What do lesions resemble? (Describe below)</p> <hr/> <hr/> <hr/> <hr/> <p>(Section C)</p>

B-3. through B-7. Describe lesions possibly suspect for ATL:		B-8. Has subject seen a physician about this?	
B-3. Distribution Diffuse 01 Localized 02 Other 96 (Specify _____)	B-7. Texture/Appearance <u>YES</u> <u>NO</u> Macular 1 2 Papular 1 2 Maculopapular 1 2 Pustular 1 2 Vesicular 1 2 Nodular 1 2 Plaque 1 2 Ulcerated 1 2 Fungating 1 2 Scaly 1 2 Shiny 1 2 Other (DESCRIBE) 1 2 _____	YES 1 → What was the diagnosis? _____ NO 2	
B-4. Border Regular 1 Irregular 2			
B-5. Size __ __ . __ cm B-6. Color _____			
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B-4. Border Regular 1 Irregular 2			
B-5. Size __ __ . __ cm B-6. Color _____			

C. LYMPH NODE EXAM

PALPATE NODES ON RIGHT AND LEFT SIDE (EXCEPT SUBMENTAL NODE ON MIDLINE). IF PALPABLE, ENTER SIZE IN CENTIMETERS AND CIRCLE ONE DESCRIPTIVE TERM IN EACH BOX. DO NOT ADD OTHER DESCRIPTORS.

LOCATION	RIGHT		LEFT	
C-1. Posterior cervical nodes	Palpable .....1 →	Size |_|_|·|_|_| cm	Palpable .....1 →	Size |_|_|·|_|_| cm
	Nonpalpable.....2	} C-2	Nonpalpable.....2	} C-2
	Not examined...0		Not examined...0	
		Solitary 1 Multiple 2		Solitary 1 Multiple 2
		Hard 1 Soft 2		Hard 1 Soft 2
		Fixed 1 Mobile 2		Fixed 1 Mobile 2
		Discrete 1 Matted together 2		Discrete 1 Matted together 2
	Tender 1 Non-tender ... 2		Tender 1 Non-tender ... 2	
C-2. Anterior cervical nodes	Palpable .....1 →	Size |_|_|·|_|_| cm	Palpable .....1 →	Size |_|_|·|_|_| cm
	Nonpalpable.....2	} C-3	Nonpalpable.....2	} C-3
	Not examined...0		Not examined...0	
		Solitary 1 Multiple 2		Solitary 1 Multiple 2
		Hard 1 Soft 2		Hard 1 Soft 2
		Fixed 1 Mobile 2		Fixed 1 Mobile 2
		Discrete 1 Matted together 2		Discrete 1 Matted together 2
	Tender 1 Non-tender ... 2		Tender 1 Non-tender ... 2	

LOCATION	RIGHT		LEFT	
C-3. Submandibular nodes	Palpable .....1 → Nonpalpable.....2 } C-4 Not examined...0 }	Size |_|_|·|_| cm Solitary 1 Multiple 2 Hard 1 Soft 2 Fixed 1 Mobile 2 Discrete 1 Matted together 2 Tender 1 Non-tender ... 2	Palpable .....1 → Nonpalpable.....2 } C-4 Not examined...0 }	Size |_|_|·|_| cm Solitary 1 Multiple 2 Hard 1 Soft 2 Fixed 1 Mobile 2 Discrete 1 Matted together 2 Tender 1 Non-tender ... 2
C-4. Submental node (ALONG THE MIDLINE)	Palpable .....1 → Nonpalpable.....2 } C-5 Not examined...0 }	Size |_|_|·|_| cm Solitary 1 Multiple 2 Hard 1 Soft 2 Fixed 1 Mobile 2 Discrete 1 Matted together 2 Tender 1 Non-tender ... 2		
C-5. Posterior auricular nodes	Palpable .....1 → Nonpalpable.....2 } C-6 Not examined...0 }	Size |_|_|·|_| cm Solitary 1 Multiple 2 Hard 1 Soft 2 Fixed 1 Mobile 2 Discrete 1 Matted together 2 Tender 1 Non-tender ... 2	Palpable .....1 → Nonpalpable.....2 } C-6 Not examined...0 }	Size |_|_|·|_| cm Solitary 1 Multiple 2 Hard 1 Soft 2 Fixed 1 Mobile 2 Discrete 1 Matted together 2 Tender 1 Non-tender ... 2

LOCATION	RIGHT		LEFT	
C-6. Occipital nodes	Palpable .....1 → Nonpalpable.....2 } C-7 Not examined...0 }	Size |_|_|.|_|_| cm	Palpable .....1 → Nonpalpable.....2 } C-7 Not examined...0 }	Size |_|_|.|_|_| cm
		Solitary 1 Multiple 2		Solitary 1 Multiple 2
		Hard 1 Soft 2		Hard 1 Soft 2
		Fixed 1 Mobile 2		Fixed 1 Mobile 2
		Discrete 1 Matted together 2		Discrete 1 Matted together 2
		Tender 1 Non-tender ... 2		Tender 1 Non-tender ... 2
		C-7. Supraclavicular nodes		Palpable .....1 → Nonpalpable.....2 } C-8 Not examined...0 }	Size |_|_|.|_|_| cm	Palpable .....1 → Nonpalpable.....2 } C-8 Not examined...0 }	Size |_|_|.|_|_| cm
Solitary 1 Multiple 2	Solitary 1 Multiple 2			
Hard 1 Soft 2	Hard 1 Soft 2			
Fixed 1 Mobile 2	Fixed 1 Mobile 2			
Discrete 1 Matted together 2	Discrete 1 Matted together 2			
Tender 1 Non-tender ... 2	Tender 1 Non-tender ... 2			
C-8. Axillary nodes	Palpable .....1 → Nonpalpable.....2 } C-9 Not examined...0 }		Size |_|_|.|_|_| cm	
		Solitary 1 Multiple 2	Solitary 1 Multiple 2	
		Hard 1 Soft 2	Hard 1 Soft 2	
		Fixed 1 Mobile 2	Fixed 1 Mobile 2	
		Discrete 1 Matted together 2	Discrete 1 Matted together 2	
		Tender 1 Non-tender ... 2	Tender 1 Non-tender ... 2	

LOCATION	RIGHT		LEFT	
C-9. Epitrochlear nodes	Palpable .....1 → Nonpalpable.....2 } C-10 Not examined...0 }	Size |_|_|·|_|_| cm Solitary 1 Multiple 2 Hard 1 Soft 2 Fixed 1 Mobile 2 Discrete 1 Matted together 2 Tender 1 Non-tender ... 2	Palpable .....1 → Nonpalpable.....2 } C-10 Not examined...0 }	Size |_|_|·|_|_| cm Solitary 1 Multiple 2 Hard 1 Soft 2 Fixed 1 Mobile 2 Discrete 1 Matted together 2 Tender 1 Non-tender ... 2
C-10. Other nodes (SPECIFY ONE PER LINE) a. _____	Palpable .....1 → Nonpalpable.....2 } D-1 Not examined...0 }	Size |_|_|·|_|_| cm Solitary 1 Multiple 2 Hard 1 Soft 2 Fixed 1 Mobile 2 Discrete 1 Matted together 2 Tender 1 Non-tender ... 2	Palpable .....1 → Nonpalpable.....2 } D-1 Not examined...0 }	Size |_|_|·|_|_| cm Solitary 1 Multiple 2 Hard 1 Soft 2 Fixed 1 Mobile 2 Discrete 1 Matted together 2 Tender 1 Non-tender ... 2
b. _____	Palpable .....1 → Nonpalpable.....2 } D-1 Not examined...0 }	Size |_|_|·|_|_| cm Solitary 1 Multiple 2 Hard 1 Soft 2 Fixed 1 Mobile 2 Discrete 1 Matted together 2 Tender 1 Non-tender ... 2	Palpable .....1 → Nonpalpable.....2 } D-1 Not examined...0 }	Size |_|_|·|_|_| cm Solitary 1 Multiple 2 Hard 1 Soft 2 Fixed 1 Mobile 2 Discrete 1 Matted together 2 Tender 1 Non-tender ... 2

D. EXAM WITH SUBJECT LYING DOWN

D-1. Toe fanning without resistance (dominant foot from A-2).

	<u>RIGHT</u>		<u>LEFT</u>
Abnormal	1	.....	1
Normal	2	.....	2

DEMONSTRATE EACH MANEUVER. ASK THE SUBJECT TO PERFORM IT AFTER YOU.

MANEUVER (dominant foot from A-2)	DEGREE OF IMPAIRMENT
<p>D-2. Move heel of dominant foot down shin of opposite leg, from knee to foot.</p> <p style="margin-left: 20px;">Impaired performance 1 →</p> <p style="margin-left: 20px;">Normal performance 2</p> <p style="margin-left: 20px;">Not attempted 0 } (D-3)</p>	<p>Slight unsteadiness, wobbling 1</p> <p>Obvious wobbling, weakness 2</p> <p>Unable to perform..... 3</p>
<p>D-3. Feel tuning fork on interphalangeal joint of great toe of dominant foot.</p> <p style="margin-left: 20px;">Impaired sensation 1 →</p> <p style="margin-left: 20px;">≤ 4 second gap 2</p> <p style="margin-left: 20px;">Not attempted 0 } (D-4)</p>	<p>Examiner felt vibrations 5-7 sec. longer than subject..... 1</p> <p>Examiner felt vibrations >7 sec. longer than subject..... 2</p> <p>Subject did not feel vibrations 3</p>
<p>D-4. Sense position of great toe of dominant foot, in response to examiner's manipulations.</p> <p style="margin-left: 20px;">Impaired proprioception 1</p> <p style="margin-left: 20px;">Normal proprioception 2</p> <p style="margin-left: 20px;">Not attempted 0</p>	

D-5. **Plantar reflex** in response to blunt object lightly moved from heel, up lateral aspect, curving medially across ball of foot to great toe.

	<u>RIGHT</u>		<u>LEFT</u>
Absent	0	.....	0
Downward flexion present but diminished or weak	1	.....	1
Normal downward flexion	2	.....	2
Hyperactive (dorsiflexion of great toe and/or fanning of other toes)	3	.....	3
Hyperactive (as above) with reflex flexion at hip and/or knee	4	.....	4
Hyperactive with repetitive rhythmic contractions and sustained stretch ...	5	.....	5
Unable to assess due to withdrawal/hypersensitivity	6	.....	6

E. EXAM WITH SUBJECT SITTING, LEGS DANGLING

UPPER EXTREMITIES

E-1. **Biceps reflex** in response to strike with pointed end of reflex hammer aimed through your finger or thumb directly toward the biceps tendon.

	<u>RIGHT</u>	<u>LEFT</u>
Absent	0	0
Elbow flexion present but diminished, or weak	1	1
Normal contraction of biceps and elbow flexion	2	2
Hyperactive contraction and/or flexion	3	3
Hyperactive with contractions and maintained stretch	4	4

E-2. **Triceps reflex** in response to direct strike with pointed end of reflex hammer from behind triceps tendon.

	<u>RIGHT</u>	<u>LEFT</u>
Absent	0	0
Elbow extension present but diminished or weak	1	1
Normal	2	2
Hyperactive contraction and/or extension	3	3
Hyperactive with contractions and maintained stretch	4	4

E-3. **Brachioradialis reflex** in response to strike with flat end of reflex hammer, 1-2 inches above wrist.

	<u>RIGHT</u>	<u>LEFT</u>
Absent	0	0
Present but diminished or weak	1	1
Normal	2	2
Hyperactive	3	3
Hyperactive with contractions and maintained stretch	4	4

DEMONSTRATE MANEUVER. ASK SUBJECT TO PERFORM IT AFTER YOU.

MANEUVER (dominant hand from A-2)	DEGREE OF IMPAIRMENT
<p>E-4. Tapping index finger to thumb at distal joint, dominant hand.</p> <p style="margin-left: 20px;">Impaired performance 1 →</p> <p style="margin-left: 20px;">Normal performance 2</p> <p style="margin-left: 20px;">Not attempted 0 } (E-5)</p>	<p>Matches speed of examiner but finger slips to side or to pad of thumb 1</p> <p>Slower than examiner 2</p> <p>Unable to perform 3</p>

E-5.	Thenar eminence bulk and shape.	<u>RIGHT</u>	<u>LEFT</u>
	Atrophy/flattening	1	1
	Full/convex	2	2
E-6.	Hand grip power and strength.	<u>RIGHT</u>	<u>LEFT</u>
	Abnormal	1	1
	Normal	2	2
E-7.	Tone of arm biceps.	<u>RIGHT</u>	<u>LEFT</u>
	Abnormal	1	1
	Describe: _____ (hypotonic, flaccid, rigid, spastic, etc.)		
	Normal	2	2
E-8.	Biceps power and strength against gravity and resistance.	<u>RIGHT</u>	<u>LEFT</u>
	No movement	0	0
	Trace of contraction with no movement	1	1
	Movement present but cannot be sustained against gravity	2	2
	Movement against gravity but not applied resistance	3	3
	Movement against some degree of resistance	4	4
	Full power	5	5

LOWER EXTREMITIES

E-9.	Achilles reflex in response to quick and direct strike with pointed end of reflex hammer.	<u>RIGHT</u>	<u>LEFT</u>
	Absent	0	0
	Present but diminished or weak	1	1
	Normal	2	2
	Hyperactive	3	3
	Hyperactive with contractions and maintained stretch	4	4
E-10.	Patellar reflex in response to one brisk tap with pointed end of reflex hammer.	<u>RIGHT</u>	<u>LEFT</u>
	Absent	0	0
	Knee extension present but diminished or weak	1	1
	Normal contraction of quadriceps and knee extension	2	2
	Hyperactive, contraction and/or extension	3	3
	Hyperactive with contractions and maintained stretch	4	4

E-11.	Quadriceps bulk and shape.	<u>RIGHT</u>	<u>LEFT</u>
	Atrophy/flattening	1	1
	Full/convex	2	2

E-12.	Tone of quadriceps.	<u>RIGHT</u>	<u>LEFT</u>
	Abnormal	1	1
	Describe: _____ (hypotonic, flaccid, rigid, spastic, etc.)		
	Normal	2	2

E-13.	Calf bulk and shape.	<u>RIGHT</u>	<u>LEFT</u>
	Atrophy/flattening	1	1
	Full/convex	2	2

E-14.	Quadriceps power and strength against gravity and resistance.	<u>RIGHT</u>	<u>LEFT</u>
	No movement	0	0
	Trace of contraction with no movement	1	1
	Movement present but cannot be sustained against gravity	2	2
	Movement against gravity but not applied resistance	3	3
	Movement against some degree of resistance	4	4
	Full power	5	5

E-15.	Hamstrings power and strength against gravity and resistance.	<u>RIGHT</u>	<u>LEFT</u>
	No movement	0	0
	Trace of contraction with no movement	1	1
	Movement present but cannot be sustained against gravity	2	2
	Movement against gravity but not applied resistance	3	3
	Movement against some degree of resistance	4	4
	Full power	5	5

E-16.	Iliopsoas (hip flexors) power and strength against gravity and resistance.	<u>RIGHT</u>	<u>LEFT</u>
	No movement	0	0
	Trace of contraction with no movement	1	1
	Movement present but cannot be sustained against gravity	2	2
	Movement against gravity but not applied resistance	3	3
	Movement against some degree of resistance	4	4
	Full power	5	5

E-17.	Ankle flexors (dorsiflexion) power and strength against gravity and resistance.	<u>RIGHT</u>	<u>LEFT</u>
	No movement	0	0
	Trace of contraction with no movement	1	1
	Movement present but cannot be sustained against gravity	2	2
	Movement against gravity but not applied resistance	3	3
	Movement against some degree of resistance	4	4
	Full power	5	5

E-18.	Ankle extensors (plantar flexion) power and strength against gravity and resistance.	<u>RIGHT</u>	<u>LEFT</u>
	No movement	0	0
	Trace of contraction with no movement	1	1
	Movement present but cannot be sustained against gravity	2	2
	Movement against gravity but not applied resistance	3	3
	Movement against some degree of resistance	4	4
	Full power	5	5

F. EXAM WITH SUBJECT STANDING ON FLOOR

MANEUVER	DEGREE OF IMPAIRMENT
<p>F-1. Walk on heels for 10 feet.</p> <p style="padding-left: 40px;">Impaired performance 1 →</p> <p style="padding-left: 40px;">Normal performance 2</p> <p style="padding-left: 40px;">Not attempted 0 } (F-2)</p>	<p>Walks 7 feet without abnormality, or 10 feet with some abnormality in gait 1</p> <p>Walks < 7 feet and/or noticeable abnormality in gait 2</p> <p>Unable to perform 3</p>
<p>F-2. Walk on toes for 10 feet.</p> <p style="padding-left: 40px;">Impaired performance 1 →</p> <p style="padding-left: 40px;">Normal performance 2</p> <p style="padding-left: 40px;">Not attempted 0 } (F-3)</p>	<p>Walks 7 feet without abnormality, or 10 feet with some abnormality in gait..... 1</p> <p>Walks < 7 feet and/or noticeable abnormality in gait 2</p> <p>Unable to perform 3</p>
<p>F-3. Walk forward heels-to-toes for 10 feet in a straight line.</p> <p style="padding-left: 40px;">Impaired performance 1 →</p> <p style="padding-left: 40px;">Normal performance 2</p> <p style="padding-left: 40px;">Not attempted 0 } (F-4)</p>	<p>Walks 7 feet without abnormality, or 10 feet with some abnormality in gait..... 1</p> <p>Walks < 7 feet and/or noticeable abnormality in gait 2</p> <p>Unable to perform 3</p>
<p>F-4. Walk backward toes-to-heels for 10 feet in a straight line.</p> <p style="padding-left: 40px;">Impaired performance 1 →</p> <p style="padding-left: 40px;">Normal performance 2</p> <p style="padding-left: 40px;">Not attempted 0 } (F-5)</p>	<p>Walks 7 feet without abnormality, or 10 feet with some abnormality in gait..... 1</p> <p>Walks < 7 feet and/or noticeable abnormality in gait 2</p> <p>Unable to perform 3</p>
<p>F-5. Rise from chair without using hands.</p> <p style="padding-left: 40px;">Impaired performance 1 →</p> <p style="padding-left: 40px;">Normal performance 2</p> <p style="padding-left: 40px;">Not attempted 0 } (F-6)</p>	<p>Steadies body with hands 1</p> <p>Uses hand to push up 2</p> <p>Unable to perform 3</p>

MANEUVER	DEGREE OF IMPAIRMENT
<p>F-6. Stand with feet together, arms extended forward, and eyes closed (20-30 sec.)</p> <p>Impaired performance 1 →</p> <p>Normal performance 2</p> <p>Not attempted 0 } (F-7)</p>	<p>Barely noticeable pronator drift 1</p> <p>Noticeable pronator drift 2</p> <p>Unable to perform 3</p>
<p>F-7. Stand with feet together, arms at the side and eyes closed (20-30 sec.)</p> <p>Impaired performance 1 →</p> <p>Normal performance 2</p> <p>Not attempted 0 } (F-8)</p>	<p>Unsteady, no corrective step 1</p> <p>Sways to take corrective step 2</p> <p>Unable to perform 3</p>
<p>F-8. Foot tapping, dominant foot. (from A-2)</p> <p>Impaired performance 1 →</p> <p>Normal performance 2</p> <p>Not attempted 0 } (G-1)</p>	<p>1-2 taps/sec 1</p> <p>< 1 tap/sec 2</p> <p>Unable to perform 3</p>

G. INJECTION DRUG USE

G-1. **(DO NOT ASK)** Were needle tracks observed anywhere on the subject's body?

YES 1 (G-2)
NO 2 (H-1)

G-2 **(DO NOT ASK)** Where were the needle tracks located?

[SPECIFY LOCATION(S)]

