

NEURO/ MUSCULOSKELETAL EXAM

EXAMINATION SKILLS	Satisfactory/ Unsatisfactory
<p>1. Do camera angles allow the instructor to view all elements of the physical exam?</p> <p>2. Is the recording completed in one take (no pauses or interruptions)?</p> <p>3. Is the student referencing the check off sheet only briefly, a few times?</p> <p>4. Is the student's physical examination technique correct for more than 80% of all of the exam elements?</p> <p>If the answer is "NO" to any of these questions, mark INCOMPLETE, students will need to repeat the examination per the syllabus</p>	
SITTING	
<p>1. Ensures Privacy</p> <ul style="list-style-type: none"> • Introduces self & explains role • Confirms Patient Identity • Informs patient they will be verbally describing the examination 	
<p>2. Performs Hand Hygiene</p>	
<p>3. Inspects Appearance, comments on:</p> <ul style="list-style-type: none"> • Dress, posture, grooming, & hygiene • Stature & build • Nutritional state 	
<p>4. Inspects Behavior, comments on:</p> <ul style="list-style-type: none"> • Degree if Cooperativeness • State of distress • Affect • Eye Contact • Motor activity (normokinetic, bradykinetic, hyperkinetic) 	
<p>5. Assesses Mood, asks patient about mood, comments on:</p> <ul style="list-style-type: none"> • Congruence with situation & affect 	
<p>6. Assess Orientation to person, time, and place</p> <ul style="list-style-type: none"> • What is your name and DOB? • What is today's date and season of the year? • What is the name of this place or building? <p>Comments on:</p> <ul style="list-style-type: none"> • Interpretation, significance 	
<p>7. Tests Memory</p> <ul style="list-style-type: none"> • Recent (short-term): ex. "What did you eat for breakfast?" • Remote (long-term): ex. "What did you do for your last birthday?" • Short-term Recall & Attention: Instruct patient to repeat 3 unrelated objects immediately & after 5 minutes <p>Comments on:</p> <ul style="list-style-type: none"> • Interpretation, significance 	

<p>8. Tests Coordination</p> <ul style="list-style-type: none"> • Arm Dystaxia: Instructs patient to alternate hands touching nose, eyes closed • Rapid Alternating Movements: Instructs patient to touch each finger to the thumb of the same hand, both hands simultaneously, as fast as possible • Leg Dystaxia: Instruct patient to run heel from opposite knee down shin in a straight line. <p>Comments on:</p> <ul style="list-style-type: none"> • Smoothness of movement • Speed • Rhythm 	
<p>9. Tests Sensory Function, instructs patient to close eyes throughout</p> <ul style="list-style-type: none"> • Exteroceptive Sensation <ul style="list-style-type: none"> ○ Instructs patient to say “dull” or “sharp” when felt ○ Touches extremities, first distal, then proximal, with cotton & toothpick • Proprioception <ul style="list-style-type: none"> ○ Instructs patient to say “up” or “down” ○ Holding a distal joint at the sides, position up or down, repeat bilaterally • Graphesthesia <ul style="list-style-type: none"> ○ Instructs patient to identify the number or letter ○ Draws letter or number on palm, repeat bilaterally • Stereognosis <ul style="list-style-type: none"> ○ Instructs patient to identify object & places object in patient’s hand <p>Comments on:</p> <ul style="list-style-type: none"> • Interpretation, significance 	
<p>10. Tests Deep Tendon Reflexes bilaterally, instructs patient to relax, supports position</p> <ul style="list-style-type: none"> • Biceps: elbow partially flexed and forearm pronated with palm down, places thumb on biceps tendon, strikes tendon indirectly by striking hammer on finger • Triceps: sitting or supported technique. <i>Sitting</i>, flex arm at elbow with palm toward body and pull slightly across chest, strikes tendon above olecranon process just above elbow; <i>Supported</i>, support elbow at 90 degrees abduction and instruct patient to allow arm to go limp, strikes tendon above olecranon process • Brachioradialis: rest hand on lap with forearm partly pronated, strikes tendon above radial styloid process • Patellar: sitting position with feet dangling, strikes patellar tendon just below patella • Achilles: partially dorsiflex foot at ankle, strikes achilles tendon <p>Comments on:</p> <ul style="list-style-type: none"> • Grade, significance 	

<p>11. Inspects, palpates, and tests active ROM of Neck</p> <ul style="list-style-type: none"> • Flexion (45°) • Extension (55°) • Rotation (70°) • Lateral Bending (40°) <p>Comments on:</p> <ul style="list-style-type: none"> • Ecchymosis, erythema, edema, contour • Range of motion • Pain 	
<p>12. Inspects, palpates, and tests active ROM of bilateral Shoulders</p> <ul style="list-style-type: none"> • Identifies AC Joint • Flexion (180°) • Extension (60°) • Abduction (180°) • Adduction (50° - 90°) • Internal & External Rotation (90°) <p>Comments on:</p> <ul style="list-style-type: none"> • Ecchymosis, erythema, edema, contour • Range of motion • Pain 	
<p>13. Tests for Impingement</p> <ul style="list-style-type: none"> • Painful Arc Test: fully abducts shoulder to 180° • Neer's Sign: Internally rotate arm & passively flex shoulder • Hawkins-Kennedy Test: abducts shoulder 90° with palm facing down, internally rotates forearm <p>Comments on:</p> <ul style="list-style-type: none"> • Interpretation, significance 	
<p>14. Tests Shoulder Stability, performs Anterior Shoulder Apprehension Test</p> <ul style="list-style-type: none"> • Patient positioned supine on exam table • Shoulder passively abducted 90° and elbow flexed 90°, externally rotate forearm; apply anterior pressure on humerus to stabilize <p>Comments on:</p> <ul style="list-style-type: none"> • Interpretation, significance 	
<p>15. Tests for AC Joint disorder, performs Shoulder Scarf Test</p> <ul style="list-style-type: none"> • Rest hand on top of opposite shoulder, press elbow to push hand back <p>Comments on:</p> <ul style="list-style-type: none"> • Interpretation, significance 	
<p>16. Tests for Scapular Instability, performs Lift-Off Test</p> <ul style="list-style-type: none"> • Places dorsum of hand against mid-lumbar spine • Instructs patient to lift their hand away from their back; repeat while applying resistance <p>Comments on:</p> <ul style="list-style-type: none"> • Interpretation, significance 	

<p>17. Inspects, palpates, and tests active ROM of bilateral Elbows</p> <ul style="list-style-type: none"> Identifies medial & lateral Epicondyles & Olecranon Process Flexion (160°) Extension (180°) Supination & Pronation (90°) <p>Comments on:</p> <ul style="list-style-type: none"> Ecchymosis, erythema, edema, contour Range of motion Pain 	
<p>18. Tests for Epicondylitis</p> <ul style="list-style-type: none"> Medial (Golfer's Elbow): palpate medial epicondyle, passively supinate forearm with elbow 90° flexed & supported, extends wrist/fingers and extends elbow fully Lateral (Tennis Elbow): palpate lateral epicondyle, passively pronate forearm with elbow 90° flexion & supported, flexes wrist/fist and extends elbow fully <p>Comments on:</p> <ul style="list-style-type: none"> Interpretation, significance 	
<p>19. Inspects, palpates, and tests active ROM of bilateral Wrists</p> <ul style="list-style-type: none"> Extension (70°) Flexion (70 - 90°) Radial deviation (20°) Ulnar deviation (30-55°) <p>Comments on:</p> <ul style="list-style-type: none"> Ecchymosis, erythema, edema, contour Range of motion Pain 	
<p>20. Inspects, palpates, and tests active ROM of bilateral Hands & Fingers</p> <ul style="list-style-type: none"> Identifies "Snuffbox" Instructs patient to: <ul style="list-style-type: none"> Make fist with thumb across knuckles Extend and spread/flare fingers Touch each digit to thumb <p>Comments on:</p> <ul style="list-style-type: none"> Ecchymosis, erythema, edema, contour Range of motion Pain Number, completeness, position, shape, & symmetry of digits 	
<p>21. Tests bilateral Grip Strength, comments on:</p> <ul style="list-style-type: none"> Interpretation, significance Grade 	

<p>22. Tests for Carpal Tunnel Syndrome</p> <ul style="list-style-type: none"> • Tinel's Sign: Percusses over median nerve in carpal tunnel • Phalen's Sign: Holds wrists in complete flexion, dorsums together for 60 seconds • Carpal Compression Test: With wrist supinated, applies pressure with both thumbs over median nerve in carpal tunnel <p>Comments on:</p> <ul style="list-style-type: none"> • Interpretation, significance 	
<p>23. Tests for de Quervain Tenosynovitis</p> <ul style="list-style-type: none"> • Finkelstein Test: Grasps thumb, ulnar deviates the hand <p>Comments on:</p> <ul style="list-style-type: none"> • Interpretation, significance 	
SUPINE	
<p>24. Tests for Meningeal Signs</p> <ul style="list-style-type: none"> • Brudzinski's Sign: Place one hand on chest, attempt to flex neck with other • Kernig's Sign: Flex hip and knee to 90 degrees and then slowly extend leg and straighten knee <p>Comments on:</p> <ul style="list-style-type: none"> • Interpretation, significance 	
<p>25. Tests Babinski Reflex</p> <ul style="list-style-type: none"> • Drag handle of reflex hammer firmly across lateral aspect of the sole from heel to ball of foot curving medially across ball <p>Comments on:</p> <ul style="list-style-type: none"> • Interpretation, significance 	
<p>26. Inspect, palpates, & tests active ROM of bilateral Hips, repositions as needed</p> <ul style="list-style-type: none"> • Identifies Iliac Crest, ASIS, PSIS, & Greater Trochanter • Flexion (with knee extended 90°; with knee flexed 130° - 150°) • Extension (prone; 5°- 40°) • Adduction (20° - 30°) • Abduction (45°) • Internal Rotation (35°- 45°) & External Rotation (40°-50°) <p>Comments on:</p> <ul style="list-style-type: none"> • Ecchymosis, erythema, edema, contour • Range of motion, presence or absence of Crepitus • Pain 	
<p>27. Inspects, palpates, & tests active ROM of bilateral Knees</p> <ul style="list-style-type: none"> • Identifies Suprapatellar Pouch, Popliteal Fossa, MCL, LCL, & Tibial Tubercle • Flexion (135°) • Extension (180°) <p>Comments on:</p> <ul style="list-style-type: none"> • Ecchymosis, erythema, edema, contour, Genu Varus or Valgum • Range of motion, presence or absence of Crepitus • Pain 	

<p>28. Tests for ACL & PCL Injury</p> <ul style="list-style-type: none"> • Anterior/Posterior Drawer Test: knee flexed to 90°, feet flat on table, grasps tibia just below knee with both hands, thumbs placed parallel to patellar tendon, draws tibia anteriorly & pushes tibia posteriorly • Lachman's Test: knee flexed to 20°-30°, grasps proximal tibia with one hand & femur other, pulls tibia anteriorly & pushes tibia posteriorly <p>Comments on:</p> <ul style="list-style-type: none"> • Interpretation, significance 	
<p>29. Tests for MCL & LCL Injury</p> <ul style="list-style-type: none"> • Varus Stress Test (LCL): knee flexed to 20-30°, stabilizes distal femur with one hand & applies varus pressure at distal tibia to adduct lower leg slightly • Valgus Stress Test (MCL): knee flexed to 20-30°, stabilizes distal femur with one hand & applies valgus pressure at distal tibia to abduct lower leg while restricting axial rotation <p>Comments on:</p> <ul style="list-style-type: none"> • Interpretation, significance 	
<p>30. Tests for Meniscal Tears with McMurray's Test</p> <ul style="list-style-type: none"> • Lateral Tears: With knee in complete flexion, holds bottom of foot with one hand & palpates knee joint with other, internally rotates tibia & extends knee • Medial Tears: With knee in complete flexion, holds bottom of foot with one hand & palpates knee joint with other, externally rotates tibia & extends knee <p>Comments on:</p> <ul style="list-style-type: none"> • Interpretation, significance 	
<p>31. Inspects, palpates, & tests active ROM of bilateral Ankles</p> <ul style="list-style-type: none"> • Dorsiflexion (20°) • Plantar Flexion (45°) • Eversion (20°) • Inversion (30°) <p>Comments on:</p> <ul style="list-style-type: none"> • Ecchymosis, erythema, edema, contour • Range of motion • Pain 	
<p>32. Tests Trunk Strength by assisting patient to sitting position, comments on:</p> <ul style="list-style-type: none"> • Degree of assistance needed 	
STANDING	

<p>33. Tests Balance & Gait, stands near patient to provide support if needed</p> <ul style="list-style-type: none"> • Romberg's Test: instructs patient to stand with feet together, then close eyes (assess for 30-60 seconds) • Pronator Drift: instructs patient to stand with arms extended, palms up (assess for 20 seconds) • Natural Gait: instructs patient to walk across room • Tandem Walking: instructs patient to walk heel-to-toe • Toes & Heels: instructs patient to walk across room on toes & back on heels <p>Comments on:</p> <ul style="list-style-type: none"> • Smoothness of movement • Balance, guarding • Weakness • Stiffness 	
<p>34. Tests for Meniscal Tears with Duck Walk Test</p> <ul style="list-style-type: none"> • Instruct patient to swat completely & waddle forward, backward & side-to-side <p>Comments on:</p> <ul style="list-style-type: none"> • Interpretation, significance 	
<p>35. Inspects, palpates, and test ROM of Spine</p> <ul style="list-style-type: none"> • Flexion (75°-90°) • Extension (30°) • Lateral bending (35°) • Rotation <p>Comments on:</p> <ul style="list-style-type: none"> • Ecchymosis, erythema, edema, contour • Range of motion • Pain • Posture • Alignment of shoulders, hips, & feet 	
<p>36. Tests for Scoliosis</p> <ul style="list-style-type: none"> • Instructs patient to bend forward with feet together, knees locked, arms in diving posture with fingertips aligned, head forward <p>Comments on:</p> <ul style="list-style-type: none"> • Interpretation, significance 	
37. Appropriately concludes the exam with the patient	