

### ASIA scale

A - complete	no motor or sensory
B - incomplete	sensory but no motor function below the specific level
C - motor incomplete	motor function is preserved below the specified level with more than half of the key muscles with muscle grade less than 3
D - motor incomplete	motor function is preserved below the specific level with at least half of key muscles with muscle grade more than 3
E - normal	

### assistance levels

standing	Total assist from C1 to C6. Some assist at C7. Independent at T1.
ambulation	Not functional at T1. Functional at T10 (may need some assistance).
feeding	Total assist from C1 to C4. Set up at C5, but independent with equipment. May require assistance for cutting. Independent at C7.
grooming	Total assist from C1 to C4. Functional at C5 with assistance. Modified independent at C6. Independent at C7.
dressing	Total assist from C1 to C5. Modified independent for the upper body. Moderate assistance for the lower body. Independent at T1.

### assistance levels (cont)

bathing	Total assist from C1 to C5. Independent for the upper body at C6. Assistance for lower extremity. Independent at T1.
bowel and bladder	Total assist from C1 to C5. At C6 begin training with A/E. Independent at T1.
bed mobility	Total assist from C1 to C4. Max assist at C5. Min to Mod assistance at C6. May be independent at C7. Independent by T1.
transfers	Total assist from C1 to C5. Some assist at C6. Independent at T1.
pressure relief and repositioning	Total assist from C1 to C4. Independent at C5 with adaptive equipment.
manual wheelchair propulsion	Total assist from C1 to C4. Some assist at C5. Independent indoors at C6. Independent also with level outdoor surfaces at C7. Independent at T1.
power wheelchair propulsion	Total assist from C1 to C3. Independent at C4.
IADLs	Total assist from C1 to C5. Light meal prep at C6. Independent at C7 for simple meal preparation and light homemaking. Will require assistance at all levels for heavy housecleaning.

### assistance levels (cont)

driving	Dependent from C1 to C5. Independent at C6.
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### motor function

c1- c3	+Neck flexion/extension/rotation/-lateral flexion +Swallowing No motor function in trunk, upper & lower extremities Ventilator dependent
c4	+Respiration/Inspiration(Diaphragm) +Scapular elevation No motor function in trunk, upper, & lower extremities
c5	+Shoulder flexion/abduction/extension/rotation +Elbow flexion +Forearm supination +Scapular adduction/abduction No elbow extension, pronation, wrist, or hand movements Paralysis of trunk and lower extremities
c6	+Scapular protraction/upward rotation +Shoulder horizontal adduction +Wrist extension (Tenodesis) No wrist flexion, elbow extension, or hand movement Paralysis of trunk and lower extremities
c7	+Shoulder internal rotation, adduction, depression +Elbow extension +Forearm pronation +Wrist flexion Paralysis of trunk and lower extremities
c8	+Digit extrinsics (FDS, FDP, EDC) with weak grasp
t1- t6	Full use of hands Some trunk (upper half) control
t7- t12	full trunk control
l1- s5	Partial control of lower extremities Partial paralysis of lower extremities (hips, knees, ankle, foot) Difficulty with bowel & bladder

### precautions and prevention

respiration	Aspiration, choking Minimize prolonged sitting for certain levels
autonomic dysreflexia	T4 or higher Signs & symptoms: elevated blood pressure, pounding headache, perspiring, chills, flushed, decreased heart rate. HTN at risk for hemorrhagic CVA. Activate emergency response Help lower blood pressure Sit upright. Remove abdominal binder Lower legs. Remove compression hose Check for catheter tube, full ladder, foot plate, feet crossed
orthostatic / postural hypotension	Recline Abdominal binder & compression hose before
pressure injuries	Due to sensation loss Lack of blood flow (necrosis) Ischial tuberosity, superior aspect of gluteal fold, heels, malleoli, elbows, trochanters, scapulae Educate Padding Float heels Repositioning Q-... Minimize shearing
bowel and bladder	Risk for infections with catheters Collaborate with nursing Reaching may be difficult for hygiene Lack of sensation may be difficult even with A/E

### functional goals and emphasis

c1-	ADLS – Dependent Caregiver education for ADLs & Equipment Ventilator supports (suction, battery) Power wheelchair with head support, reclining, pressure relief cushion, transfer board Mouth stick Bathing – Padded, reclining Pressure relief mattress Mechanical lifts Voice/Eye assistive technology Remote doorbell for caregiver assistance
c3	
c4	Shoulder shrugging to activate switch Ventilator – as required Power wheelchair – Sip and puff, head switches, voice control, pressure relief, head support, transfer board Hydraulic standing table, tilt table Call systems, environmental controls, mouthstick for page-turning & computer use
c5	Strengthen biceps Deltoid aid for feeding Potential to self-feed (eccentric contraction of elbow flexors to lower hand) Shoulder abduction to pick-up food Plate guard, place dycem under plate Grooming with some assistance (electric razors, electric toothbrush) Some dressing Dependent with toileting and bathing Typing stick for computer use Wrist cock-up (AM) and Intrinsic plus (PM) splints U-cuff for feeding, long straw, plate guard, mobile arm support

### functional goals and emphasis (cont)

c6	Slideboard transfers Power wheelchair with recliner (pressure relief) for most surfaces Manual wheelchair for smooth level surface ONLY, limited use to decrease scapular dysfunction Educate on use of Tenodesis grasp, Tenodesis brace Feeding: Dining with dignity silverware, U-cuff, cutting & opening packages Grooming: Adapted grooming aids, U-cuff, large top toothpaste with rubber bands Dressing: dressing independently (arm & thumb to hook); dependent with lower body dressing Elastic shoelaces, sock aid Bathing: adapted sponges, mitts, long-handle, grab bars, padded chairs Strengthen extensors Passively stretch wrist flexors and extensors with finger flexion Typing stick Driving: adapted hand controls
c7	Training with adaptive equipment Weight shifting
c8	Built-up handles Dycem (gripping utensils, electric toothbrush, etc.) Strengthening functional muscles
t1-t6	Manual wheelchair Trunk control/balance/awareness Hand mirror for skin checks

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