Canadian Neurological Scale
Reference Card

Assess: Vital Signs and Pupils

**Vital Signs:** BP, Temp, Pulse, Respirations, Oximetry

**Pupils:** Size and reaction to light

### Canadian Neurological Scale

**Section A:** MENTATION: LOC, Orientation, Speech

**Level of Consciousness:**
CNS (Alert, Drowsy) GCS (Stuporous, Comatose)

**Orientation:**
Place (city or hospital), Time (month and year)
*Patient can speak, write, or gesture their responses.

**SCORE:** Patient is Oriented, score 1.0, if they correctly state both place and correct month and year. If dysarthric, speech must be intelligible. If patient cannot state both, Disoriented, score 0.0

**Speech:**

**RECEPTIVE:** Ask patient the following separately (do not prompt by gesturing):
1. Close your eyes
2. “Does a stone sink in water?”
3. Point to the ceiling

**SCORE:** If patient is unable to do all three, Receptive Deficit, score 0.0, go to A2.

**Expressive:**
1. Show patient 3 items separately (pencil, watch, key) and ask patient to name each object.
2. Ask patient what each object is used for while holding each up again, i.e. “What do you do with a pencil?”

**SCORE:** If patient is able to state the name and use of all 3 objects, Normal Speech, score 1.0.
If patient is unable to state the name and use of all 3 objects, Expressive Deficit, score 0.5.

*If patient answers all questions correctly but speech is slurred and intelligible, score Normal Speech and record “SL” along with the score.
Section A1: MOTOR FUNCTION
No Receptive Deficit

**Face:** Ask patient to smile/grin, note weakness in mouth or nasal/labial folds.

**SCORE:** None/no weakness = 0.5 or Present/weakness = 0.0
Test both limbs and always record the side with the WORST deficit and indicate side by entering a R/L.

| None 1.5 | no weakness present |
| Mild 1.0 | mild weakness present, full ROM, cannot withstand resistance |
| Significant 0.5 | moderate weakness, some movement, not full ROM |
| Total 0.0 | complete loss of movement; total weakness |

**SCORE:**

**Arm:** Proximal - Ask patient to lift arm 45-90 degrees. Apply resistance between shoulder and elbow.

**Arm:** Distal - Ask patient to make fist and flex wrist backwards, apply resistance between wrist and knuckles.

**Leg:** Proximal - In supine, ask patient to flex hip to 90 degrees, apply pressure to mid thigh.

**Leg:** Distal - Ask patient to dorsiflex foot, apply resistance to top of foot.

Section A2: MOTOR RESPONSE
Receptive Deficit Present

**Face:** Have patient mimic your smile. If unable, note facial expression while applying sternal pressure.

**Arms:** Demonstrate or lift patient's arms to 90 degrees, score ability to maintain equal levels (>5 secs). If unable to maintain raised arms, apply nail bed pressure to assess reflex response.

**Legs:** Lift patient's hip to 90 degrees, score ability to maintain equal levels (>5 secs). If unable to maintain raised position, apply nail bed pressure to assess reflex response.

Reference:

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