Neurostatus-UHB

# Neurostatus-EDSS Scoring Sheet

Scoring Sheet for a standardised, quantified neurological examination and assessment of Functional Systems and Expanded Disability Status Scale in Multiple Sclerosis

STUDY TRAINING SPECIMEN

PERSONAL INFORMATION

| | |
|---|---|
| Patient | |
| Date of Birth (04-Jun-1980) | – – |
| Centre Nr/Country | |
| Name of EDSS rater | |
| Date of Examination | – – 2 0 |

SYNOPSIS

| | | |
|---|---|---|
| 1. Visual | [1] | Ambulation Score |
| 2. Brainstem | | |
| 3. Pyramidal | | EDSS Step |
| 4. Cerebellar | | |
| 5. Sensory | | |
| 6. Bowel/Bladder | [1] | Signature |
| 7. Cerebral | | |

## 1. VISUAL (OPTIC) FUNCTIONS

| OPTIC FUNCTIONS | OD | OS |
|---|---|---|
| Visual acuity ☐ CC ☐ SC | | |
| Visual fields | | |

| | | |
|---|---|---|
| Scotoma | | |
| * Disc pallor | | |
| FUNCTIONAL SYSTEM SCORE | → | [1] |

## 2. BRAINSTEM FUNCTIONS

| CRANIAL NERVE EXAMINATION | |
|---|---|
| Extraocular movements (EOM) impairment | |
| Nystagmus | |
| Trigeminal damage | |
| Facial weakness | |

| | |
|---|---|
| Hearing loss | |
| Dysarthria | |
| Dysphagia | |
| Other cranial nerve functions | |
| FUNCTIONAL SYSTEM SCORE | |

## 3. PYRAMIDAL FUNCTIONS

| REFLEXES | R | >< | L |
|---|---|---|---|
| Biceps | | | |
| Triceps | | | |
| Brachioradialis | | | |
| Knee | | | |
| Ankle | | | |
| Plantar response | | | |
| Cutaneous reflexes | | | |
| * Palmomental reflex | | | |

| LIMB STRENGTH | R | L |
|---|---|---|
| Deltoid | | |
| Biceps | | |
| Triceps | | |
| Wrist/finger flexors | | |
| Wrist/finger extensors | | |
| Hip flexors | | |
| Knee flexors | | |

| | | |
|---|---|---|
| Knee extensors | | |
| Plantar flexion (feet/toes) | | |
| Dorsiflexion (feet/toes) | | |
| * Position test UE, pronation | | |
| * Position test UE, downward drift | | |
| * Position test LE, sinking | | |
| * Able to lift only one leg at a time (grade in °) | ° | ° |
| * Walking on heels | | |
| * Walking on toes | | |
| * Hopping on one foot | | |
| SPASTICITY | | |
| Arms | | |
| Legs | | |
| Gait | | |
| OVERALL MOTOR PERFORMANCE | | |
| FUNCTIONAL SYSTEM SCORE | | |

CC = corrected
SC = without correction
* = optional part of the examination
[1] = converted FS Score

## 4. CEREBELLAR FUNCTIONS

| CEREBELLAR EXAMINATION | | | Rapid alternating movements UE impairment | | |
|---|---|---|---|---|---|
| Head tremor | | | Rapid alternating movements LE impairment | | |
| Truncal ataxia | | | Tandem walking | | |
| | R | L | Gait ataxia | | |
| Tremor/dysmetria UE | | | Romberg test | | |
| Tremor/dysmetria LE | | | Other, e. g. rebound | | |
| | | | FUNCTIONAL SYSTEM SCORE | | |

## 5. SENSORY FUNCTIONS

| SENSORY EXAMINATION | R | L | Position sense UE | | |
|---|---|---|---|---|---|
| Superficial sensation UE | | | Position sense LE | | |
| Superficial sensation trunk | | | * Lhermitte's sign | | |
| Superficial sensation LE | | | * Paraesthesiae UE | | |
| Vibration sense UE | | | * Paraesthesiae trunk | | |
| Vibration sense LE | | | * Paraesthesiae LE | | |
| | | | FUNCTIONAL SYSTEM SCORE | | |

## 6. BOWEL/ BLADDER FUNCTIONS

| Urinary hesitancy/retention | | Bowel dysfunction | |
|---|---|---|---|
| Urinary urgency/incontinence | | * Sexual dysfunction | |
| Bladder catheterisation | | FUNCTIONAL SYSTEM SCORE → | [1] |

## 7. CEREBRAL FUNCTIONS

| MENTAL STATUS EXAMINATION | | Decrease in mentation | |
|---|---|---|---|
| ° Depression | | + Fatigue | |
| ° Euphoria | | FUNCTIONAL SYSTEM SCORE | |

## AMBULATION

| Distance reported by patient (in meters) | | Assistance | |
|---|---|---|---|
| Time reported by patient (in minutes) | | Distance measured (in meters) | |
| | | AMBULATION SCORE | |

* = optional part of the examination
[1] = converted FS Score
° Depression and Euphoria are not taken into consideration for FS and EDSS calculation.
+ Because fatigue is difficult to evaluate objectively, in some studies it does not contribute to the Cerebral FS score or EDSS step. Please adhere to the study's specific instructions.

UE = upper extremities
LE = lower extremities

Standardised Neurological Examination and Assessment of Functional Systems and Expanded Disability Status Scale
Slightly modified from J.F. Kurtzke, Neurology 1983:33,1444-52
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