

# NEUROSTATUS SCORING

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

STUDY NAME

.....

PERSONAL INFORMATION

Patient

Date of Birth (04-Jun-1980) --

Centre Nr/Country

Name of EDSS rater

Date of Examination --20

SYNOPSIS

1. Visual	<input type="text"/>	<sup>1</sup>	Ambulation Score	<input type="text"/>
2. Brainstem	<input type="text"/>			
3. Pyramidal	<input type="text"/>		EDSS Step	<input type="text"/>
4. Cerebellar	<input type="text"/>			
5. Sensory	<input type="text"/>			
6. Bowel/Bladder	<input type="text"/>	<sup>1</sup>	Signature	<input type="text"/>
7. Cerebral	<input type="text"/>			

## 1. VISUAL (OPTIC) FUNCTIONS

OPTIC FUNCTIONS		OD	OS	Scotoma	<input type="text"/>	<input type="text"/>
Visual acuity	<input type="checkbox"/> CC <input type="checkbox"/> SC	<input type="text"/>	<input type="text"/>	* Disc pallor	<input type="text"/>	<input type="text"/>
Visual fields		<input type="text"/>	<input type="text"/>	FUNCTIONAL SYSTEM SCORE	<input type="text"/>	<input type="text"/>

## 2. BRAINSTEM FUNCTIONS

CRANIAL NERVE EXAMINATION		Hearing loss	<input type="text"/>
Extraocular movements (EOM) impairment	<input type="text"/>	Dysarthria	<input type="text"/>
Nystagmus	<input type="text"/>	Dysphagia	<input type="text"/>
Trigeminal damage	<input type="text"/>	Other cranial nerve functions	<input type="text"/>
Facial weakness	<input type="text"/>	FUNCTIONAL SYSTEM SCORE	<input type="text"/>

## 3. PYRAMIDAL FUNCTIONS

REFLEXES	R	> <	L			
Biceps	<input type="text"/>	<input type="text"/>	<input type="text"/>	Knee extensors	<input type="text"/>	<input type="text"/>
Triceps	<input type="text"/>	<input type="text"/>	<input type="text"/>	Plantar flexion (feet/toes)	<input type="text"/>	<input type="text"/>
Brachioradialis	<input type="text"/>	<input type="text"/>	<input type="text"/>	Dorsiflexion (feet/toes)	<input type="text"/>	<input type="text"/>
Knee	<input type="text"/>	<input type="text"/>	<input type="text"/>	* Position test UE, pronation	<input type="text"/>	<input type="text"/>
Ankle	<input type="text"/>	<input type="text"/>	<input type="text"/>	* Position test UE, downward drift	<input type="text"/>	<input type="text"/>
Plantar response	<input type="text"/>	<input type="text"/>	<input type="text"/>	* Position test LE, sinking	<input type="text"/>	<input type="text"/>
Cutaneous reflexes	<input type="text"/>	<input type="text"/>	<input type="text"/>	* Able to lift only one leg at a time (grade in °)	<input type="text"/>	<input type="text"/>
* Palmomental reflex	<input type="text"/>	<input type="text"/>	<input type="text"/>	* Walking on heels	<input type="text"/>	<input type="text"/>
LIMB STRENGTH	R	L		* Walking on toes	<input type="text"/>	<input type="text"/>
Deltoid	<input type="text"/>	<input type="text"/>		* Hopping on one foot	<input type="text"/>	<input type="text"/>
Biceps	<input type="text"/>	<input type="text"/>		SPASTICITY		
Triceps	<input type="text"/>	<input type="text"/>		Arms	<input type="text"/>	<input type="text"/>
Wrist/finger flexors	<input type="text"/>	<input type="text"/>		Legs	<input type="text"/>	<input type="text"/>
Wrist/finger extensors	<input type="text"/>	<input type="text"/>		Gait	<input type="text"/>	<input type="text"/>
Hip flexors	<input type="text"/>	<input type="text"/>		OVERALL MOTOR PERFORMANCE	<input type="text"/>	
Knee flexors	<input type="text"/>	<input type="text"/>		FUNCTIONAL SYSTEM SCORE	<input type="text"/>	<input type="text"/>

CC = corrected                      \* = optional part of the examination  
 SC = without correction        <sup>1</sup> = converted FS Score

#### 4. CEREBELLAR FUNCTIONS

CEREBELLAR EXAMINATION			Rapid alternating movements UE impairment	
Head tremor	<input type="text"/>		<input type="text"/>	<input type="text"/>
Truncal ataxia	<input type="text"/>		<input type="text"/>	<input type="text"/>
	R	L	Tandem walking	
Tremor/dysmetria UE	<input type="text"/>	<input type="text"/>	Gait ataxia	
Tremor/dysmetria LE	<input type="text"/>	<input type="text"/>	Romberg test	
			Other, e. g. rebound	
			FUNCTIONAL SYSTEM SCORE	

#### 5. SENSORY FUNCTIONS

SENSORY EXAMINATION			Position sense UE	
	R	L	<input type="text"/>	<input type="text"/>
Superficial sensation UE	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Superficial sensation trunk	<input type="text"/>	<input type="text"/>	* Lhermitte's sign	
Superficial sensation LE	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Vibration sense UE	<input type="text"/>	<input type="text"/>	* Paraesthesiae UE	
Vibration sense LE	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
			* Paraesthesiae trunk	
			<input type="text"/>	<input type="text"/>
			* Paraesthesiae LE	
			<input type="text"/>	<input type="text"/>
			FUNCTIONAL SYSTEM SCORE	

#### 6. BOWEL/ BLADDER FUNCTIONS

Urinary hesitancy/retention	<input type="text"/>	Bowel dysfunction	<input type="text"/>
Urinary urgency/incontinence	<input type="text"/>	* Sexual dysfunction	<input type="text"/>
Bladder catheterisation	<input type="text"/>	FUNCTIONAL SYSTEM SCORE	<input type="text"/> → <input type="text"/>

#### 7. CEREBRAL FUNCTIONS

MENTAL STATUS EXAMINATION		Decrease in mentation	
° Depression	<input type="text"/>	<input type="text"/>	
° Euphoria	<input type="text"/>	+ Fatigue	
		FUNCTIONAL SYSTEM SCORE	

#### AMBULATION

Distance reported by patient (in meters)	<input type="text"/>	Assistance	<input type="text"/>
Time reported by patient (in minutes)	<input type="text"/>	Distance measured (in meters)	<input type="text"/>
		AMBULATION SCORE	<input type="text"/>

\* = optional part of the examination

<sup>1</sup> = 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