

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 **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		Ambulation Score	
2. Brainstem			
3. Pyramidal		EDSS Step	
4. Cerebellar			
5. Sensory			
6. Bowel/Bladder		Signature	
7. Cerebral			

1. VISUAL (OPTIC) FUNCTIONS

OPTIC FUNCTIONS	OD	OS	Scotoma	
Visual acuity ☐ CC ☐ SC			* Disc pallor	
Visual fields			FUNCTIONAL SYSTEM SCORE	→

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

CC = corrected

SC = without correction

* = optional part of the examination

¹ = converted FS Score

4. CEREBELLAR FUNCTIONS

CEREBELLAR EXAMINATION				
Head tremor			Rapid alternating movements UE impairment	
Truncal ataxia			Rapid alternating movements LE impairment	
	R	L	Tandem walking	
Tremor/dysmetria UE			Gait ataxia	
Tremor/dysmetria LE			Romberg test	
			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				
◦ Depression			Decrease in mentation	
◦ Euphoria			+ Fatigue	
			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