

## KURTZKE FUNCTIONAL SYSTEMS SCORES:

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### Pyramidal Functions

- (0) Normal
- (1) Abnormal signs without disability
- (2) Minimal disability
- (3) Mild or moderate paraparesis or hemiparesis; severe monoparesis
- (4) Marked paraparesis or hemiparesis; moderate quadriparesis; or monoplegia
- (5) Paraplegia, hemiplegia, or marked quadriparesis
- (6) Quadriplegia
- Unknown

### Cerebellar Functions

- (0) Normal
- (1) Abnormal signs without disability
- (2) Mild ataxia
- (3) Moderate truncal or limb ataxia
- (4) Severe ataxia, all limbs
- (5) Unable to perform coordinated movements due to ataxia
- Unknown
- Check here when weakness (grade 3 or more on pyramidal) interferes with testing

### Brain Stem Functions

- (0) Normal
- (1) Signs only
- (2) Moderate nystagmus or other mild disability
- (3) Severe nystagmus, marked extraocular weakness, or moderate disability of other cranial nerves
- (4) Marked dysarthria or other marked disability
- (5) Inability to swallow or speak
- Unknown

### Sensory Functions

- (0) Normal
- (1) Vibration or figure-writing decrease only, in one or two limbs
- (2) Mild decrease in touch or pain or position sense, and/or moderate decrease in vibration in one or two limbs; or vibratory (c/s figure writing) decrease alone in three or four limbs
- (3) Moderate decrease in touch or pain or position sense, and/or essentially lost vibration in one or two limbs; or mild decrease in touch or pain and/or moderate decrease in all proprioceptive tests in three or four limbs
- (4) Marked decrease in touch or pain or loss of proprioception, alone or combined, in one or two limbs; or moderate decrease in touch or pain and/or severe proprioceptive decrease in more than two limbs
- (5) Loss (essentially) of sensation in one or two limbs; or moderate decrease in touch or pain and/or loss of proprioception for most of the body below the head
- (6) Sensation essentially lost below the head
- Unknown

### Bowel and Bladder Functions

- (0) Normal
- (1) Mild urinary hesitancy, urgency, or retention
- (2) Moderate hesitancy, urgency, retention of bowel or bladder, or rare urinary incontinence
- (3) Frequent urinary incontinence
- (4) In need of almost constant catheterization
- (5) Loss of bladder function
- (6) Loss of bowel and bladder function
- Unknown

**Visual (or Optic) Functions**

- (0) Normal
- (1) Scotoma with visual acuity (corrected) better than 20/30
- (2) Worse eye with scotoma with maximal visual acuity (corrected) of 20/30 to 20/59
- (3) Worse eye with large scotoma, or moderate decrease in fields, but with maximal visual acuity (corrected) of 20/60 to 20/99
- (4) Worse eye with marked decrease of fields and maximal visual acuity (corrected) of 20/100 to 20/200; grade 3 plus maximal acuity of better eye of 20/60 or less.
- (5) Worse eye with maximal visual acuity (corrected) less than 20/200; grade 4 plus maximal acuity of better eye of 20/60 or less
- (6) Grade 5 plus maximal visual acuity of better eye of 20/60 or less
- Unknown
- Check here for presence of temporal pallor

**Cerebral (or Mental) Functions**

- (0) Normal
- (1) Mood alteration only (does not affect DSS score)
- (2) Mild decrease in mentation
- (3) Moderate decrease in mentation
- (4) Marked decrease in mentation (chronic brain syndrome - moderate)
- (5) Dementia or chronic brain syndrome - severe or incompetent
- Unknown

**Other Functions**

- (0) None
- (1) Any other neurologic findings attributed to MS (specify): \_\_\_\_\_
- Unknown