1. Cranial Segment

Table . Data collection grid—face and tongue muscle condition

| Muscle Group | Atrophy | Fasciculations | Weakness | Not Assessed |
| --- | --- | --- | --- | --- |
| Upper face | Not applicable | Yes  No | Yes  No | Not Assessed |
| Lower face | Not applicable | Yes  No | Yes  No | Not Assessed |
| Tongue | Yes No | Yes  No | Yes  No | Not Assessed |

Tongue movements:  Normal  Slow  No movement  Not Assessed

Dysarthria  None  Dysarthria  Anarthria  Not Assessed

Jaw Jerk  Absent  Present  Brisk  Clonus  Not Assessed

Additional Comments:

1. Cervical Segment
2. Neck strength (use values between 0 and 5)

Neck flexion:

Neck extension:

1. Muscles

Table . Data collection grid—arm muscle condition

| Intentionally Left Blank | RIGHT ARM | LEFT ARM |
| --- | --- | --- |
| Atrophy | Yes  No  Not Assessed | Yes  No  Not Assessed |
| Fasciculations | Yes  No  Not Assessed | Yes  No  Not Assessed |
| Hoffman | Absent  Present  Not Assessed | Absent  Present  Not Assessed |
| Muscle Tone | Normal  Flaccid  Spastic | Normal  Flaccid  Spastic |
| Normal Reflexes? | Yes  No (complete 2c)  Not Assessed | Yes  No (complete 2c)  Not Assessed |

1. Reflexes

Right Arm:

Elbow flexors:  Absent  Diminished  Normal  Brisk

Brachioradialis:  Absent  Diminished  Normal  Brisk

Elbow extensors:  Absent  Diminished  Normal  Brisk

Left Arm:

Elbow flexors:  Absent  Diminished  Normal  Brisk

Brachioradialis:  Absent  Diminished  Normal  Brisk

Elbow extensors:  Absent  Diminished  Normal  Brisk

1. Arm strength

Right Arm:  Normal  Abnormal (complete 2e)  Not Assessed

Left Arm:  Normal  Abnormal (complete 2e)  Not Assessed

1. Muscle Strength Abnormalities

Table . Data collection grid—arm muscle strength abnormalities.

Record strength (between 0 and 4) for each muscle with abnormal strength

| Intentionally Left Blank | RIGHT ARM | LEFT ARM |
| --- | --- | --- |
| Shoulder abduction | Data to be filled in by site | Data to be filled in by site |
| Elbow flexors | Data to be filled in by site | Data to be filled in by site |
| Elbow extensors | Data to be filled in by site | Data to be filled in by site |
| Wrist flexors | Data to be filled in by site | Data to be filled in by site |
| Wrist extensors | Data to be filled in by site | Data to be filled in by site |
| Finger flexors | Data to be filled in by site | Data to be filled in by site |
| Finger extensors | Data to be filled in by site | Data to be filled in by site |
| First Dorsal Interosseous(FDI) | Data to be filled in by site | Data to be filled in by site |
| Abductor Digiti Minimi(ADM) | Data to be filled in by site | Data to be filled in by site |
| Abductor Pollicis Brevis (APB) | Data to be filled in by site | Data to be filled in by site |

Additional Comments:

1. Thoracic Segment

Thoracic paraspinal fasciculations  Present  Absent  Not Assessed

Abdominal wall fasciculations  Present  Absent  Not Assessed

Superficial abdominal reflexes  Present  Absent  Not Assessed

Additional Comments:

1. Lumbosacral Segment
2. Leg muscles

Table Lumbosacral Segment Collection Grid

|  |  |  |
| --- | --- | --- |
| Intentionally Left Blank | RIGHT LEG | LEFT LEG |
| Atrophy | Yes  No  Not Assessed | Yes  No  Not Assessed |
| Fasciculations | Yes  No  Not Assessed | Yes  No  Not Assessed |
| Plantar | Normal  Extensor  Indeterminate | Normal  Extensor  Indeterminate |
| Muscle Tone | Normal  Flaccid  Spastic | Normal  Flaccid  Spastic |
| Normal Reflexes? | Yes  No (complete 4b)  Not Assessed | Yes  No (complete 4b)  Not Assessed |

1. Reflexes

Right Leg

Patellar:  Absent  Diminished  Normal  Brisk

Ankle:  Absent  Diminished  Normal  Brisk

Left Leg

Patellar:  Absent  Diminished  Normal  Brisk

Ankle:  Absent  Diminished  Normal  Brisk

1. Leg strength

Right leg:  Normal  Abnormal (complete d)  Not Assessed

Left leg:  Normal  Abnormal (complete d)  Not Assessed

1. Muscle Strength Abnormalities

Table . Data collection grid—leg muscle strength abnormalities.

Record the strength (between 0 and 4) for each muscle with strength abnormalities:

|  |  |  |
| --- | --- | --- |
| Intentionally Left Blank | RIGHT LEG | LEFT LEG |
| Hip flexion | Data to be filled out by site | Data to be filled out by site |
| Hip extension | Data to be filled out by site | Data to be filled out by site |
| Hip abduction | Data to be filled out by site | Data to be filled out by site |
| Hip adduction | Data to be filled out by site | Data to be filled out by site |
| Knee flexion | Data to be filled out by site | Data to be filled out by site |
| Knee extension | Data to be filled out by site | Data to be filled out by site |
| Ankle dorsiflexion | Data to be filled out by site | Data to be filled out by site |
| Ankle plantar flexion | Data to be filled out by site | Data to be filled out by site |
| Ankle inversion | Data to be filled out by site | Data to be filled out by site |
| Ankle eversion | Data to be filled out by site | Data to be filled out by site |
| Toe extensors | Data to be filled out by site | Data to be filled out by site |
| Toe flexors | Data to be filled out by site | Data to be filled out by site |

Additional Comments:

1. Gait Assessment

Gait  Normal  Abnormal  Not assessed

Gait on heels  Normal  Abnormal  Not assessed

Gait on toes  Normal  Abnormal  Not assessed

## General Instructions

This form contains data elements related to muscle and gait function.

Important note: None of the data elements included on this CRF Module are considered Core (i.e., required for all ALS clinical studies to collect). All data elements are considered supplemental (i.e., non Core) and should only be collected if the research team considers them appropriate for their study.

## Specific Instructions

Please see the Data Dictionary for definitions for each of the data elements included in this CRF Module.

* Cranial Segment Atrophy–To be answered only for Tongue
* Cervical Segment Neck Strength-Record neck strength using values between 0-5
* Cervical Segment Normal Reflexes–If No is answered, complete 2c. For all other answers skip to 2d.
* Cervical Segment Strength–If Normal is checked for right or left arms, leave 2f blank. If Abnormal is checked for right or left arms, complete 2f.
* Cervical Segment Muscle Strength Abnormalities-Record strength (between 0-4) for each abnormal muscle in the arms
* Lumbosacral Segment Normal Reflexes–If No is answered complete 4c. For all other answers, skip to table 4d
* Lumbosacral Segment Strength–If Normal is checked for right or left legs, leave 4e blank. If Abnormal is checked for right or left legs, complete 4e.
* Lumbosacral Segment Muscle Strength Abnormalities-Record strength (between 0-4) for each abnormal muscle in the legs