1. Was the muscle testing done?  Yes  No
2. Date Performed (yyyy-mm-dd):
3. Time Performed (24-hour clock):

|  | **Best Trial 1** | | | **Best Trial 2** | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Muscle[[1]](#footnote-1)** | **Result Trial 1** (include units) | **Break technique- Able to Break?** | **Reason No Result** | **Result Trial 2** (include units) | **Break technique- Able to Break?** | **Reason No Result** |
| LEFT SHOULDER FLEXION | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| RIGHT SHOULDER FLEXION | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| LEFT ELBOW FLEXION | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| RIGHT ELBOW FLEXION | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| LEFT ELBOW EXTENSION | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| RIGHT ELBOW EXTENSION | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| LEFT WRIST EXTENSION | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| RIGHT WRIST EXTENSION | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| LEFT HIP FLEXION | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| RIGHT HIP FLEXION | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| LEFT KNEE FLEXION | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| RIGHT KNEE FLEXION | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| LEFT KNEE EXTENSION | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| RIGHT KNEE EXTENSION | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| LEFT ANKLE DORSIFLEXION | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| RIGHT ANKLE DORSIFLEXION | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| LEFT FIRST DORSAL INTEROSSEOUS | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |
| RIGHT FIRST DORSAL INTEROSSEOUS | Data to be entered by site | Yes  No | Unable to test  Not done | Data to be entered by site | Yes  No | Unable to test  Not done |

## General Instructions

Investigators should use either a Manual Muscle Test or Quantitative Dynamometry to measure muscle strength. If a Manual Muscle Test is selected the MMT/MCR is the recommended element. If Quantitative Dynamometry is used, there are several to choose from depending on what is most appropriate for the study being conducted.

This CRF includes data typically recorded when quantifying muscle strength. It can also be used to determine if muscle strength has changed over the course of a study/treatment.

Additional rows may be used for other muscles tested.

Additional devices are required for this instrument.

Important note: None of the data elements on this CRF Module are classified as Core (i.e., strongly recommended for clinical studies to collect). All the data elements are classified as supplemental (i.e., non Core) and should only be collected if the research team considers them appropriate for their study. Please see the Data Dictionary for element classifications.

For ALS please note: No one test is superior, thus the ALS study should include at least one test from this Muscle Testing sub-domain.

## Specific Instructions

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

**Hand held dynamometry data and time performed** - The date/time should be recorded to the level of granularity known (e.g., year, year and month, complete date plus hours and minutes, etc.) and in the format acceptable to the study database.

**Trial number** – It is recommended that two hand held dynamometry trials be performed for each muscle.

**Trial results** – Answer should be recorded for each muscle type in pounds.

**Break technique –able to break** – Choose one. Answer for each muscle type and each trial.

**Reason no result** – Choose one. Answer for each muscle type and each trial.

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1. The specific muscles tested will depend on study aims and may include muscles not included here. [↑](#footnote-ref-1)