**TBS Study Test Sheet (05/02/2018)**

**\*\*\*Turn on power strip on the back wall. \*\*\***

**In-person Screening (Reaching Test for average reaction time)**

Paretic/ side: L / R

1. Reaching set-up measures

Maximum reach \_\_\_\_ cm 80% max reach \_\_\_\_ cm

1. Passive ideal hand path NDI file name: L button \_\_\_\_ R button \_\_\_\_ (Non Paretic)

L button \_\_\_\_ R button \_\_\_\_ (Paretic)

1. Unilateral **Non** **Paretic** SRT Reaching Test (10 trials x 2 blocks: 80% MAX Reach, **reach in closed fist**)

NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_ (SimpleRT\_eval)

**Reach Screening Test**

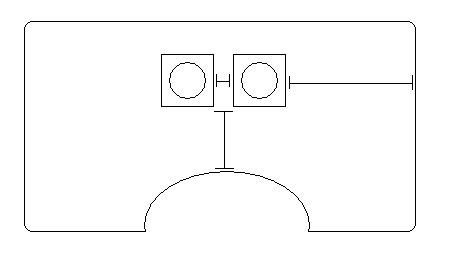
1. Unilateral **Paretic**  SRT Reaching Test (10 trials x 2 blocks: 80% MAX Reach, **reach in closed fist**)

NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_ (SimpleRT\_eval)

Mean: ­­­\_\_\_\_\_\_\_\_\_\_\_\_\_

SD: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SD: \_\_\_\_\_\_\_\_\_\_\_\_\_\_



b/w button: \_1.3\_ cm

C: \_51\_ cm

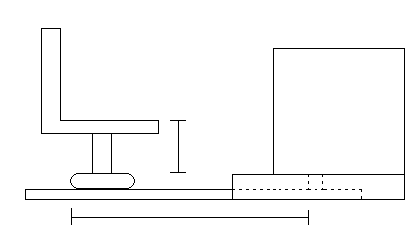
D: 80% MAX = \_\_\_\_ cm

E: \_\_\_\_ cm

F: \_\_\_\_ cm

C

D



F

E

**Adverse Events: Y / N (if yes, explain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)**

**Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**TMS Target Determination**

1. Contralesional M1 for both BB/TB & FDI \_\_\_\_

**(determine target that elicits the largest and most consistent MEPs from the specified muscles, may use muscle activation to determine best site)**

1. Ipsilesional M1 for both BB/TB & FDI \_\_\_\_

**(determine target that elicits the largest and most consistent MEPs from the specified muscles, if no MEPs elicited, then mirror the contralesional side)**

1. MEPs from affected FDI – Single-Pulse at Maximum Stimulator Output over hotspot for M1 for FDI x10 > 50 uV = \_\_\_/10

**(determine if MEPs are present at rest) Save File. File Name\_\_\_\_\_\_\_\_\_\_**

1. Contralesional PMd \_\_\_\_

**Point between the middle and posterior 2/3 of superior frontal sulcus**

1. Ipsilesional PMd \_\_\_\_

**Point between the middle and posterior 2/3 of superior frontal sulcus**

1. Contralesional DLPFC \_\_\_\_

**Anterior 2/3 of superior frontal sulcus**

1. Contralesional \_\_\_ (muscle) RMT = \_\_\_\_% (5/10 trials have > 50 uV)
2. Ipsilesional \_\_\_ (muscle) RMT = \_\_\_\_% (5/10 trials have > 50 uV)
3. Spreading test: Contralesional PMd **(<= 1/10 trials with MEPs) = \_\_\_% RMT**
4. Spreading test: Ipsilesional PMd **(<= 1/10 trials with MEPs) = \_\_\_% RMT**
5. **Randomization table entry for sites 1, 2, and 3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Note:

1. **Attach electrodes for both arms for this and subsequent sessions.**
2. For healthy subjects, use hemisphere Contralateral to dominant arm as if **Contralesional** hemisphere, use hemisphere Ipsilateral to dominant arm as if **Ipsilesional** hemisphere
3. PMd is defined as the center of the **posterior third** of **middle frontal gyrus** (F2), between the superior and inferior frontal sulci and just anterior to the precentral sulcus and motor hotspot (Adhab et al 2010).

**Adverse Events: Y / N (if yes, explain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)**

**Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Target (#, not specific site) \_\_\_\_\_\_ Day 1 – TMS Disruption**

1) Contralesional \_\_\_ (muscle) RMT = \_\_\_\_% (5/10 trials have > 50 uV)

\_\_\_% RMT= \_\_\_ % for DP disruption, ISI = 25 ms

2) Contralesional \_\_\_ (muscle) AMT = \_\_\_\_% (5/10 trials have > 100 uV)

EMG activation \_\_\_ to \_\_\_ RMS uV

3) Passive ideal hand path NDI file name:

L button \_\_\_\_ R button \_\_\_\_ (Paretic)

4) Instruct patients: “When one of the target lights comes on, quickly reach out to touch that target and then return to the start position.”

5) Unilateral Paretic CRT Reaching Test with disruption (80% MAX Reach, **reach in closed fist**)

10 blocks of 10; 3 w/o TMS, 6 w/ TMS (150, 200, 250 ms), 1 catch (ChoiceRT\_Paired Pulse)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| E-Prime | NDI | Block | Rest (Y/N) | Circle bad trials | | | | | | | | | | | |
|  |  | **1** |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |
|  | **2** |  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |  |  |
|  | **3** |  | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |  |  |
|  | **4** |  | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |  |  |
|  | **5** |  | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |  |  |
|  | **6** |  | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |  |  |
|  | **7** |  | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |  |  |
|  | **8** |  | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |  |  |
|  | **9** |  | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |  |  |
|  | **10** |  | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |  |  |

**Adverse Events: Y / N (if yes, explain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)**

**Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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IF changed:

MAX reach: \_\_\_\_ cm

b/w button: \_\_\_\_ cm

C: \_\_\_\_ cm

D: 60% MAX = \_\_\_\_ cm

80% MAX = \_\_\_\_ cm

100% MAX = \_\_\_\_ cm

E: \_\_\_\_ cm

F: \_\_\_\_ cm

**Target (#, not specific site) \_\_\_\_\_\_ Day 2 – Reaching + TBS**

1) Contralesional \_\_\_ (muscle) AMT = \_\_\_\_% (5/10 trials have > 100 uV)

EMG activation \_\_\_ to \_\_\_ RMS uV; \_\_\_% AMT= \_\_\_ % for TBS

2) Passive ideal hand path NDI file name:

One button: 80% MAX Reach: \_\_\_\_ (Paretic)

**Reach Pre-Test**

3) Unilateral Paretic SRT Reaching Test (10 trials x 3 blocks: **reach in closed fist**) (SimpleRT\_Test)

60% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

80% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

100% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

4) Intermittent TBS (10 bursts x 20 trains; 3.3 minutes) \_\_\_\_\_\_\_\_

5) Unilateral Paretic SRT Reaching **Practice** (10 trials x 20 blocks: **reach in closed fist**) (SimpleRT\_Train)

80% MAX Reach: NDI file names (first 2 blocks only): \_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

6) Break \_10 minutes

7) Unilateral Paretic SRT Reaching Test (10 trials x 2 blocks: **reach in closed fist**) (SimpleRT\_Test)

80% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

**Adverse Events: Y / N (if yes, explain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)**

**Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Target (#, not specific site) \_\_\_\_\_\_ Day 3 – Reaching + TMS Disruption**

IF changed:

MAX reach: \_\_\_\_ cm

b/w button: \_\_\_\_ cm

C: \_\_\_\_ cm

D: 60% MAX = \_\_\_\_ cm

80% MAX = \_\_\_\_ cm

100% MAX = \_\_\_\_ cm

E: \_\_\_\_ cm

F: \_\_\_\_ cm

1) Contralesional \_\_\_ (muscle) RMT = \_\_\_\_% (5/10 trials have > 50 uV)

\_\_\_% RMT= \_\_\_ % for DP disruption, ISI = 25 ms

2) Passive ideal hand path NDI file name:

One button: 60% MAX Reach: \_\_\_\_ (Paretic)

One button: 80% MAX Reach: \_\_\_\_ (Paretic)

One button: 100% MAX Reach: \_\_\_\_ (Paretic)

L button \_\_\_\_ R button \_\_\_\_ (Paretic)

**Reach 24-Hr Post-Test**

3) Unilateral Paretic SRT Reaching Test (10 trials x 3 blocks: **reach in closed fist**)

60% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

80% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

100% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

4) Instruct patients: “When one of the target lights comes on, quickly reach out to touch that target and then return to the start position.”

**Reach + TMS Disruption (Site 1)**

5) Unilateral Paretic CRT Reaching Test with disruption (80% MAX Reach, **reach in closed fist**)

10 blocks of 10; 3 w/o TMS, 6 w/ TMS (150, 200, 250 ms), 1 catch (ChoiceRT\_Paired Pulse)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| E-Prime | NDI | Block | Rest (Y/N) | Circle bad trials | | | | | | | | | | | |
|  |  | **1** |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |
|  | **2** |  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |  |  |
|  | **3** |  | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |  |  |
|  | **4** |  | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |  |  |
|  | **5** |  | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |  |  |
|  | **6** |  | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |  |  |
|  | **7** |  | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |  |  |
|  | **8** |  | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |  |  |
|  | **9** |  | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |  |  |
|  | **10** |  | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |  |  |

**Adverse Events: Y / N (if yes, explain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)**

**Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Target (#, not specific site) \_\_\_\_\_\_ Day 1 – TMS Disruption**

Mean: ­­­\_\_\_\_\_\_\_\_\_\_\_\_\_

SD: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*Compare Mean and SD to page 1\*

SD: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1) Passive ideal hand path NDI file name:

L button \_\_\_\_ R button \_\_\_\_ (Paretic)

**Reach “Washout” Test**

2) Unilateral **Paretic**  SRT Reaching Test (10 trials x 2 blocks: 80% MAX Reach, **reach in closed fist**)

NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_ (SimpleRT\_eval)

3) Contralesional \_\_\_ (muscle) RMT = \_\_\_\_% (5/10 trials have > 50 uV)

\_\_\_% RMT= \_\_\_ % for DP disruption, ISI = 25 ms

4) Contralesional \_\_\_ (muscle) AMT = \_\_\_\_% (5/10 trials have > 100 uV)

EMG activation \_\_\_ to \_\_\_ RMS uV

5) Instruct patients: “When one of the target lights comes on, quickly reach out to touch that target and then return to the start position.”

6) Unilateral Paretic CRT Reaching Test with disruption (Site 2) (80% MAX Reach, **reach in closed fist**)

10 blocks of 10; 3 w/o TMS, 6 w/ TMS (150, 200, 250 ms), 1 catch (ChoiceRT\_Paired Pulse)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| E-Prime | NDI | Block | Rest (Y/N) | Circle bad trials | | | | | | | | | | | |
|  |  | **1** |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |
|  | **2** |  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |  |  |
|  | **3** |  | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |  |  |
|  | **4** |  | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |  |  |
|  | **5** |  | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |  |  |
|  | **6** |  | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |  |  |
|  | **7** |  | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |  |  |
|  | **8** |  | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |  |  |
|  | **9** |  | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |  |  |
|  | **10** |  | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |  |  |

**Adverse Events: Y / N (if yes, explain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)**

**Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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IF changed:

MAX reach: \_\_\_\_ cm

b/w button: \_\_\_\_ cm

C: \_\_\_\_ cm

D: 60% MAX = \_\_\_\_ cm

80% MAX = \_\_\_\_ cm

100% MAX = \_\_\_\_ cm

E: \_\_\_\_ cm

F: \_\_\_\_ cm

**Target (#, not specific site) \_\_\_\_\_\_ Day 2 – Reaching + TBS**

1) Contralesional \_\_\_ (muscle) AMT = \_\_\_\_% (5/10 trials have > 100 uV)

EMG activation \_\_\_ to \_\_\_ RMS uV; \_\_\_% AMT= \_\_\_ % for TBS

2) Passive ideal hand path NDI file name:

One button: 80% MAX Reach: \_\_\_\_ (Paretic)

**Reach Pre-Test**

3) Unilateral Paretic SRT Reaching Test (10 trials x 3 blocks: **reach in closed fist**) (SimpleRT\_Test)

60% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

80% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

100% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

4) Intermittent TBS (10 bursts x 20 trains; 3.3 minutes) \_\_\_\_\_\_\_\_

**Reach Practice**

5) Unilateral Paretic SRT Reaching Practice (10 trials x 20 blocks: **reach in closed fist**) (SimpleRT\_Train)

80% MAX Reach: **NDI file names (first 2 blocks only):** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

6) Break \_10 minutes \_

**Reach 10-minutes Post-Test**

7) Unilateral Paretic SRT Reaching Test (10 trials x 3 blocks: **reach in closed fist**) (SimpleRT\_Test)

80% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

**Adverse Events: Y / N (if yes, explain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)**

**Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Target (#, not specific site) \_\_\_\_\_\_ Day 3 – Reaching + TMS Disruption**

IF changed:

MAX reach: \_\_\_\_ cm

b/w button: \_\_\_\_ cm

C: \_\_\_\_ cm

D: 60% MAX = \_\_\_\_ cm

80% MAX = \_\_\_\_ cm

100% MAX = \_\_\_\_ cm

E: \_\_\_\_ cm

F: \_\_\_\_ cm

1) Contralesional \_\_\_ (muscle) RMT = \_\_\_\_% (5/10 trials have > 50 uV)

\_\_\_% RMT= \_\_\_ % for DP disruption, ISI = 25 ms

2) Passive ideal hand path NDI file name:

One button: 60% MAX Reach: \_\_\_\_ (Paretic)

One button: 80% MAX Reach: \_\_\_\_ (Paretic)

One button: 100% MAX Reach: \_\_\_\_ (Paretic)

L button \_\_\_\_ R button \_\_\_\_ (Paretic)

3) Unilateral Paretic SRT Reaching Test (10 trials x 3 blocks: **reach in closed fist**)

60% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

80% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

100% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

4) Instruct patients: “When one of the target lights comes on, quickly reach out to touch that target and then return to the start position.”

5) Unilateral Paretic CRT Reaching Test with disruption (80% MAX Reach, **reach in closed fist**)

10 blocks of 10; 3 w/o TMS, 6 w/ TMS (150, 200, 250 ms), 1 catch (ChoiceRT\_Paired Pulse)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| E-Prime | NDI | Block | Rest (Y/N) | Circle bad trials | | | | | | | | | | | |
|  |  | **1** |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |
|  | **2** |  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |  |  |
|  | **3** |  | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |  |  |
|  | **4** |  | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |  |  |
|  | **5** |  | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |  |  |
|  | **6** |  | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |  |  |
|  | **7** |  | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |  |  |
|  | **8** |  | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |  |  |
|  | **9** |  | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |  |  |
|  | **10** |  | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |  |  |

**Adverse Events: Y / N (if yes, explain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)**

**Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Mean: ­­­\_\_\_\_\_\_\_\_\_\_\_\_\_

SD: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*Compare Mean and SD to page 6\*

SD: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Target (#, not specific site) \_\_\_\_\_\_ Day 1 – TMS Disruption**

1) Passive ideal hand path NDI file name:

L button \_\_\_\_ R button \_\_\_\_ (Paretic)

**Reach “Washout” Test**

2) Unilateral **Paretic** SRT Reaching Test (10 trials x 2 blocks: 80% MAX Reach, **reach in closed fist**)

NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_ (SimpleRT\_eval)

3) Contralesional \_\_\_ (muscle) RMT = \_\_\_\_% (5/10 trials have > 50 uV)

\_\_\_% RMT= \_\_\_ % for DP disruption, ISI = 25 ms

4) Contralesional \_\_\_ (muscle) AMT = \_\_\_\_% (5/10 trials have > 100 uV)

EMG activation \_\_\_ to \_\_\_ RMS uV

5) Instruct patients: “When one of the target lights comes on, quickly reach out to touch that target and then return to the start position.”

6) Unilateral Paretic CRT Reaching Test with disruption (80% MAX Reach, **reach in closed fist**)

10 blocks of 10; 3 w/o TMS, 6 w/ TMS (150, 200, 250 ms), 1 catch (ChoiceRT\_Paired Pulse)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| E-Prime | NDI | Block | Rest (Y/N) | Circle bad trials | | | | | | | | | | | |
|  |  | **1** |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |
|  | **2** |  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |  |  |
|  | **3** |  | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |  |  |
|  | **4** |  | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |  |  |
|  | **5** |  | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |  |  |
|  | **6** |  | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |  |  |
|  | **7** |  | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |  |  |
|  | **8** |  | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |  |  |
|  | **9** |  | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |  |  |
|  | **10** |  | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |  |  |

**Adverse Events: Y / N (if yes, explain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)**

**Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

IF changed:

MAX reach: \_\_\_\_ cm

b/w button: \_\_\_\_ cm

C: \_\_\_\_ cm

D: 60% MAX = \_\_\_\_ cm

80% MAX = \_\_\_\_ cm

100% MAX = \_\_\_\_ cm

E: \_\_\_\_ cm

F: \_\_\_\_ cm

**Target (#, not specific site) \_\_\_\_\_\_ Day 2 – Reaching + TBS**

1) Contralesional \_\_\_ (muscle) AMT = \_\_\_\_% (5/10 trials have > 100 uV)

EMG activation \_\_\_ to \_\_\_ RMS uV; \_\_\_% AMT= \_\_\_ % for TBS

2) Passive ideal hand path NDI file name:

One button: 80% MAX Reach: \_\_\_\_ (Paretic)

3) Unilateral Paretic / SRT Reaching Test (10 trials x 3 blocks: **reach in closed fist**) (SimpleRT\_Test)

60% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

80% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

100% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

4) Intermittent TBS (10 bursts x 20 trains; 3.3 minutes) \_\_\_\_\_\_\_\_

5) Unilateral Paretic SRT Reaching **Practice** (10 trials x 20 blocks: **reach in closed fist**) (SimpleRT\_Train)

80% MAX Reach: **NDI file names (first 2 blocks only)**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

6) Break \_10 minutes\_\_

7) Unilateral Paretic SRT Reaching Test (10 trials x 2 blocks: **reach in closed fist**) (SimpleRT\_Test)

80% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

**Adverse Events: Y / N (if yes, explain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)**

**Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Target (#, not specific site) \_\_\_\_\_\_ Day 3 – Reaching + TMS Disruption**

IF changed:

MAX reach: \_\_\_\_ cm

b/w button: \_\_\_\_ cm

C: \_\_\_\_ cm

D: 60% MAX = \_\_\_\_ cm

80% MAX = \_\_\_\_ cm

100% MAX = \_\_\_\_ cm

E: \_\_\_\_ cm

F: \_\_\_\_ cm

1) Contralesional \_\_\_ (muscle) RMT = \_\_\_\_% (5/10 trials have > 50 uV)

\_\_\_% RMT= \_\_\_ % for DP disruption, ISI = 25 ms

2) Passive ideal hand path NDI file name:

One button: 60% MAX Reach: \_\_\_\_\_\_\_ (Paretic)

One button: 80% MAX Reach: \_\_\_\_\_\_\_ (Paretic)

One button: 100% MAX Reach: \_\_\_\_\_\_ (Paretic)

L button \_\_\_\_ R button \_\_\_\_ (Paretic)

3) Unilateral Paretic / SRT Reaching Test (10 trials x 3 blocks: **reach in closed fist**)

60% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

80% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

100% MAX Reach: NDI file names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-prime file name: \_\_\_\_\_\_\_\_\_\_\_\_

4) Instruct patients: “When one of the target lights comes on, quickly reach out to touch that target and then return to the start position.”

5) Unilateral Paretic CRT Reaching Test with **disruption** (80% MAX Reach, **reach in closed fist**)

10 blocks of 10; 3 w/o TMS, 6 w/ TMS (150, 200, 250 ms), 1 catch (ChoiceRT\_Paired Pulse)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| E-Prime | NDI | Block | Rest (Y/N) | Circle bad trials | | | | | | | | | | | |
|  |  | **1** |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |
|  | **2** |  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |  |  |
|  | **3** |  | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |  |  |
|  | **4** |  | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |  |  |
|  | **5** |  | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |  |  |
|  | **6** |  | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |  |  |
|  | **7** |  | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |  |  |
|  | **8** |  | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |  |  |
|  | **9** |  | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |  |  |
|  | **10** |  | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |  |  |

**Adverse Events: Y / N (if yes, explain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)**

**Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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