## A pilot examination of the validity of stylus and finger drawing on visuomotor-mediated tests on ACEmobile

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## Supplementary Analyses

Frequency distribution of scores (\%)

| Subtest | Score | Control |  |  | AD |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Pencil | Stylus | Finger | Pencil | Stylus | Finger |
| Infinity Loop | 0 | 4 | 5 | 9 | 23 | 19 | 28 |
|  | 1 | 96 | 95 | 91 | 77 | 81 | 72 |
|  | 0 | 4 | 0 | 9 | 15 | 24 | 28 |
| Clock Drawing | 1 | 13 | 11 | 14 | 23 | 29 | 28 |
|  | 2 | 83 | 89 | 77 | 62 | 48 | 44 |
|  | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
|  | 1 | 0 | 0 | 0 | 4 | 5 | 8 |
|  | 2 | 0 | 0 | 0 | 19 | 29 | 4 |
|  | 3 | 4 | 11 | 5 | 15 | 5 | 38 |
| Sentence <br> Writing | 4 | 9 | 5 | 29 | 23 | 29 | 21 |
|  | 5 | 87 | 84 | 67 | 39 | 29 | 29 |

Sensitivity, specificity and area under the curve for infinity loop, cube and clock with $95 \%$ confidence intervals (CI)

| Test | Method | $\begin{array}{\|l\|} \hline \text { Cut } \\ \text { off } \\ \hline \end{array}$ | Sensitivity (\%) | Specificity (\%) | AUC |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Infinity loop | Pencil ( $\mathrm{n}=49$ | 0 | 23.1 [9.0, 43.7] | 95.7 [78.1, 99.9] | $\begin{gathered} 0.594 \\ {[0.501} \\ 0.687] \end{gathered}$ |
|  | Stylus ( $\mathrm{n}=40$ ) | 0 | 19.1 [5.5, 41.9] | 94.7 [74.0, 99.9] | $\begin{gathered} 0.569 \\ {[0.469} \\ 0.669] \end{gathered}$ |
|  | Finger ( $n=47$ ) | 0 | 28.0 [12.1, 49.4] | 90.9 [70.8, 98.9] | $\begin{gathered} 0.595 \\ {[0.486} \\ 0.703] \\ \hline \end{gathered}$ |
| Cube | Pencil ( $\mathrm{n}=49$ ) | $\leq 1$ | 38.5 [20.2, 59.4] | 82.6 [61.2, 95.1] | $\begin{gathered} 0.610 \\ {[0.486} \\ 0.734] \\ \hline \end{gathered}$ |
|  | Stylus ( $\mathrm{n}=40$ ) | $\leq 1$ | 52.4 [29.8, 74.3] | 89.5 [66.9, 98.7] | $\begin{gathered} 0.722 \\ {[0.595} \\ 0.849] \end{gathered}$ |
|  | Finger ( $\mathrm{n}=47$ ) | $\leq 1$ | 56.0 [34.9, 75.6] | 77.3 [54.6, 92.2] | $\begin{gathered} \hline 0.673 \\ {[0.536,} \\ 0.809] \\ \hline \end{gathered}$ |
| Clock | Pencil ( $\mathrm{n}=49$ ) | $\leq 2$ | 23.1 [9.0, 43.7] | 100.0 [85.2, 100.0] | $\begin{gathered} \hline 0.759 \\ {[0.644} \\ 0.874] \\ \hline \end{gathered}$ |
|  | Stylus ( $\mathrm{n}=40$ ) | $\leq 2$ | $\begin{aligned} & 38.1 \text { [18.11, } \\ & 61.6] \end{aligned}$ | 100.0 [82.4, 100.0] | $\begin{gathered} 0.795 \\ {[0.668} \\ 0.921] \\ \hline \end{gathered}$ |
|  | Finger ( $\mathrm{n}=45$ ) | $\leq 2$ | 12.5 [2.7, 32.4] | 100.0 [83.9, 100.0] | $\begin{gathered} 0.757 \\ {[0.625,} \\ 0.889] \\ \hline \end{gathered}$ |
| Sentence Writing | Pencil ( $\mathrm{n}=49$ ) | $\leq 1$ | 69.6 [47.1, 86.8] | 76.9 [56.4, 91.0] | $\begin{gathered} 0.758 \\ {[0.629} \\ 0.886] \end{gathered}$ |
|  | Stylus ( $\mathrm{n}=40$ ) | $\leq 1$ | 57.9 [33.5, 79.8] | 61.9 [38.4, 81.9] | $\begin{gathered} 0.679 \\ {[0.524} \\ 0.835] \\ \hline \end{gathered}$ |
|  | Finger ( $\mathrm{n}=45$ ) | $\leq 1$ | 38.1 [18.1, 61.6] | 70.8 [48.9, 87.4] | $\begin{gathered} 0.584 \\ {[0.427} \\ 0.741] \end{gathered}$ |

