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| **Table S1. Average test scores by visit type and test-retest reliability between in-person and remote neuropsychological evaluations both overall (N = 107) and stratified by remote visit modality among cognitively unimpaired participants.** |
|  |  | **Overall (N = 107)** | **Video (N = 77)** | **Telephone (N = 30)** |
| **Variable** | **Number of Obs** | **In-Person****Mean (SD)c** | **Remote****Mean (SD)c** | **Number of Obs** | **ICC****(95% CI)** | **Number of Obs** | **ICC****(95% CI)** | **Number of Obs** | **ICC****(95% CI)** |
| Craft Story 21 Recall - Immediate Verbatim | 214 | 24.7 (5.2) | 26.6 (5.7) | 214 | 0.53 (0.36, 0.66) | 154 | 0.58 (0.4, 0.71) | 60 | 0.41 (0.07, 0.67) |
| Craft Story 21 Recall - Immediate Paraphrase | 214 | 17.4 (3.2) | 18.5 (3.2) | 214 | 0.5 (0.33, 0.64) | 154 | 0.56 (0.38, 0.69) | 60 | 0.41 (0.04, 0.67) |
| Craft Story 21 Recall - Delayed Verbatim | 214 | 21.6 (5.5) | 23.8 (5.7) | 214 | 0.6 (0.4, 0.73) | 154 | 0.62 (0.43, 0.74) | 60 | 0.56 (0.16, 0.78) |
| Craft Story 21 Recall - Delayed Paraphrase | 214 | 16.2 (3.4) | 17.7 (3.3) | 214 | 0.43 (0.24, 0.59) | 154 | 0.45 (0.26, 0.62) | 60 | 0.41 (0.02, 0.68) |
| Number Span Forward | 214 | 8.5 (2.2) | 8.2 (2.5) | 214 | 0.67 (0.56, 0.77) | 154 | 0.66 (0.51, 0.77) | 60 | 0.7 (0.46, 0.85) |
| Number Span Backward | 214 | 7.3 (2.1) | 7.8 (2.3) | 214 | 0.56 (0.41, 0.68) | 154 | 0.61 (0.45, 0.74) | 60 | 0.4 (0.06, 0.66) |
| MoCA/Blind MoCA | 210 | 27.1 (1.9) | 26.2 (2.9) | 210 | 0.44 (0.26, 0.59) | 150 | 0.37 (0.16, 0.55) | 60 | 0.62 (0.34, 0.8) |
| Category Fluency - Animals | 214 | 21.7 (4.9) | 21.7 (5.2) | 214 | 0.58 (0.44, 0.69) | 154 | 0.58 (0.41, 0.71) | 60 | 0.5 (0.19, 0.73) |
| Category Fluency - Vegetables | 214 | 16 (3.6) | 15.8 (3.7) | 214 | 0.53 (0.38, 0.66) | 154 | 0.47 (0.28, 0.63) | 60 | 0.63 (0.35, 0.8) |
| HVLT-R Total Recall | 208 | 27.5 (4.4) | 29.3 (4.2) | 208 | 0.36 (0.17, 0.52) | 150 | 0.34 (0.12, 0.52) | 58 | 0.33 (-0.01, 0.61) |
| HVLT-R Delayed Recall | 208 | 10.2 (1.9) | 10 (2.2) | 208 | 0.2 (0.01, 0.38) | 150 | 0.22 (-0.01, 0.42) | 58 | 0.11 (-0.25, 0.44) |
| HVLT-R Retention  | 208 | 94.4 (14.5) | 91.1 (17.1) | 208 | 0.14 (-0.05, 0.32) | 150 | 0.12 (-0.11, 0.34) | 58 | 0.18 (-0.14, 0.49) |
| HVLT-R Recognition | 206 | 10.9 (1.2) | 10.8 (1.6) | 206 | 0.25 (0.06, 0.42) | 148 | 0.18 (-0.05, 0.39) | 58 | 0.41 (0.04, 0.67) |
| Letter Fluency (C, F, & L) | 214 | 47.9 (9.3) | 46.2 (9.3) | 214 | 0.72 (0.61, 0.8) | 154 | 0.76 (0.64, 0.84) | 60 | 0.59 (0.3, 0.78) |
| TMT-A/OTMT-A | 214 | 30.5 (9.2) | 9.7 (3.8) | 214 | -0.01 (-0.04, 0.04) | 154 | -0.01 (-0.06, 0.05) | 60 | 0 (-0.04, 0.07) |
| TMT-B/OTMT-B | 212 | 76.4 (30.8) | 37.8 (20.7) | 212 | 0.19 (-0.08, 0.45) | 152 | 0.15 (-0.08, 0.4) | 60 | 0.19 (-0.1, 0.49) |
| TMT B/A Ratioa | 212 | 2.6 (0.9) | 4.2 (2.9) | 212 | 0.13 (-0.04, 0.29) | 152 | 0.24 (-0.01, 0.45) | 60 | 0.05 (-0.2, 0.34) |
| MINT/VNTa (Proportion Correct) | 210 | 1 (0) | 1 (0) | 210 | 0.57 (0.43, 0.69) | - | - | 60 | 0.27 (-0.05, 0.56) |
| MINTb | 150 | 30.9 (1.3) | 30.8 (1.5) | - | - | 150 | 0.7 (0.56, 0.8) | - | - |
| Benson Complex Figure Copyb | 148 | 15.4 (1.2) | 15.5 (1.1) | - | - | 148 | 0.26 (0.03, 0.46) | - | - |
| Benson Complex Figure – Delayedb | 148 | 12.2 (2.5) | 12.6 (2.2) | - | - | 148 | 0.45 (0.26, 0.62) | - | - |
| Abbreviations: HVLT-R, Hopkins Verbal Learning Test-Revised; ICC, Intraclass Correlation Coefficient; MINT, Multilingual Naming Test; MoCA, Montreal Cognitive Assessment; Obs, Observations; OTMT, Oral Trail Making Test; SD, Standard Deviation; TMT, Trail Making Test; VNT, Verbal Naming Test. |
| aProportion correct calculated for MINT and Verbal Naming Test given the different scales. Likewise, TMT B/A ratios were calculated for oral and written trails to optimize comparability.bVideo only analyses. cMeans and SD for the combined (video and telephone remote visits) overall sample except where indicated as video only analyses.  |

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| **Table S2.** **Average test scores by visit type and test-retest reliability between in-person and remote neuropsychology visits both overall (N = 56) and stratified by remote visit modality among cognitively impaired participants.** |
|  |  | **Overall (N = 56)** | **Video (N = 31)** | **Telephone** **(N = 25)** |
| **Variable** | **Number of Obs** | **In-Person****Mean(SD)c** | **Remote****Mean(SD)c** | **Number of Obs** | **ICC** **(95% CI)**  | **Number of Obs** | **ICC** **(95% CI)** | **Number of Obs** | **ICC** **(95% CI)** |
| Craft Story 21 Recall - Immediate Verbatim | 110 | 17.3 (5.7) | 17.8 (6.4) | 110 | 0.71 (0.54, 0.82) | 60 | 0.74 (0.52, 0.87) | 50 | 0.67 (0.38, 0.84) |
| Craft Story 21 Recall - Immediate Paraphrase | 110 | 12.5 (3.6) | 13.1 (4.1) | 110 | 0.66 (0.48, 0.78) | 60 | 0.7 (0.47, 0.85) | 50 | 0.6 (0.27, 0.8) |
| Craft Story 21 Recall - Delayed Verbatim | 110 | 12.2 (7.4) | 12.6 (8.3) | 110 | 0.78 (0.65, 0.86) | 60 | 0.77 (0.57, 0.88) | 50 | 0.8 (0.6, 0.91) |
| Craft Story 21 Recall - Delayed Paraphrase | 110 | 9.3 (5.2) | 10 (6) | 110 | 0.84 (0.75, 0.91) | 60 | 0.85 (0.71, 0.93) | 50 | 0.84 (0.66, 0.93) |
| Number Span Forward | 110 | 7.1 (1.9) | 6.9 (2.1) | 110 | 0.31 (0.05, 0.53) | 60 | 0.57 (0.27, 0.77) | 50 | 0.01 (-0.37, 0.4) |
| Number Span Backward | 110 | 6.1 (1.8) | 6.5 (2.2) | 110 | 0.39 (0.15, 0.59) | 60 | 0.51 (0.18, 0.73) | 50 | 0.27 (-0.09, 0.58) |
| MoCA/Blind MoCA | 106 | 23 (3.3) | 20.6 (4.8) | 106 | 0.54 (0.21, 0.74) | 58 | 0.64 (0.17, 0.85) | 48 | 0.32 (-0.04, 0.63) |
| Category Fluency - Animals | 110 | 17.7 (5.3) | 17 (5.1) | 110 | 0.44 (0.2, 0.63) | 60 | 0.56 (0.25, 0.76) | 50 | 0.27 (-0.12, 0.59) |
| Category Fluency - Vegetables | 110 | 11.3 (3.8) | 11 (4.3) | 110 | 0.75 (0.61, 0.85) | 60 | 0.79 (0.6, 0.89) | 50 | 0.71 (0.45, 0.86) |
| HVLT-R Total Recall | 104 | 19.8 (5.8) | 20.8 (6.3) | 104 | 0.69(0.51, 0.81) | 58 | 0.57 (0.28, 0.77) | 46 | 0.8 (0.58, 0.91) |
| HVLT-R Delayed Recall | 104 | 5.3 (3.8) | 4.9 (4.4) | 104 | 0.73 (0.58, 0.84) | 58 | 0.71 (0.47, 0.85) | 46 | 0.76 (0.51, 0.89) |
| HVLT-R Retention  | 104 | 60.7 (41) | 52.4 (45.6) | 104 | 0.61 (0.41, 0.75) | 58 | 0.58 (0.28, 0.78) | 46 | 0.64 (0.32, 0.83) |
| HVLT-R Recognition | 104 | 7.9 (2.7) | 8.5 (2.9) | 104 | 0.77 (0.62, 0.86) | 58 | 0.79 (0.57, 0.9) | 46 | 0.73 (0.47, 0.88) |
| Letter Fluency (C, F, & L) | 110 | 40.9 (10.8) | 36.9 (10.9) | 110 | 0.68 (0.44, 0.81) | 60 | 0.58 (0.27, 0.78) | 50 | 0.75 (0.45, 0.89) |
| TMT-A/OTMT-A | 108 | 40.2 (21) | 10.4 (3.4) | 108 | 0 (-0.08, 0.11) | 60 | 0 (-0.12, 0.2) | 48 | -0.01 (-0.07, 0.1) |
| TMT-B/OTMTB | 94 | 113.7 (59.6) | 55.3 (38.1) | 94 | 0.15 (-0.08, 0.38) | 54 | 0.12 (-0.12, 0.4) | 40 | 0.2 (-0.11, 0.54) |
| TMT B/A Ratioa | 94 | 3.3 (1.8) | 5.8 (4.5) | 94 | 0.03 (-0.19, 0.27) | 54 | 0.09 (-0.22, 0.41) | 40 | -0.05 (-0.35, 0.32) |
| MINT/VNT (Proportion correct)a | 108 | 0.9 (0.1) | 0.9 (0.1) | 108 | 0.69 (0.51, 0.8) | - | - | 50 | 0.68 (0.39, 0.85) |
| MINTb | 58 | 29.2 (2.4) | 28.7 (2.9) | - | - | 58 | 0.67 (0.42, 0.83) | - | - |
| Benson Complex Figure - Copyb | 58 | 14.7 (2.6) | 14.1 (2) | - | - | 58 | 0.75 (0.53, 0.88) | - | - |
| Benson Complex Figure - Delayedb | 58 | 7.6 (4.8) | 7.8 (4.9) | - | - | 58 | 0.92 (0.84, 0.96) | - | - |
| Abbreviations: HVLT-R, Hopkins Verbal Learning Test-Revised; ICC, Intraclass Correlation Coefficient; MINT, Multilingual Naming Test; MoCA, Montreal Cognitive Assessment; Obs, Observations; OTMT, Oral Trail Making Test; SD, Standard Deviation; TMT, Trail Making Test; VNT, Verbal Naming Test. |
| aProportion correct calculated for MINT and Verbal Naming Test given the different scales. Likewise, TMT B/A ratios were calculated for oral and written trails to optimize comparability.bVideo-only analyses. cMeans and SD for the combined (video and telephone remote visits) overall sample except where indicated as video only analyses.  |

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| **Table S3. Mean differences between in-person and remote neuropsychological evaluations (N = 181) (corresponds to results depicted in Table 3)** |
| **Variable** | **Number of Obs** | **In-Person****Mean (SD)c** | **Remote****Mean (SD)c** | **Cohen’s de** | ***p*** |
| Craft Story 21 Recall -Immediate Verbatim | 360 | 22.1 (6.2) | 23.5 (7) | -0.22 (-0.35, -0.09) | <0.001 |
| Craft Story 21 Recall - Immediate Paraphrase | 360 | 15.8 (3.9) | 16.6 (4.3) | -0.2 (-0.33, -0.06) | 0.00037845 |
| Craft Story 21 Recall - Delayed Verbatim | 360 | 18.4 (7.4) | 19.9 (8.3) | -0.24 (-0.36, -0.13) | <0.001 |
| Craft Story 21 Recall - Delayed Paraphrase | 360 | 13.9 (5.1) | 15.1 (5.6) | -0.23 (-0.35, -0.1) | <0.001 |
| Number Span Forward | 360 | 8.1 (2.2) | 7.8 (2.5) | 0.12 (-0.04, 0.28) | 0.051905893 |
| Number Span Backward | 360 | 6.9 (2) | 7.3 (2.3) | -0.18 (-0.35, -0.01) | 0.003348196 |
| MoCA/Blind MoCAd | 348 | 25.7 (3.1) | 24.3 (4.4) | 0.51 (0.38, 0.63) | <0.001 |
| Category Fluency - Animals | 360 | 20.3 (5.3) | 20 (5.6) | 0.07 (-0.09, 0.22) | 0.512733627 |
| Category Fluency – Vegetables | 360 | 14.3 (4.2) | 14 (4.4) | 0.12 (-0.04, 0.27) | 0.324112754 |
| HVLT-R Total Recall | 346 | 24.8 (6) | 26.4 (6.2) | -0.27 (-0.43, -0.11) | <0.001 |
| HVLT-R Delayed Recalld | 346 | 8.5 (3.5) | 8 (4.1) | 0.21 (0.03, 0.37) | 0.041365477 |
| HVLT-R Retentiond  | 346 | 83.3 (30) | 75.7 (36.1) | 0.33 (0.16, 0.48) | 0.001277549 |
| HVLT-R Recognitiond | 344 | 9.8 (2.3) | 10 (2.3) | -0.21 (-0.37, -0.04) | 0.040727526 |
| Letter Fluency (C, F, & L) | 360 | 45.8 (10.7) | 43.3 (10.7) | 0.22 (0.09, 0.35) | <0.001 |
| MINT/VNTa (Proportion correct) | 354 | 0.9 (0.1) | 0.9 (0.1) | 0.03 (-0.14, 0.2) | 0.782182886 |
| MINTb, d | 236 | 30.4 (1.8) | 30.1 (2.2) | 0.27 (0.07, 0.45) | 0.0461 |
| Benson Complex Figure – Copyb | 234 | 15.2 (1.7) | 15 (1.6) | 0.15 (-0.02, 0.33) | 0.085852848 |
| Benson Complex Figure - Delayedb | 234 | 10.9 (3.8) | 11.1 (3.7) | -0.06 (-0.17, 0.06) | 0.340224568 |
| Abbreviations: HVLT-R, Hopkins Verbal Learning Test-Revised; MINT, Multilingual Naming Test; MoCA, Montreal Cognitive Assessment; Obs, Observations; SD, Standard Deviation; VNT, Verbal Naming Test. |
| aProportion correct calculated for MINT and Verbal Naming Test given the different scales. Likewise, TMT B/A ratios were calculated for oral and written trails to optimize comparability.bVideo-only analyses. cMeans and SD for the combined (video and telephone remote visits) overall sample except where indicated as video only analyses. dIndicates non-normal distribution so a Rank-Biserial test was used for effect size calculation and a paired Wilcoxon rank sum test was used for p-value.eSigns were included with effect sizes in order to more clearly indicate the direction of change: negative values indicate higher performance during remote assessment whereas positive values indicate higher performance during in-person assessment. |

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| **Table S4. Mean differences between in-person and remote neuropsychological evaluations among diagnostically stable subgroup (N = 158) (corresponds to results depicted in Table 4)** |
| **Variable** | **Number of Obs** | **In-Person****Mean (SD)c** | **Remote****Mean (SD)c** | **Cohen’s de** | ***p*** |
| Craft Story 21 Recall -Immediate Verbatim | 314 | 22.3 (6.4) | 23.9 (7.2) | -0.2 (-0.34, -0.06) | <0.001 |
| Craft Story 21 Recall - Immediate Paraphrase | 314 | 15.9 (4) | 16.9 (4.3) | -0.21 (-0.35, -0.07) | <0.001 |
| Craft Story 21 Recall - Delayed Verbatim | 314 | 18.9 (7.1) | 20.5 (8.1) | -0.23 (-0.36, -0.1) | <0.001 |
| Craft Story 21 Recall - Delayed Paraphrase | 314 | 14.3 (4.8) | 15.5 (5.3) | -0.23 (-0.36, -0.1) | <0.001 |
| Number Span Forward | 314 | 8 (2.2) | 7.8 (2.5) | 0.13 (-0.05, 0.3) | 0.110487315 |
| Number Span Backward | 314 | 6.8 (2.1) | 7.3 (2.3) | -0.19 (-0.37, -0.01) | 0.001806888 |
| MoCA/Blind MoCAd | 306 | 25.8 (3.2) | 24.6 (4.4) | 0.49 (0.34, 0.62) | <0.001 |
| Category Fluency - Animals | 314 | 20.3 (5.3) | 20.2 (5.5) | 0.04 (-0.12, 0.2) | 0.746933429 |
| Category Fluency – Vegetables | 314 | 14.5 (4.3) | 14.4 (4.5) | 0.13 (-0.03, 0.29) | 0.568483797 |
| HVLT-R Total Recall | 302 | 25.1 (6.2) | 26.8 (6.3) | -0.26 (-0.42, -0.1) | <0.001 |
| HVLT-R Delayed Recalld | 302 | 8.8 (3.3) | 8.6 (3.7) | 0.11 (-0.08, 0.29) | 0.319119678 |
| HVLT-R Retentiond  | 302 | 85.6 (27.9) | 80.8 (32.3) | 0.24 (0.05, 0.41) | 0.030781798 |
| HVLT-R Recognitiond | 300 | 10 (2.1) | 10.1 (2.2) | -0.18 (-0.35, 0) | 0.107064576 |
| Letter Fluency (C, F, & L) | 314 | 45.4 (10.3) | 43.2 (10.7) | 0.18 (0.05, 0.31) | <0.001 |
| MINT/VNTa (Proportion correct) | 308 | 0.9 (0.1) | 0.9 (0.1) | -0.09 (-0.26, 0.09) | 0.43628004 |
| MINTb, d | 202 | 30.4 (1.8) | 30.2 (2.2) | 0.12 (-0.11, 0.33) | 0.45 |
| Benson Complex Figure – Copyb | 200 | 15.2 (1.7) | 15.1 (1.5) | 0.04 (-0.13, 0.22) | 0.630630033 |
| Benson Complex Figure - Delayedb | 200 | 11.1 (3.7) | 11.5 (3.6) | -0.11 (-0.24, 0.01) | 0.072613379 |
| Abbreviations: HVLT-R, Hopkins Verbal Learning Test-Revised; MINT, Multilingual Naming Test; MoCA, Montreal Cognitive Assessment; Obs, Observations; SD, Standard Deviation; VNT, Verbal Naming Test. |
| aProportion correct calculated for MINT and Verbal Naming Test given the different scales. Likewise, TMT B/A ratios were calculated for oral and written trails to optimize comparability.bVideo-only analyses. cMeans and SD for the combined (video and telephone remote visits) overall sample except where indicated as video only analyses. dIndicates non-normal distribution so a Rank-Biserial test was used for effect size calculation and a paired Wilcoxon rank sum test was used for p-value.eSigns were included with effect sizes in order to more clearly indicate the direction of change: negative values indicate higher performance during remote assessment whereas positive values indicate higher performance during in-person assessment. |

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| **Table S5. Mean differences between two consecutive in-person neuropsychological evaluations (N = 276) (corresponds to results depicted in Table 5)** |
| **Variable** | **Number of Obs** | **Mean Visit 1 (SD)** | **Mean Visit 2 (SD)** | **Cohen’s db** | ***p*** |
| Craft Story 21 Recall -Immediate Verbatim | 496 | 20.1 (7.1) | 20.5 (7) | -0.05 (-0.14, 0.05) | 0.28765885 |
| Craft Story 21 Recall - Immediate Paraphrase | 496 | 14.6 (4.6) | 14.7 (4.6) | -0.02 (-0.12, 0.07) | 0.579697681 |
| Craft Story 21 Recall - Delayed Verbatim | 494 | 16.8 (7.6) | 17 (7.9) | -0.01 (-0.1, 0.08) | 0.646149201 |
| Craft Story 21 Recall - Delayed Paraphrase | 494 | 12.9 (5.2) | 12.8 (5.5) | 0.03 (-0.05, 0.11) | 0.560369073 |
| Number Span Forward | 496 | 7.8 (2.3) | 7.8 (2.2) | -0.02 (-0.11, 0.07) | 0.725457227 |
| Number Span Backward | 496 | 6.3 (2.2) | 6.4 (2.1) | -0.06 (-0.16, 0.04) | 0.286322869 |
| MoCAa | 498 | 24.3 (4.4) | 24.4 (5) | -0.04 (-0.19, 0.1) | 0.578093929 |
| Category Fluency - Animals | 496 | 19.3 (5.6) | 19.1 (5.9) | 0.04 (-0.06, 0.13) | 0.39671473 |
| Category Fluency – Vegetables | 496 | 14 (4.3) | 13.5 (4.6) | 0.1 (0, 0.19) | 0.046401799 |
| HVLT-R Total Recall | 484 | 22.9 (5.8) | 24 (6.7) | -0.16 (-0.25, -0.08) | <0.001 |
| HVLT-R Delayed Recalla | 480 | 7.5 (3.5) | 8 (3.8) | -0.28 (-0.42, -0.14) | <0.001 |
| HVLT-R Retentiona  | 490 | 74.9 (30.5) | 79.2 (32) | -0.21 (-0.35, -0.06) | 0.008088805 |
| HVLT-R Recognitiona | 482 | 9.5 (2.6) | 9.5 (2.7) | -0.09 (-0.23, 0.06) | 0.312724989 |
| Letter Fluency (C, F, & L) | 490 | 43.6 (11.5) | 43.6 (11.4) | 0.01 (-0.08, 0.09) | 0.987086634 |
| TMT-Aa | 492 | 36 (17.7) | 37.1 (21.4) | -0.01 (-0.16, 0.13) | 0.861544215 |
| TMT-Ba | 464 | 100.3 (58.9) | 101.3 (57.9) | -0.08 (-0.22, 0.07) | 0.31799779 |
| TMT B/A Ratioa | 464 | 3 (1.4) | 3 (1.2) | -0.07 (-0.21, 0.08) | 0.365332458 |
| Benson Complex Figure – Copya | 494 | 15.4 (1.8) | 14.9 (2) | 0.44 (0.32, 0.55) | <0.001 |
| Benson Complex Figure – Delayeda | 490 | 10.6 (3.5) | 10 (4) | 0.14 (0.06, 0.22) | <0.001 |
| MINTa | 488 | 29.3 (2.7) | 29.4 (3.1) | -0.13 (-0.27, 0.02) | 0.151338027 |
| Abbreviations: HVLT-R, Hopkins Verbal Learning Test-Revised; MINT, Multilingual Naming Test; MoCA, Montreal Cognitive Assessment; Obs, Observations; SD, Standard Deviation; TMT, Trail Making Test. |
| aIndicates non-normal distribution so a Rank-Biserial test was used for effect size calculation and a paired Wilcoxon rank sum test was used for p-value.bSigns were included with effect sizes in order to more clearly indicate the direction of change: negative values indicate higher performance during remote assessment whereas positive values indicate higher performance during in-person assessment. |