*Table A. Descriptive statistics of the tests included in the CFA*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Admission  |   |   |   | Discharge |   |   |   | Chronic |   |   |   |
| Tests | Mean  | std | min | max | Mean  | std | min | max | Mean  | std | min | max |
| Digit Forward | 6 | 1 | 3 | 8 | 6 | 1 | 4 | 8 | 5 | 1 | 3 | 8 |
| TMT A  | 63 | 39 | 17 | 199 | 61 | 45 | 17 | 207 | 51 | 29 | 14 | 137 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Learning | 38 | 9 | 22 | 55 | 46 | 10 | 26 | 69 | 44 | 10 | 28 | 66 |
| Long Term | 7 | 3 | 0 | 15 | 9 | 4 | 0 | 15 | 9 | 3 | 2 | 14 |
| Recognition | 10 | 5 | 0 | 15 | 13 | 3 | 6 | 15 | 11 | 4 | 0 | 15 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Digit Backwards | 4 | 1 | 2 | 6 | 4 | 1 | 2 | 6 | 4 | 1 | 2 | 7 |
| L-N Sequencing | 8 | 3 | 4 | 15 | 9 | 3 | 3 | 15 | 8 | 3 | 3 | 15 |
| PMR  | 33 | 14 | 11 | 59 | 40 | 14 | 15 | 65 | 4 | 1 | 2 | 7 |

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| *Table B. Correlation between evolution in cognitive factors and CRS-Pre stroke* |  |
| CRS-Pre-stroke | Cognitive factors | Time Frame   | r | min | max |  *p* |
| ADLs | AT  | Admission Discharge | 0,260 | -0,085 | 0,550 | 0,495 |
|  | M  |  | 0,218 | -0,130 | 0,518 | 0,495 |
|  | EF  |  | 0,231 | -0,528 | 0,117 | 0,495 |
|  | AT  | Discharge Chronic | 0,185 | -0,492 | 0,163 | 0,803 |
|  | M  |  | 0,118 | -0,229 | 0,439 | 0,803 |
|  | EF  |  | 0,041 | -0,301 | 0,374 | 0,818 |
| Training/formation | AT  | Admission Discharge | 0,196 | -0,153 | 0,501 | 0,495 |
|  | M  |  | 0,116 | -0,231 | 0,437 | 0,685 |
|  | EF  |  | 0,209 | -0,511 | 0,139 | 0,495 |
|  | AT  | Discharge Chronic | 0,161 | -0,474 | 0,187 | 0,803 |
|  | M  |  | 0,325 | -0,015 | 0,598 | 0,729 |
|  | EF  |  | 0,223 | -0,125 | 0,521 | 0,803 |
| Hobbies | AT  | Admission Discharge | 0,187 | -0,161 | 0,494 | 0,495 |
|  | M  |  | 0,204 | -0,144 | 0,507 | 0,495 |
|  | EF  |  | 0,046 | -0,379 | 0,296 | 0,954 |
|  | AT  | Discharge Chronic | 0,064 | -0,394 | 0,280 | 0,803 |
|  | M  |  | 0,124 | -0,224 | 0,443 | 0,803 |
|  | EF  |  | 0,083 | -0,262 | 0,410 | 0,803 |
| Social Life | AT  | Admission Discharge | 0,007 | -0,332 | 0,344 | 0,970 |
|  | M  |  | 0,015 | -0,325 | 0,351 | 0,970 |
|  | EF  |  | 0,138 | -0,210 | 0,455 | 0,654 |
|  | AT  | Discharge Chronic | 0,120 | -0,227 | 0,440 | 0,803 |
|  | M  |  | 0,060 | -0,390 | 0,284 | 0,803 |
|   | EF  |   | 0,073 | -0,402 | 0,272 | 0,803 |
|  |  |  |  |  |  |  |  |
| Admission Discharge: Grade difference on Cognitive Factors between Admission and Discharge; Discharge Chronic: Grade difference on Cognitive Factors between Discharge and Chronic.  |
|  |  |  |  |  |
| *Table C. Demographics and difference between cognitive factors*  |  |  |
| Time frame | Cognitive factors | Demographics | ε2 |  *p* |
| Admission vs. Discharge | AT  | Age at stroke | 0,018 | 0,959 |
|  |  | Type of stroke | 0,183 | 0,853 |
|  |  | Gender  | 0,808 | 0,496 |
|  | M  | Age at stroke | 0,073 | 0,853 |
|  |  | Type of stroke | 0,362 | 0,853 |
|  |  | Gender  | 0,589 | 0,853 |
|  | EF | Age at stroke | 0,040 | 0,853 |
|  |  | Type of stroke | 0,159 | 0,853 |
|  |  | Gender  | 0,083 | 0,853 |
| Discharge vs. Chronic | AT  | Age at stroke | 0,195 | 0,866 |
|  |  | Type of stroke | 0,454 | 0,566 |
|  |  | Gender  | 0,108 | 0,831 |
|  | M  | Age at stroke | 0,398 | 0,566 |
|  |  | Type of stroke | 0,092 | 0,866 |
|  |  | Gender  | 0,087 | 0,866 |
|  | EF  | Age at stroke | 0,281 | 0,566 |
|  |  | Type of stroke | 0,370 | 0,566 |
|   |   | Gender | 0,205 | 0,866 |
| Admission vs. Discharge: Grade difference on Cognitive Factors between Admission and Discharge; Discharge vs. Chronic: Grade difference on Cognitive Factors between Discharge and chronic stage of stroke.  |

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| *Table D. Difference between cognitive factors and cognitive reserve static proxy measures* |
| Time frame | Cognitive factors | Static proxies | ε2 | *p* |
| Admission vs Discharge | AT | Occupation | 0,019 | 0,853 |
|  |  | Studies | 0,072 | 0,853 |
|  | M | Occupation | 0,049 | 0,853 |
|  |  | Studies | 0,044 | 0,853 |
|  | EF | Occupation | 0,074 | 0,853 |
|  |  | Studies | 0,046 | 0,853 |
| Discharge vs Chronic | AT | Occupation | 0,121 | 0,566 |
|  |  | Studies | 0,036 | 0,831 |
|  | M | Occupation | 0,096 | 0,566 |
|  |  | Studies | 0,079 | 0,566 |
|  | EF | Occupation | 0,009 | 0,866 |
|   |  | Studies | 0,073 | 0,566 |
| Admission vs. Discharge: Grade difference on Cognitive Factors between Admission and Discharge; Discharge vs. Chronic: Grade difference on Cognitive Factors between Discharge and chronic stage of stroke. |

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| *Table E. Correlation between chronic cognitive factors and CRS post stroke* |  |  |
| *CRS post stroke*  | Cognitive factors | r | min | max | p |  |
|  |  |  |  |  |  |  |
| ADLs | AT Chronic  | -0,330 | -0,601 | 0,009 | 0,169 |  |
|  | M Chronic | 0,226 | -0,121 | 0,524 | 0,297 |  |
|  | EF Chronic | 0,401 | 0,072 | 0,651 | 0,075 |  |
| Training/formation | AT Chronic  | -0,206 | -0,509 | 0,142 | 0,323 |  |
|  | M Chronic | 0,266 | -0,079 | 0,554 | 0,250 |  |
|  | EF Chronic | 0,410 | 0,083 | 0,657 | 0,075 |  |
|  |  |  |  |  |  |  |
| Hobbies | AT Chronic  | -0,073 | -0,401 | 0,272 | 0,681 |  |
|  | M Chronic | 0,445 | 0,126 | 0,681 | 0,075 |  |
|  | EF Chronic | 0,291 | -0,053 | 0,573 | 0,229 |  |
|  |  |  |  |  |  |  |
| Social Life | AT Chronic  | 0,073 | -0,272 | 0,401 | 0,681 |  |
|  | M Chronic | 0,255 | -0,091 | 0,546 | 0,250 |  |
|   | EF Chronic | 0,106 | -0,240 | 0,429 | 0,659 |  |
|  |  |  |  |  |  |  |

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| *Table F. Correlation between questionnaires and CRS post stroke* |  |  |
| *CRS post stroke*  | Self-rating measures | r | conf\_min | conf\_max | p |
| ADLs | PCRS  | 0,214 | -0,134 | 0,515 | 0,394 |
|  | CIQ | 0,531 | 0,235 | 0,737 |  0,018 \* |
|  | RSAB  | -0,249 | -0,542 | 0,097 | 0,339 |
|  | PRMQ Prospective | 0,234 | -0,113 | 0,530 | 0,350 |
|  | PRMQ Retrospective | -0,161 | -0,473 | 0,187 | 0,589 |
|  | PRMQ Total | 0,016 | -0,324 | 0,353 | 0,971 |
|  | BRIEF Regulation | 0,031 | -0,310 | 0,366 | 0,971 |
|  | BRIEF Metacognition | -0,023 | -0,358 | 0,318 | 0,971 |
|   | BRIEF Total  | 0,001 | -0,337 | 0,339 | 0,995 |
| Training/Formation | PCRS  | 0,469 | 0,156 | 0,697 |  0,029 \* |
|  | CIQ | 0,475 | 0,164 | 0,701 |  0,029 \* |
|  | RSAB  | -0,600 | -0,780 | -0,328 |  0,004 \* |
|  | PRMQ Prospective | -0,120 | -0,441 | 0,227 | 0,730 |
|  | PRMQ Retrospective | -0,350 | -0,615 | -0,014 | 0,155 |
|  | PRMQ Total | -0,265 | -0,554 | 0,080 | 0,339 |
|  | BRIEF Regulation | -0,303 | -0,582 | 0,039 | 0,276 |
|  | BRIEF Metacognition | -0,468 | -0,696 | -0,155 |  0,029 \* |
|   | BRIEF Total  | -0,414 | -0,660 | -0,088 | 0,066 |
| Hobbies | PCRS  | 0,274 | -0,070 | 0,561 | 0,339 |
|  | CIQ | 0,474 | 0,162 | 0,700 |  0,029 \* |
|  | RSAB  | -0,471 | -0,698 | -0,158 |  0,029 \* |
|  | PRMQ Prospective | 0,181 | -0,167 | 0,489 | 0,517 |
|  | PRMQ Retrospective | -0,019 | -0,355 | 0,321 | 0,971 |
|  | PRMQ Total | 0,097 | -0,250 | 0,421 | 0,833 |
|  | BRIEF Regulation | -0,041 | -0,374 | 0,302 | 0,952 |
|  | BRIEF Metacognition | -0,040 | -0,373 | 0,302 | 0,952 |
|  | BRIEF Total  | -0,042 | -0,375 | 0,300 | 0,952 |
| Social Life | PCRS  | 0,295 | -0,048 | 0,575 | 0,286 |
|  | CIQ | 0,611 | 0,344 | 0,787 |  0,004 \* |
|  | RSAB  | -0,403 | -0,652 | -0,075 | 0,073 |
|  | PRMQ Prospective | 0,245 | -0,101 | 0,539 | 0,339 |
|  | PRMQ Retrospective | -0,004 | -0,341 | 0,335 | 0,995 |
|  | PRMQ Total | 0,157 | -0,191 | 0,470 | 0,589 |
|  | BRIEF Regulation | -0,249 | -0,542 | 0,097 | 0,339 |
|  | BRIEF Metacognition | -0,249 | -0,542 | 0,097 | 0,339 |
|  | BRIEF Total  | -0,261 | -0,551 | 0,085 | 0,339 |
|  |  |  |  |  |  |