**Supplementary Table 3.** Cognitive changes between baseline and the 3-month follow-up after CAS in CS patients stratified according the CS laterality (i.e., left or right side) as compared to the controls.

<table>
<thead>
<tr>
<th>Neuropsychological test</th>
<th>Baseline score</th>
<th>Difference from baseline</th>
<th>ANCOVA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Right CS (n=14)</td>
<td>Left CS (n=8)</td>
<td>Control (n=10)</td>
</tr>
<tr>
<td>K-MMSE</td>
<td>25.9±4.3</td>
<td>23.0±4.7</td>
<td>26.5±2.6</td>
</tr>
<tr>
<td>Digit span-forward</td>
<td>6.5±1.7</td>
<td>5.4±1.1</td>
<td>6.5±1.8</td>
</tr>
<tr>
<td>Digit span-backward</td>
<td>3.5±2.0</td>
<td>2.9±1.1</td>
<td>3.6±1.0</td>
</tr>
<tr>
<td>K-BNT</td>
<td>10.2±3.5</td>
<td>8.9±3.0</td>
<td>12.2±1.4</td>
</tr>
<tr>
<td>Calculation test</td>
<td>10.4±2.3</td>
<td>6.8±5.4</td>
<td>9.9±2.8</td>
</tr>
<tr>
<td>ROCFT</td>
<td>29.0±9.5</td>
<td>22.5±16.5</td>
<td>32.2±6.8</td>
</tr>
<tr>
<td>Orientation test</td>
<td>5.7±0.8</td>
<td>5.1±1.0</td>
<td>5.7±0.5</td>
</tr>
<tr>
<td>SVLT-free recall</td>
<td>14.4±8.3</td>
<td>9.4±4.6</td>
<td>20.4±6.4</td>
</tr>
<tr>
<td>SVLT-delayed recall</td>
<td>4.4±3.1</td>
<td>1.9±1.6</td>
<td>5.6±3.7</td>
</tr>
<tr>
<td>SVLT-recognition</td>
<td>6.6±3.8</td>
<td>4.3±2.6</td>
<td>8.4±1.6</td>
</tr>
<tr>
<td>ROCFT-immediate/delayed recall</td>
<td>26.0±17.7</td>
<td>19.5±16.8</td>
<td>31.4±17.0</td>
</tr>
<tr>
<td>ROCFT-recognition</td>
<td>6.9±2.9</td>
<td>4.4±4.7</td>
<td>7.3±2.5</td>
</tr>
<tr>
<td>Contrasting program</td>
<td>2.5±1.1</td>
<td>2.4±1.2</td>
<td>2.8±0.6</td>
</tr>
<tr>
<td>Go-no-go</td>
<td>2.3±1.1</td>
<td>2.4±1.2</td>
<td>2.6±0.5</td>
</tr>
<tr>
<td>Fist-edge-palm</td>
<td>2.4±0.9</td>
<td>2.0±1.2</td>
<td>3.0±0</td>
</tr>
<tr>
<td>Luria loop</td>
<td>2.8±0.8</td>
<td>2.3±1.4</td>
<td>2.7±0.7</td>
</tr>
<tr>
<td>Word fluency–animal</td>
<td>12.9±4.8</td>
<td>9.1±3.7</td>
<td>13.5±2.7</td>
</tr>
<tr>
<td>Word fluency–phonemic</td>
<td>5.9±4.0</td>
<td>2.6±3.4</td>
<td>6.5±2.8</td>
</tr>
<tr>
<td>Stroop test–color</td>
<td>13.3±4.5</td>
<td>5.9±6.3</td>
<td>15.7±2.9</td>
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<tr>
<td>SNSB-D</td>
<td>168.8±54.5</td>
<td>120.5±66.7</td>
<td>193.0±37.8</td>
</tr>
</tbody>
</table>