**Supplementary File 1a**. Descriptive statistics T0-T1, p-values are uncorrected, q values reported when p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Presence | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| *t-values* | 1,335 | 0,836 | -0,452 | -0,623 | 0,788 | -0,751 |
| *p-value* | 0,183 | 0,404 | 0,652 | 0,534 | 0,432 | 0,454 |
| *Mean* | 4,616 | 30,930 | -4,686 | -7,279 | 13,244 | -2,419 |
| *std* | 83,141 | 205,390 | 51,976 | 98,493 | 166,340 | 64,548 |
| *CI min* | -13,209 | -13,105 | -15,830 | -28,396 | -22,419 | -16,258 |
| *CI max* | 22,442 | 74,965 | 6,458 | 13,838 | 48,907 | 11,421 |
| Affect TC3 | |  |  |  |  |  |
| *t-values* | 1,195 | 1,456 | 1,739 | 1,528 | 1,334 | 0,060 |
| *p-value* | 0,234 | 0,147 | 0,084 | 0,128 | 0,184 | 0,952 |
| *Mean* | 4,295 | 46,443 | 7,312 | 19,426 | 23,344 | 3,705 |
| *std* | 90,258 | 206,540 | 43,280 | 121,990 | 187,470 | 63,729 |
| *CI min* | -18,821 | -6,454 | -3,773 | -11,816 | -24,670 | -12,617 |
| *CI max* | 27,411 | 99,340 | 18,396 | 50,669 | 71,358 | 20,027 |
| RCC |  |  |  |  |  |  |
| *t-values* | -0,955 | -0,497 | -1,698 | -0,126 | -2,526 | 0,778 |
| *p-value* | 0,341 | 0,620 | 0,091 | 0,900 | 0,012, q=0.072 | 0,437 |
| *Mean* | -14,000 | 6,259 | -12,111 | -0,870 | -50,259 | 10,407 |
| *std* | 66,176 | 156,220 | 41,762 | 91,759 | 139,760 | 79,943 |
| *CI min* | -32,063 | -36,381 | -23,510 | -25,916 | -88,406 | -11,413 |
| *CI max* | 4,063 | 48,900 | -0,712 | 24,175 | -12,112 | 32,228 |

**Supplementary File 1b**. Descriptive statistics T1-T3, p-values are uncorrected, q values reported when p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Perspective | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| *t-values* | 0,456 | -1,143 | -0,463 | 0,573 | -2,118 | 1,291 |
| *p-value* | 0,649 | 0,254 | 0,644 | 0,567 | 0,035, q>0.1 | 0,198 |
| *Mean* | 4,434 | -23,048 | -1,398 | 2,108 | -39,602 | 12,024 |
| *std* | 71,215 | 137,810 | 45,224 | 99,892 | 208,470 | 76,355 |
| *CI min* | -11,116 | -53,139 | -11,273 | -19,704 | -85,122 | -4,649 |
| *CI max* | 19,984 | 7,043 | 8,477 | 23,921 | 5,917 | 28,697 |
| Affect |  |  |  |  |  |  |
| *t-values* | 1,121 | 2,495 | 0,235 | 0,210 | 2,374 | 0,394 |
| *p-value* | 0,263 | 0,013, q=0.078 | 0,814 | 0,833 | 0,018, q>0.1 | 0,694 |
| *Mean* | 8,424 | 25,511 | 1,489 | -2,098 | 40,120 | 5,087 |
| *std* | 63,328 | 130,470 | 36,293 | 112,520 | 181,300 | 76,124 |
| *CI min* | -4,691 | -1,509 | -6,027 | -25,399 | 2,573 | -10,678 |
| *CI max* | 21,539 | 52,531 | 9,005 | 21,204 | 77,666 | 20,852 |
| RCC |  |  |  |  |  |  |
| *t-values* | -1,102 | -1,118 | -1,052 | -0,409 | 1,052 | -0,557 |
| *p-value* | 0,271 | 0,264 | 0,294 | 0,683 | 0,294 | 0,578 |
| *Mean* | -6,864 | -21,845 | -3,700 | -8,591 | 15,673 | -1,827 |
| *std* | 75,284 | 137,630 | 45,632 | 104,680 | 155,170 | 71,276 |
| *CI min* | -21,090 | -47,853 | -12,323 | -28,372 | -13,650 | -15,297 |
| *CI max* | 7,363 | 4,162 | 4,923 | 11,190 | 44,995 | 11,642 |

**Supplementary File 1c**. T0-T1 change statistics, p-values are uncorrected, q values reported when p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Affect TC3 vs Presence | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| *t-value* | -0,065 | 0,454 | 1,519 | 1,487 | 0,401 | 0,548 |
| *p-value* | 0,948 | 0,650 | 0,130 | 0,139 | 0,689 | 0,584 |
| *Cohens D* | -0,009 | 0,065 | 0,217 | 0,212 | 0,057 | 0,078 |
| Affect TC3 vs RCC |  |  |  |  |  |  |
| *t-value* | 1,359 | 1,228 | 2,175 | 1,036 | 2,452 | -0,461 |
| *p-value* | 0,176 | 0,221 | 0,031, q>0.1 | 0,302 | 0,015, q=0.09 | 0,645 |
| *Cohens D* | 0,194 | 0,175 | 0,311 | 0,148 | 0,350 | -0,066 |
| Presence vs RCC |  |  |  |  |  |  |
| *t-value* | 1,522 | 0,883 | 0,875 | -0,317 | 2,248 | -1,021 |
| *p-value* | 0,130 | 0,379 | 0,383 | 0,752 | 0,026, q>0.1 | 0,308 |
| *Cohens D* | 0,217 | 0,126 | 0,125 | -0,045 | 0,321 | -0,146 |

**Supplementary File 1d**. T1-T3 change statistics, p-values are uncorrected, q values reported when p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Affect vs Perspective | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| *t-value* | 0,417 | 2,360 | 0,458 | -0,245 | 2,930 | -0,604 |
| *p-value* | 0,677 | 0,019,  q>0.1 | 0,647 | 0,807 | 0,004, q=0.022 | 0,547 |
| *Cohens D* | 0,050 | 0,282 | 0,055 | -0,029 | 0,350 | -0,072 |
| Affect vs RCC |  |  |  |  |  |  |
| *t-value* | 1,504 | 2,460 | 0,861 | 0,417 | 0,935 | 0,641 |
| *p-value* | 0,134 | 0,014,  q=0.084 | 0,390 | 0,677 | 0,351 | 0,522 |
| *Cohens D* | 0,180 | 0,294 | 0,103 | 0,050 | 0,112 | 0,077 |
| Perspective vs RCC |  |  |  |  |  |  |
| *t-value* | 1,025 | -0,067 | 0,359 | 0,659 | -2,139 | 1,250 |
| *p-value* | 0,306 | 0,947 | 0,720 | 0,510 | 0,033,  q>0.1 | 0,212 |
| *Cohens D* | 0,123 | -0,008 | 0,043 | 0,079 | -0,256 | 0,149 |

**Supplementary File 1e**. T1-T3 change statistics – Training cohort 1 and 2 *Affect* versus *Perspective.* P-values are uncorrected, q values reported when p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| TC1 | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| *t-value* | 1,557 | 2,549 | 1,263 | 0,214 | 4,243 | -0,224 |
| *p-value* | 0,122 | 0,012, q=0.072 | 0,209 | 0,831 | 0,000  q<0.001 | 0,823 |
| *Cohens D* | 0,273 | 0,447 | 0,222 | 0,038 | 0,744 | -0,039 |
| TC2 |  |  |  |  |  |  |
| *t-value* | -0,819 | 0,447 | -0,300 | -0,757 | 0,102 | -0,681 |
| *p-value* | 0,414 | 0,656 | 0,765 | 0,451 | 0,919 | 0,497 |
| *Cohens D* | -0,149 | 0,081 | -0,055 | -0,138 | 0,019 | -0,124 |

**Supplementary File 1f**. T1-T2 change. P-values are uncorrected, q values reported when p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| T1-T2  Affect vs Perspective | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| *t-value* | 0,612 | 1,751 | 0,944 | 0,404 | 3,743 | -0,174 |
| *p-value* | 0,541 | 0,082 | 0,347 | 0,687 | 0,000  q<0.001 | 0,862 |
| *Cohens D* | 0,108 | 0,308 | 0,166 | 0,071 | 0,659 | -0,031 |
| Affect vs RCC |  |  |  |  |  |  |
| *t-value* | 1,995 | 0,967 | 0,582 | 0,974 | 2,637 | 0,622 |
| *p-value* | 0,048  q>0.1 | 0,335 | 0,562 | 0,332 | 0,009  q=0.054 | 0,535 |
| *Cohens D* | 0,351 | 0,170 | 0,102 | 0,171 | 0,464 | 0,110 |
| Perspective vs RCC |  |  |  |  |  |  |
| *t-value* | 1,271 | -0,938 | -0,448 | 0,508 | -1,454 | 0,786 |
| *p-value* | 0,206 | 0,350 | 0,655 | 0,613 | 0,148 | 0,433 |
| *Cohens D* | 0,224 | -0,165 | -0,079 | 0,089 | -0,256 | 0,138 |

**Supplementary File 1g**. T2-T3 change. P-values are uncorrected, q values reported when p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| T2-T3  Affect vs Perspective | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| *t-value* | -0,033 | 1,768 | -0,176 | -0,582 | 0,641 | -0,748 |
| *p-value* | 0,974 | 0,079 | 0,860 | 0,561 | 0,523 | 0,456 |
| *Cohens D* | -0,005 | 0,293 | -0,029 | -0,096 | 0,106 | -0,124 |
| Affect vs RCC |  |  |  |  |  |  |
| *t-value* | 0,212 | 2,691 | 0,832 | -0,302 | -1,006 | 0,326 |
| *p-value* | 0,832 | 0,008,  q=0.048 | 0,407 | 0,763 | 0,316 | 0,745 |
| *Cohens D* | 0,035 | 0,445 | 0,138 | -0,050 | -0,167 | 0,054 |
| Perspective vs RCC |  |  |  |  |  |  |
| *t-value* | 0,239 | 0,828 | 0,988 | 0,296 | -1,628 | 1,075 |
| *p-value* | 0,811 | 0,409 | 0,325 | 0,768 | 0,106 | 0,284 |
| *Cohens D* | 0,040 | 0,137 | 0,164 | 0,049 | -0,269 | 0,178 |

**Supplementary File 1h.** Subfield-specific changes following the Training Modules, controlling for the other two ipsilateral subfields

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| *Presence vs Active Control* | t=0.475  p>0.1  D=0.069 | t=-0.033  p>0.1  D=-0.004 | t=-1.514  p>0.1  D=-0.216 | t=-1.365  p>0.1  D=-0.195 | t=-0.162  p>0.1  D=-0.023 | t=-0.210  p>0.1  D=-0.03 |
| *Affect vs Perspective* | t=0.793  p>0.1  D=-0.03 | t=2.298, p=0.022  D=0.275 | t=0.924  p>0.1  D=-0.012 | t=0.883  p>0.1  D=-0.018 | t=3.045  p=0.0025  Q=0.015  D=0.364 | t=-0.978  P>0.1  D=-0.117 |

**Supplementary File 1i**. Overall change in subfield volume.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Training vs RCC | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| *t-value* | 1,033 | 0,702 | 1,035 | -1,348 | 0,774 | 0,017 |
| *p-value* | 0,303 | 0,484 | 0,302 | 0,180 | 0,440 | 0,986 |
| *Cohens D* | 0,172 | 0,117 | 0,172 | -0,225 | 0,129 | 0,003 |

**Supplementary File 1j**. Sex differences (female versus male) in hippocampal subfield volumes.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| baseline | t=2.423  p=0.008  q=0.049 | t=2.061  p=0.021  q=0.121 | t=3.671  p<0.001  q=0.001 | t=-0.520  p=0.698  q>0.05 | t=3.570  p<0.001  q>0.002 | t=2.555  p=0.006  q=0.034 |
| baseline+ ICVcontrol | t=1.739  p=0.042  q>0.1 | t=-0.171  p>0.1  q>0.1 | t=1.259  p>0.1  q>0.1 | t=-0.358  p>0.1  q>0.1 | t=1.962  p=0.025  q>0.1 | t=1.201  p>0.1  q>0.1 |
| *Main change analysis* |  |  |  |  |  |  |
| *Affect* versus *Perspective*  ICVcontrol | t=0.514  p>0.05  q>0.05 | t=2.588  p=0.01  q=0.06 | t=0.677  p>0.05  q>0.05 | t=-0.262  p>0.05  q>0.05 | t=3.065  p=0.002  q=0.014 | t=-0.511  p>0.05  q>0.05 |
| *Presence* versus *Active Control*  ICVcontrol | t=-0.101  p>0.05  q>0.05 | t=0.214  p>0.05  q>0.05 | t=1.236  p>0.05  q>0.05 | t=1.462  p>0.05  q>0.05 | t=0.256  p>0.05  q>0.05 | t=0.406  p>0.05  q>0.05 |

**Supplementary File 1k**. Descriptive statistics mean subfield functional network change T0-T1. Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Presence | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| *t-values* | -1,223 | **-0,803** | -0,915 | -0,757 | **-0,507** | 0,387 |
| *p-value* | 0,223 | **0,423** | 0,361 | 0,450 | **0,613** | 0,699 |
| *Mean* | -0,004 | **-0,001** | -0,008 | 0,000 | **0,009** | 0,004 |
| *std* | 0,091 | **0,089** | 0,093 | 0,089 | **0,099** | 0,087 |
| *CI min* | -0,023 | **-0,020** | -0,028 | -0,018 | **-0,012** | -0,014 |
| *CI max* | 0,015 | **0,018** | 0,011 | 0,019 | **0,029** | 0,023 |
| Affect TC3 |  |  |  |  |  |  |
| *t-values* | -1,089 | **-0,247** | -0,105 | -1,053 | **-1,071** | 0,587 |
| *p-value* | 0,278 | **0,805** | 0,917 | 0,294 | **0,285** | 0,558 |
| *Mean* | -0,004 | **0,003** | 0,000 | -0,004 | **0,002** | 0,007 |
| *std* | 0,078 | **0,091** | 0,082 | 0,085 | **0,081** | 0,096 |
| *CI min* | -0,024 | **-0,021** | -0,021 | -0,026 | **-0,019** | -0,018 |
| *CI max* | 0,016 | **0,026** | 0,021 | 0,018 | **0,022** | 0,032 |
| RCC |  |  |  |  |  |  |
| *t-values* | -0,521 | **-1,462** | 0,023 | 0,198 | **1,384** | 0,296 |
| *p-value* | 0,603 | **0,145** | 0,981 | 0,843 | **0,168** | 0,767 |
| *Mean* | -0,001 | **-0,011** | 0,000 | 0,009 | **0,029** | 0,004 |
| *std* | 0,107 | **0,095** | 0,100 | 0,094 | **0,097** | 0,080 |
| *CI min* | -0,030 | **-0,036** | -0,028 | -0,017 | **0,002** | -0,017 |
| *CI max* | 0,028 | **0,015** | 0,027 | 0,034 | **0,055** | 0,026 |

**Supplementary File 1l**. Descriptive statistics mean subfield functional network change T1-T3. Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Perspective | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| *t-value* | 0,046 | **-0,071** | 0,461 | -1,443 | **-2,012** | -1,089 |
| *p-value* | 0,963 | **0,943** | 0,645 | 0,150 | **0,045,**  **q>0.1** | 0,277 |
| *Mean* | -0,003 | **-0,007** | 0,003 | -0,012 | **-0,024** | -0,006 |
| *std* | 0,088 | **0,100** | 0,092 | 0,089 | **0,081** | 0,099 |
| *CI min* | -0,022 | **-0,029** | -0,017 | -0,032 | **-0,041** | -0,028 |
| *CI max* | 0,017 | **0,015** | 0,023 | 0,007 | **-0,006** | 0,016 |
| Affect |  |  |  |  |  |  |
| *t-values* | 1,050 | **0,139** | 0,899 | 1,116 | **1,691** | 0,569 |
| *p-value* | 0,295 | **0,889** | 0,369 | 0,265 | **0,092** | 0,570 |
| *Mean* | 0,007 | **-0,005** | 0,007 | 0,011 | **0,010** | 0,010 |
| *std* | 0,103 | **0,110** | 0,100 | 0,092 | **0,098** | 0,098 |
| *CI min* | -0,015 | **-0,028** | -0,013 | -0,008 | **-0,010** | -0,010 |
| *CI max* | 0,028 | **0,018** | 0,028 | 0,030 | **0,031** | 0,030 |
| RCC |  |  |  |  |  |  |
| *t-values* | 0,225 | **1,206** | -0,608 | -0,839 | **-0,701** | -0,436 |
| *p-value* | 0,822 | **0,229** | 0,544 | 0,402 | **0,484** | 0,663 |
| *Mean* | 0,000 | **0,005** | -0,005 | -0,006 | **-0,010** | 0,001 |
| *std* | 0,079 | **0,079** | 0,071 | 0,089 | **0,092** | 0,092 |
| *CI min* | -0,015 | **-0,010** | -0,019 | -0,023 | **-0,028** | -0,017 |
| *CI max* | 0,014 | **0,020** | 0,008 | 0,011 | **0,007** | 0,018 |

**Supplementary File 1m**. Functional connectivity network change T0-T1. Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Affect TC3 vs Presence | |  |  |  |  |  |
|  | **LSUB** | **LCA1-3** | **LCA4/DG** | **RSUB** | **RCA1-3** | **RCA4/DG** |
| *t-value* | 0,058 | **0,366** | 0,541 | -0,230 | **-0,411** | 0,151 |
| *p-value* | 0,953 | **0,715** | 0,589 | 0,818 | **0,682** | 0,880 |
| *Cohens D* | 0,008 | **0,052** | 0,077 | -0,033 | **-0,058** | 0,021 |
| Affect TC3 vs RCC | |  |  |  |  |  |
| *t-value* | -0,347 | **0,782** | -0,080 | -0,785 | **-1,556** | 0,177 |
| *p-value* | 0,729 | **0,435** | 0,936 | 0,433 | **0,121** | 0,860 |
| *Cohens D* | -0,049 | **0,111** | -0,011 | -0,112 | **-0,221** | 0,025 |
| Presence vs RCC | |  |  |  |  |  |
| *t-value* | -0,430 | **0,491** | -0,607 | -0,626 | **-1,283** | 0,046 |
| *p-value* | 0,668 | **0,624** | 0,545 | 0,532 | **0,201** | 0,964 |
| *Cohens D* | -0,061 | **0,070** | -0,086 | -0,089 | **-0,182** | 0,006 |

**Supplementary File 1n**. Functional connectivity network change T1-T3. Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Affect vs Perspective | |  |  |  |  |  |
|  | **LSUB** | **LCA1-3** | **LCA4/DG** | **RSUB** | **RCA1-3** | **RCA4/DG** |
| *t-value* | 0,644 | **0,137** | 0,272 | 1,674 | **2,420** | 1,088 |
| *p-value* | 0,520 | **0,891** | 0,786 | 0,095 | **0,016**  **q=0.032** | 0,278 |
| *Cohens D* | 0,077 | **0,016** | 0,032 | 0,200 | **0,289** | 0,130 |
| Affect vs RCC |  |  |  |  |  |  |
| *t-value* | 0,575 | **-0,703** | 1,023 | 1,326 | **1,631** | 0,681 |
| *p-value* | 0,566 | **0,483** | 0,307 | 0,186 | **0,104** | 0,496 |
| *Cohens D* | -0,049 | **0,111** | -0,011 | -0,112 | **-0,221** | 0,025 |
| Perspective vs RCC | |  |  |  |  |  |
| *t-value* | -0,113 | **-0,824** | 0,709 | -0,458 | **-0,939** | -0,472 |
| *p-value* | 0,910 | **0,410** | 0,479 | 0,648 | **0,348** | 0,637 |
| *Cohens D* | -0,061 | **0,070** | -0,086 | -0,089 | **-0,182** | 0,006 |

**Supplementary File 1o**. Functional connectivity network change T1-T3: Training cohort 1 and 2 *Affect* versus *Perspective.* Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05. Explorative analyses take all 6 subfields into account.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| TC1 | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| *t-value* | -0,362 | **-0,985** | -0,339 | -0,254 | **-0,417** | -0,085 |
| *p-value* | 0,718 | **0,326** | 0,735 | 0,800 | **0,677** | 0,933 |
| *Cohens D* | -0,063 | **-0,172** | -0,059 | -0,044 | **-0,073** | -0,015 |
| TC2 |  |  |  |  |  |  |
| *t-value* | 1,189 | **1,171** | 0,669 | 2,873 | **3,815** | 1,683 |
| *p-value* | 0,237 | **0,244** | 0,505 | 0,005  q=0.03 (6) | **0,000**  **q<0.001** | 0,095 |
| *Cohens D* | 0,215 | **0,212** | 0,121 | 0,520 | **0,691** | 0,305 |

**Supplementary File 1p**. Functional connectivity network change T1-T2. Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Affect vs Perspective |  |  |  |  |  |  |
|  | **LSUB** | **LCA1-3** | **LCA4/DG** | **RSUB** | **RCA1-3** | **RCA4/DG** |
| *t-value* | -0,423 | **0,055** | -0,713 | 0,810 | **2,121** | 0,737 |
| *p-value* | 0,673 | **0,956** | 0,477 | 0,419 | **0,036**  **q=0.072** | 0,463 |
| *Cohens D* | -0,074 | **0,010** | -0,126 | 0,143 | **0,373** | 0,130 |
| Affect vs RCC |  |  |  |  |  |  |
| *t-value* | -0,766 | **-1,978** | -0,285 | 0,088 | **0,923** | -0,061 |
| *p-value* | 0,445 | **0,051** | 0,776 | 0,930 | **0,358** | 0,952 |
| *Cohens D* | -0,049 | **0,111** | -0,011 | -0,112 | **-0,221** | 0,025 |
| Perspective vs RCC |  |  |  |  |  |  |
| *t-value* | -0,287 | **-1,967** | 0,487 | -0,780 | **-1,375** | -0,846 |
| *p-value* | 0,775 | **0,052** | 0,627 | 0,437 | **0,172** | 0,399 |
| *Cohens D* | -0,061 | **0,070** | -0,086 | -0,089 | **-0,182** | 0,006 |

**Supplementary File 1q**. Functional connectivity network change T2-T3. Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Affect vs Perspective | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| *t-value* | 1,378 | **0,202** | 1,037 | 1,678 | **1,501** | 0,911 |
| *p-value* | 0,170 | **0,840** | 0,301 | 0,096 | **0,136** | 0,364 |
| *Cohens D* | 0,227 | **0,033** | 0,171 | 0,277 | **0,248** | 0,150 |
| Affect vs RCC |  |  |  |  |  |  |
| *t-value* | 1,488 | **0,760** | 1,598 | 1,630 | **1,192** | 0,996 |
| *p-value* | 0,139 | **0,449** | 0,112 | 0,105 | **0,235** | 0,321 |
| *Cohens D* | -0,049 | **0,111** | -0,011 | -0,112 | **-0,221** | 0,025 |
| Perspective vs RCC |  |  |  |  |  |  |
| *t-value* | 0,045 | **0,533** | 0,499 | -0,121 | **-0,367** | 0,043 |
| *p-value* | 0,964 | **0,595** | 0,619 | 0,904 | **0,714** | 0,966 |
| *Cohens D* | -0,061 | **0,070** | -0,086 | -0,089 | **-0,182** | 0,006 |

**Supplementary File 1r. Correlating change in subfield volume and diurnal cortisol indices in *Affect*.** Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| CAR | 1,007, p>0.1 | **-0,355, p>0.1** | 0,166, p>0.1 | -1,364, p>0.1 | **-1,543, p>0.1** | -0,404, p>0.1 |
| Slope | -0,283, p>0.1 | **-0,878, p>0.1** | 0,728, p>0.1 | 0,634, p>0.1 | **-1,245, p>0.1** | -1,716, p<0.1 |
| AUCg | -0,945, p>0.1 | **-2,237, p=0.028, q=0.056** | 0,636, p>0.1 | -0,222, p>0.1 | **-2,283, p=0.025, q=0.05** | -1,446, p>0.1 |

**Supplementary File 1s. Association between stress-markers and within functional network sub-regions in *Affect* and *Perspective*.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *Affect* | LCA1-3 - PI | RCA1-3 - mPFC | *Perspective* | LCA1-3 - PI | RCA1-3 - mPFC |
| CAR | -0.939, p>0.1 | -0.137, p>0.1 |  | -0.202, p>0.1 | -0.217, p>0.1 |
| Slope | 0.652, p>0.1 | 0.385, p>0.1 |  | 1.385, p>0.1 | 0.660, p>0.1 |
| AUCg | -0.625, p>0.1 | -0.484, p>0.1 |  | -0.411,p>0.1 | 0.003, p>0.1 |

**Supplementary File 1t. Correlating change in subfield functional network and diurnal cortisol indices in *Affect*.** Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| CAR | 0,066, p>0.1 | **-0,476, p>0.1** | -0,535, p>0.1 | -0,764, p>0.1 | **-0,425, p>0.1** | -0,534, p>0.1 |
| Slope | 0,800, p>0.1 | **2,653, p=0.009,**  **q=0.018** | 1,662, p>0.1 | 1,385, p>0.1 | **0,773, p>0.1** | 1,102, p>0.1 |
| AUCg | 0,914, p>0.1 | **2,261, p=0.026,**  **q=0.052** | 1,638, p>0.1 | -0,697, p>0.1 | **0,024, p>0.1** | -0,447, p>0.1 |

**Supplementary File 1u. Correlating change in subfield volume and diurnal cortisol indices in *Presence*.** Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| CAR | 1,520,  p>0.1 | **1,484,**  **p>0.1** | 1,908,  p=0.06 | 1,391,  p>0.1 | **0,241,**  **p>0.1** | 0,891,  p>0.1 |
| Slope | -1,052  p>0.1 | **-1,777,**  **p=0.08** | -2,890,  p=0.005, q=0.03 | -1,408,  p>0.1 | **-1,736,**  **p=0.086** | -0,451,  p>0.1 |
| AUCg | 0,023  p>0.1 | **-0,356,**  **p>0.1** | -0,546,  p>0.1 | -0,223,  p>0.1 | **-0,118,**  **p>0.1** | 1,116,  p>0.1 |

**Supplementary File 1v. Correlating change in subfield volume and diurnal cortisol indices in *Perspective*.** Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| CAR | 0,394, p>0.1 | **0,575, p>0.1** | 0,916, p>0.1 | 1,535, p>0.1 | **0,868, p>0.1** | 2,263, p=0.026,  q>0.1 |
| Slope | -0,388, p>0.1 | **-1,409, p>0.1** | -0,904, p>0.1 | 0,825, p>0.1 | **-1,152, p>0.1** | -0,690, p>0.1 |
| AUCg | -1,136, p>0.1 | **-1,060, p>0.1** | -0,018, p>0.1 | 0,995, p>0.1 | **-0,838, p>0.1** | -0,727, p>0.1 |

**Supplementary File 1w. Correlating change in subfield function and diurnal cortisol indices in *Presence*.** Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| CAR | 1,250,  p>0.1 | **1,133,**  **p>0.1** | 0,608,  p>0.1 | 0,877,  p>0.1 | **-0,090,**  **p>0.1** | 0,160,  p>0.1 |
| Slope | 0,637,  p>0.1 | **1,103,**  **p>0.1** | 1,187,  p>0.1 | 0,096,  p>0.1 | **0,424,**  **p>0.1** | -0,243,  p>0.1 |
| AUCg | 0,514,  p>0.1 | **1,102,**  **p>0.1** | 0,546,  p>0.1 | -0,130,  p>0.1 | **-0,644,**  **p>0.1** | -1,007,  p>0.1 |

**Supplementary File 1x. Correlating change in subfield function and diurnal cortisol indices in *Perspective*.** Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| CAR | -2,324,  p=0.023,  q>0.1 | **-1,685,**  **p=0.096** | -2,215, p=0.03,  q>0.1 | -1,464,  p>0.1 | **0,492,**  **p>0.1** | -1,148,  p>0.1 |
| Slope | 0,318,  p>0.1 | **1,027,**  **p>0.1** | -0,096,  p>0.1 | 1,912,  p=0.06 | **0,556,**  **p>0.1** | 1,283,  p>0.1 |
| AUCg | -1,990,  p=0.05 | **-0,609,**  **p>0.1** | -1,678,  p>0.1 | -0,748,  p>0.1 | **-0,473,**  **p>0.1** | -0,135,  p>0.1 |

**Supplementary File 1y**. Overall effects of cortisol markers on hippocampal volume in *Presence*, *Affect*, and *Perspective*. Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| CAR | 1,260, p>0.1 | **0,491, p>0.1** | 1,882, p<0.1 | 0,487, p>0.1 | **-1,116, p>0.1** | 1,383, p>0.1 |
| Slope | -0,561, p>0.1 | **-1,861, p<0.1** | -1,836, p<0.1 | 0,667, p>0.1 | **-1,788, p<0.1** | -1,361, p>0.1 |
| AUCg | -1,383, p>0.1 | **-2,008, p<0.05**  **q>0.1** | -0,117, p>0.1 | 0,113, p>0.1 | **-2,117, p<0.03,**  **q=0.06** | -0,872, p>0.1 |

**Supplementary File 1z**. Overall effects of cortisol markers on hippocampal function in *Presence*, *Affect*, and *Perspective*. Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| CAR | -0,666, p>0.1 | **-0,896, p>0.1** | -1,221, p>0.1 | -1,173, p>0.1 | **-0,290, p>0.1** | -1,131, p>0.1 |
| Slope | 1,416, p>0.1 | **3,024, p<0.001,**  **q=0.002** | 1,949, p<0.1 | 1,984, p<0.05  q>0.1 | **0,991, p>0.1** | 1,284, p>0.1 |
| AUCg | -0,232, p>0.1 | **1,614, p>0.1** | 0,405, p>0.1 | -0,919, p>0.1 | **-0,463, p>0.1** | -0,787, p>0.1 |

**Supplementary File 1za**. Effects of hair cortisol markers on hippocampal subfield volume in *Presence*, *Affect*, and *Perspective.* Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05. (Cortisol (HC) and Cortisone (HE)).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG | |
| HC | -0,595, p>0.1 | **-2,574, p=0.011, q=0.022** | -0,750, p>0.1 | -1,251, p>0.1 | **-0,199, p>0.1** | | -3,138, p=0.002  q=0.012 |
| HE | -0,127, p>0.1 | **-0,040, p>0.1** | -0,204, p>0.1 | -1,765, p<0.1 | **-0,589, p>0.1** | | -0,311, p>0.1 |

**Supplementary File 1zb**. Effects of hair cortisol markers on hippocampal subfield function in *Presence*, *Affect*, and *Perspective.* Main focus was on CA1-3 based on volumetric observations and are highlighted in bold. For these multiple comparisons (FDRq, corrected for two subfields) values are reported if uncorrected p values are below p<.05. (Cortisol (HC) and Cortisone (HE)). (Cortisol (HC) and cortisone (HE)).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | LSUB | LCA1-3 | LCA4/DG | RSUB | RCA1-3 | RCA4/DG |
| HC | -2,890, p=0.005,  q=0.03 | **-2,700, p=0.008**  **q=0.013** | -1,675, p>0.1 | -0,638, p>0.1 | **-0,019, p>0.1** | -0,329, p>0.1 |
| HE | -0,627, p>0.1 | **0,237, p>0.1** | -0,791, p>0.1 | 0,983, p<0.1 | **0,916, p>0.1** | 0,798, p>0.1 |