**S6 Table. Comparison of FC between PCC and the other nodes of the DMN among different cleaning approaches.** For each comparison, the first and the second rows respectively report the results of HC and ADHD patients.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **PCC-mPFC**z-score(p-value) | **PCC-left IPL**z-score(p-value) | **PCC-right IPL**z-score(p-value) | **PCC-left hippocampus**z-score(p-value) | **PCC-right hippocampus**z-score(p-value) |
| SE-Uncleaned < MWC | -2.952 (0.003) | -4.7(<0.001) | -3.466 (0.001) | -3.425(0.001) | -3.836(<0.001) |
| -3.507 (<0.001) | -4.535 (<0.001) | -4.247(<0.001) | -3.569(<0.001) | -4.659(<0.001) |
| SE-Uncleaned < FIXsoft | -1.306(n.s) | -2.293(0.022) | -2.232 (0.026) | -1.985(0.047) | -2.725(0.006) |
| -0.874(n.s.) | -2.952(0.003) | -3.342(0.002) | -1.841(n.s.) | -2.622(0.009) |
| SE-Uncleaned < FIXagg | -2.561 (0.01) | -4.042(<0.001) | -4.042 (<0.001) | -3.096(0.002) | -3.383(0.001) |
| -2.376 (0.018) | -4.227(<0.001) | -4.268(<0.001) | -2.849(0.004) | -4.597(<0.001) |
| SE-Uncleaned < ICA-AROMAsoft | 0.812(n.s) | -0.175(n.s.) | 1.944 (n.s.) | -0.422(n.s.) | 0.051(n.s.) |
| 1.368 (n.s.) | -1.573 (n.s.) | -0.977(n.s.) | -0.771(n.s.) | -1.512(n.s.) |
| SE-Uncleaned < ICA-AROMAagg | -2.417 (0.016) | -3.569(<0.001) | -2.499 (0.012) | -2.808(0.005) | -2.787(0.005) |
| -2.026(0.043) | -4.35(<0.001) | -4.33(<0.001) | -3.26(0.001) | -3.98(<0.001) |
| SE-Uncleaned < ME-Uncleaned | 1.615(n.s.) | -0.031(n.s.) | 2.54(0.011) | 1.573(n.s.) | 3.404(0.001) |
| 0.504 (n.s.) | -0.442 (n.s.) | 0.73(n.s.) | 3.137(0.002) | 3.013(0.003) |
| SE-Uncleaned < ME-AROMAagg | 0.812 (n.s.) | -0.936(n.s.) | 0.668 (n.s.) | -1.615(n.s.) | -0.895(n.s.) |
| 0.319 (n.s.) | -0.936(n.s.) | -0.648(n.s.) | -0.936(n.s.) | -0.319(n.s.) |
| SE-Uncleaned < ME-ICA | 3.959 (<0.001) | 2.417(0.016) | 2.622(0.009) | 4.062(<0.001) | 4.247(<0.001) |
| 3.383 (0.001) | 1.759(n.s.) | 1.861(n.s.) | 2.314(0.021) | 3.857(<0.001) |
| MWC < FIXsoft | 2.952(0.003) | 3.034 (0.002) | 1.306 (n.s.) | 1.903(n.s.) | 1.388(n.s.) |
| 3.589 (<0.001) | 1.717(n.s.) | -0.051(n.s.) | 3.075(0.002) | 2.849(0.009) |
| MWC < FIXagg | 0.339(n.s.) | -1.82(n.s.) | -1.532 (n.s.) | -0.854(n.s.) | -0.751(0.453) |
| 2.149 (0.032) | -1.327(n.s.) | -2.54(0.011) | 0.751(n.s.) | 0.977(n.s.) |
| MWC < ICA-AROMAsoft | 2.540(0.011) | 2.088(0.037) | 3.219 (0.001) | 2.828(0.005) | 3.198(0.001) |
| 3.589 (<0.001) | 2.376(0.018) | 3.013(0.003) | 3.569(<0.001) | 2.026(0.043) |
| MWC < ICA-AROMAagg | 0.010(n.s.) | -1.779(n.s.) | 0.113 (n.s.) | -0.339(n.s.) | 0.298(n.s.) |
| 1.080 (n.s.) | -1.697(n.s.) | -2.499(0.012) | 0.051(n.s.) | -0.093(n.s.) |
| MWC < ME-Uncleaned | 3.527(<0.001) | 3.733 (<0.001) | 4.391 (<0.001) | 3.219(0.001) | 4.35(<0.001) |
| 2.828 (0.005) | 3.507 (<0.001) | 3.939 (<0.001) | 4.145 (<0.001) | 4.412(<0.001) |
| MWC < ME-AROMAagg | 2.89(0.004) | 1.676(n.s.) | 2.766 (0.006) | 1.779(n.s.) | 2.005(0.045) |
| 2.458 (0.014) | 2.458 (0.014) | 2.684(0.007) | 2.478(0.013) | 3.425(0.001) |
| MWC < ME-ICA | 4.618(<0.001) | 4.535(<0.001) | 3.815 (<0.001) | 4.659(<0.001) | 4.638(<0.001) |
| 4.247 (<0.001) | 3.836 (<0.001) | 3.774(<0.001) | 4.083(<0.001) | 4.453(<0.001) |
| FIXsoft < FIXagg | -2.232 (0.026) | -4.247 (<0.001) | -2.931 (0.003) | -2.828(0.005) | -2.622(0.009) |
| -1.923 (n.s.) | -2.746 (0.006) | -2.89(0.004) | -3.075(0.002) | -2.376(0.018) |
| FIXsoft < ICA-AROMAsoft | 1.656(n.s.) | 1.183(n.s.) | 3.013 (0.003) | 1.553(n.s.) | 2.808(0.005) |
| 2.602 (0.009) | 1.491 (n.s.) | 2.417 (0.016) | 1.944(n.s.) | 0.422(n.s.) |
| FIXsoft < ICA-AROMAagg | -1.8(n.s.) | -3.075 (0.002) | -0.319(n.s.) | -1.985(0.047) | -0.956(n.s.) |
| -1.306 (n.s.) | -2.396 (0.017) | -2.52(0.012) | -3.034(0.002) | -2.458(0.014) |
| FIXsoft < ME-Uncleaned | 2.211 (0.027) | 1.861 (n.s.) | 3.692 (<0.001) | 2.396(0.017) | 3.527(<0.001) |
| 1.286 (n.s.) | 2.129 (0.033) | 3.815(<0.001) | 2.931(0.003) | 3.589(<0.001) |
| FIXsoft < ME-AROMAagg | 1.512 (n.s.) | 0.36(n.s.) | 2.417 (0.016) | 0.668(n.s.) | 1.08(n.s.) |
| 1.1(n.s.) | 1.656 (n.s.) | 2.314(0.021) | 0.895(n.s.) | 2.108(0.035) |
| FIXsoft < ME-ICA | 4.227 (<0.001) | 3.877 (<0.001) | 3.713 (<0.001) | 4.597(<0.001) | 4.33(<0.001) |
| 3.589 (<0.001) | 3.178 (0.001) | 3.713 (<0.001) | 3.157(0.002) | 4.227(<0.001) |
| FIXagg < ICA-AROMAsoft | 2.478(0.013) | 2.931 (0.003) | 3.651 (<0.001) | 3.425(0.001) | 3.959(<0.001) |
| 3.116 (0.002) | 2.622 (0.009) | 3.26(0.001) | 3.466(0.002) | 2.047(0.041) |
| FIXagg < ICA-AROMAagg | -0.442(n.s.) | -0.998 (n.s.) | 1.82(n.s.) | 0.113(n.s.) | 1.121(n.s.) |
| -0.442 (n.s.) | -0.915(n.s.) | -0.113(n.s.) | -1.183(n.s.) | -1.224(n.s.) |
| FIXagg < ME-Uncleaned | 3.034 (0.002) | 3.774(<0.001) | 4.535 (<0.001) | 3.301(0.001) | 4.124(<0.001) |
| 2.067 (0.039) | 3.445 (0.001) | 4.453 (<0.001) | 3.322(0.001) | 4.206(<0.001) |
| FIXagg < ME-AROMAagg | 2.664(0.008) | 2.335 (0.02) | 3.507 (<0.001) | 2.828(0.005) | 2.993(0.003) |
| 1.409 (n.s.) | 2.622 (0.009) | 2.952 (0.003) | 2.293(0.022) | 3.507(<0.001) |
| FIXagg < ME-ICA | 4.412(<0.001) | 4.576(<0.001) | 4.021 (<0.001) | 4.679(<0.001) | 4.638(<0.001) |
| 4.042 (<0.001) | 3.774 (<0.001) | 4.165 (<0.001) | 3.918(<0.001) | 4.371(<0.001) |
| ICA-AROMAsoft < ICA-AROMAagg | -4.33(<0.001) | -.412 (<0.001) | -4.432 (<0.001) | -4.186(<0.001) | -4.33(<0.001) |
| -4.741 (<0.001) | -4.659 (<0.001) | -4.618 (<0.001) | -4.782(<0.001) | -3.836(<0.001) |
| ICA-AROMAsoft < ME-Uncleaned | 0.381(n.s.) | 0.71(n.s.) | 0.36(n.s.) | 0.854(n.s.) | 1.985(0.047) |
| -0.854 (n.s.) | 1.306 (n.s.) | 1.882(n.s.) | 2.026(0.043) | 3.486(<0.001) |
| ICA-AROMAsoft < ME-AROMAagg | 0.093(n.s.) | -0.463(n.s.) | -0.648(n.s.) | -0.977(n.s.) | -1.08(n.s.) |
| -0.792(n.s.) | 0.216(n.s.) | 0.73(n.s.) | -0.216(n.s.) | 1.656(n.s.) |
| ICA-AROMAsoft < ME-ICA | 3.013(0.003) | 2.355(0.019) | 1.183(n.s.) | 3.939(<0.001) | 3.695(<0.001) |
| 1.759 (n.s.) | 2.17 (0.03) | 2.335 (0.02) | 2.705(0.007) | 4.186(<0.001) |
| ICA-AROMAagg < ME-Uncleaned | 3.157(0.002) | 3.363 (0.001) | 3.733(<0.001) | 2.952(0.003) | 3.713(<0.001) |
| 1.882 (n.s.) | 4.042(<0.001) | 4.288 (<0.001) | 3.877(<0.001) | 4.206(<0.001) |
| ICA-AROMAagg < ME-AROMAagg | 2.931(0.003) | 3.404 (0.001) | 2.808 (0.005) | 2.520(0.012) | 2.52(0.012) |
| 1.964 (0.049) | 3.445(0.002) | 3.959 (<0.001) | 3.24(0.001) | 4.206(<0.001) |
| ICA-AROMAagg < ME-ICA | 4.309(<0.001) | 4.206 (<0.001) | 3.754(<0.001) | 4.618(<0.001) | 4.515(<0.001) |
| 3.692 (<0.001) | 4.124 (<0.001) | 4.042 (<0.001) | 4.247(<0.001) | 4.371(<0.001) |
| ME-Uncleaned < ME-AROMAagg | -0.668(n.s.) | -0.915 (n.s.) | -1.697(n.s.) | -2.108(0.035) | -2.849(0.004) |
| -0.031 (n.s.) | -0.36(n.s.) | -1.409(n.s.) | -2.376(0.018) | -2.643(0.008) |
| ME-Uncleaned < ME-ICA | 4.103(<0.001) | 3.754 (<0.001) | 1.882 (n.s.) | 3.774(<0.001) | 3.774(<0.001) |
| 3.836 (<0.001) | 2.643 (0.008) | 1.656(n.s.) | 1.388(n.s.) | 2.314(0.021) |
| ME-AROMAagg < ME-ICA | 3.013(<0.001) | 3.342(0.001) | 2.622 (0.009) | 4.021(<0.001) | 4.268(<0.001) |
| 2.828 (0.005) | 1.82(n.s.) | 2.149 (0.032) | 3.281(0.001) | 3.486(<0.001) |