**Supplement 4: Symptoms related to agency inferences and self-serving bias**

Both self-agency and the self-serving bias have been found to be related to psychopathology (especially hallucinations, paranoid delusion, passivity symptoms and depression) in patients [e.g., 10, 52-54]. Therefore, we explored these associations in our sample using Spearman’s correlation coefficient. Due to the low frequency of current presence of delusions of control (n=0), thought broadcasting (n=3), thought insertion (n=4), and thought withdrawal (n=0), correlational analysis could not be performed for these symptoms.

Results in STable 6 showed that only a significant correlation was found between the prime-based matching effect and PANSS general psychopathology. However, this correlation did not survive Bonferroni correction for multiple testing (α=.05/7=.007).

STable 6: Spearman’s correlation between psychopathology in patients and study outcome measures (agency inferences and self-serving bias)

|  |  |  |  |
| --- | --- | --- | --- |
| **PANSS** | **Prime-based**  **matching effect (n=36)** | **Goal-based**  **matching effect (n=35)** | **Self-serving bias (n=34)** |
| positive subscale | *rs*=.13, *p*=.46 | *rs*=.10, *p*=.59 | *rs*=-.26, *p*=.14 |
| negative subscale | *rs*=-.01, *p*=.96 | *rs*=-.25, *p*=.15 | *rs*=.11, *p*=.53 |
| general subscale | *rs*=.35, *p*=.04 | *rs*=-.11, *p*=.53 | *rs*=-.32, *p*=.06 |
| total | *rs*=.19, *p*=.26 | *rs*=-.11, *p*=.51 | *rs*=-.26, *p*=.14 |
| suspiciousness/persecution | *rs*=.21, *p*=.22 | *rs*=.23, *p*=.18 | *rs*=-.26, *p*=.14 |
| hallucinations | *rs*=.05, *p*=.79 | *rs*=-.19, *p*=.29 | *rs*=-.24, *p*=.17 |
| depression | *rs*=.12, *p*=.50 | *rs*=-.13, *p*=.45 | *rs*=-.10, *p*=.57 |

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