**Supplementary Table S1.** Significant task-related modulation of confidence ratings. Results reported are significant at an uncorrected α of .05. Asterisk denotes effect significant following Bonferroni-correction.

|  |  |
| --- | --- |
| Measure | Group |
| Schizophrenia | Healthy |
| A) Within-group effects |  |  |
| *Modulation of confidence by identification performance* |  |  |
| Ambiguous gestures | T(18)=3.60, P=.002 | T(17)=4.16, P=.001 |
| Perpendicular gestures | T(24)=3.01, P=.006 | T(17)=3.64, P=.001 |
| Incidental movements towards viewer | - | T(15)=2.15, P=.048 |
| Ambiguous incidental movements | T(20)=2.57, P=.018 | T(20)=2.15, P=.018 |
|  |  |  |
| *Modulation of confidence by movement type during identification* |  |  |
| Gestures vs. incidental movements towards viewer | T(28)=3.53, P=.001 | T(23)=4.43, P=2x10-4\* |
| Ambiguous gestures vs. incidental movements | T(28)=3.56, P=.001 | - |
| Perpendicular gestures vs. incidental movements  | T(28)=3.03, P=.005 | T(23)=3.71, P=.001 |
|  |  |  |
| *Modulation of confidence by movement direction* |  |  |
| Towards vs. perpendicular gestures (during identification) | - | T(23)=2.53, P=.019 |
| Ambiguous vs. perpendicular incidental movements (during identification) | - | T(14)=2.65, P=.019 |
| Towards vs. ambiguous gestures (when inferring action personally intended) | - | T(21)=3.23, P=.004 |
|  |  |  |
| B) Between-group differences | Healthy > Schizophrenia |
| When judging ambiguous gestures not to be personally intended | T(38.94)=2.48, P=.018 |
|  |  |  |

**Supplementary Table S2.** Significant associations between metacognitive traits and task performance.

|  |  |  |  |
| --- | --- | --- | --- |
| Group | Task measure | MCQ-30 subscale | Regression statistics |
|  |  |  | Beta | T-value | P-value |
| SZ | Confidence that ambiguous gesture was not personally intended | Cognitive self-consciousness | 0.59±0.14 | 4.11 | 5x10-4 |
|  |  |  |  |  |  |
| HC | Confidence that gesture towards viewer was personally intended | Need to control | 0.24±0.05 | 4.90 | 2x10-4 |
|  | Confidence that perpendicular gesture was personally intended | Cognitive confidence | -0.23±0.02 | -9.55 | .002 |
|  | Confidence that perpendicular gesture was not personally intended | Need to control | 0.24±0.07 | 3.55 | .002 |
|  | Confidence when correctly identifying ambiguous gesture  | Need to control | 0.22±0.06 | 3.71 | .002 |
|  | Confidence when correctly identifying incidental movement towards viewer | Need to control | 0.30±0.09 | 3.57 | .002 |

MCQ-30, 30-item Metacognitions Questionnaire; SZ, schizophrenia group; HC, healthy control group

**Supplementary Table S3.** Relationships between positive symptoms and task performance. Reported betas are unstandardised coefficients.

|  |  |
| --- | --- |
| Measure | Symptom |
| Hallucinations  | Delusions |
| A) Movement identification*Gestures* |  |  |
| TowardsAmbiguous | b=3.64±2.59, T(28)=1.40, P=.176b=-1.23±2.06, T(28)=-0.60, P=.556 | b=-2.27±2.15, T(28)=-1.06, P=.303b=1.54±1.71, T(28)=0.90, P=.379 |
| Away | b=-2.96±2.47, T(28)=-1.20, P=.244 | b=2.30±2.05, T(28)=1.12, P=.274 |
| *Incidental movements* |  |  |
| Towards | b=.62±5.24, T(28)=0.12, P=.907 | b=-0.41±4.35, T(28)=-0.95, P=.925 |
| Ambiguous | b=4.72±4.61, T(28)=1.02, P=.317 | b=-1.50±3.83, T(28)=-0.39, P=.699 |
| Away | b=-1.24±4.59, T(28)=-0.27, P=.790 | b=-1.02±3.82, T(28)=-0.27, P=.792 |
| B) Self-referential judgements |
| *Gestures*  |  |  |
| TowardsAmbiguous | b=0.28±5.33, T(28)=0.05, P=.958b=-1.77±5.11, T(28)=0.35, P=.733 | b=0.47±4.42, T(28)=-0.11, P=.917b=-2.39±4.24, T(28)=-.56, P=.579 |
| Away | b=7.34±6.12, T(28)=-1.20, P=.244 | b=-1.97±5.08, T(28)=-0.39, P=.703 |

**Supplementary Table S4.** Relationships between positive symptoms and metacognitive judgments. Analyses only conducted where measure was calculable in 20 or more patients (see Table 3 for details). \* denotes nominally-significant effects (P<.05). \*\* denotes effects significant after Bonferroni correction (P<.002). Reported betas are unstandardised coefficients.

|  |  |
| --- | --- |
| Measure | Symptom |
| Hallucinations | Delusions |
| A) Movement identification |  |  |
| *Gestures* |  |  |
| Correctly identified gesture towards participant | b=-0.38±0.26, T(28)=-1.45, P=.161 | b=0.21±0.22, T(28)=0.98, P=.339 |
| Correctly identified ambiguous gesture  | b=-0.30±0.19, T(28)=-1.62, P=.119 | b=0.09±0.15, T(28)=0.59, P=.559 |
| Correctly identified perpendicular gesture  | b=-0.68±0.28, T(28)=-2.46, P=.023\* | b=0.35±0.23, T(28)=1.55, P=.137 |
| Incorrectly identified perpendicular gesture  | b=-1.12±0.37, T(24)=-2.99, P=.008\* | b=0.22±0.30, T(24)=0.72, P=.480 |
|  |  |  |
| *Incidental movements* |  |  |
| Correctly identified movement towards participant | b=-0.75±0.32, T(28)=-2.37, P=.027\* | b=0.08±0.26, T(28)=0.28, P=.781 |
| Incorrectly identified movement towards participant | b=-0.46±0.58, T(20)=-0.79, P=.443 | b=0.34±0.47, T(20)=0.72, P=.483 |
| Correctly identified ambiguous movement | b=-0.85±0.34, T(28)=-2.48, P=.022\* | b=0.09±0.28, T(28)=0.33, P=.745 |
| Incorrectly identified ambiguous movement | b=-0.96±0.45, T(26)=-2.17, P=.043\* | b=0.42±0.36, T(26)=1.16, P=.259 |
| Correctly identified perpendicular movement | b=-0.81±0.39, T(28)=-2.05, P=.053 | b=0.11±0.33, T(28)=0.35, P=.730 |
| Incorrectly identified perpendicular movement | b=-0.64±1.03, T(28)=-0.62, P=.550 | b=0.04±0.67, T(28)=0.07, P=.949 |
|  |  |  |
| B) Self-referential judgement |  |  |
| *Gestures* |  |  |
| Gesture towards participant inferred to be self-intended  | b=-0.25±0.25, T(28)=-0.99, P=.334 | b=0.12±0.21, T(28)=0.56, P=.584 |
| Ambiguous gesture inferred to be self-intended  | b=-0.36±0.21, T(25)=-1.71, P=.103 | b=0.02±0.18, T(25)=0.14, P=.894 |
| Ambiguous gesture inferred not to be self-intended | b=-0.43±0.39, T(28)=-1.10, P=.283 | b=0.58±0.33, T(28)=1.75, P=.095 |
| Perpendicular gesture inferred not to be self-intended | b=-0.96±0.27, T(25)=-3.56, P=.002\*\* | b=0.43±0.25, T(25)=1.73, P=.100 |