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|   | **Cognitive Bias Modification for paranoia (CBM-pa) Interim Analysis** |   |
|   |   |   |
| **SPSS Variable name** | **Value label or unit of measurement** | **Variable description**  |
|  |  | *Demographics* |
| ID | 0001-0074 | Identification Number  |
| TrialArmNumber | 1=Arm 1;2=Arm 2 | Trial Arm Number |
| PIN | 0001-0074 | ID from randomization file |
| RandomisationDate | dd/mm/yyyy | Randomisation Date |
| Allocation | 1=Arm 1;2=Arm 2 | Trial Arm Number |
| Gender | 0=Male;1=Female | Gender |
| Age | Years | Age |
| DateOfBirth | dd/mm/yyyy | Date of Birth |
| Date\_of\_assessment | dd/mm/yyyy | Date of Assessment |
| Age\_of\_onset\_of\_distressing\_para | years | Age of psychosis onset  |
| Ethnicity | 1=White British; 2=White Irish; 3=Other White;4=Mixed, White and Black Caribbean;5=Mixed, White and Black African;6=Mixed, White and Asian;7=Other Mixed background;8=Asian, Indian; 9 =Asian,Pakistani; 10=Asian, Bangladeshi; 11=Other Asian Background; 12=Black, Caribbean; 13=Black, African; 14=Black, other mixed background; 15=Chinese;16=Other ethnic group, not specified | Ethnicity |
| Living\_arrangement | 1=Alone;2=Alone with children;3=Partner/Spouse; 4=Partner/Spouse and childred;5=Parents;6=Other family;7=Friends;8=Other | Living arrangement |
| Relationship\_status | 1=Single;2=Married/Living with someone;3=In as steady relationship;4=Divorced/Separated;5=Widowed; | Relationship status |
| Education\_level | 1=No qualifications;2=GCSE/O'Levels;3=A-Levels;4=Vocational/College;5=University/Professional Qual (degree+) | Highest level of education achieved |
| Employment | 1=Unemployed;2=Student;3=Full time;4=Part-time; | Employment |
| Recruitment\_Source | 1=Self-referral;2=Tracy;3=McPin;4=PICuP;5=C4C;6=Other/Uknown | Recruitment Source |
| Dyslexia | 0=No;1=Yes | Dyslexia |
| group | 1=Arm 1;2=Arm 2 | Group |
| ethn | 1=White; 2=Mixed and other;3=Asian;4=Black | Ethnicity |
| alone | 1=Alone;2=Alone with children;3=Partner/Spouse/children; 4=Parents, other family friends and others | Living arrangements |
| IQ |   | Premobid IQ |
|   |   | **Baseline Assessments (T0)** |
| T0\_PANSSpos6 | 1=Absent;2=Minimal;3=Mild;4=Moderate;5=Moderate-Severe;6=Severe;7=Extreme | Suspiciousness/persecution assessed by the item 6 Positive symptoms in Positive and Negative Symptoms Scale (PANSS) |
| T0\_SCID\_Primary\_diagnosis | 1=Non-mood psychotic disorder: Delusional disorder;2=Non-mood psychotic disorder: Schizophrenia;3=Non-mood psychotic disorder: Schizophreniform disorder;4=Non-mood psychotic disorder: Schizoaffective disorder; 5=Non-mood psychotic disorder: Schizoaffective disorder;6=Psychotic mood disorder: Bipolar disorder;7=Psychosis not otherwise specified (NOS);8=Anxiety dosorder with psychotic symptoms | Diagnosis from Structured Clinical Interview for DSM-V (SCID 5) |
| T0\_SCID\_comorbidity\_1 | 1= Social Anxiety Disorder;2=Generalised Anxiety Disorder;3=Panic Disorder;4= Specific Phobia;5=Depression;6=Bipolar;7=Obsessive Compulsive Disorder;8=Posttraumatic Stress Disorder;9=Personality Disorder | SCID Comorbidity with Primary diagnosis 1 |
| T0\_SCID\_comorbidity\_2 | 1= Social Anxiety Disorder;2=Generalised Anxiety Disorder;3=Panic Disorder;4= Specific Phobia;5=Depression;6=Bipolar;7=Obsessive Compulsive Disorder;8=Posttraumatic Stress Disorder;9=Personality Disorder | SCID Comorbidity with Primary diagnosis 2 |
| T0\_SCID\_comorbidity\_3 | 1= Social Anxiety Disorder;2=Generalised Anxiety Disorder;3=Panic Disorder;4= Specific Phobia;5=Depression;6=Bipolar;7=Obsessive Compulsive Disorder;8=Posttraumatic Stress Disorder;9=Personality Disorder | SCID Comorbidity with Primary diagnosis 3 |
|   |  |   |
|   |  | *Similarity Ratings Task (SRT)* |
| T0\_SRT\_TargetPos\_MEAN | average of positive target scores |  mean positive target score  |
| T0\_SRT\_TargetNeg\_MEAN | average of negative target scores |  mean target score |
| T0\_SRT\_Target\_Bias\_score | Mean positive target rating minus mean negative target rating (range -3 to +3) |  interpretation bias score (targets) |
| T0\_SRT\_FoilPos\_MEAN | average of positive foil scores | mean positive foil score  |
| T0\_SRT\_FoilNeg\_MEAN | average of negative foil scores |  mean foil score |
| T0\_SRT\_Foil\_Bias\_score | Mean positive foil rating minus mean negative foil rating (range -3 to +3) | interpretation bias score (foils) |
|   |  | *Scrambled Sentences Task (SST)* |
| T0\_SST\_Bias\_score\_Paranoia | Bias score – proportion of sentences completed with paranoid meaning out of total attempted |  paranoid bias score |
| T0\_SST\_Bias\_score\_NonParanoia | Bias score – proportion of sentences completed with non-paranoid meaning out of total attempted |  non-paranoid bias score |
| T0\_Cognitive\_flexibility\_scale |  |  |
|   |  | *Positive and Negative Symptoms Scale (PANSS)* |
| T0\_PANSS\_Positive | 7-49 | Positive |
| T0\_PANSS\_Negative | 7-49 | Negative |
| T0\_PANSS\_General | 16-112 | General |
| T0\_PANSS\_Total | 30-210  | Total |
|   |  | *Paranoia Scale*  |
| T0\_ParanoiaScale\_Total | Total score (20-100) |  20 items, answered in a Likert-like scale ranging from 1 (never) to 5 (always) |
|   |  | *Green Paranoid Thoughts Scale (GPTS)*  |
| T0\_GTPS\_refs | 1-80 |  Ideas of social reference -16 items measured on a 5-points scale, from 1 (Not at all) to 5 (Totally) |
| T0\_GTPS\_per | 1-80 | Ideas of social persecution -16 items measured on a 5-points scale, from 1 (Not at all) to 5 (Totally) |
| T0\_GTPS\_Total | Total score (32-160) |  Total score  |
|   |  | *Peters Delusions Inventory (PDI)*  |
| T0\_PDI\_total | 0-105 | Total score  |
|   |  | *Hospital Anxiety and Depression Scale (HADS)* |
| T0\_HADS\_Anxiety | 0-21 |  Anxiety symptoms |
| T0\_HADS\_Depression | 0-21 |  Depression symptoms |
| T0\_HADS\_Total | 0-42 |  Total Score |
|   |   | **Session 6 (I5)** |
| I5\_Sessions6\_PANSSpos6 | 1=Absent;2=Minimal;3=Mild;4=Moderate;5=Moderate-Severe;6=Severe;7=Extreme | Suspiciousness/persecution assessed by the item 6 Positive symptoms in Positive and Negative Symptoms Scale (PANSS) |
|   |   | *Similarity Ratings Task (SRT)* |
| I5\_Sessions6\_SRT\_TargetPos\_MEAN | average of positive target scores |  mean positive target score  |
| I5\_Sessions6\_SRT\_TargetNeg\_MEAN | average of negative target scores |  mean target score |
| I5\_Sessions6\_SRT\_Target\_Bias\_score | Mean positive target rating minus mean negative target rating (range -3 to +3) |  interpretation bias score (targets) |
| I5\_Sessions6\_SRT\_FoilPos\_MEAN | average of positive foil scores | mean positive foil score  |
| I5\_Sessions6\_SRT\_FoilNeg\_MEAN | average of negative foil scores |  mean foil score |
| I5\_Sessions6\_SRT\_Foil\_Bias\_score | Mean positive foil rating minus mean negative foil rating (range -3 to +3) | interpretation bias score (foils) |
|   |  | *Scrambled Sentences Task (SST)* |
| I5\_Sessions6\_SST\_Bias\_score\_Paranoia | Bias score – proportion of sentences completed with paranoid meaning out of total attempted |  paranoid bias score |
| I5\_Sessions6\_SST\_Bias\_score\_NonParanoia | Bias score – proportion of sentences completed with non-paranoid meaning out of total attempted |  non-paranoid bias score |
|   |  | *Paranoia Scale* |
| I5\_Sessions6\_ParanoiaScale\_Total | Total score (20-100) |  20 items, answered in a Likert-like scale ranging from 1 (never) to 5 (always) |
|   |  | *Green Paranoid Thoughts Scale (GPTS)*  |
| I5\_Sessions6\_GTPS\_refs | 1-80 |  Ideas of social reference -16 items measured on a 5-points scale, from 1 (Not at all) to 5 (Totally) |
| I5\_Sessions6\_GTPS\_per | 1-80 | Ideas of social persecution -16 items measured on a 5-points scale, from 1 (Not at all) to 5 (Totally) |
| I5\_Sessions6\_GTPS\_Total | Total score (32-160) |  Total score  |
|   |  | *Peters Delusions Inventory (PDI)*  |
| I5\_Sessions6\_PDI\_total | 0-105 | Total score  |
|   |  | *Hospital Anxiety and Depression Scale (HADS)* |
| I5\_Sessions6\_HADS\_Anxiety | 0-21 |  Anxiety symptoms |
| I5\_Sessions6\_HADS\_Depression | 0-21 |  Depression symptoms |
| I5\_Sessions6\_HADS\_Total | 0-42 |  Total Score |
|   |   |  **Session 2 (I1)** |
|   |   | *Visual analogue scale (VAS) administered before and after VR assessment* |
| I1\_Sessions2\_VisualAnalogue\_Anxious | 0-100 | VAS scale of state anxiety prior to VR task |
| I1\_Sessions2\_VisualAnalogueScale\_Sad | 0-100 | VAS state sadness prior to VR task |
| I1\_Sessions2\_VisualAnalogueScale\_Paranoid | 0-100 | VAS state paranoia prior to VR task |
| I1\_Sessions2\_VisualAnalogueScale\_Friendly | 0-100 | VAS state friendliness prior to VR task |
| I1\_Sessions2\_VisualAnalogueScale\_Anxious\_Post | 0-100 | VAS state anxiety following VR task |
| I1\_Sessions2\_VisualAnalogueScale\_Sad\_Post | 0-100 | VAS state sadness following VR task |
| I1\_Sessions2\_VisualAnalogueScale\_Paranoid\_Post | 0-100 | VAS state paranoia following VR task |
| I1\_Sessions2\_VisualAnalogueScale\_Friendly\_Post | 0-100 | VAS state friendliness following VR task |
|   |  | *Positive and Negative Symptoms Scale (PANSS)* |
| I1\_Sessions2\_PANSSpos6 | 1=Absent;2=Minimal;3=Mild;4=Moderate;5=Moderate-Severe;6=Severe;7=Extreme | Suspiciousness/persecution assessed by the item 6 Positive symptoms  |
|   |  | *Similarity Ratings Task (SRT)* |
| I1\_Sessions2\_SRT\_TargetPos\_MEAN | average of positive target scores |  mean positive target score  |
| I1\_Sessions2\_SRT\_TargetNeg\_MEAN | average of negative target scores |  mean target score |
| I1\_Sessions2\_SRT\_Target\_Bias\_score | Mean positive target rating minus mean negative target rating (range -3 to +3) |  interpretation bias score (targets) |
|   |   |  **Session 3 (I2)** |
|   |   | *Visual analogue scale (VAS) administered before and after VR assessment* |
| I2\_Sessions3\_VisualAnalogue\_Scale1 | 0-100 | VAS scale of state anxiety prior to VR task |
| I2\_Sessions3\_VisualAnalogueScale\_Scale2 | 0-100 | VAS state sadness prior to VR task |
| I2\_Sessions3\_VisualAnalogueScale\_Scale3 | 0-100 | VAS state paranoia prior to VR task |
| I2\_Sessions3\_VisualAnalogueScale\_Scale4 | 0-100 | VAS state friendliness prior to VR task |
| I2\_Sessions3\_VisualAnalogueScale\_Scale1\_Post | 0-100 | VAS state anxiety following VR task |
| I2\_Sessions3\_VisualAnalogueScale\_Scale2\_Post | 0-100 | VAS state sadness following VR task |
| I2\_Sessions3\_VisualAnalogueScale\_Scale3\_Post | 0-100 | VAS state paranoia following VR task |
| I2\_Sessions3\_VisualAnalogueScale\_Scale4\_Post | 0-100 | VAS state friendliness following VR task |
|   |  | *Positive and Negative Symptoms Scale (PANSS)* |
| I2\_Sessions3\_PANSSpos6 | 1=Absent;2=Minimal;3=Mild;4=Moderate;5=Moderate-Severe;6=Severe;7=Extreme | Suspiciousness/persecution assessed by the item 6 Positive symptoms  |
|   |  | *Similarity Ratings Task (SRT)* |
| I2\_Sessions3\_SRT\_TargetPos\_MEAN | average of positive target scores |  mean positive target score  |
| I2\_Sessions3\_SRT\_TargetNeg\_MEAN | average of negative target scores |  mean target score |
| I2\_Sessions3\_SRT\_Target\_Bias\_score | Mean positive target rating minus mean negative target rating (range -3 to +3) |  interpretation bias score (targets) |
|   |   |  **Session 4 (I3)** |
|   |   | *Visual analogue scale (VAS) administered before and after VR assessment* |
| I3\_Sessions4\_VisualAnalogueScale1 | 0-100 | VAS scale of state anxiety prior to VR task |
| I3\_Sessions4\_VisualAnalogueScale2 | 0-100 | VAS state sadness prior to VR task |
| I3\_Sessions4\_VisualAnalogueScale3 | 0-100 | VAS state paranoia prior to VR task |
| I3\_Sessions4\_VisualAnalogueScale4 | 0-100 | VAS state friendliness prior to VR task |
| I3\_Sessions4\_VisualAnalogueScale1Post | 0-100 | VAS state anxiety following VR task |
| I3\_Sessions4\_VisualAnalogueScale2Post | 0-100 | VAS state sadness following VR task |
| I3\_Sessions4\_VisualAnalogueScale3Post | 0-100 | VAS state paranoia following VR task |
| I3\_Sessions4\_VisualAnalogueScale4Post | 0-100 | VAS state friendliness following VR task |
|   |  | *Positive and Negative Symptoms Scale (PANSS)* |
| I3\_Sessions4\_PANSSpos6 | 1=Absent;2=Minimal;3=Mild;4=Moderate;5=Moderate-Severe;6=Severe;7=Extreme | Suspiciousness/persecution assessed by the item 6 Positive symptoms  |
|   |  | *Similarity Ratings Task (SRT)* |
| I3\_Sessions4\_SRT\_TargetPos\_MEAN | average of positive target scores |  mean positive target score  |
| I3\_Sessions4\_SRT\_TargetNeg\_MEAN | average of negative target scores |  mean target score |
| I3\_Sessions4\_SRT\_Bias\_score | Mean positive target rating minus mean negative target rating (range -3 to +3) |  interpretation bias score (targets) |
|   |   |  **Session 5 (I4)** |
|   |   | *Visual analogue scale (VAS) administered before and after VR assessment* |
| I4\_Sessions5\_VisualAnalogueScale1 | 0-100 | VAS scale of state anxiety prior to VR task |
| I4\_Sessions5\_VisualAnalogueScale2 | 0-100 | VAS state sadness prior to VR task |
| I4\_Sessions5\_VisualAnalogueScale3 | 0-100 | VAS state paranoia prior to VR task |
| I4\_Sessions5\_VisualAnalogueScale4 | 0-100 | VAS state friendliness prior to VR task |
| I4\_Sessions5\_VisualAnalogueScale1Post | 0-100 | VAS state anxiety following VR task |
| I4\_Sessions5\_VisualAnalogueScale2Post | 0-100 | VAS state sadness following VR task |
| I4\_Sessions5\_VisualAnalogueScale3Post | 0-100 | VAS state paranoia following VR task |
| I4\_Sessions5\_VisualAnalogueScale4Post | 0-100 | VAS state friendliness following VR task |
|   |  | *Similarity Ratings Task (SRT)* |
| I4\_Sessions5\_SRT\_TargetPos\_MEAN | average of positive target scores |  mean positive target score  |
| I4\_Sessions5\_SRT\_TargetNeg\_MEAN | average of negative target scores |  mean target score |
| I4\_Sessions5\_SRT\_Bias\_score | Mean positive target rating minus mean negative target rating (range -3 to +3) |  interpretation bias score (targets) |
|   |  | *Positive and Negative Symptoms Scale (PANSS)* |
| I4\_Sessions5\_PANSSpos6 | 1=Absent;2=Minimal;3=Mild;4=Moderate;5=Moderate-Severe;6=Severe;7=Extreme | Suspiciousness/persecution assessed by the item 6 Positive symptoms  |