**Cognitive Bias Modification for paranoia**

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| **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 |
|  |  | *Laughter Task* |
| T1\_ST\_Interruption\_X | verbatim recording of participant response | main reason given for interruption |
| T1\_ST\_Interruption\_A | 0 (nothing to do with you) -10 (completely), | Interruption has to do with YOU (participant) |
| T1\_ST\_Interruption\_B | 0-10 | Interuption has to do me or my colleague |
| T1\_ST\_Interruption\_C | 0-10 | circumstances or chance of interruotion |
| T1\_ST\_Interruption\_Certainty | 0-10 | certainty of reason X for interruption |
| T1\_ST\_Interruption\_Distress | 0-10 (a lot of distress) | distress caused by interruption |
| T1\_ST\_laughNotice | 0=N;1=Y | Notice the laughter? |
| T1\_ST\_laugh\_X | verbatim recording of participant response | main reason given for laughter |
| T1\_ST\_laugh\_A | 0-10 | main reason for laughter to do with YOU |
| T1\_ST\_laugh\_B | 0-10 | main reason for laughter to do with me or my colleague |
| T1\_ST\_laugh\_C | 0-10 |  |
| T1\_ST\_laugh\_explain | 0-10 | explanation for laughter |
| T1\_ST\_laugh\_certainty | 0-10 | certainty of explanation |
| T1\_ST\_laugh\_distress | 0-10 | distress caused by the laughter |
| T1\_Post\_ST\_Anxious | 0-100 | VAS state anxiety following laughter task |
| T1\_Post\_ST\_SadMood | 0-100 | VAS state sadness following laughter task |
| T1\_Post\_ST\_Paranoid | 0-100 | VAS state paranoia following laughter task |
| T1\_ST\_Rating\_Interuption | 0=N;1=Y | Is reason given for Interruption paranoid? |
| T1\_ST\_Rating\_Laugh | 0=N;1=Y | Is reason given for laughter paranoid? |
| T1\_ST\_RATING\_Scale\_Interruption | 0-10 | Rating of how paranoid explanation is in case of indecision |
| T1\_ST\_RATING\_Scale\_Laugh | 0-10 | Rating of how paranoid explanation is in case of indecision |
|  |  | *Visual analogue scale (VAS) administered before and after VR assessment* |
| T1\_Pre\_VR\_Anxiety | 0-100 | VAS scale of state anxiety prior to VR task |
| T1\_Pre\_VR\_Sad\_Mood | 0-100 | VAS state sadness prior to VR task |
| T1\_Pre\_VR\_Paranoia | 0-100 | VAS state paranoia prior to VR task |
| T1\_Pre\_VR\_Friendly | 0-100 | VAS state friendliness prior to VR task |
| T1\_Post\_VR\_Anxiety | 0-100 | VAS state anxiety following VR task |
| T1\_Post\_VR\_Sad\_Mood | 0-100 | VAS state sadness following VR task |
| T1\_Post\_VR\_Paranoia | 0-100 | VAS state paranoia following VR task |
| T1\_Post\_VR\_Friendly | 0-100 | VAS state friendliness following VR task |
|  |  | *Virtual Reality Environment* |
| T1\_VR\_Experience\_LabCafe | 0-100 | How much client felt they were in the lab vs. the cafe |
| T1\_VR\_Experience\_Enjoyment | 0-100 | How much client enjoyed the experience |
| T1\_VR\_Experience\_Dizzy | 0-100 | How dizzy or sick client felt |
|  |  | *State Social Paranoia Scale (SSPS)* |
| T1\_VR\_Scale1 | Do not agree (1) - Totaly Agree (5) | Hostility |
| T1\_VR\_Scae2 | Do not agree (1) - Totaly Agree (5) | Bad intentions |
| T1\_VR\_Scale3 | Do not agree (1) - Totaly Agree (5) | Distress |
| T1\_VR\_Scale4 | Do not agree (1) - Totaly Agree (5) | Stare to upset |
| T1\_VR\_Scale5 | Do not agree (1) - Totaly Agree (5) | Wanted to threat |
| T1\_VR\_Scale6 | Do not agree (1) - Totaly Agree (5) | Harm |
| T1\_VR\_Scale7 | Do not agree (1) - Totaly Agree (5) | Had it in for me |
| T1\_VR\_Scale8 | Do not agree (1) - Totaly Agree (5) | Intimidation |
| T1\_VR\_Scale9 | Do not agree (1) - Totaly Agree (5) | Isolation |
| T1\_VR\_Scale10 | Do not agree (1) - Totaly Agree (5) | Irritation |
|  |  | **Post-intervention assessments (T1)** |
|  |  | *Positive and Negative Symptoms Scale (PANSS)* |
| T1\_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 |
| Conviction\_of\_paranoid\_beliefs | 0-4 | <none> |
| Analogue\_conviction\_of\_paranoid\_be | 0-100 | <none> |
|  |  | *Similarity Ratings Task (SRT)* |
| T1\_SRT\_TargetPos\_MEAN | average of positive target scores | mean positive target score |
| T1\_SRT\_TargetNeg\_MEAN | average of negative target scores | mean target score |
| T1\_SRT\_Target\_Bias\_score | Mean positive target rating minus mean negative target rating (range -3 to +3) | interpretation bias score (targets) |
| T1\_SRT\_FoilPos\_MEAN | average of positive foil scores | mean positive foil score |
| T1\_SRT\_FoilNeg\_MEAN | average of negative foil scores | mean foil score |
| T1\_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)* |
| T1\_SST\_Bias\_score\_Paranoia | Bias score – proportion of sentences completed with paranoid meaning out of total attempted | paranoid bias score |
| T1\_SST\_Bias\_score\_NonParanoia | Bias score – proportion of sentences completed with non-paranoid meaning out of total attempted | non-paranoid bias score |
| T1\_Cognitive\_flexibility\_scale |  |  |
|  |  | *Paranoia Scale* |
| T1\_ParanoiaScale\_Total | Total score (20-100) | Paranoia Scale Total: 20 items, answered in a Likert-like scale ranging from 1 (never) to 5 (always) |
|  |  | *Green Paranoid Thoughts Scale (GPTS)* |
| T1\_GTPS\_refs | 1-80 | Ideas of social reference -16 items measured on a 5-points scale, from 1 (Not at all) to 5 (Totally) |
| T1\_GTPS\_per | 1-80 | Ideas of social persecution -16 items measured on a 5-points scale, from 1 (Not at all) to 5 (Totally) |
| T1\_GTPS\_Total | Total score (32-160) | Total score |
|  |  | *Peters Delusions Inventory (PDI)* |
| T1\_PDI\_total | 0-315 | Total PDI score |
|  |  | *Hospital Anxiety and Depression Scale (HADS)* |
| T1\_HADS\_Anxiety | 0-21 | Anxiety symptoms |
| T1\_HADS\_Depression | 0-21 | Depression symptoms |
| T1\_HADS\_Total | 0-42 | Total Score |
|  |  | **One month follow-up assessments (T2)** |
|  |  | *Similarity Ratings Task (SRT)* |
| T2\_SRT\_TargetPos\_MEAN | average of positive target scores | mean positive target score |
| T2\_SRT\_TargetNeg\_MEAN | average of negative target scores | mean target score |
| T2\_SRT\_Target\_Bias\_score | Mean positive target rating minus mean negative target rating (range -3 to +3) | interpretation bias score (targets) |
| T2\_SRT\_FoilPos\_MEAN | average of positive foil scores | mean positive foil score |
| T2\_SRT\_FoilNeg\_MEAN | average of negative foil scores | mean foil score |
| T2\_SRT\_Foil\_Bias\_score | Mean positive foil rating minus mean negative foil rating (range -3 to +3) | interpretation bias score (foils) |
|  |  | *Paranoia Scale* |
| T2\_ParanoiaScale\_Total | Total score (20-100) | Paranoia Scale Total: 20 items, answered in a Likert-like scale ranging from 1 (never) to 5 (always) |
|  |  | *Green Paranoid Thoughts Scale (GPTS)* |
| T2\_GTPS\_refs | 1-80 | Ideas of social reference -16 items measured on a 5-points scale, from 1 (Not at all) to 5 (Totally) |
| T2\_GTPS\_per | 1-80 | Ideas of social persecution -16 items measured on a 5-points scale, from 1 (Not at all) to 5 (Totally) |
| T2\_GTPS\_Total | Total score (32-160) | Total score |
|  |  | *Peters Delusions Inventory (PDI)* |
| T2\_PDI\_total | 0-315 | Total PDI score |
| T2\_PDI\_Conviction | 0-105 | Convinction scale |
| T2\_PDI\_Preoccupation | 0-105 | Preoccupation scale |
| T2\_PDI\_Distress | 0-105 | Distress scale |
|  |  | *Hospital Anxiety and Depression Scale (HADS)* |
| T2\_HADS\_Anxiety | 0-21 | Anxiety symptoms |
| T2\_HADS\_Depression | 0-21 | Depression symptoms |
| T2\_HADS\_Total | 0-42 | Total Score |
|  |  | *Positive and Negative Symptoms Scale (PANSS)* |
| T2\_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 |
|  |  | **Three month follow-up assessments (T3)** |
|  |  | *Positive and Negative Symptoms Scale (PANSS)* |
| T3\_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)* |
| T3\_SRT\_TargetPos\_MEAN | average of positive target scores | mean positive target score |
| T3\_SRT\_TargetNeg\_MEAN | average of negative target scores | mean target score |
| T3\_SRT\_Target\_Bias\_score | Mean positive target rating minus mean negative target rating (range -3 to +3) | interpretation bias score (targets) |
| T3\_SRT\_FoilPos\_MEAN | average of positive foil scores | mean positive foil score |
| T3\_SRT\_FoilNeg\_MEAN | average of negative foil scores | mean foil score |
| T3\_SRT\_Foil\_Bias\_score | Mean positive foil rating minus mean negative foil rating (range -3 to +3) | interpretation bias score (foils) |
|  |  | *Paranoia Scale* |
| T3\_ParanoiaScale\_Total | Total score (20-100) | Paranoia Scale Total: 20 items, answered in a Likert-like scale ranging from 1 (never) to 5 (always) |
|  |  | *Green Paranoid Thoughts Scale (GPTS)* |
| T3\_GTPS\_refs | 1-80 | Ideas of social reference -16 items measured on a 5-points scale, from 1 (Not at all) to 5 (Totally) |
| T3\_GTPS\_per | 1-80 | Ideas of social persecution -16 items measured on a 5-points scale, from 1 (Not at all) to 5 (Totally) |
| T3\_GTPS\_Total | Total score (32-160) | Total score |
|  |  | *Peters Delusions Inventory (PDI)* |
| T3\_PDI\_total | 0-315 | Total PDI score |
| T3\_PDI\_Conviction | 0-105 | Convinction scale |
| T3\_PDI\_Preoccupation | 0-105 | Preoccupation scale |
| T3\_PDI\_Distress | 0-105 | Distress scale |
|  |  | *Hospital Anxiety and Depression Scale (HADS)* |
| T3\_HADS\_Anxiety | 0-21 | Anxiety symptoms |
| T3\_HADS\_Depression | 0-21 | Depression symptoms |
| T3\_HADS\_Total | 0-42 | Total Score |