

UK Biobank

Social interactions and focus web questionnaire

Version 1.4

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This document details the rationale, content and procedure for administration of UK Biobank's social interactions and focus web-based questionnaire.

It also offers general guidance on the design, conduct, and reporting of neurodiversity research, which may be helpful for researchers who are new to this field. UK Biobank acknowledges the valuable contributions of the Participant Advisory Group and domain experts in shaping these recommendations.

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1. Introduction – scientific rationale

The prevalence of neurodivergent traits in older adults is not well understood, nor is the impact on overall health and wellbeing. This is likely because, historically, neurodevelopmental conditions such as attention-deficit/hyperactivity disorder (ADHD) and autism have been predominantly diagnosed during childhood, despite the fact that their characteristics can manifest and often persist into adulthood¹. Recent research suggests that conditions such as autism are underdiagnosed in older adult populations², with evidence suggesting that nine out of ten autistic adults aged over 50 remain either undiagnosed or misdiagnosed with other conditions³.

UK Biobank provides a unique opportunity to examine the distribution of neurodivergent traits in a large population of older adults, via the social interactions and focus questionnaire. Gathering comprehensive data in these domains, alongside existing genetic, health, and lifestyle information in UK Biobank, will support research to enhance understanding of how these traits relate to health, wellbeing, and daily functioning in the general population.

2. List of contributors

- Philip Asherson PhD, King's College London, Institute of Psychiatry, Psychology and Neuroscience, Autism Research Centre
- Simon Baron-Cohen PhD, University of Cambridge, Department of Psychiatry

- Alysia E Doyle PhD, Massachusetts General Hospital, Harvard Medical School
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3. Content

The UK Biobank social interactions and focus questionnaire has been designed to capture key neurodevelopmental traits among adults.

ADHD symptoms

Self-report ADHD checklists show good internal consistency⁴ and are widely used in epidemiological, neuroscientific, and genetic research and clinical trials⁵. Such measures overlap in their content, as they query the nine symptoms of inattention and nine symptoms of hyperactive/impulsive behaviour that comprise DSM-IV and DSM-5 ADHD diagnostic criteria. Items are typically administered in a Likert-scale format. This yields a continuous measure of severity as well as a means of rating the presence or absence of each DSM symptom based on the frequency or severity of the problem. The majority of these questionnaires target the pathological end of ADHD symptoms (e.g. inattention rather than attention more broadly). For this questionnaire, minor wording changes were made to adapt items from the Strengths and Weaknesses of the ADHD Symptoms and Normal Behavior Scale (SWAN) for use with adults. The original SWAN has been developed by James Swanson PhD to be advantageous for genetic and population-based studies, as it uses a Likert scale that spans the better-than-average to worse-than-average ranges, while maintaining good psychometric properties^{6,7}. As a result, the SWAN captures a wider spectrum of attention and behavioural control than clinically focused questionnaires. In the social interactions and focus questionnaire, each Adult-SWAN item is rated on a 7-point scale from 'far below average' to 'far above average.' The measure can also be truncated to approximate clinical questionnaires by collapsing the better-than-average side of the ratings into a single item reflecting the absence of a problem. Its items can further be dichotomized to reflect DSM criteria by coding a symptom as present if either of the two most impaired ratings are endorsed.

Within the social interactions and focus questionnaire, the Adult-SWAN items are coded as: 01=Far below average, 02=Below average, 03=Slightly below average, 04=Average, 05=Slightly above average, 06=Above average, 07=Far above average. Individuals

utilising these data may wish to recode these items to match the standard coding for the SWAN as follows: Far Below Average = 3, Below Average = 2, Somewhat Below Average = 1, Average = 0, Somewhat Above Average = -1, Above Average = -2, and Far Above Average = -3.

ADHD age of onset and course

Age of onset of ADHD is a topic of interest, as recent findings indicate the presence of a later onset of ADHD in a subset of cases⁸, There is also some evidence that there may be different genetic and environmental determinants of early vs late-onset symptoms⁹. This questionnaire asks whether inattention and hyperactivity/impulsivity symptoms were present at different stages of life and whether they had a fluctuating or persistent course.

ADHD diagnosis, treatment, and impairment in daily life

This questionnaire asks questions about a prior diagnosis of ADHD, treatment history, and impairment in daily life. To measure impairment, items have been selected from Russell Barkley's ADHD impairment scale which has been validated in research on ADHD¹⁰⁻¹².

Irritability

Symptoms of irritability and emotional dysregulation (ED) are commonly experienced by individuals with ADHD as well as other neuropsychiatric conditions. Because such symptoms are an independent source of impairment, they are important targets for assessment in clinical practice^{9,13,14}. For example, irritability is a strong predictor for the development of depression in ADHD¹⁵. To measure this construct, the self-rated version of the Affective Reactivity Index (ARI-S)¹⁶ has been used which shows good test-retest reliability (ICC=0.80) and construct validity¹⁷. The scale measures issues such as being easily annoyed or losing your temper and is distinct from aggression or antisocial behaviour. The six items are rated 0 to 2 based on frequency. Given that emotional dysregulation may be more cyclical than ADHD symptoms, questions focus on the past 6 months. The ARI-S also includes an impairment item related to irritability.

Autistic traits

Autistic traits have been measured using the Autism Spectrum Quotient (AQ)¹⁸ which is a widely used self-administered instrument designed to measure autistic traits in adults.

Developed by Baron-Cohen and colleagues (2001), the AQ consists of 50 questions that assess five different domains: social skills, attention switching, attention to detail, communication, and imagination. The questionnaire has been extensively used in both clinical settings and large-scale population studies. While not a diagnostic tool, the AQ has been used across research settings for quantifying autistic traits along a continuous spectrum in the general population. A short version of the AQ is recommended in the NICE Guidelines for consideration when screening for autism in adults¹⁹. In addition, sensory perception has been measured using the 10-item version²⁰ of the Sensory Perception Quotient (SPQ). The SPQ²¹ is a self-report questionnaire developed to measure sensory perception in adults. The SPQ evaluates individual differences in basic sensory sensitivity across multiple modalities including vision, hearing, touch, smell, and taste.

A detailed guide to the sources of all questions used in the questionnaire is included below.

Section	Question nos.	Source/tool	Notes about source/tool
Attention and activity levels	AAL1A-AAL1I	ADHD trait questions, devised by research team	Based upon the SWAN Rating scale for ADHD ⁶ (adapted for adult self-report in the UK Biobank study population)
Attention and activity levels	AAL2-AAL3	Onset of ADHD trait questions, devised by research team	Devised by Asherson P and Doyle A
Attention and activity levels	AAL4A-AAL4F	Functional impairment questions, devised by research team	Based upon Barkley Functional Impairment Scale (BFIS)
Attention and activity levels	AAL5A-AAL5I	ADHD trait questions, devised by research team	Based upon the SWAN Rating scale for ADHD ⁷ (adapted for adult self-report in the UK Biobank study population)
Attention and activity levels	AAL6-AAL7	Onset of ADHD trait questions, devised by research team	Devised by Asherson P and Doyle A

Attention and activity levels	AAL8A-AAL8F	Functional impairment questions, devised by research team	Based upon Barkley Functional Impairment Scale (BFIS)
Attention and activity levels	AAL9-AAL14	Diagnosis and treatment questions, devised by research team	Devised by Asherson P and Doyle A
Social interactions	ASQ1-ASQ50	Autism Spectrum Quotient	Baron-Cohen S et al ¹⁸
Social interactions	FI1A-FI1F	Functional impairment questions, devised by research team	Based upon Barkley Functional Impairment Scale (BFIS)
Social interactions	ASD1-ASD2	Diagnosis questions, devised by research team	Based upon the DSM-5 and ICD-11 criteria for autism
Irritable feelings	ARI1-ARI7	ARI-S	Stringaris A et al ¹⁶
Irritable feelings	ARI8-ARI9	Onset questions, devised by research team	Devised by Asherson P and Doyle A
Irritable feelings	FI3a-FI3f	Functional impairment questions, devised by research team	Based upon Barkley Functional Impairment Scale (BFIS)
Irritable feelings	IR1-IR4	Treatment questions, devised by research team	Devised by Asherson P and Doyle A
Your senses	SPQ1-SPQ10	Sensory Perception Quotient-10 (SPQ-10)	Greenberg DM et al ²⁰
End page	CM1	Comments section, used as standard in all UK Biobank questionnaires	Free text box included for the participant to elaborate on their answers and to increase participants' confidence in the questionnaire.

4. Piloting

Participants with an email address and who were willing to be re-contacted (approximately 330,000) were invited to complete the questionnaire. Prior to sending it to all of these participants, UK Biobank piloted this questionnaire with 15,417

participants to ensure that the online platform and procedures worked well and that the questionnaire was acceptable in terms of content and length. No major errors or flaws with the questionnaire system or contents were reported.

5. Administration

The questionnaire administration process for those UK Biobank participants with an email address was as follows:

- an initial invitation email (which included a hyperlink to their personalised questionnaire);
- a reminder email to non-responders sent two weeks after the initial invitation;
- a reminder email sent to partial responders (i.e. those who had only completed part of the questionnaire) two weeks after they started the questionnaire;
- a final invitation sent to non-responders two months after the initial invitation.

Participants for whom UK Biobank did not have an email address were encouraged via information contained in the annual newsletter and on the UK Biobank website to complete the online questionnaire by logging on directly to the participant website.

The median time for participants to fully complete the questionnaire was 16.1 minutes. Ninety percent of participants fully completed the questionnaire within 35 minutes.

Additional email invitations are sent to any participants who update their email address and have not yet completed the questionnaire. We therefore anticipate that data will continue to accrue for a small number of participants.

Please note that UK Biobank has identified a small number of cases where participants failed the identity check at the beginning of the questionnaire. These include cases where participants who share an email address may have completed their partner's questionnaire and cases where the date of birth provided did not match UK Biobank record for that participant. Together these amounted to 0.2% of all respondents and this data has been excluded.

6. Special considerations for the design, conduct and reporting of neurodiversity research

Research in neurodiversity is important, but it can also be a sensitive topic for some people. We therefore thought it might be useful to provide general guidance on the design, conduct and reporting of research in this area, particularly for researchers who may not be domain experts.

To support this aim, the UK Biobank Participant Advisory Group (PAG) and topic experts were consulted prior to the release of these questionnaire data. With their guidance, we would like to recommend the following:

- Researchers consider involving members of the neurodivergent community in the design, conduct and dissemination of their research, especially if the research findings in this area could have wide-ranging social and societal implications
- Areas of research that would be welcomed by the community include:
 - Studies supporting more accurate and timely diagnoses of neurodivergent conditions
 - Research aiming to improve understanding, support, and inclusion, rather than attempting to “fix” or eliminate neurodivergence, as many people consider their neurodivergence an important part of their identity
 - Efforts that tackle stigma and labelling of neurodivergent people, for example by improving understanding of neurodiversity
 - Studies focussing on those with associated conditions, such as depression, and how best to support neurodivergent people

7. References

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Appendix: Questions and format of the questionnaire

Q.ID	Field ID	Stem	Question identical to previous questionnaire	Question similar to previous questionnaire	Responses
ADHD					
AAL1_BLOCK		People differ in their abilities to focus their attention and organise themselves. For each item listed below, please consider how you compare to other people of the same age and select the rating which best characterises your usual behaviour during your adult life.			
AAL1A	32226	Ability to give close attention to detail and to avoid careless mistakes in your work or other activities.			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average 06=Above average 07=Far above average DA=Prefer not to answer
AAL1B	32227	Ability to sustain attention on tasks and leisure activities.			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average

					06=Above average 07=Far above average DA=Prefer not to answer
AAL1C	32228	Ability to listen when spoken to directly.			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average 06=Above average 07=Far above average DA=Prefer not to answer
AAL1D	32229	Ability to follow through on instructions and finish work or chores.			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average 06=Above average 07=Far above average DA=Prefer not to answer
AAL1E	32230	Ability to organise tasks and activities.			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average 06=Above average 07=Far above average DA=Prefer not to answer
AAL1F	32231	Ability to engage in tasks that require sustained mental effort.			<i>[Select one from]</i> 01=Far below average 02=Below average

					03=Slightly below average 04=Average 05=Slightly above average 06=Above average 07=Far above average DA=Prefer not to answer
AAL1G	32232	Ability to keep track of things (avoid losing things) necessary for tasks or activities.			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average 06=Above average 07=Far above average DA=Prefer not to answer
AAL1H	32233	Ability to ignore external distractions (such as sounds or nearby activities).			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average 06=Above average 07=Far above average DA=Prefer not to answer
AAL1I	32234	Ability to remember appointments and daily tasks.			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average 06=Above average 07=Far above average DA=Prefer not to answer

AAL2_INTRO		We would now like to ask you more about the sorts of issues with inattention, distractibility and disorganisation explored on the previous page. When completing the following question(s), please think about all stages of your life so far, including your childhood.			
AAL2	32235	If you have ever had problems with inattention/distractibility and disorganisation at any stage in your life, when have these occurred? (Please select all that apply, to the best of your recollection.)			<i>[Select all that apply. I have never had problems with these issues (00) AND Prefer not to answer (DA) AND Do not know/cannot remember (DK) are exclusive. If AAL2=I have never had problems with these issues (00) OR Do not know/cannot remember (DK) OR Prefer not to answer (DA), no other selection can be made.]</i> 00=I have never had problems with these issues 01=When I was a child (during the period up to age 12) 02=When I was an adolescent (aged between 13 and 18) 03=When I was a young adult (aged between 19 and 29) 04=When I was an adult (aged between 30 and 65) 05=When I was older than 65 DK=Do not know/cannot remember DA=Prefer not to answer

AAL2B	32236	Are you currently having problems with inattention/distractibility and disorganisation?			<i>[Select one from]</i> 01=Yes 00=No DK=Do not know/cannot remember DA=Prefer not to answer
AAL3	32237	Have you had a break in these problems with inattention/distractibility and disorganisation for a year or more, after which they returned?			<i>[Select one from]</i> 00=No, these issues have been continuous when I experienced them 01=Yes, I had a break in such problems for at least a year, after which they returned DK=Do not know/cannot remember DA=Prefer not to answer
STEM_AAL4		If inattention/distractibility and disorganisation have caused differing levels of problems for you at different points in your life, please respond to the following questions based on the time period when they interfered most with your ability to function. How often did/do these problems with inattention/distractibility and disorganisation interfere with your ability to function:			
AAL4A	32238	in your work or education?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always

					DK=Do not know/cannot remember DA=Prefer not to answer
AAL4B	32239	in your relationships or family life?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer
AAL4C	32240	in your social contacts outside of the family?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer
AAL4D	32241	in your daily tasks (i.e. life skills)?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer
AAL4E	32242	in your spare time, hobbies and leisure activities?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer

AAL4F	32243	in terms of your self-esteem, confidence and self-image?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer
AAL5_BLOCK		People also differ in their abilities to control their activity and inhibit their impulses. For each item listed below, please consider how you compare to other people of the same age and select the rating which best characterises your usual behaviour during your adult life.			
AAL5A	32244	Ability to control fidgeting or squirming; ability to sit still.			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average 06=Above average 07=Far above average DA=Prefer not to answer
AAL5B	32245	Ability to stay seated in situations when this is expected.			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average 06=Above average 07=Far above average

					DA=Prefer not to answer
AAL5C	32246	Ability to control feelings of restlessness or activity levels.			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average 06=Above average 07=Far above average DA=Prefer not to answer
AAL5D	32247	Ability to engage in activities quietly (i.e. to keep noise levels reasonable).			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average 06=Above average 07=Far above average DA=Prefer not to answer
AAL5E	32248	Ability to settle down and rest (i.e. to control constant activity).			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average 06=Above average 07=Far above average DA=Prefer not to answer
AAL5F	32249	Ability to control excessive talking.			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average

					06=Above average 07=Far above average DA=Prefer not to answer
AAL5G	32250	Ability to think before you speak and/or avoid blurting out answers			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average 06=Above average 07=Far above average DA=Prefer not to answer
AAL5H	32251	Ability to stand in line and/or wait for your turn.			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average 06=Above average 07=Far above average DA=Prefer not to answer
AAL5I	32252	Ability to stop yourself from barging into other people's conversations or activities (i.e. to think before you act).			<i>[Select one from]</i> 01=Far below average 02=Below average 03=Slightly below average 04=Average 05=Slightly above average 06=Above average 07=Far above average DA=Prefer not to answer
AAL6_INTRO		We would now like to ask you more about the sorts of issues with hyperactivity, physical restlessness			

		and impulsive behaviour explored on the previous page. When completing the following question(s), please think about all stages of your life so far, including your childhood.			
AAL6	32253	If you have ever had problems with hyperactivity, feelings of physical restlessness or impulsive behaviour at any stage in your life, when have these occurred? (Please select all that apply, to the best of your recollection.)			<i>[Select all that apply. I have never had problems with these issues (00) AND Prefer not to answer (DA) AND Do not know/cannot remember (DK) are exclusive. If AAL6=I have never had problems with these issues (00) OR Do not know/cannot remember (DK) OR Prefer not to answer (DA), no other selection can be made.]</i> 00=I have never had problems with these issues 01=When I was a child (during the period up to age 12) 02=When I was an adolescent (aged between 13 and 18) 03=When I was a young adult (aged between 19 and 29) 04=When I was an adult (aged between 30 and 65) 05= When I was older than 65 DK=Do not know/cannot remember DA=Prefer not to answer
AAL6B	32254	Are you currently having problems with hyperactivity, restlessness and/or impulsivity?			<i>[Select one from]</i> 01=Yes

					00=No DK=Do not know/cannot remember DA=Prefer not to answer
AAL7	32255	Have you had a break in these problems with hyperactivity, restlessness and/or impulsivity for a year or more, after which they returned?			<i>[Select one from]</i> 00=No, these issues have been continuous when I experienced them 01=Yes, I had a break in such problems for at least a year, after which they returned DK=Do not know/cannot remember DA=Prefer not to answer
STEM_AAL8		If hyperactivity, restlessness and/or impulsivity have caused differing levels of problems for you at different points in your life, please respond to the following questions based on the time period when they interfered most with your ability to function. How often did/do these problems with hyperactivity, restlessness and/or impulsivity interfere with your ability to function:			
AAL8A	32256	in your work or education?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer

AAL8B	32257	in your relationships or family life?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer
AAL8C	32258	in your social contacts outside of the family?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer
AAL8D	32259	in your daily tasks (i.e. life skills)?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer
AAL8E	32260	in your spare time, hobbies and leisure activities?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer
AAL8F	32261	in terms of your self-esteem, confidence and self-image?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often

					03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer
AAL9	32262	Has a medical or health professional ever diagnosed you with ADHD (or ADD or hyperkinetic disorder)?			<i>[Select one from]</i> 01=Yes 02=No, but I think I might have ADHD based on what I know about it 00=No DK=Do not know/cannot remember DA=Prefer not to answer
AAL10	32263	At what age did you receive this diagnosis?			<i>[Text box allowing integer values and it allows selection of an integer between 1 and 99. If a participant provides input <1 (0) and tries to proceed, an error highlighted in yellow appears, asking the participant to correct an answer. The following text needs to be displayed: "This number is too low." Do not know/cannot remember (DK) and Prefer not to answer (DA) are exclusive. If AAL10=Do not know (DK) OR Prefer not to answer (DA), no other selection can be made.]</i> TextBox2 & "years old" OR DK=Do not know/cannot remember DA=Prefer not to answer
AAL11	32264	What type of treatment have you received or used for inattention/distractibility or hyperactivity/			[Select all that apply. I have not received or used any treatment (00) and Do not know/cannot remember (DK) and Prefer not to answer (DA) are exclusive. If AAL11=I have not

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AAL14	32267	If not, at what age did you stop treatment for inattention/ distractibility or hyperactivity/ impulsivity?			[Text box allowing integer values and it allows selection of an integer between 1 and 99. If a participant provides input <1 (0) and tries to proceed, an error highlighted in yellow appears, asking the participant to correct an answer. The following text needs to be displayed: "This number is too low." Do not know (DK) and Prefer not to answer (DA) are exclusive. If AAL14=Do not know (DK) OR Prefer not to answer (DA), no other selection can be made. If a participant provides lower input for AAL14 than AAL12 and tries to proceed, an error highlighted in yellow appears, asking the participant to correct an answer. The following text needs to be displayed: "Age at treatment end cannot be before age at treatment start."] TextBox4 & "years old" OR know/cannot remember DA=Prefer not to answer DK=Do not know/cannot remember
Autism Spectrum Quotient					
ASQINTRO		The following questions relate to your usual behaviour and feelings. Your answers should indicate the most accurate reply for how you feel most of the time. Please answer all the questions.			

ASQ1	32268	I prefer to do things with others rather than on my own.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ2	32269	I prefer to do things the same way over and over again.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ3	32270	If I try to imagine something, I find it very easy to create a picture in my mind.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ4	32271	I frequently get so strongly absorbed in one thing that I lose sight of other things.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ5	32272	I often notice small sounds when others do not.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer

ASQ6	32273	I usually notice car number plates or similar strings of information.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ7	32274	Other people frequently tell me that what I've said is impolite, even though I think it is polite.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ8	32275	When I'm reading a story, I can easily imagine what the characters might look like.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ9	32276	I am fascinated by dates.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ10	32277	In a social group, I can easily keep track of several different people's conversations.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ11	32278	I find social situations easy.			<i>[Select one from]</i> 01=Definitely agree

					02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ12	32279	I tend to notice details that others do not.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ13	32280	I would rather go to a library than a party.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ14	32281	I find making up stories easy.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ15	32282	I find myself drawn more strongly to people than to things.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ16	32283	I tend to have very strong interests which I get upset about if I can't pursue.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree

					04=Definitely disagree DA=Prefer not to answer
ASQ17	32284	I enjoy social chit-chat.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ18	32285	When I talk, it isn't always easy for others to get a word in edgeways.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ19	32286	I am fascinated by numbers.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ20	32287	When I'm reading a story, I find it difficult to work out the characters' intentions.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ21	32288	I don't particularly enjoy reading fiction.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree

					DA=Prefer not to answer
ASQ22	32289	I find it hard to make new friends.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ23	32290	I notice patterns in things all the time.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ24	32291	I would rather go to the theatre than a museum.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ25	32292	It does not upset me if my daily routine is disturbed.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ26	32293	I frequently find that I don't know how to keep a conversation going.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer

ASQ27	32294	I find it easy to 'read between the lines' when someone is talking to me.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ28	32295	I usually concentrate more on the whole picture, rather than the small details.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ29	32296	I am not very good at remembering phone numbers.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ30	32297	I don't usually notice small changes in a situation, or a person's appearance.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ31	32298	I know how to tell if someone listening to me is getting bored.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer

ASQ32	32299	I find it easy to do more than one thing at once.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ33	32300	When I talk on the phone, I'm not sure when it's my turn to speak.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ34	32301	I enjoy doing things spontaneously.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ35	32302	I am often the last to understand the point of a joke.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ36	32303	I find it easy to work out what someone is thinking or feeling just by looking at their face.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ37	32304	If there is an interruption, I can switch back to what I was doing very quickly.			<i>[Select one from]</i> 01=Definitely agree

					02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ38	32305	I am good at social chit-chat.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ39	32306	People often tell me that I keep going on and on about the same thing.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ40	32307	When I was young, I used to enjoy playing games involving pretending with other children.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ41	32308	I like to collect information about categories of things (e.g. types of car, types of bird, types of train, types of plant, etc.).			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ42	32309	I find it difficult to imagine what it would be like to be someone else.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree

					04=Definitely disagree DA=Prefer not to answer
ASQ43	32310	I like to plan any activities I participate in carefully.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ44	32311	I enjoy social occasions.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ45	32312	I find it difficult to work out people's intentions.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ46	32313	New situations make me anxious.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ47	32314	I enjoy meeting new people.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree

					DA=Prefer not to answer
ASQ48	32315	I am a good diplomat.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ49	32316	I am not very good at remembering people's date of birth.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
ASQ50	32317	I find it very easy to play games with children that involve pretending.			<i>[Select one from]</i> 01=Definitely agree 02=Slightly agree 03=Slightly disagree 04=Definitely disagree DA=Prefer not to answer
STEM_FI1		Thinking about the issues you have reported in the previous questions, how often do you experience significant problems arising from these:			
FI1a	32318	in your work or education?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DA=Prefer not to answer

FI1b	32319	in your relationships or family life?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DA=Prefer not to answer
FI1c	32320	in your social contacts outside of the family?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DA=Prefer not to answer
FI1d	32321	in your daily tasks (i.e. life skills)?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DA=Prefer not to answer
FI1e	32322	in your spare time, hobbies and leisure activities?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DA=Prefer not to answer
FI1f	32323	in terms of your self-esteem, confidence and self-image?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DA=Prefer not to answer

ASD1	32324	Has a medical or other health professional ever diagnosed you with autism?			<i>[Select one from]</i> 01=Yes 02=No, but I think I might have autism based on what I know about it 00=No DA=Prefer not to answer
ASD2	32325	At what age did you receive this diagnosis?			<i>[Text box allowing integer values and it allows selection of an integer between 1 and 99. If a participant provides input <1 (0) and tries to proceed, an error highlighted in yellow appears, asking the participant to correct an answer. The following text needs to be displayed: "This number is too low." Do not know (DK) and Prefer not to answer (DA) are exclusive. If ASD2=Do not know (DK) OR Prefer not to answer (DA), no other selection can be made.]</i> TextBox1 & "years old" OR DK=Do not know DA=Prefer not to answer
Emotional dysregulation: ARI-S					
ARIINTRO		In the section below, we would like to ask you about periods of time when you may have had persistent irritable feelings and how they impacted on your life.			
BLOCKARI		In the last six months and compared to others of the same age, how well does each of the following			

		statements describe your behaviour/feelings? Please try to answer all questions.			
ARI1	32326	I am easily annoyed by others.			<i>[Select one from]</i> 01=Not true 02=Somewhat true 03=Certainly true DA=Prefer not to answer
ARI2	32327	I often lose my temper.			<i>[Select one from]</i> 01=Not true 02=Somewhat true 03=Certainly true DA=Prefer not to answer
ARI3	32328	I stay angry for a long time.			<i>[Select one from]</i> 01=Not true 02=Somewhat true 03=Certainly true DA=Prefer not to answer
ARI4	32329	I am angry most of the time.			<i>[Select one from]</i> 01=Not true 02=Somewhat true 03=Certainly true DA=Prefer not to answer
ARI5	32330	I get angry frequently.			<i>[Select one from]</i> 01=Not true 02=Somewhat true 03=Certainly true DA=Prefer not to answer
ARI6	32331	I lose my temper easily.			<i>[Select one from]</i> 01=Not true 02=Somewhat true 03=Certainly true DA=Prefer not to answer

ARI7	32332	Overall my irritability causes me problems.			<i>[Select one from]</i> 01=Not true 02=Somewhat true 03=Certainly true DA=Prefer not to answer
ARI8	32333	When did these feelings of irritability start ?			<i>Select one from]</i> 01=When I was a child (during the period up to age 12) 02=When I was an adolescent (aged between 13 and 18) 03=When I was a young adult (aged between 19 and 29) 04=When I was an adult (aged between 30 and 65) DA=Prefer not to answer
ARI9	32334	When did these feelings of irritability stop ?			<i>[Select one from]</i> 01=When I was a child (during the period up to age 12) 02=When I was an adolescent (aged between 13 and 18) 03=When I was a young adult (aged between 19 and 29) 04=When I was an adult (aged between 30 and 65) 05=When I was older than 65 06=I am still having difficulty with this DA=Prefer not to answer <i>[If a participant provides ARI9 input < than ARI8 and tries to proceed, an error highlighted in yellow appears, asking the participant to correct an answer. The following text needs to be displayed: "Feelings stopped cannot be before feelings started."]</i>

STEM_FI3		If irritability has caused differing levels of problems for you at different points in your life, please respond to the following questions based on the time period when they interfered most with your ability to function. During the period of time when these problems with irritability were/are occurring, how often did/do you experience significant problems arising from these:			
FI3a	32335	in your work or education?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer
FI3b	32336	in your relationships or family life?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer
FI3c	32337	in your social contacts outside of the family?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer

FI3d	32338	in your daily tasks (i.e. life skills)?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer
FI3e	32339	in your spare time, hobbies and leisure activities?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer
FI3f	32340	in terms of your self-esteem, confidence and self-image?			<i>[Select one from]</i> 00=Never or rarely 01=Sometimes 02=Often 03=Very often or always DK=Do not know/cannot remember DA=Prefer not to answer
IR1	32341	What type of treatment have you received or used for irritability? Please select all that apply.			<i>[Select all that apply. I have not received or used any treatment for irritability (00) AND Do not know/cannot remember (DK) AND Prefer not to answer (DA) are exclusive. If IR1=I have not received or used any treatment for irritability (00) OR Do not know/cannot remember (DK) OR Prefer not to answer (DA), no other selection can be made.]</i> 00=I have not received or used any treatment for irritability 01=Medication 02=Cognitive behavioural therapy/talking therapy

					03=Other strategies (e.g. mindfulness, herbal remedies) DK=Do not know/cannot remember DA=Prefer not to answer
IR2	32342	At what age did you start treatment for irritability?			<i>[Text box allowing integer values and it allows selection of an integer between 1 and 99. If a participant provides input <1 (0) and tries to proceed, an error highlighted in yellow appears, asking the participant to correct an answer. The following text needs to be displayed: "This number is too low." Do not know/cannot remember (DK) and Prefer not to answer (DA) are exclusive. If IR2=Do not know/cannot remember (DK) OR Prefer not to answer (DA), no other selection can be made.]</i> TextBox1 & "years old" OR DK=Do not know/cannot remember DA=Prefer not to answer
IR3	32343	Are you still being treated for irritability?			<i>[Select one from]</i> 01=Yes 02=No DA=Prefer not to answer
IR4	32344	If not, at what age did you stop treatment for irritability?			<i>[Text box allowing integer values and it allows selection of an integer between 1 and 99. If a participant provides input <1 (0) and tries to proceed, an error highlighted in yellow appears,</i>

					<i>asking the participant to correct an answer. The following text needs to be displayed: "This number is too low." Do not know/cannot remember (DK) and Prefer not to answer (DA) are exclusive. If IR4=Do not know/cannot remember (DK) OR Prefer not to answer (DA), no other selection can be made. If a participant provides lower input for IR4 than IR2 and tries to proceed, an error highlighted in yellow appears, asking the participant to correct an answer. The following text needs to be displayed: "Age at treatment end cannot be before age at treatment start."]</i> TextBox2 & "years old" OR not know/cannot remember DA=Prefer not to answer DK=Do
SPQINTRO		We want to know more about how you experience all of your senses. Please answer all of the questions.			
SPQ1	32345	I would be able to distinguish different people by their smell.			<i>[Select one from]</i> 01=Strongly agree 02= Agree 03=Disagree 04=Strongly disagree DA=Prefer not to answer
SPQ2	32346	I would be able to taste the difference between two brands of salty potato crisps.			<i>[Select one from]</i> 01=Strongly agree 02= Agree 03=Disagree 04=Strongly disagree

					DA=Prefer not to answer
SPQ3	32347	I can hear electricity humming in the walls.			<i>[Select one from]</i> 01=Strongly agree 02= Agree 03=Disagree 04=Strongly disagree DA=Prefer not to answer
SPQ4	32348	I would be able to notice a tiny change (for example, 1 degree) in the temperature of the weather.			<i>[Select one from]</i> 01=Strongly agree 02= Agree 03=Disagree 04=Strongly disagree DA=Prefer not to answer
SPQ5	32349	I would be able to taste the difference between apparently identical sweets.			<i>[Select one from]</i> 01=Strongly agree 02= Agree 03=Disagree 04=Strongly disagree DA=Prefer not to answer
SPQ6	32350	I would be able to tell the weight difference between two different coin sizes on the palm of my hand, if my eyes were closed.			<i>[Select one from]</i> 01=Strongly agree 02= Agree 03=Disagree 04=Strongly disagree DA=Prefer not to answer
SPQ7	32351	I would be able to smell the smallest gas leak from anywhere in the house.			<i>[Select one from]</i> 01=Strongly agree 02= Agree 03=Disagree 04=Strongly disagree DA=Prefer not to answer

SPQ8	32352	I would be the first to hear if there was a fly in the room.			<i>[Select one from]</i> 01=Strongly agree 02= Agree 03=Disagree 04=Strongly disagree DA=Prefer not to answer
SPQ9	32353	If I look at a pile of blue sweaters in a shop that are meant to be identical, I would be able to see differences between them.			<i>[Select one from]</i> 01=Strongly agree 02= Agree 03=Disagree 04=Strongly disagree DA=Prefer not to answer
SPQ10	32354	I can see dust particles in the air in most environments.			<i>[Select one from]</i> 01=Strongly agree 02= Agree 03=Disagree 04=Strongly disagree DA=Prefer not to answer