

Table S1. Disorders assessed by the modified SCID-5-RV utilised by the Bugs and Brains study

Disorder	Duration assessed at interview	Eligibility Status
<u>Bipolar and related disorders</u>		
Bipolar I Disorder	Lifetime and past month (current)	} X Exclusion (all groups)
Bipolar II Disorder	Lifetime and past month (current)	
Cyclothymic Disorder	Past 2 years (current)	
Other Specified Bipolar Disorder	Lifetime and past month (current)	
Bipolar Disorder Due to Another Medical Condition	Lifetime and past month (current)	
Substance/Medication-Induced Bipolar Disorder	Lifetime and past month (current)	
<u>Depressive disorders</u>		
Major Depressive Disorder	Lifetime and past month (current)	} ✓ Current = Inclusion (MH and Comorbid) - Lifetime = Neither inclusion nor exclusion (MH and Comorbid) X Lifetime = Exclusion (Controls and IBS)
Persistent Depressive Disorder	Lifetime and past two years (current)	
Premenstrual Dysphoric Disorder	Past 12 months (current)	} - Lifetime = Neither inclusion nor exclusion
Other Specified Depressive Disorder	Lifetime and past month (current)	} - Lifetime = Neither inclusion nor exclusion (MH and Comorbid) X Lifetime = Exclusion (Controls and IBS)
Depressive Disorder Due to Another Medical Condition	Lifetime and past month (current)	
Substance/Medication-Induced Depressive Disorder	Lifetime and past month (current)	
<u>Schizophrenia and other psychotic disorders</u>		
Clinical psychotic symptoms	Lifetime and current	} X Exclusion (all groups)
<u>Substance use disorders</u>		
Alcohol	Past 12 months (current)	} X Exclusion (all groups)

Disorder	Duration assessed at interview	Eligibility Status
Sedative-Hypnotic-Anxiolytic	Past 12 months (current)	}
Cannabis	Past 12 months (current)	
Stimulants/Cocaine	Past 12 months (current)	
Opioids	Past 12 months (current)	
Phencyclidine (PCP)	Past 12 months (current)	
Other Hallucinogens	Past 12 months (current)	
Inhalants	Past 12 months (current)	
Other/Unknown	Past 12 months (current)	
<u>Anxiety disorders</u>		
Panic Disorder	Lifetime and past month (current)	} ✓ Current = Inclusion (MH and Comorbid)
Agoraphobia	Lifetime and past six months (current)	
Social Anxiety Disorder	Lifetime and past six months (current)	
Generalized Anxiety Disorder	Lifetime and past six months (current)	
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Specific Phobia	Lifetime and past six months (current)	} - Lifetime = Neither inclusion nor exclusion (MH and Comorbid)
Other Specified Anxiety Disorder	Lifetime and past month (current)	
Anxiety Disorder Due to Another Medical Condition	Lifetime and past month (current)	
Substance/Medication-Induced Anxiety Disorder	Lifetime and past month (current)	
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<u>Obsessive-compulsive and related disorders</u>		
Obsessive Compulsive Disorder	Lifetime and past month (current)	} - Lifetime = Neither inclusion nor exclusion (MH and Comorbid)
Other Specified Obsessive Compulsive and Related Disorder	Lifetime and past month (current)	
Obsessive-Compulsive and Related Disorder Due to Another Medical Condition	Lifetime and past month (current)	
Substance/Medication-Induced Obsessive-Compulsive and Related Disorder	Lifetime and past month (current)	
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		} ✗ Lifetime = Exclusion (Controls and IBS)

Disorder	Duration assessed at interview	Eligibility Status
<u>Sleep-wake disorders</u>		
Insomnia Disorder	Past three months (current)	} - Lifetime = Neither inclusion nor exclusion (MH and Comorbid) X Lifetime = Exclusion (Controls and IBS)
Hypersomnolence Disorder	Past three months (current)	
Substance-Induced Sleep Disorder	Past three months (current)	
<u>Feeding and Eating Disorders</u>		
Anorexia Nervosa	Past 12 months and past 3 months (current)	} X Exclusion (all groups)
Bulimia Nervosa	Past 12 months and past 3 months (current)	
Binge Eating Disorder	Past 12 months and past 3 months (current)	
Other Specified Feeding or Eating Disorder	Past 12 months and past 3 months (current)	
<u>Somatic Symptom and Related Disorders</u>		
Somatic Symptom Disorder	Past 6 months (current)	} X Exclusion (all groups) IBS-related symptoms not included for IBS and comorbid groups
Illness Anxiety Disorder	Past 6 months (current)	
<u>Externalizing Disorders</u>		
Adult Attention-deficit Hyperactivity Disorder	Past 6 months (current)	} - Lifetime = Neither inclusion nor exclusion (MH and Comorbid) X Lifetime = Exclusion (Controls and IBS)
<u>Trauma- and Stressor-Related Disorders</u>		
Acute Stress Disorder	Past month (current)	} - Lifetime = Neither inclusion nor exclusion (MH and Comorbid)
Posttraumatic Stress Disorder	Lifetime and past month (current)	
Adjustment Disorder	Past 6 months (current)	

Disorder	Duration assessed at interview	Eligibility Status
Other Specified Trauma- and Stressor-Related Disorder	Lifetime and past month (current)	✗ Lifetime = Exclusion (Controls and IBS)

Notes. MH = mental health anxiety/depression group; Comorbid = comorbid IBS and anxiety/depression group; IBS = irritable bowel syndrome

Description of the Modified Psychiatric Diagnostic Screening Questionnaire

The Psychiatric Diagnostic Screening Questionnaire (PDSQ) will be modified for the Bugs and Brains Study to screen for the likely presence/absence of mental health diagnoses that relate to the inclusion and exclusion criteria of this study, particularly Major Depressive Disorder, anxiety disorders, substance use disorders, psychotic symptoms, and somatic disorders

The PDSQ has been modified as follows:

- 6 items relating to suicidal ideation and behavior have been removed. Suicidal ideation and behavior will be assessed by a research assistant during the SCID-5-RV diagnostic interview in Phase 2, and in Phase 4 self-report questionnaires.
- Questions relating to Post-Traumatic Stress symptoms and Obsessive Compulsive behaviours will be excluded as information pertaining to these disorders is not required for inclusions/exclusion criteria.
- Additional questions relating to mania symptoms have been added to assess for likely diagnosis of Bipolar disorders.
- Two additional questions assessing Persistent Depressive Disorder were added.
- An additional question assessing Anorexia Nervosa was added.
- For each diagnostic category, a question assessing lifetime history of experience of several symptoms from that diagnostic category has been added.