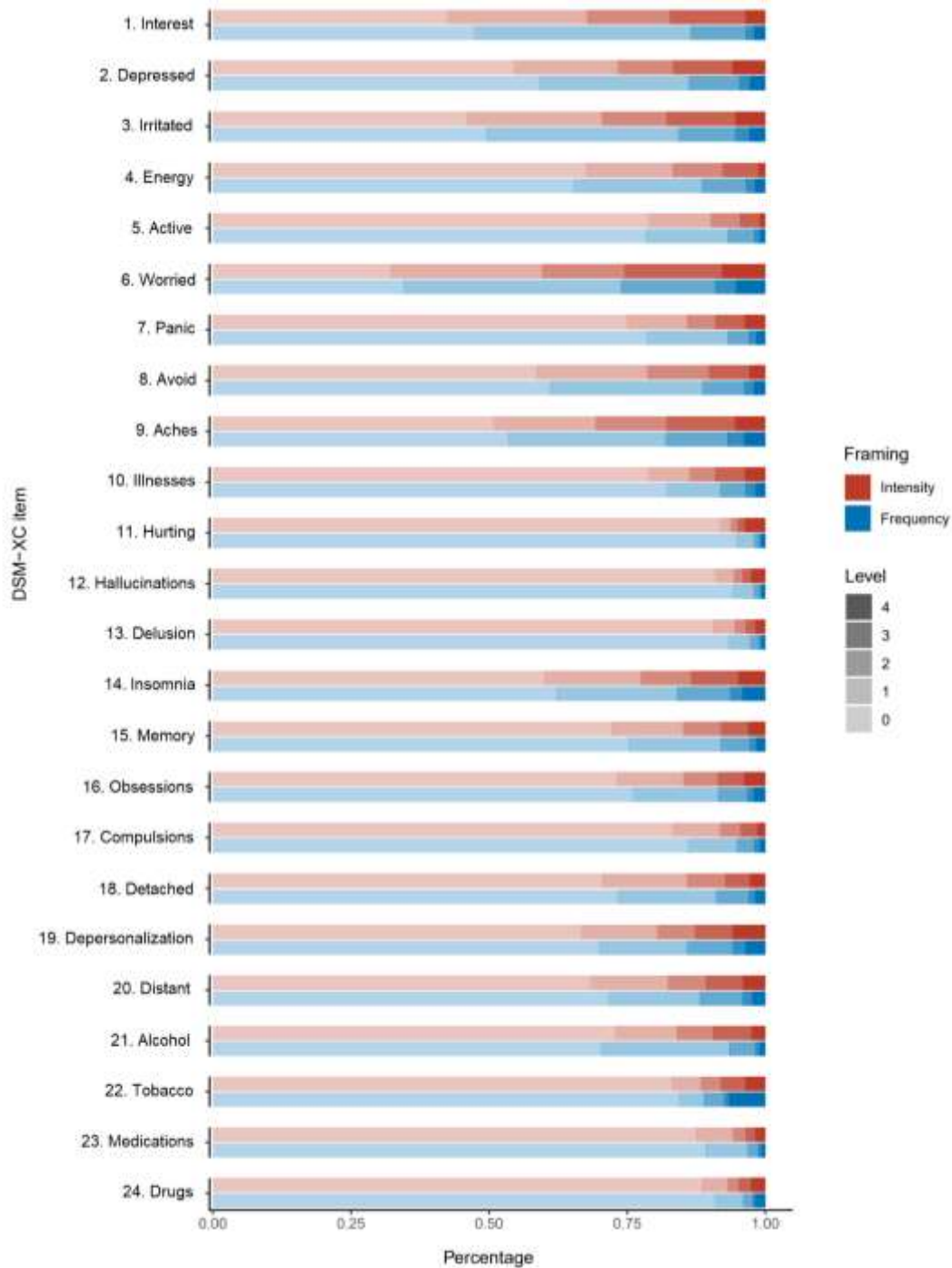


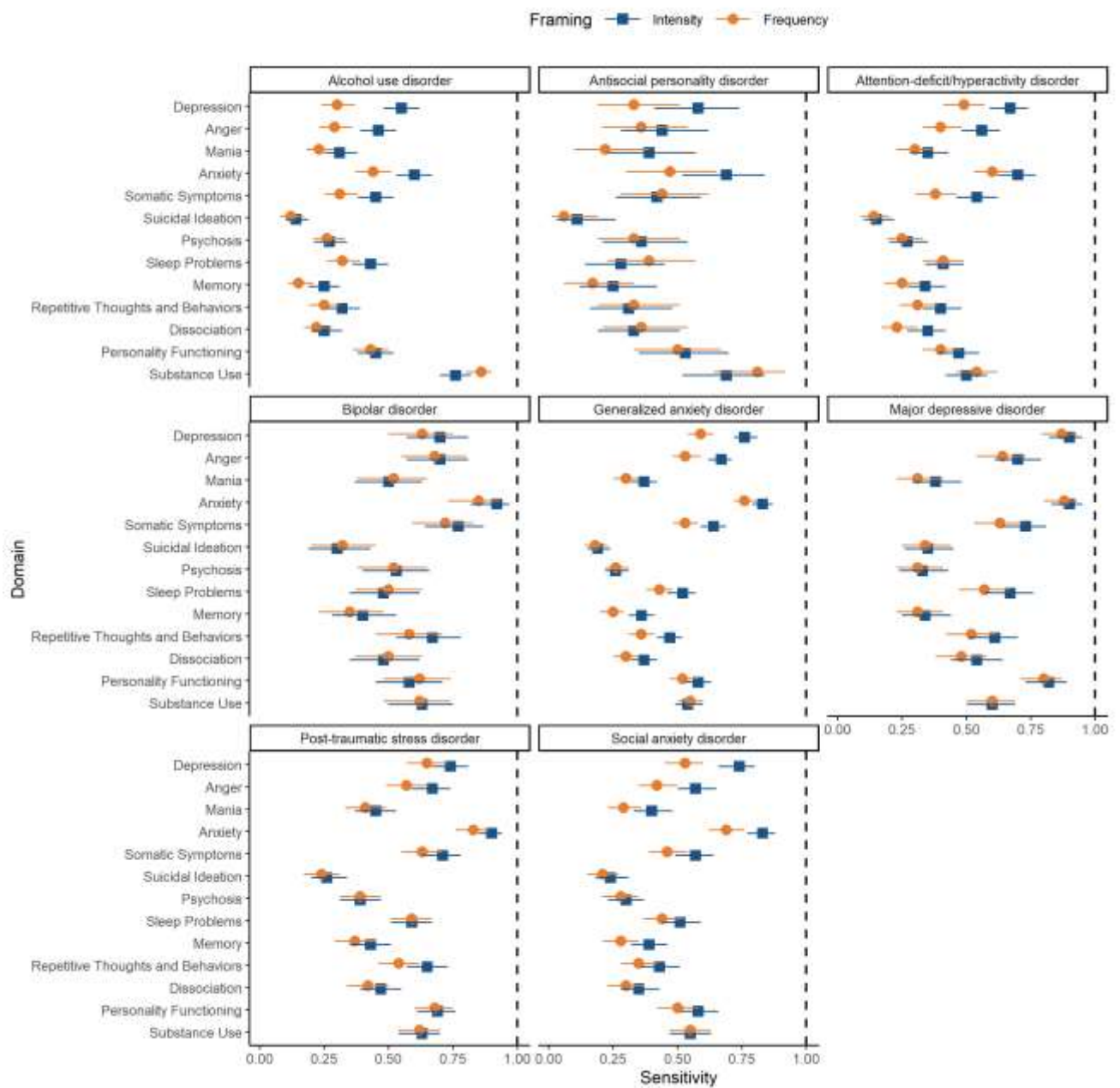
Supplementary material

Supplementary figure 1. DSM-XC item response distribution for the whole sample.



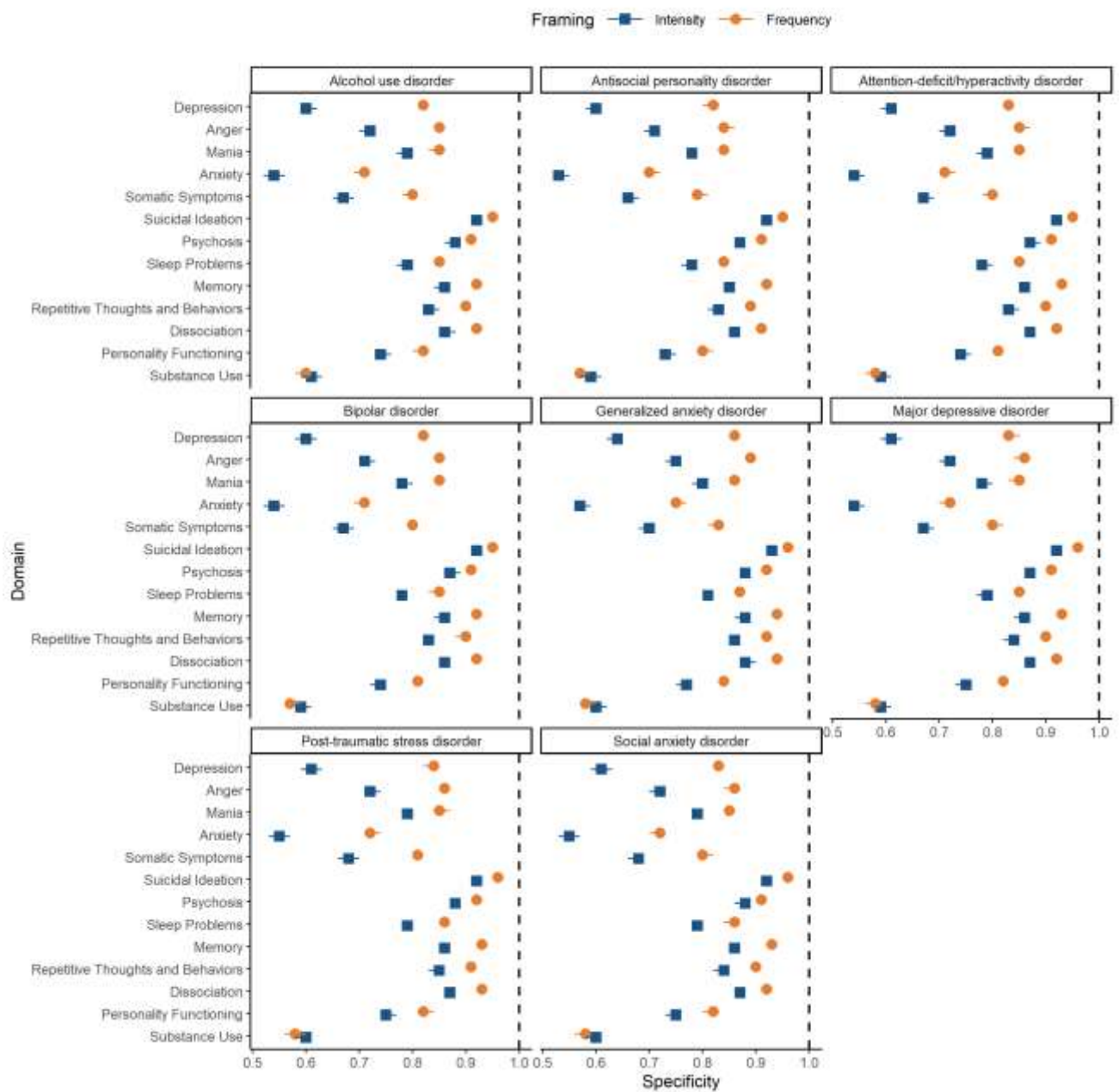
Levels for intensity were 0=none, 1=slight, 2=mild, 3=moderate, and 4=severe. Levels for frequency were 0=not at all, 1=less than a day or two, 2=several days, 3=more than half the days, and 4=nearly every day. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary figure 2. Sensitivity across DSM-XC domains for psychiatric diagnoses using intensity and frequency framings.



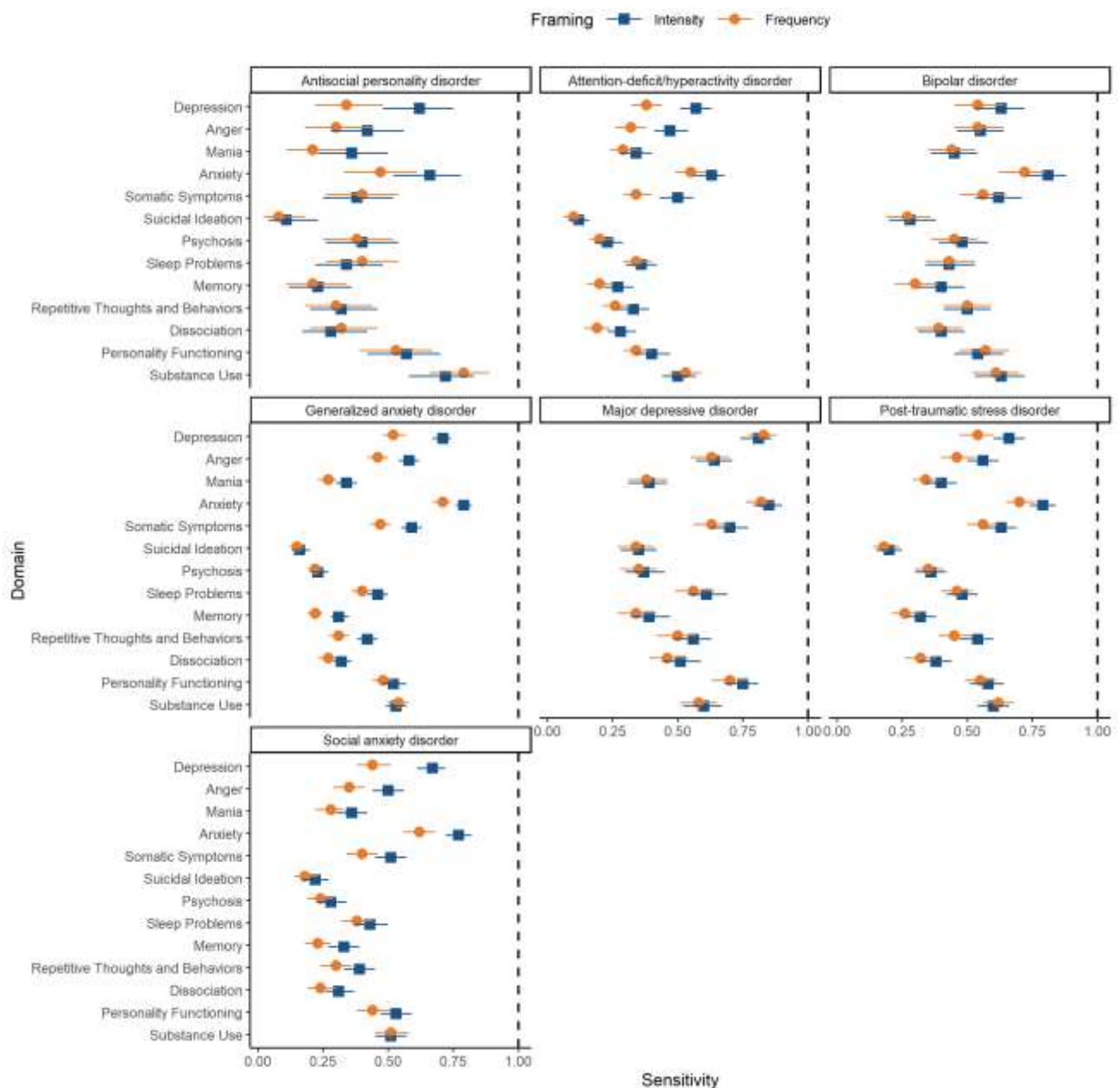
Intensity (in blue) and frequency (in yellow) represent how the instrument would perform if questions were asked with separate frames. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary figure 3. Specificity across DSM-XC domains for psychiatric diagnoses using intensity and frequency framings.



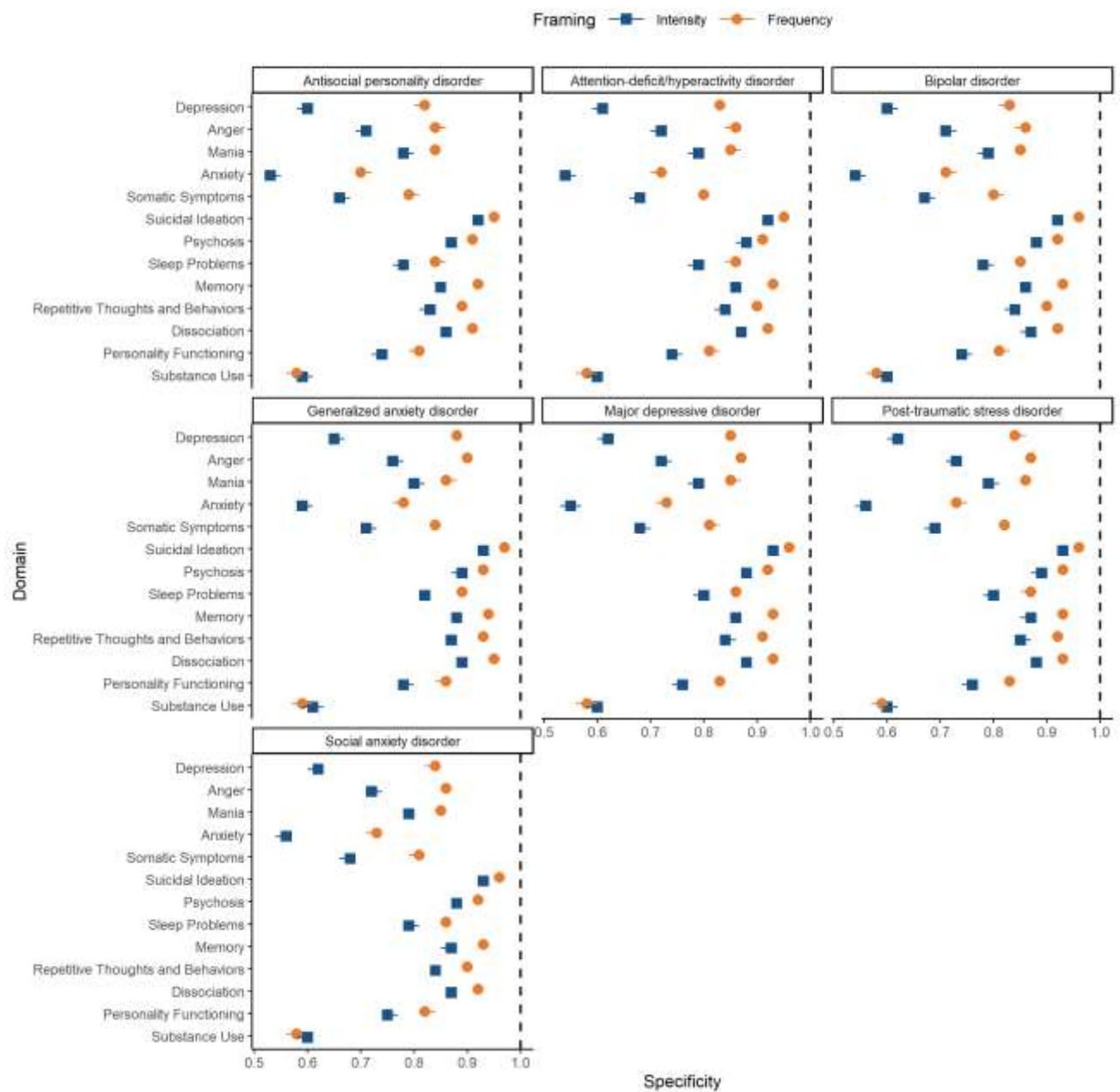
Intensity (in blue) and frequency (in yellow) represent how the instrument would perform if questions were asked with separate frames. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary Figure 4. Sensitivity across DSM-XC domains for psychiatric diagnoses using intensity and frequency framings, after removing the clinical impairment criteria.



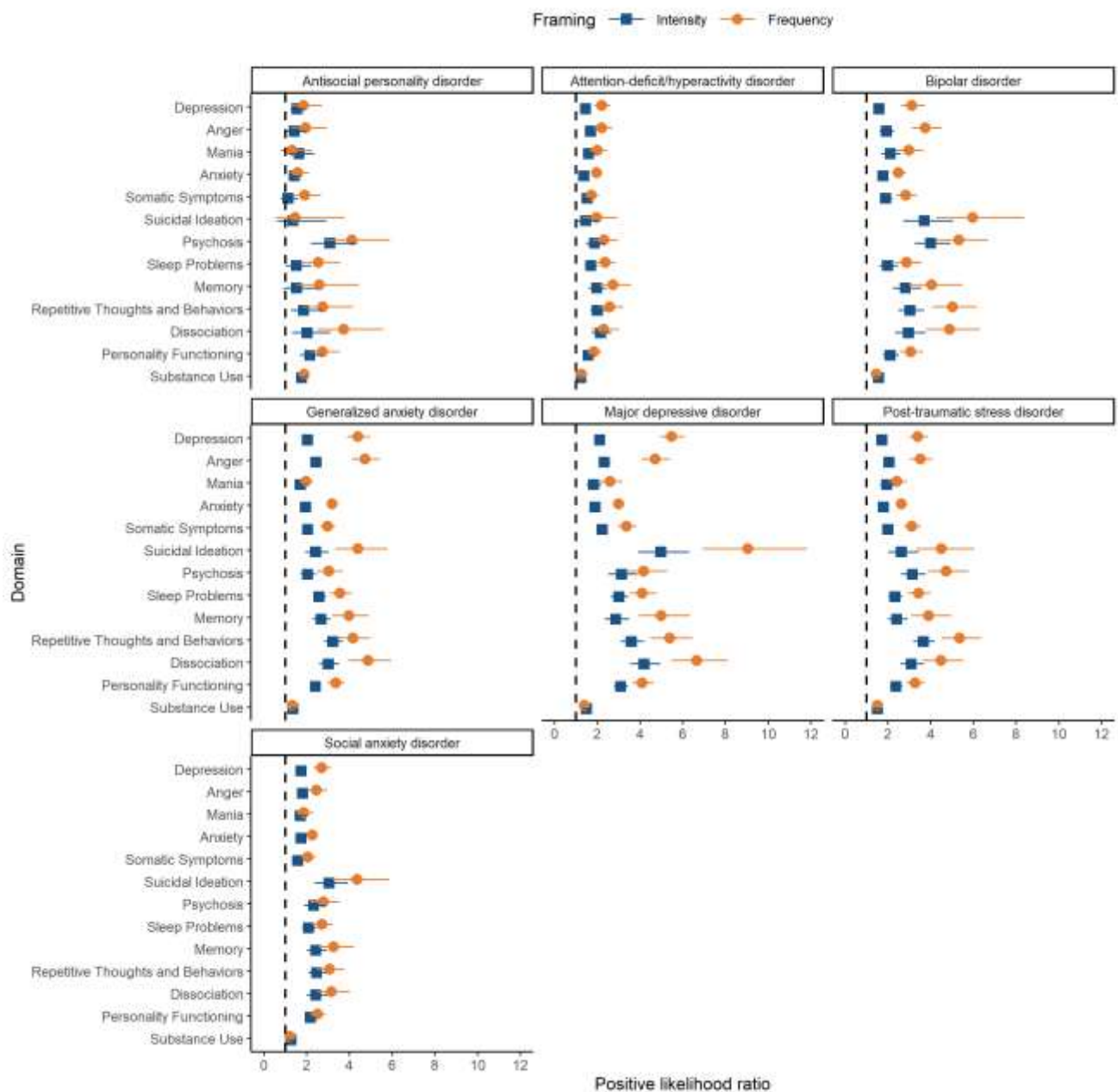
Intensity (in blue) and frequency (in yellow) represent how the instrument would perform if questions were asked with separate frames. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary Figure 5. Specificity across DSM-XC domains for psychiatric diagnoses using intensity and frequency framings, after removing the clinical impairment criteria.



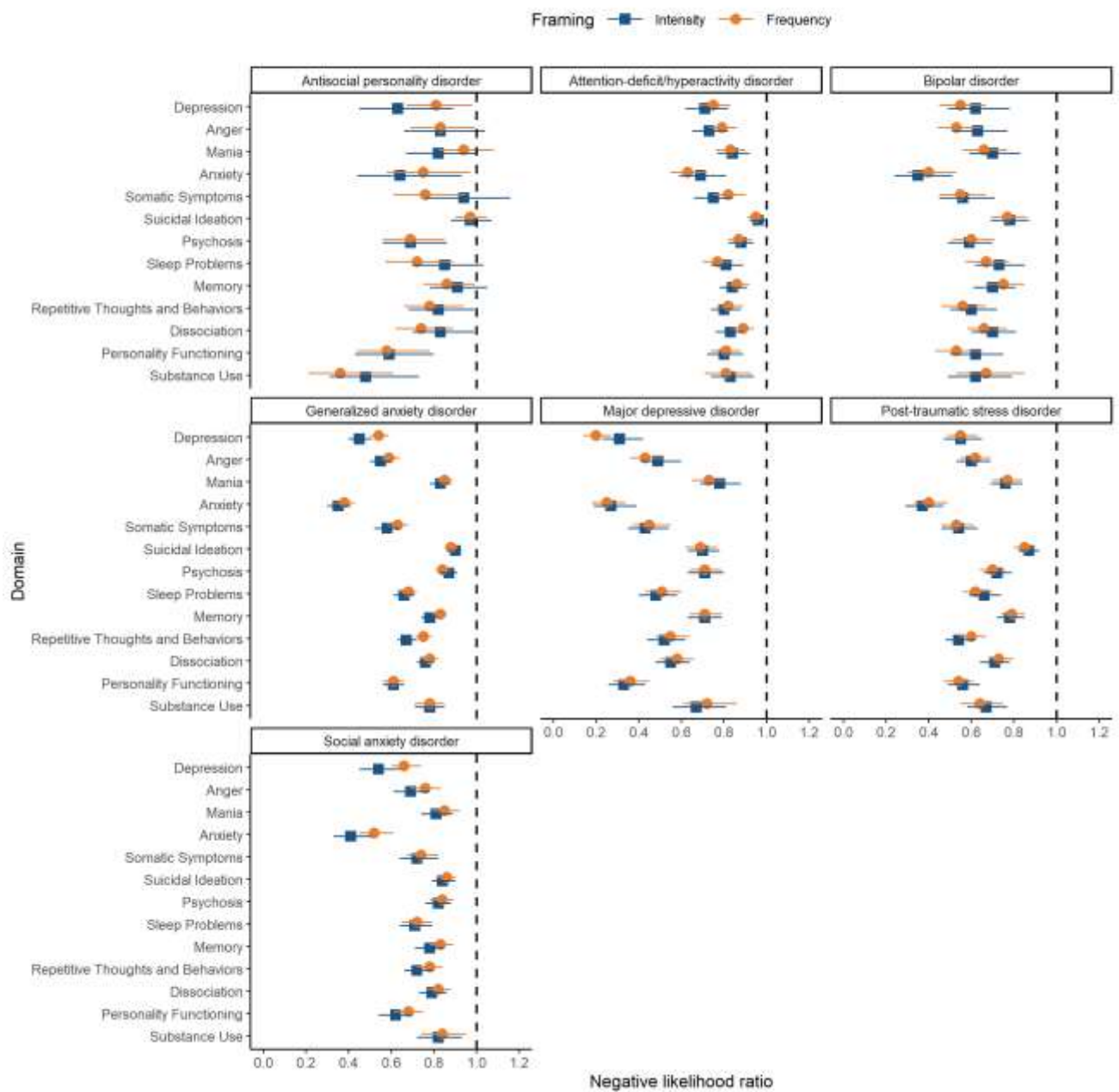
Intensity (in blue) and frequency (in yellow) represent how the instrument would perform if questions were asked with separate frames. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary Figure 6. Positive likelihood ratio (LR+) across DSM-XC domains for psychiatric diagnoses using intensity and frequency framings, after removing the clinical impairment criteria.



Intensity (in blue) and frequency (in yellow) represent how the instrument would perform if questions were asked with separate frames. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary Figure 7. Negative likelihood ratio (LR+) across DSM-XC domains for psychiatric diagnoses using intensity and frequency framings, after removing the clinical impairment criteria.



Intensity (in blue) and frequency (in yellow) represent how the instrument would perform if questions were asked with separate frames. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 1. Correlation between intensity and frequency framings from the DSM-XC.

Domain	Item	Polychoric correlation ^a	Kappa ^b
I. Depression	1. Little interest or pleasure in doing things?	0.80	0.47
	2. Feeling down, depressed, or hopeless?	0.86	0.56
II. Anger	3. Feeling more irritated, grouchy, or angry than usual?	0.85	0.56
III. Mania	4. Sleeping less than usual, but still have a lot of energy?	0.78	0.50
	5. Starting lots more projects than usual or doing more risky things than usual?	0.84	0.57
IV. Anxiety	6. Feeling nervous, anxious, frightened, worried, or on edge?	0.86	0.51
	7. Feeling panic or being frightened?	0.86	0.61
	8. Avoiding situations that make you anxious?	0.85	0.59
V. Somatic symptoms	9. Unexplained aches and pains (e.g., head, back, joints, abdomen, legs)?	0.88	0.58
	10. Feeling that your illnesses are not being taken seriously enough?	0.89	0.61
VI. Suicidal ideation	11. Thoughts of actually hurting yourself?	0.86	0.49
VII. Psychosis	12. Hearing things other people couldn't hear, such as voices even when no one was around?	0.85	0.54
	13. Feeling that someone could hear your thoughts, or that you could hear what another person was thinking?	0.83	0.52
VIII. Sleep problems	14. Problems with sleep that affected your sleep quality over all?	0.90	0.66
IX. Memory	15. Problems with memory (e.g., learning new information) or with location (e.g., finding your way home)?	0.88	0.64
	16. Unpleasant thoughts, urges, or images that repeatedly enter your mind?	0.89	0.66
X. Repetitive thoughts and behaviors	17. Feeling driven to perform certain behaviors or mental acts over and over again?	0.87	0.62
	18. Feeling detached or distant from yourself, your body, your physical surroundings, or your memories?	0.89	0.68
XII. Personality functioning	19. Not knowing who you really are or what you want out of life?	0.89	0.64
	20. Not feeling close to other people or enjoying your relationships with them?	0.87	0.64
XIII. Substance use	21. Drinking at least 4 drinks of any kind of alcohol in a single day?	0.77	0.48
	22. Smoking any cigarettes, a cigar, or pipe, or using snuff or chewing tobacco?	0.86	0.52
	23. Using any of the following medicines ON YOUR OWN, that is, without a doctor's prescription, in greater amounts or longer than prescribed [e.g., painkillers (like Vicodin), stimulants (like Ritalin or Adderall), sedatives or tranquilizers (like sleeping pills or Valium)]?*	0.82	0.60
	24. Using drugs like marijuana, cocaine or crack, club drugs (like ecstasy), hallucinogens (like LSD), heroin, inhalants or solvents (like glue), or methamphetamine (like speed)]?*	0.78	0.50

^aPolychoric correlation measures the strength and direction of the relationship between framings. ^bKappa coefficient measures the beyond chance agreement between two framings. *The last item of the original DSM-XC was split into two (items 23 and 24 in the present instrument), to allow for the exploration of substance use and self-prescription/misuse separately. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 2. Standards for Reporting of Diagnostic Accuracy Studies (STARD) 2015 Checklist.

Section & Topic	No	Item	Reported on page #
TITLE OR ABSTRACT			
	1	Identification as a study of diagnostic accuracy using at least one measure of accuracy (such as sensitivity, specificity, predictive values, or AUC)	1
ABSTRACT			
	2	Structured summary of study design, methods, results, and conclusions (for specific guidance, see STARD for Abstracts)	3
INTRODUCTION			
	3	Scientific and clinical background, including the intended use and clinical role of the index test	4
	4	Study objectives and hypotheses	5
METHODS			
<i>Study design</i>	5	Whether data collection was planned before the index test and reference standard were performed (prospective study) or after (retrospective study)	5
<i>Participants</i>	6	Eligibility criteria	5
	7	On what basis potentially eligible participants were identified (such as symptoms, results from previous tests, inclusion in registry)	5
	8	Where and when potentially eligible participants were identified (setting, location and dates)	5
	9	Whether participants formed a consecutive, random or convenience series	5
<i>Test methods</i>	10a	Index test, in sufficient detail to allow replication	5-6

	10b	Reference standard, in sufficient detail to allow replication	6
	11	Rationale for choosing the reference standard (if alternatives exist)	NA
	12a	Definition of and rationale for test positivity cut-offs or result categories of the index test, distinguishing pre-specified from exploratory	5
	12b	Definition of and rationale for test positivity cut-offs or result categories of the reference standard, distinguishing pre-specified from exploratory	5
	13a	Whether clinical information and reference standard results were available to the performers/readers of the index test	6
	13b	Whether clinical information and index test results were available to the assessors of the reference standard	6
<i>Analysis</i>	14	Methods for estimating or comparing measures of diagnostic accuracy	7
	15	How indeterminate index test or reference standard results were handled	NA
	16	How missing data on the index test and reference standard were handled	5
	17	Any analyses of variability in diagnostic accuracy, distinguishing pre-specified from exploratory	7
	18	Intended sample size and how it was determined	NA
RESULTS			
<i>Participants</i>	19	Flow of participants, using a diagram	NA
	20	Baseline demographic and clinical characteristics of participants	Table 1
	21a	Distribution of severity of disease in those with the target condition	NA

	21b	Distribution of alternative diagnoses in those without the target condition	NA
	22	Time interval and any clinical interventions between index test and reference standard	NA
<i>Test results</i>	23	Cross tabulation of the index test results (or their distribution) by the results of the reference standard	Due to the large number of index and reference tests, cross tabulation was described in tables instead of diagram (Supplementary Tables 4 to 19)
	24	Estimates of diagnostic accuracy and their precision (such as 95% confidence intervals)	Tables 2 and 3
	25	Any adverse events from performing the index test or the reference standard	NA
DISCUSSION			
	26	Study limitations, including sources of potential bias, statistical uncertainty, and generalisability	12
	27	Implications for practice, including the intended use and clinical role of the index test	12
OTHER INFORMATION			
	28	Registration number and name of registry	5
	29	Where the full study protocol can be accessed	NA
	30	Sources of funding and other support; role of funders	1

Supplementary table 3. Number and proportion of positive screens and according to DSM-XC scoring rules for each domain.

Domain	OR rule		Intensity		Frequency	
	n	Proportion (95% CI)	n	Proportion (95% CI)	n	Proportion (95% CI)
01. Depression	1524	0.43 (0.41-0.44)	1452	0.41 (0.39-0.42)	665	0.19 (0.17-0.20)
02. Anger	1143	0.32 (0.30-0.34)	1056	0.30 (0.28-0.31)	564	0.16 (0.15-0.17)
03. Mania	1007	0.28 (0.27-0.30)	789	0.22 (0.21-0.23)	564	0.16 (0.15-0.17)
04. Anxiety	1798	0.50 (0.49-0.52)	1677	0.47 (0.45-0.49)	1076	0.30 (0.29-0.32)
05. Somatic symptoms	1290	0.36 (0.34-0.38)	1206	0.34 (0.32-0.35)	751	0.21 (0.20-0.22)
06. Suicidal ideation	318	0.09 (0.08-0.10)	299	0.08 (0.07-0.09)	186	0.05 (0.04-0.06)
07. Psychosis	499	0.14 (0.13-0.15)	474	0.13 (0.12-0.14)	344	0.10 (0.09-0.11)
08. Sleep problems	886	0.25 (0.23-0.26)	805	0.22 (0.21-0.24)	570	0.16 (0.15-0.17)
09. Memory	594	0.17 (0.15-0.18)	534	0.15 (0.14-0.16)	293	0.08 (0.07-0.09)
10. Repetitive thoughts and behaviors	701	0.20 (0.18-0.21)	629	0.18 (0.16-0.19)	403	0.11 (0.10-0.12)
11. Dissociation	572	0.16 (0.15-0.17)	510	0.14 (0.13-0.15)	320	0.09 (0.08-0.10)
12. Personality functioning	1069	0.30 (0.28-0.31)	958	0.27 (0.25-0.28)	709	0.20 (0.19-0.21)
13. Substance use	1696	0.47 (0.46-0.49)	1474	0.41 (0.40-0.43)	1537	0.43 (0.41-0.45)

n = number of positive screens. DSM-XC stipulates a positive screen as rating mild (i.e., 2) or greater on any item within a domain (depression, anger, mania, anxiety, somatic symptoms, sleep problems, memory, repetitive thoughts and behaviors, dissociation, personality functioning, except for substance use, suicidal ideation, and psychosis). For substance use, suicidal ideation, and psychosis, rating slight (i.e., 1) or greater on any item within the domain was considered a positive screen. “OR” rule represents original DSM-XC scoring instructions. Intensity and frequency represent how the instrument would perform if questions were asked with separate frames. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 4. Diagnostic and test results of DSM-XC domains using the original “OR” rule for alcohol use disorder.

Domain	Test + / Diagnosis +	Test - / Diagnosis +	Test + / Diagnosis -	Test - / Diagnosis -
I. Depression	123	85	1401	1969
II. Anger	103	105	1040	2330
III. Mania	84	124	923	2447
IV. Anxiety	132	76	1666	1704
V. Somatic symptoms	102	106	1188	2182
VI. Suicidal ideation	31	177	287	3083
VII. Psychosis	61	147	438	2932
VIII. Sleep problems	99	109	787	2583
IX. Memory	59	149	535	2835
X. Repetitive thoughts and behaviors	78	130	623	2747
XI. Dissociation	63	145	509	2861
XII. Personality functioning	110	98	959	2411
XIII. Substance use	180	28	1516	1854

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 5. Diagnostic and test results of DSM-XC domains using the original “OR” rule for antisocial personality disorder.

Domain	Test + / Diagnosis +	Test - / Diagnosis +	Test + / Diagnosis -	Test - / Diagnosis -
I. Depression	21	15	1503	2039
II. Anger	16	20	1127	2415
III. Mania	15	21	992	2550
IV. Anxiety	25	11	1773	1769
V. Somatic symptoms	18	18	1272	2270
VI. Suicidal ideation	4	32	314	3228
VII. Psychosis	14	22	485	3057
VIII. Sleep problems	14	22	872	2670
IX. Memory	9	27	585	2957
X. Repetitive thoughts and behaviors	15	21	686	2856
XI. Dissociation	15	21	557	2985
XII. Personality functioning	22	14	1047	2495
XIII. Substance use	29	7	1667	1875

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 6. Diagnostic and test results of DSM-XC domains using the original “OR” rule for attention-deficit/hyperactivity disorder.

Domain	Test + / Diagnosis +	Test - / Diagnosis +	Test + / Diagnosis -	Test - / Diagnosis -
I. Depression	112	50	1412	2004
II. Anger	96	66	1047	2369
III. Mania	70	92	937	2479
IV. Anxiety	121	41	1677	1739
V. Somatic symptoms	88	74	1202	2214
VI. Suicidal ideation	30	132	288	3128
VII. Psychosis	47	115	452	2964
VIII. Sleep problems	76	86	810	2606
IX. Memory	60	102	534	2882
X. Repetitive thoughts and behaviors	68	94	633	2783
XI. Dissociation	59	103	513	2903
XII. Personality functioning	84	78	985	2431
XIII. Substance use	94	68	1602	1814

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 7. Diagnostic and test results of DSM-XC domains using the original “OR” rule for bipolar disorder.

Domain	Test + / Diagnosis +	Test - / Diagnosis +	Test + / Diagnosis -	Test - / Diagnosis -
I. Depression	46	14	1478	2040
II. Anger	45	15	1098	2420
III. Mania	39	21	968	2550
IV. Anxiety	57	3	1741	1777
V. Somatic symptoms	47	13	1243	2275
VI. Suicidal ideation	20	40	298	3220
VII. Psychosis	32	28	467	3051
VIII. Sleep problems	34	26	852	2666
IX. Memory	29	31	565	2953
X. Repetitive thoughts and behaviors	41	19	660	2858
XI. Dissociation	36	24	536	2982
XII. Personality functioning	43	17	1026	2492
XIII. Substance use	40	20	1656	1862

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 8. Diagnostic and test results of DSM-XC domains using the original “OR” rule for generalized anxiety disorder.

Domain	Test + / Diagnosis +	Test - / Diagnosis +	Test + / Diagnosis -	Test - / Diagnosis -
I. Depression	304	74	1220	1980
II. Anger	264	114	879	2321
III. Mania	162	216	845	2355
IV. Anxiety	329	49	1469	1731
V. Somatic symptoms	252	126	1038	2162
VI. Suicidal ideation	77	301	241	2959
VII. Psychosis	104	274	395	2805
VIII. Sleep problems	204	174	682	2518
IX. Memory	143	235	451	2749
X. Repetitive thoughts and behaviors	185	193	516	2684
XI. Dissociation	152	226	420	2780
XII. Personality functioning	237	141	832	2368
XIII. Substance use	223	155	1473	1727

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 9. Diagnostic and test results of DSM-XC domains using the original “OR” rule for major depressive disorder.

Domain	Test + / Diagnosis +	Test - / Diagnosis +	Test + / Diagnosis -	Test - / Diagnosis -
I. Depression	100	5	1424	2049
II. Anger	80	25	1063	2410
III. Mania	48	57	959	2514
IV. Anxiety	100	5	1698	1775
V. Somatic symptoms	79	26	1211	2262
VI. Suicidal ideation	40	65	278	3195
VII. Psychosis	36	69	463	3010
VIII. Sleep problems	72	33	814	2659
IX. Memory	41	64	553	2920
X. Repetitive thoughts and behaviors	66	39	635	2838
XI. Dissociation	61	44	511	2962
XII. Personality functioning	90	15	979	2494
XIII. Substance use	66	39	1630	1843

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 10. Diagnostic and test results of DSM-XC domains using the original “OR” rule for post-traumatic stress disorder.

Domain	Test + / Diagnosis +	Test - / Diagnosis +	Test + / Diagnosis -	Test - / Diagnosis -
I. Depression	123	32	1401	2022
II. Anger	111	44	1032	2391
III. Mania	85	70	922	2501
IV. Anxiety	145	10	1653	1770
V. Somatic symptoms	112	43	1178	2245
VI. Suicidal ideation	42	113	276	3147
VII. Psychosis	61	94	438	2985
VIII. Sleep problems	101	54	785	2638
IX. Memory	72	83	522	2901
X. Repetitive thoughts and behaviors	106	49	595	2828
XI. Dissociation	76	79	496	2927
XII. Personality functioning	117	38	952	2471
XIII. Substance use	100	55	1596	1827
DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.				

Supplementary table 11. Diagnostic and test results of DSM-XC domains using the original “OR” rule for social anxiety disorder.

Domain	Test + / Diagnosis +	Test - / Diagnosis +	Test + / Diagnosis -	Test - / Diagnosis -
I. Depression	137	41	1387	2013
II. Anger	108	70	1035	2365
III. Mania	81	97	926	2474
IV. Anxiety	153	25	1645	1755
V. Somatic symptoms	107	71	1183	2217
VI. Suicidal ideation	45	133	273	3127
VII. Psychosis	54	124	445	2955
VIII. Sleep problems	99	79	787	2613
IX. Memory	74	104	520	2880
X. Repetitive thoughts and behaviors	81	97	620	2780
XI. Dissociation	70	108	502	2898
XII. Personality functioning	110	68	959	2441
XIII. Substance use	106	72	1590	1810

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 12. Diagnostic and test results of DSM-XC domains using the intensity and frequency framings for alcohol use disorder.

Domain	Framing	Test + / Diagnosis +	Test - / Diagnosis +	Test + / Diagnosis -	Test - / Diagnosis -
I. Depression	Intensity	114	94	1338	2032
	Frequency	63	145	602	2768
II. Anger	Intensity	96	112	960	2410
	Frequency	61	147	503	2867
III. Mania	Intensity	65	143	724	2646
	Frequency	48	160	516	2854
IV. Anxiety	Intensity	125	83	1552	1818
	Frequency	91	117	985	2385
V. Somatic symptoms	Intensity	93	115	1113	2257
	Frequency	64	144	687	2683
VI. Suicidal ideation	Intensity	29	179	270	3100
	Frequency	25	183	161	3209
VII. Psychosis	Intensity	57	151	417	2953
	Frequency	55	153	289	3081
VIII. Sleep problems	Intensity	89	119	716	2654
	Frequency	67	141	503	2867
IX. Memory	Intensity	51	157	483	2887
	Frequency	32	176	261	3109
X. Repetitive thoughts and behaviors	Intensity	67	141	562	2808
	Frequency	52	156	351	3019
XI. Dissociation	Intensity	53	155	457	2913
	Frequency	46	162	274	3096
XII. Personality functioning	Intensity	93	115	865	2505
	Frequency	89	119	620	2750
XIII. Substance use	Intensity	159	49	1315	2055
	Frequency	178	30	1359	2011

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 13. Diagnostic and test results of DSM-XC domains using the intensity and frequency framings for antisocial personality disorder.

Domain	Framing	Test + / Diagnosis +	Test - / Diagnosis +	Test + / Diagnosis -	Test - / Diagnosis -
I. Depression	Intensity	21	15	1431	2111
	Frequency	12	24	653	2889
II. Anger	Intensity	16	20	1040	2502
	Frequency	13	23	551	2991
III. Mania	Intensity	14	22	775	2767
	Frequency	8	28	556	2986
IV. Anxiety	Intensity	25	11	1652	1890
	Frequency	17	19	1059	2483
V. Somatic symptoms	Intensity	15	21	1191	2351
	Frequency	16	20	735	2807
VI. Suicidal ideation	Intensity	4	32	295	3247
	Frequency	2	34	184	3358
VII. Psychosis	Intensity	13	23	461	3081
	Frequency	12	24	332	3210
VIII. Sleep problems	Intensity	10	26	795	2747
	Frequency	14	22	556	2986
IX. Memory	Intensity	9	27	525	3017
	Frequency	6	30	287	3255
X. Repetitive thoughts and behaviors	Intensity	11	25	618	2924
	Frequency	12	24	391	3151
XI. Dissociation	Intensity	12	24	498	3044
	Frequency	13	23	307	3235
XII. Personality functioning	Intensity	19	17	939	2603
	Frequency	18	18	691	2851
XIII. Substance use	Intensity	25	11	1449	2093
	Frequency	29	7	1508	2034

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 14. Diagnostic and test results of DSM-XC domains using the intensity and frequency framings for attention-deficit/hyperactivity disorder.

Domain	Framing	Test + / Diagnosis +	Test - / Diagnosis +	Test + / Diagnosis -	Test - / Diagnosis -
I. Depression	Intensity	108	54	1344	2072
	Frequency	79	83	586	2830
II. Anger	Intensity	90	72	966	2450
	Frequency	65	97	499	2917
III. Mania	Intensity	57	105	732	2684
	Frequency	48	114	516	2900
IV. Anxiety	Intensity	113	49	1564	1852
	Frequency	98	64	978	2438
V. Somatic symptoms	Intensity	87	75	1119	2297
	Frequency	61	101	690	2726
VI. Suicidal ideation	Intensity	25	137	274	3142
	Frequency	22	140	164	3252
VII. Psychosis	Intensity	44	118	430	2986
	Frequency	41	121	303	3113
VIII. Sleep problems	Intensity	67	95	738	2678
	Frequency	66	96	504	2912
IX. Memory	Intensity	55	107	479	2937
	Frequency	40	122	253	3163
X. Repetitive thoughts and behaviors	Intensity	65	97	564	2852
	Frequency	50	112	353	3063
XI. Dissociation	Intensity	56	106	454	2962
	Frequency	38	124	282	3134
XII. Personality functioning	Intensity	76	86	882	2534
	Frequency	65	97	644	2772
XIII. Substance use	Intensity	81	81	1393	2023
	Frequency	87	75	1450	1966

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 15. Diagnostic and test results of DSM-XC domains using the intensity and frequency framings for bipolar disorder.

Domain	Framing	Test + / Diagnosis +	Test - / Diagnosis +	Test + / Diagnosis -	Test - / Diagnosis -
I. Depression	Intensity	42	18	1410	2108
	Frequency	38	22	627	2891
II. Anger	Intensity	42	18	1014	2504
	Frequency	41	19	523	2995
III. Mania	Intensity	30	30	759	2759
	Frequency	31	29	533	2985
IV. Anxiety	Intensity	55	5	1622	1896
	Frequency	51	9	1025	2493
V. Somatic symptoms	Intensity	46	14	1160	2358
	Frequency	43	17	708	2810
VI. Suicidal ideation	Intensity	18	42	281	3237
	Frequency	19	41	167	3351
VII. Psychosis	Intensity	32	28	442	3076
	Frequency	31	29	313	3205
VIII. Sleep problems	Intensity	29	31	776	2742
	Frequency	30	30	540	2978
IX. Memory	Intensity	24	36	510	3008
	Frequency	21	39	272	3246
X. Repetitive thoughts and behaviors	Intensity	40	20	589	2929
	Frequency	35	25	368	3150
XI. Dissociation	Intensity	29	31	481	3037
	Frequency	30	30	290	3228
XII. Personality functioning	Intensity	35	25	923	2595
	Frequency	37	23	672	2846
XIII. Substance use	Intensity	38	22	1436	2082
	Frequency	37	23	1500	2018

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 16. Diagnostic and test results of DSM-XC domains using the intensity and frequency framings for generalized anxiety disorder.

Domain	Framing	Test + / Diagnosis +	Test - / Diagnosis +	Test + / Diagnosis -	Test - / Diagnosis -
I. Depression	Intensity	289	89	1163	2037
	Frequency	224	154	441	2759
II. Anger	Intensity	252	126	804	2396
	Frequency	202	176	362	2838
III. Mania	Intensity	140	238	649	2551
	Frequency	113	265	451	2749
IV. Anxiety	Intensity	314	64	1363	1837
	Frequency	289	89	787	2413
V. Somatic symptoms	Intensity	243	135	963	2237
	Frequency	200	178	551	2649
VI. Suicidal ideation	Intensity	73	305	226	2974
	Frequency	69	309	117	3083
VII. Psychosis	Intensity	100	278	374	2826
	Frequency	98	280	246	2954
VIII. Sleep problems	Intensity	195	183	610	2590
	Frequency	163	215	407	2793
IX. Memory	Intensity	135	243	399	2801
	Frequency	93	285	200	3000
X. Repetitive thoughts and behaviors	Intensity	178	200	451	2749
	Frequency	135	243	268	2932
XI. Dissociation	Intensity	141	237	369	2831
	Frequency	113	265	207	2993
XII. Personality functioning	Intensity	218	160	740	2460
	Frequency	198	180	511	2689
XIII. Substance use	Intensity	206	172	1268	1932
	Frequency	209	169	1328	1872

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 17. Diagnostic and test results of DSM-XC domains using the intensity and frequency framings for major depressive disorder.

Domain	Framing	Test + / Diagnosis +	Test - / Diagnosis +	Test + / Diagnosis -	Test - / Diagnosis -
I. Depression	Intensity	94	11	1358	2115
	Frequency	91	14	574	2899
II. Anger	Intensity	74	31	982	2491
	Frequency	67	38	497	2976
III. Mania	Intensity	40	65	749	2724
	Frequency	33	72	531	2942
IV. Anxiety	Intensity	95	10	1582	1891
	Frequency	92	13	984	2489
V. Somatic symptoms	Intensity	77	28	1129	2344
	Frequency	66	39	685	2788
VI. Suicidal ideation	Intensity	37	68	262	3211
	Frequency	36	69	150	3323
VII. Psychosis	Intensity	35	70	439	3034
	Frequency	33	72	311	3162
VIII. Sleep problems	Intensity	70	35	735	2738
	Frequency	60	45	510	2963
IX. Memory	Intensity	36	69	498	2975
	Frequency	33	72	260	3213
X. Repetitive thoughts and behaviors	Intensity	64	41	565	2908
	Frequency	55	50	348	3125
XI. Dissociation	Intensity	57	48	453	3020
	Frequency	50	55	270	3203
XII. Personality functioning	Intensity	86	19	872	2601
	Frequency	84	21	625	2848
XIII. Substance use	Intensity	63	42	1411	2062
	Frequency	63	42	1474	1999

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 18. Diagnostic and test results of DSM-XC domains using the intensity and frequency framings for post-traumatic stress disorder.

Domain	Framing	Test + / Diagnosis +	Test - / Diagnosis +	Test + / Diagnosis -	Test - / Diagnosis -
I. Depression	Intensity	115	40	1337	2086
	Frequency	101	54	564	2859
II. Anger	Intensity	104	51	952	2471
	Frequency	88	67	476	2947
III. Mania	Intensity	70	85	719	2704
	Frequency	64	91	500	2923
IV. Anxiety	Intensity	140	15	1537	1886
	Frequency	129	26	947	2476
V. Somatic symptoms	Intensity	110	45	1096	2327
	Frequency	98	57	653	2770
VI. Suicidal ideation	Intensity	41	114	258	3165
	Frequency	37	118	149	3274
VII. Psychosis	Intensity	60	95	414	3009
	Frequency	60	95	284	3139
VIII. Sleep problems	Intensity	91	64	714	2709
	Frequency	91	64	479	2944
IX. Memory	Intensity	67	88	467	2956
	Frequency	57	98	236	3187
X. Repetitive thoughts and behaviors	Intensity	101	54	528	2895
	Frequency	84	71	319	3104
XI. Dissociation	Intensity	73	82	437	2986
	Frequency	65	90	255	3168
XII. Personality functioning	Intensity	107	48	851	2572
	Frequency	105	50	604	2819
XIII. Substance use	Intensity	97	58	1377	2046
	Frequency	96	59	1441	1982

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 19. Diagnostic and test results of DSM-XC domains using the intensity and frequency framings for social anxiety disorder.

Domain	Framing	Test + / Diagnosis +	Test - / Diagnosis +	Test + / Diagnosis -	Test - / Diagnosis -
I. Depression	Intensity	131	47	1321	2079
	Frequency	94	84	571	2829
II. Anger	Intensity	102	76	954	2446
	Frequency	75	103	489	2911
III. Mania	Intensity	72	106	717	2683
	Frequency	52	126	512	2888
IV. Anxiety	Intensity	148	30	1529	1871
	Frequency	123	55	953	2447
V. Somatic symptoms	Intensity	101	77	1105	2295
	Frequency	82	96	669	2731
VI. Suicidal ideation	Intensity	43	135	256	3144
	Frequency	37	141	149	3251
VII. Psychosis	Intensity	53	125	421	2979
	Frequency	49	129	295	3105
VIII. Sleep problems	Intensity	91	87	714	2686
	Frequency	79	99	491	2909
IX. Memory	Intensity	69	109	465	2935
	Frequency	49	129	244	3156
X. Repetitive thoughts and behaviors	Intensity	77	101	552	2848
	Frequency	62	116	341	3059
XI. Dissociation	Intensity	63	115	447	2953
	Frequency	53	125	267	3133
XII. Personality functioning	Intensity	104	74	854	2546
	Frequency	89	89	620	2780
XIII. Substance use	Intensity	98	80	1376	2024
	Frequency	98	80	1439	1961

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 20. Sensitivity differences between DSM-XC intensity and frequency question framings.

Diagnosis	Sensitivity difference (median*)	P-value
Alcohol use disorder	0.08	0.01
Antisocial personality disorder	0.04	0.17
Attention-deficit/hyperactivity disorder	0.09	0.01
Bipolar disorder	0.02	0.29
Generalized anxiety disorder	0.09	<0.01
Major depressive disorder	0.05	<0.01
Post-traumatic stress disorder	0.06	<0.01
Social anxiety disorder	0.09	<0.01

*Median of the differences between the two groups using paired Wilcoxon tests. Intensity was used as the reference group for the comparisons with frequency. Intensity and frequency represent how the instrument would perform if questions were asked with separate frames. A bold font indicates statistical significance in the comparison between frames or between rules. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 21. Specificity differences between DSM-XC intensity and frequency question framings.

Diagnosis	Specificity difference (median*)	P-value
Alcohol use disorder	-0.07	<0.01
Antisocial personality disorder	-0.07	<0.01
Attention-deficit/hyperactivity disorder	-0.07	<0.01
Bipolar disorder	-0.07	<0.01
Generalized anxiety disorder	-0.07	<0.01
Major depressive disorder	-0.07	<0.01
Post-traumatic stress disorder	-0.07	<0.01
Social anxiety disorder	-0.07	<0.01

*Median of the differences between the two groups using paired Wilcoxon tests. Intensity was used as the reference group for the comparisons with frequency. Intensity and frequency represent how the instrument would perform if questions were asked with separate frames. A bold font indicates statistical significance in the comparison between frames or between rules. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 22. LR+ differences between DSM-XC intensity and frequency question framings.

Diagnosis	LR+ difference (median*)	P-value
Alcohol use disorder	-0.38	<0.01
Antisocial personality disorder	-0.58	0.01
Attention-deficit/hyperactivity disorder	-0.58	<0.01
Bipolar disorder	-1.45	<0.01
Generalized anxiety disorder	-1.09	<0.01
Major depressive disorder	-1.37	<0.01
Post-traumatic stress disorder	-1.47	<0.01
Social anxiety disorder	-0.76	<0.01

*Median of the differences between the two groups using paired Wilcoxon tests. Intensity was used as the reference group for the comparisons with frequency. Intensity and frequency represent how the instrument would perform if questions were asked with separate frames. A bold font indicates statistical significance in the comparison between frames or between rules. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 23. LR- differences between DSM-XC intensity and frequency question framings.

Diagnosis	LR- difference (median*)	P-value
Alcohol use disorder	-0.02	0.20
Antisocial personality disorder	0.02	0.60
Attention-deficit/hyperactivity disorder	-0.02	0.11
Bipolar disorder	0.04	0.31
Generalized anxiety disorder	-0.04	0.01
Major depressive disorder	-0.02	0.11
Post-traumatic stress disorder	-0.02	0.18
Social anxiety disorder	-0.05	<0.01

*Median of the differences between the two groups using paired Wilcoxon tests. Intensity was used as the reference group for the comparisons with frequency. Intensity and frequency represent how the instrument would perform if questions were asked with separate frames. A bold font indicates statistical significance in the comparison between frames or between rules. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 24. Sensitivity differences between DSM-XC OR rule and intensity/frequency question framings.

Diagnosis	Framing being compared to OR rule	Sensitivity difference (median*)	P-value
Alcohol use disorder	Intensity	0.05	<0.01
	Frequency	0.13	<0.01
Antisocial personality disorder	Intensity	0.08	0.01
	Frequency	0.10	<0.01
Attention-deficit/hyperactivity disorder	Intensity	0.04	<0.01
	Frequency	0.12	<0.01
Bipolar disorder	Intensity	0.07	<0.01
	Frequency	0.08	<0.01
Generalized anxiety disorder	Intensity	0.03	<0.01
	Frequency	0.12	<0.01
Major depressive disorder	Intensity	0.04	<0.01
	Frequency	0.09	<0.01
Post-traumatic stress disorder	Intensity	0.04	<0.01
	Frequency	0.09	<0.01
Social anxiety disorder	Intensity	0.04	<0.01
	Frequency	0.12	<0.01

*Median of the differences between the two groups using paired Wilcoxon tests. The OR rule was used as the reference group for the comparisons with intensity and frequency. “OR” rule represents original DSM-XC scoring instructions. Intensity and frequency represent how the instrument would perform if questions were asked with separate frames. A bold font indicates statistical significance in the comparison between frames. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 25. Specificity differences between DSM-XC OR rule and intensity/frequency question framings.

Diagnosis	Framing being compared to OR rule	Specificity difference (median*)	P-value
Alcohol use disorder	Intensity	-0.02	<0.01
	Frequency	-0.10	<0.01
Antisocial personality disorder	Intensity	-0.02	<0.01
	Frequency	-0.10	<0.01
Attention-deficit/hyperactivity disorder	Intensity	-0.03	<0.01
	Frequency	-0.10	<0.01
Bipolar disorder	Intensity	-0.02	<0.01
	Frequency	-0.10	<0.01
Generalized anxiety disorder	Intensity	-0.02	<0.01
	Frequency	-0.10	<0.01
Major depressive disorder	Intensity	-0.03	<0.01
	Frequency	-0.10	<0.01
Post-traumatic stress disorder	Intensity	-0.02	<0.01
	Frequency	-0.10	<0.01
Social anxiety disorder	Intensity	-0.02	<0.01
	Frequency	-0.10	<0.01

*Median of the differences between the two groups using paired Wilcoxon tests. The OR rule was used as the reference group for the comparisons with intensity and frequency. “OR” rule represents original DSM-XC scoring instructions. Intensity and frequency represent how the instrument would perform if questions were asked with separate frames. A bold font indicates statistical significance in the comparison between frames. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 26. LR+ differences between DSM-XC OR rule and intensity/frequency question framings.

Diagnosis	Framing being compared to OR rule	LR+ difference (median*)	P-value
Alcohol use disorder	Intensity	0.04	0.03
	Frequency	-0.33	<0.01
Antisocial personality disorder	Intensity	0.03	0.75
	Frequency	-0.55	<0.01
Attention-deficit/hyperactivity disorder	Intensity	-0.03	0.29
	Frequency	-0.60	<0.01
Bipolar disorder	Intensity	0.04	0.55
	Frequency	-1.48	<0.01
Generalized anxiety disorder	Intensity	-0.11	<0.01
	Frequency	-1.21	<0.01
Major depressive disorder	Intensity	-0.10	0.02
	Frequency	-1.47	<0.01
Post-traumatic stress disorder	Intensity	-0.12	<0.01
	Frequency	-1.54	<0.01
Social anxiety disorder	Intensity	-0.08	<0.01
	Frequency	-0.83	<0.01

*Median of the differences between the two groups using paired Wilcoxon tests. The OR rule was used as the reference group for the comparisons with intensity and frequency. “OR” rule represents original DSM-XC scoring instructions. Intensity and frequency represent how the instrument would perform if questions were asked with separate frames. A bold font indicates statistical significance in the comparison between frames. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 27. LR- differences between DSM-XC OR rule and intensity/frequency question framings.

Diagnosis	Framing being compared to OR rule	LR- difference (median*)	P-value
Alcohol use disorder	Intensity	-0.04	<0.01
	Frequency	-0.07	<0.01
Antisocial personality disorder	Intensity	-0.04	0.15
	Frequency	-0.02	0.29
Attention-deficit/hyperactivity disorder	Intensity	-0.03	<0.01
	Frequency	-0.06	<0.01
Bipolar disorder	Intensity	-0.07	0.01
	Frequency	-0.05	0.01
Generalized anxiety disorder	Intensity	-0.02	<0.01
	Frequency	-0.07	<0.01
Major depressive disorder	Intensity	-0.04	0.01
	Frequency	-0.05	<0.01
Post-traumatic stress disorder	Intensity	-0.04	0.01
	Frequency	-0.05	<0.01
Social anxiety disorder	Intensity	-0.02	0.01
	Frequency	-0.07	<0.01

*Median of the differences between the two groups using paired Wilcoxon tests. The OR rule was used as the reference group for the comparisons with intensity and frequency. “OR” rule represents original DSM-XC scoring instructions. Intensity and frequency represent how the instrument would perform if questions were asked with separate frames. A bold font indicates statistical significance in the comparison between frames. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 28. Odds ratios for different framing combinations of specific DSM-XC domains to detect corresponding disorders.

Domain and disorder	Odds ratio (95% CI)			
	Intensity (-) / Frequency (-) (reference group)	Intensity (-) / Frequency (+)	Intensity (+) / Frequency (-)	Intensity (+) / Frequency (+)
Depression domain to detect MDD	0.00 (0.00 - 0.01)	37.25* (11.09 - 125.15)	4.34* (1.45 - 12.98)	68.57* (27.68 - 169.84)
Mania domain to detect BD	0.03 (0.02 - 0.04)	5.23* (2.36 - 11.56)	2.23 (0.98 - 5.07)	8.25* (4.48 - 15.16)
Anxiety domain to detect GAD	0.01 (0.01 - 0.02)	5.00* (2.71 - 9.21)	2.07* (1.35 - 3.18)	14.21* (10.36 - 19.51)
Anxiety domain to detect SAD	0.01 (0.00 - 0.01)	3.03* (1.14 - 8.05)	3.04* (1.78 - 5.21)	9.90* (6.38 - 15.36)
Personality functioning domain to detect APD	0.01 (0.01 - 0.01)	4.95* (1.40 - 17.48)	2.00 (0.66 - 6.12)	4.59* (2.20 - 9.55)
Substance use domain to detect AUD	0.02 (0.01 - 0.02)	6.92* (3.86 - 12.41)	0.84 (0.20 - 3.57)	8.98* (5.97 - 13.51)

Intensity (+) and (-) represents above- and below- threshold domains, respectively for the intensity framing. Frequency (+) and (-) represents above- and below- threshold domains, respectively for the frequency framing. MDD, major depressive disorder. BD, bipolar disorder. GAD, generalized anxiety disorder. SAD, social anxiety disorder. APD, antisocial personality disorder. AUD, alcohol use disorder. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure. *P-value <0.05 for the comparison with reference group, Intensity (-)/Frequency (-).

Supplementary table 29. Sensitivities and specificities of DSM-XC domains for alcohol use disorder.

Domain	Metric	Intensity	Frequency
I. Depression	Sensitivity	0.55 (0.48-0.62)	0.30 (0.24-0.37)
	Specificity	0.60 (0.59-0.62)	0.82 (0.81-0.83)
II. Anger	Sensitivity	0.46 (0.39-0.53)	0.29 (0.23-0.36)
	Specificity	0.72 (0.70-0.73)	0.85 (0.84-0.86)
III. Mania	Sensitivity	0.31 (0.25-0.38)	0.23 (0.18-0.29)
	Specificity	0.79 (0.77-0.80)	0.85 (0.83-0.86)
IV. Anxiety	Sensitivity	0.60 (0.53-0.67)	0.44 (0.37-0.51)
	Specificity	0.54 (0.52-0.56)	0.71 (0.69-0.72)
V. Somatic symptoms	Sensitivity	0.45 (0.38-0.52)	0.31 (0.25-0.38)
	Specificity	0.67 (0.65-0.69)	0.80 (0.78-0.81)
VI. Suicidal ideation	Sensitivity	0.14 (0.10-0.19)	0.12 (0.08-0.17)
	Specificity	0.92 (0.91-0.93)	0.95 (0.94-0.96)
VII. Psychosis	Sensitivity	0.27 (0.21-0.34)	0.26 (0.21-0.33)
	Specificity	0.88 (0.86-0.89)	0.91 (0.90-0.92)
VIII. Sleep problems	Sensitivity	0.43 (0.36-0.50)	0.32 (0.26-0.39)
	Specificity	0.79 (0.77-0.80)	0.85 (0.84-0.86)
IX. Memory	Sensitivity	0.25 (0.19-0.31)	0.15 (0.11-0.21)
	Specificity	0.86 (0.84-0.87)	0.92 (0.91-0.93)
X. Repetitive thoughts and behaviors	Sensitivity	0.32 (0.26-0.39)	0.25 (0.19-0.31)
	Specificity	0.83 (0.82-0.85)	0.90 (0.89-0.91)
XI. Dissociation	Sensitivity	0.25 (0.20-0.32)	0.22 (0.17-0.28)
	Specificity	0.86 (0.85-0.88)	0.92 (0.91-0.93)
XII. Personality functioning	Sensitivity	0.45 (0.38-0.52)	0.43 (0.36-0.50)
	Specificity	0.74 (0.73-0.76)	0.82 (0.80-0.83)
XIII. Substance use	Sensitivity	0.76 (0.70-0.82)	0.86 (0.80-0.90)
	Specificity	0.61 (0.59-0.63)	0.60 (0.58-0.61)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 30. Sensitivities and specificities of DSM-XC domains for antisocial personality disorder.

Domain	Metric	Intensity	Frequency
I. Depression	Sensitivity	0.58 (0.41-0.74)	0.33 (0.19-0.51)
	Specificity	0.60 (0.58-0.61)	0.82 (0.80-0.83)
II. Anger	Sensitivity	0.44 (0.28-0.62)	0.36 (0.21-0.54)
	Specificity	0.71 (0.69-0.72)	0.84 (0.83-0.86)
III. Mania	Sensitivity	0.39 (0.23-0.57)	0.22 (0.10-0.39)
	Specificity	0.78 (0.77-0.79)	0.84 (0.83-0.85)
IV. Anxiety	Sensitivity	0.69 (0.52-0.84)	0.47 (0.30-0.65)
	Specificity	0.53 (0.52-0.55)	0.70 (0.69-0.72)
V. Somatic symptoms	Sensitivity	0.42 (0.26-0.59)	0.44 (0.28-0.62)
	Specificity	0.66 (0.65-0.68)	0.79 (0.78-0.81)
VI. Suicidal ideation	Sensitivity	0.11 (0.03-0.26)	0.06 (0.01-0.19)
	Specificity	0.92 (0.91-0.93)	0.95 (0.94-0.96)
VII. Psychosis	Sensitivity	0.36 (0.21-0.54)	0.33 (0.19-0.51)
	Specificity	0.87 (0.86-0.88)	0.91 (0.90-0.92)
VIII. Sleep problems	Sensitivity	0.28 (0.14-0.45)	0.39 (0.23-0.57)
	Specificity	0.78 (0.76-0.79)	0.84 (0.83-0.85)
IX. Memory	Sensitivity	0.25 (0.12-0.42)	0.17 (0.06-0.33)
	Specificity	0.85 (0.84-0.86)	0.92 (0.91-0.93)
X. Repetitive thoughts and behaviors	Sensitivity	0.31 (0.16-0.48)	0.33 (0.19-0.51)
	Specificity	0.83 (0.81-0.84)	0.89 (0.88-0.90)
XI. Dissociation	Sensitivity	0.33 (0.19-0.51)	0.36 (0.21-0.54)
	Specificity	0.86 (0.85-0.87)	0.91 (0.90-0.92)
XII. Personality functioning	Sensitivity	0.53 (0.35-0.70)	0.50 (0.33-0.67)
	Specificity	0.73 (0.72-0.75)	0.80 (0.79-0.82)
XIII. Substance use	Sensitivity	0.69 (0.52-0.84)	0.81 (0.64-0.92)
	Specificity	0.59 (0.57-0.61)	0.57 (0.56-0.59)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 31. Sensitivities and specificities of DSM-XC domains for attention-deficit/hyperactivity disorder.

Domain	Metric	Intensity	Frequency
I. Depression	Sensitivity	0.67 (0.59-0.74)	0.49 (0.41-0.57)
	Specificity	0.61 (0.59-0.62)	0.83 (0.82-0.84)
II. Anger	Sensitivity	0.56 (0.48-0.63)	0.40 (0.33-0.48)
	Specificity	0.72 (0.70-0.73)	0.85 (0.84-0.87)
III. Mania	Sensitivity	0.35 (0.28-0.43)	0.30 (0.23-0.37)
	Specificity	0.79 (0.77-0.80)	0.85 (0.84-0.86)
IV. Anxiety	Sensitivity	0.70 (0.62-0.77)	0.60 (0.53-0.68)
	Specificity	0.54 (0.53-0.56)	0.71 (0.70-0.73)
V. Somatic symptoms	Sensitivity	0.54 (0.46-0.62)	0.38 (0.30-0.46)
	Specificity	0.67 (0.66-0.69)	0.80 (0.78-0.81)
VI. Suicidal ideation	Sensitivity	0.15 (0.10-0.22)	0.14 (0.09-0.20)
	Specificity	0.92 (0.91-0.93)	0.95 (0.94-0.96)
VII. Psychosis	Sensitivity	0.27 (0.20-0.35)	0.25 (0.19-0.33)
	Specificity	0.87 (0.86-0.89)	0.91 (0.90-0.92)
VIII. Sleep problems	Sensitivity	0.41 (0.34-0.49)	0.41 (0.33-0.49)
	Specificity	0.78 (0.77-0.80)	0.85 (0.84-0.86)
IX. Memory	Sensitivity	0.34 (0.27-0.42)	0.25 (0.18-0.32)
	Specificity	0.86 (0.85-0.87)	0.93 (0.92-0.93)
X. Repetitive thoughts and behaviors	Sensitivity	0.40 (0.33-0.48)	0.31 (0.24-0.39)
	Specificity	0.83 (0.82-0.85)	0.90 (0.89-0.91)
XI. Dissociation	Sensitivity	0.35 (0.27-0.42)	0.23 (0.17-0.31)
	Specificity	0.87 (0.86-0.88)	0.92 (0.91-0.93)
XII. Personality functioning	Sensitivity	0.47 (0.39-0.55)	0.40 (0.33-0.48)
	Specificity	0.74 (0.73-0.76)	0.81 (0.80-0.82)
XIII. Substance use	Sensitivity	0.50 (0.42-0.58)	0.54 (0.46-0.62)
	Specificity	0.59 (0.58-0.61)	0.58 (0.56-0.59)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 32. Sensitivities and specificities of DSM-XC domains for bipolar disorder.

Domain	Metric	Intensity	Frequency
I. Depression	Sensitivity	0.70 (0.57-0.81)	0.63 (0.50-0.75)
	Specificity	0.60 (0.58-0.62)	0.82 (0.81-0.83)
II. Anger	Sensitivity	0.70 (0.57-0.81)	0.68 (0.55-0.80)
	Specificity	0.71 (0.70-0.73)	0.85 (0.84-0.86)
III. Mania	Sensitivity	0.50 (0.37-0.63)	0.52 (0.38-0.65)
	Specificity	0.78 (0.77-0.80)	0.85 (0.84-0.86)
IV. Anxiety	Sensitivity	0.92 (0.82-0.97)	0.85 (0.73-0.93)
	Specificity	0.54 (0.52-0.56)	0.71 (0.69-0.72)
V. Somatic symptoms	Sensitivity	0.77 (0.64-0.87)	0.72 (0.59-0.83)
	Specificity	0.67 (0.65-0.69)	0.80 (0.79-0.81)
VI. Suicidal ideation	Sensitivity	0.30 (0.19-0.43)	0.32 (0.20-0.45)
	Specificity	0.92 (0.91-0.93)	0.95 (0.94-0.96)
VII. Psychosis	Sensitivity	0.53 (0.40-0.66)	0.52 (0.38-0.65)
	Specificity	0.87 (0.86-0.89)	0.91 (0.90-0.92)
VIII. Sleep problems	Sensitivity	0.48 (0.35-0.62)	0.50 (0.37-0.63)
	Specificity	0.78 (0.77-0.79)	0.85 (0.83-0.86)
IX. Memory	Sensitivity	0.40 (0.28-0.53)	0.35 (0.23-0.48)
	Specificity	0.86 (0.84-0.87)	0.92 (0.91-0.93)
X. Repetitive thoughts and behaviors	Sensitivity	0.67 (0.53-0.78)	0.58 (0.45-0.71)
	Specificity	0.83 (0.82-0.84)	0.90 (0.88-0.91)
XI. Dissociation	Sensitivity	0.48 (0.35-0.62)	0.50 (0.37-0.63)
	Specificity	0.86 (0.85-0.87)	0.92 (0.91-0.93)
XII. Personality functioning	Sensitivity	0.58 (0.45-0.71)	0.62 (0.48-0.74)
	Specificity	0.74 (0.72-0.75)	0.81 (0.80-0.82)
XIII. Substance use	Sensitivity	0.63 (0.50-0.75)	0.62 (0.48-0.74)
	Specificity	0.59 (0.58-0.61)	0.57 (0.56-0.59)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 33. Sensitivities and specificities of DSM-XC domains for generalized anxiety disorder.

Domain	Metric	Intensity	Frequency
I. Depression	Sensitivity	0.76 (0.72-0.81)	0.59 (0.54-0.64)
	Specificity	0.64 (0.62-0.65)	0.86 (0.85-0.87)
II. Anger	Sensitivity	0.67 (0.62-0.71)	0.53 (0.48-0.59)
	Specificity	0.75 (0.73-0.76)	0.89 (0.88-0.90)
III. Mania	Sensitivity	0.37 (0.32-0.42)	0.30 (0.25-0.35)
	Specificity	0.80 (0.78-0.81)	0.86 (0.85-0.87)
IV. Anxiety	Sensitivity	0.83 (0.79-0.87)	0.76 (0.72-0.81)
	Specificity	0.57 (0.56-0.59)	0.75 (0.74-0.77)
V. Somatic symptoms	Sensitivity	0.64 (0.59-0.69)	0.53 (0.48-0.58)
	Specificity	0.70 (0.68-0.71)	0.83 (0.81-0.84)
VI. Suicidal ideation	Sensitivity	0.19 (0.15-0.24)	0.18 (0.14-0.23)
	Specificity	0.93 (0.92-0.94)	0.96 (0.96-0.97)
VII. Psychosis	Sensitivity	0.26 (0.22-0.31)	0.26 (0.22-0.31)
	Specificity	0.88 (0.87-0.89)	0.92 (0.91-0.93)
VIII. Sleep problems	Sensitivity	0.52 (0.46-0.57)	0.43 (0.38-0.48)
	Specificity	0.81 (0.80-0.82)	0.87 (0.86-0.88)
IX. Memory	Sensitivity	0.36 (0.31-0.41)	0.25 (0.20-0.29)
	Specificity	0.88 (0.86-0.89)	0.94 (0.93-0.95)
X. Repetitive thoughts and behaviors	Sensitivity	0.47 (0.42-0.52)	0.36 (0.31-0.41)
	Specificity	0.86 (0.85-0.87)	0.92 (0.91-0.93)
XI. Dissociation	Sensitivity	0.37 (0.32-0.42)	0.30 (0.25-0.35)
	Specificity	0.88 (0.87-0.90)	0.94 (0.93-0.94)
XII. Personality functioning	Sensitivity	0.58 (0.53-0.63)	0.52 (0.47-0.58)
	Specificity	0.77 (0.75-0.78)	0.84 (0.83-0.85)
XIII. Substance use	Sensitivity	0.54 (0.49-0.60)	0.55 (0.50-0.60)
	Specificity	0.60 (0.59-0.62)	0.58 (0.57-0.60)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 34. Sensitivities and specificities of DSM-XC domains for major depressive disorder.

Domain	Metric	Intensity	Frequency
I. Depression	Sensitivity	0.90 (0.82-0.95)	0.87 (0.79-0.93)
	Specificity	0.61 (0.59-0.63)	0.83 (0.82-0.85)
II. Anger	Sensitivity	0.70 (0.61-0.79)	0.64 (0.54-0.73)
	Specificity	0.72 (0.70-0.73)	0.86 (0.84-0.87)
III. Mania	Sensitivity	0.38 (0.29-0.48)	0.31 (0.23-0.41)
	Specificity	0.78 (0.77-0.80)	0.85 (0.83-0.86)
IV. Anxiety	Sensitivity	0.90 (0.83-0.95)	0.88 (0.80-0.93)
	Specificity	0.54 (0.53-0.56)	0.72 (0.70-0.73)
V. Somatic symptoms	Sensitivity	0.73 (0.64-0.81)	0.63 (0.53-0.72)
	Specificity	0.67 (0.66-0.69)	0.80 (0.79-0.82)
VI. Suicidal ideation	Sensitivity	0.35 (0.26-0.45)	0.34 (0.25-0.44)
	Specificity	0.92 (0.92-0.93)	0.96 (0.95-0.96)
VII. Psychosis	Sensitivity	0.33 (0.24-0.43)	0.31 (0.23-0.41)
	Specificity	0.87 (0.86-0.88)	0.91 (0.90-0.92)
VIII. Sleep problems	Sensitivity	0.67 (0.57-0.76)	0.57 (0.47-0.67)
	Specificity	0.79 (0.77-0.80)	0.85 (0.84-0.86)
IX. Memory	Sensitivity	0.34 (0.25-0.44)	0.31 (0.23-0.41)
	Specificity	0.86 (0.84-0.87)	0.93 (0.92-0.93)
X. Repetitive thoughts and behaviors	Sensitivity	0.61 (0.51-0.70)	0.52 (0.42-0.62)
	Specificity	0.84 (0.82-0.85)	0.90 (0.89-0.91)
XI. Dissociation	Sensitivity	0.54 (0.44-0.64)	0.48 (0.38-0.58)
	Specificity	0.87 (0.86-0.88)	0.92 (0.91-0.93)
XII. Personality functioning	Sensitivity	0.82 (0.73-0.89)	0.80 (0.71-0.87)
	Specificity	0.75 (0.73-0.76)	0.82 (0.81-0.83)
XIII. Substance use	Sensitivity	0.60 (0.50-0.69)	0.60 (0.05-0.69)
	Specificity	0.59 (0.58-0.61)	0.58 (0.56-0.59)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 35. Sensitivities and specificities of DSM-XC domains for post-traumatic stress disorder.

Domain	Metric	Intensity	Frequency
I. Depression	Sensitivity	0.74 (0.67-0.81)	0.65 (0.57-0.73)
	Specificity	0.61 (0.59-0.63)	0.84 (0.82-0.85)
II. Anger	Sensitivity	0.67 (0.59-0.74)	0.57 (0.49-0.65)
	Specificity	0.72 (0.71-0.74)	0.86 (0.85-0.87)
III. Mania	Sensitivity	0.45 (0.37-0.53)	0.41 (0.33-0.49)
	Specificity	0.79 (0.78-0.80)	0.85 (0.84-0.87)
IV. Anxiety	Sensitivity	0.90 (0.85-0.94)	0.83 (0.76-0.89)
	Specificity	0.55 (0.53-0.57)	0.72 (0.71-0.74)
V. Somatic symptoms	Sensitivity	0.71 (0.63-0.78)	0.63 (0.55-0.71)
	Specificity	0.68 (0.66-0.70)	0.81 (0.80-0.82)
VI. Suicidal ideation	Sensitivity	0.26 (0.20-0.34)	0.24 (0.17-0.31)
	Specificity	0.92 (0.92-0.93)	0.96 (0.95-0.96)
VII. Psychosis	Sensitivity	0.39 (0.31-0.47)	0.39 (0.31-0.47)
	Specificity	0.88 (0.87-0.89)	0.92 (0.91-0.93)
VIII. Sleep problems	Sensitivity	0.59 (0.51-0.67)	0.59 (0.51-0.67)
	Specificity	0.79 (0.78-0.80)	0.86 (0.85-0.87)
IX. Memory	Sensitivity	0.43 (0.35-0.51)	0.37 (0.29-0.45)
	Specificity	0.86 (0.85-0.87)	0.93 (0.92-0.94)
X. Repetitive thoughts and behaviors	Sensitivity	0.65 (0.57-0.73)	0.54 (0.46-0.62)
	Specificity	0.85 (0.83-0.86)	0.91 (0.90-0.92)
XI. Dissociation	Sensitivity	0.47 (0.39-0.55)	0.42 (0.34-0.50)
	Specificity	0.87 (0.86-0.88)	0.93 (0.92-0.93)
XII. Personality functioning	Sensitivity	0.69 (0.61-0.76)	0.68 (0.60-0.75)
	Specificity	0.75 (0.74-0.77)	0.82 (0.81-0.84)
XIII. Substance use	Sensitivity	0.63 (0.54-0.70)	0.62 (0.54-0.70)
	Specificity	0.60 (0.58-0.61)	0.58 (0.56-0.60)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 36. Sensitivities and specificities of DSM-XC domains for social anxiety disorder.

Domain	Metric	Intensity	Frequency
I. Depression	Sensitivity	0.74 (0.66-0.80)	0.53 (0.45-0.60)
	Specificity	0.61 (0.59-0.63)	0.83 (0.82-0.84)
II. Anger	Sensitivity	0.57 (0.50-0.65)	0.42 (0.35-0.50)
	Specificity	0.72 (0.70-0.73)	0.86 (0.84-0.87)
III. Mania	Sensitivity	0.40 (0.33-0.48)	0.29 (0.23-0.36)
	Specificity	0.79 (0.78-0.80)	0.85 (0.84-0.86)
IV. Anxiety	Sensitivity	0.83 (0.77-0.88)	0.69 (0.62-0.76)
	Specificity	0.55 (0.53-0.57)	0.72 (0.70-0.73)
V. Somatic symptoms	Sensitivity	0.57 (0.49-0.64)	0.46 (0.39-0.54)
	Specificity	0.68 (0.66-0.69)	0.80 (0.79-0.82)
VI. Suicidal ideation	Sensitivity	0.24 (0.18-0.31)	0.21 (0.15-0.27)
	Specificity	0.92 (0.92-0.93)	0.96 (0.95-0.96)
VII. Psychosis	Sensitivity	0.30 (0.23-0.37)	0.28 (0.21-0.35)
	Specificity	0.88 (0.86-0.89)	0.91 (0.90-0.92)
VIII. Sleep problems	Sensitivity	0.51 (0.44-0.59)	0.44 (0.37-0.52)
	Specificity	0.79 (0.78-0.80)	0.86 (0.84-0.87)
IX. Memory	Sensitivity	0.39 (0.32-0.46)	0.28 (0.21-0.35)
	Specificity	0.86 (0.85-0.87)	0.93 (0.92-0.94)
X. Repetitive thoughts and behaviors	Sensitivity	0.43 (0.36-0.51)	0.35 (0.28-0.42)
	Specificity	0.84 (0.82-0.85)	0.90 (0.89-0.91)
XI. Dissociation	Sensitivity	0.35 (0.28-0.43)	0.30 (0.23-0.37)
	Specificity	0.87 (0.86-0.88)	0.92 (0.91-0.93)
XII. Personality functioning	Sensitivity	0.58 (0.51-0.66)	0.50 (0.42-0.58)
	Specificity	0.75 (0.73-0.76)	0.82 (0.80-0.83)
XIII. Substance use	Sensitivity	0.55 (0.47-0.63)	0.55 (0.47-0.63)
	Specificity	0.60 (0.58-0.61)	0.58 (0.56-0.59)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 37. Positive likelihood ratios of DSM-XC domains for alcohol use disorder.

Domain	Intensity	Frequency
I. Depression	1.38 (1.21-1.57)	1.70 (1.36-2.11)
II. Anger	1.62 (1.39-1.89)	1.96 (1.57-2.46)
III. Mania	1.45 (1.18-1.80)	1.51 (1.16-1.96)
IV. Anxiety	1.30 (1.16-1.47)	1.50 (1.27-1.76)
V. Somatic symptoms	1.35 (1.16-1.59)	1.51 (1.22-1.87)
VI. Suicidal ideation	1.74 (1.22-2.49)	2.52 (1.69-3.74)
VII. Psychosis	2.21 (1.74-2.81)	3.08 (2.40-3.97)
VIII. Sleep problems	2.01 (1.70-2.39)	2.16 (1.74-2.67)
IX. Memory	1.71 (1.33-2.20)	1.99 (1.41-2.79)
X. Repetitive thoughts and behaviors	1.93 (1.56-2.39)	2.40 (1.86-3.10)
XI. Dissociation	1.88 (1.47-2.41)	2.72 (2.06-3.60)
XII. Personality functioning	1.74 (1.48-2.05)	2.33 (1.96-2.76)
XIII. Substance use	1.96 (1.80-2.14)	2.12 (1.98-2.27)
DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.		

Supplementary table 38. Positive likelihood ratios of DSM-XC domains for antisocial personality disorder.

Domain	Intensity	Frequency
I. Depression	1.44 (1.09-1.91)	1.81 (1.13-2.88)
II. Anger	1.51 (1.05-2.19)	2.32 (1.49-3.61)
III. Mania	1.78 (1.17-2.69)	1.42 (0.76-2.62)
IV. Anxiety	1.49 (1.20-1.85)	1.58 (1.11-2.24)
V. Somatic symptoms	1.24 (0.84-1.83)	2.14 (1.48-3.10)
VI. Suicidal ideation	1.33 (0.53-3.38)	1.07 (0.28-4.14)
VII. Psychosis	2.77 (1.78-4.32)	3.56 (2.22-5.71)
VIII. Sleep problems	1.24 (0.73-2.10)	2.48 (1.63-3.76)
IX. Memory	1.69 (0.95-2.99)	2.06 (0.98-4.31)
X. Repetitive thoughts and behaviors	1.75 (1.06-2.88)	3.02 (1.88-4.84)
XI. Dissociation	2.37 (1.48-3.79)	4.17 (2.66-6.52)
XII. Personality functioning	1.99 (1.45-2.72)	2.56 (1.84-3.58)
XIII. Substance use	1.70 (1.36-2.12)	1.89 (1.60-2.23)
DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.		

Supplementary table 39. Positive likelihood ratios of DSM-XC domains for attention-deficit/hyperactivity disorder.

Domain	Intensity	Frequency
I. Depression	1.69 (1.51-1.90)	2.84 (2.39-3.38)
II. Anger	1.96 (1.69-2.28)	2.75 (2.24-3.37)
III. Mania	1.64 (1.32-2.04)	1.96 (1.53-2.52)
IV. Anxiety	1.52 (1.37-1.70)	2.11 (1.85-2.42)
V. Somatic symptoms	1.64 (1.41-1.91)	1.86 (1.51-2.30)
VI. Suicidal ideation	1.92 (1.32-2.81)	2.83 (1.87-4.29)
VII. Psychosis	2.16 (1.65-2.82)	2.85 (2.14-3.80)
VIII. Sleep problems	1.91 (1.58-2.32)	2.76 (2.26-3.38)
IX. Memory	2.42 (1.92-3.05)	3.33 (2.48-4.47)
X. Repetitive thoughts and behaviors	2.43 (1.98-2.98)	2.99 (2.32-3.84)
XI. Dissociation	2.60 (2.07-3.27)	2.84 (2.11-3.83)
XII. Personality functioning	1.82 (1.53-2.16)	2.13 (1.74-2.60)
XIII. Substance use	1.23 (1.05-1.44)	1.27 (1.09-1.47)
DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.		

Supplementary table 40. Positive likelihood ratios of DSM-XC domains for bipolar disorder.

Domain	Intensity	Frequency
I. Depression	1.75 (1.47-2.07)	3.55 (2.89-4.36)
II. Anger	2.43 (2.04-2.89)	4.60 (3.80-5.56)
III. Mania	2.32 (1.79-3.01)	3.41 (2.64-4.41)
IV. Anxiety	1.99 (1.83-2.16)	2.92 (2.59-3.28)
V. Somatic symptoms	2.33 (2.01-2.69)	3.56 (3.00-4.23)
VI. Suicidal ideation	3.76 (2.51-5.62)	6.67 (4.47-9.95)
VII. Psychosis	4.24 (3.30-5.46)	5.81 (4.45-7.58)
VIII. Sleep problems	2.19 (1.67-2.87)	3.26 (2.50-4.24)
IX. Memory	2.76 (2.00-3.80)	4.53 (3.15-6.51)
X. Repetitive thoughts and behaviors	3.98 (3.28-4.83)	5.58 (4.41-7.05)
XI. Dissociation	3.54 (2.69-4.65)	6.07 (4.60-7.99)
XII. Personality functioning	2.22 (1.78-2.77)	3.23 (2.61-3.99)
XIII. Substance use	1.55 (1.27-1.89)	1.45 (1.18-1.77)
DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.		

Supplementary table 41. Positive likelihood ratios of DSM-XC domains for generalized anxiety disorder.

Domain	Intensity	Frequency
I. Depression	2.10 (1.96-2.26)	4.30 (3.81-4.85)
II. Anger	2.65 (2.42-2.91)	4.72 (4.13-5.41)
III. Mania	1.83 (1.57-2.12)	2.12 (1.78-2.53)
IV. Anxiety	1.95 (1.84-2.07)	3.11 (2.86-3.38)
V. Somatic symptoms	2.14 (1.95-2.34)	3.07 (2.72-3.47)
VI. Suicidal ideation	2.73 (2.15-3.48)	4.99 (3.78-6.59)
VII. Psychosis	2.26 (1.87-2.75)	3.37 (2.74-4.15)
VIII. Sleep problems	2.71 (2.40-3.05)	3.39 (2.93-3.93)
IX. Memory	2.86 (2.43-3.37)	3.94 (3.15-4.91)
X. Repetitive thoughts and behaviors	3.34 (2.91-3.83)	4.26 (3.57-5.09)
XI. Dissociation	3.23 (2.75-3.80)	4.62 (3.77-5.66)
XII. Personality functioning	2.49 (2.24-2.78)	3.28 (2.90-3.72)
XIII. Substance use	1.38 (1.24-1.52)	1.33 (1.21-1.47)
DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.		

Supplementary table 42. Positive likelihood ratios of DSM-XC domains for major depressive disorder.

Domain	Intensity	Frequency
I. Depression	2.29 (2.12-2.47)	5.24 (4.72-5.83)
II. Anger	2.49 (2.18-2.85)	4.46 (3.78-5.26)
III. Mania	1.77 (1.37-2.27)	2.06 (1.53-2.76)
IV. Anxiety	1.99 (1.85-2.13)	3.09 (2.83-3.38)
V. Somatic symptoms	2.26 (1.99-2.56)	3.19 (2.71-3.75)
VI. Suicidal ideation	4.67 (3.52-6.21)	7.94 (5.84-10.8)
VII. Psychosis	2.64 (1.98-3.50)	3.51 (2.60-4.75)
VIII. Sleep problems	3.15 (2.71-3.66)	3.89 (3.24-4.68)
IX. Memory	2.39 (1.81-3.15)	4.20 (3.09-5.70)
X. Repetitive thoughts and behaviors	3.75 (3.16-4.44)	5.23 (4.25-6.44)
XI. Dissociation	4.16 (3.42-5.06)	6.13 (4.86-7.72)
XII. Personality functioning	3.26 (2.93-3.63)	4.45 (3.95-5.01)
XIII. Substance use	1.48 (1.26-1.74)	1.41 (1.20-1.66)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 43. Positive likelihood ratios of DSM-XC domains for post-traumatic stress disorder.

Domain	Intensity	Frequency
I. Depression	1.90 (1.72-2.10)	3.95 (3.45-4.54)
II. Anger	2.41 (2.13-2.73)	4.08 (3.48-4.79)
III. Mania	2.15 (1.79-2.59)	2.83 (2.30-3.47)
IV. Anxiety	2.01 (1.89-2.14)	3.01 (2.75-3.29)
V. Somatic symptoms	2.22 (1.98-2.48)	3.31 (2.89-3.81)
VI. Suicidal ideation	3.51 (2.63-4.68)	5.48 (3.97-7.57)
VII. Psychosis	3.20 (2.57-3.98)	4.67 (3.72-5.86)
VIII. Sleep problems	2.81 (2.43-3.26)	4.20 (3.59-4.90)
IX. Memory	3.17 (2.60-3.87)	5.33 (4.19-6.78)
X. Repetitive thoughts and behaviors	4.22 (3.68-4.86)	5.82 (4.86-6.95)
XI. Dissociation	3.69 (3.06-4.45)	5.63 (4.52-7.01)
XII. Personality functioning	2.78 (2.46-3.13)	3.84 (3.37-4.37)
XIII. Substance use	1.56 (1.37-1.77)	1.47 (1.29-1.67)
DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.		

Supplementary table 44. Positive likelihood ratios of DSM-XC domains for social anxiety disorder.

Domain	Intensity	Frequency
I. Depression	1.89 (1.72-2.09)	3.14 (2.69-3.68)
II. Anger	2.04 (1.78-2.34)	2.93 (2.42-3.55)
III. Mania	1.92 (1.59-2.32)	1.94 (1.52-2.47)
IV. Anxiety	1.85 (1.71-1.99)	2.47 (2.20-2.76)
V. Somatic symptoms	1.75 (1.52-2.00)	2.34 (1.97-2.78)
VI. Suicidal ideation	3.21 (2.41-4.27)	4.74 (3.42-6.58)
VII. Psychosis	2.40 (1.89-3.07)	3.17 (2.44-4.12)
VIII. Sleep problems	2.43 (2.08-2.85)	3.07 (2.56-3.69)
IX. Memory	2.83 (2.31-3.47)	3.84 (2.94-5.01)
X. Repetitive thoughts and behaviors	2.66 (2.21-3.21)	3.47 (2.77-4.35)
XI. Dissociation	2.69 (2.17-3.34)	3.79 (2.94-4.88)
XII. Personality functioning	2.33 (2.03-2.67)	2.74 (2.33-3.23)
XIII. Substance use	1.36 (1.18-1.56)	1.30 (1.13-1.49)
DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.		

Supplementary table 45. Negative likelihood ratios of DSM-XC domains for alcohol use disorder.

Domain	Intensity	Frequency
I. Depression	0.75 (0.64-0.87)	0.85 (0.77-0.93)
II. Anger	0.75 (0.66-0.86)	0.83 (0.76-0.91)
III. Mania	0.88 (0.80-0.96)	0.91 (0.84-0.98)
IV. Anxiety	0.74 (0.62-0.88)	0.79 (0.70-0.90)
V. Somatic symptoms	0.83 (0.73-0.93)	0.87 (0.79-0.95)
VI. Suicidal ideation	0.94 (0.88-0.99)	0.92 (0.88-0.97)
VII. Psychosis	0.83 (0.76-0.90)	0.80 (0.74-0.87)
VIII. Sleep problems	0.73 (0.65-0.82)	0.80 (0.72-0.88)
IX. Memory	0.88 (0.81-0.95)	0.92 (0.86-0.97)
X. Repetitive thoughts and behaviors	0.81 (0.74-0.89)	0.84 (0.77-0.91)
XI. Dissociation	0.86 (0.80-0.93)	0.85 (0.79-0.91)
XII. Personality functioning	0.74 (0.66-0.84)	0.70 (0.62-0.79)
XIII. Substance use	0.39 (0.30-0.49)	0.24 (0.17-0.34)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 46. Negative likelihood ratios of DSM-XC domains for antisocial personality disorder.

Domain	Intensity	Frequency
I. Depression	0.70 (0.47-1.03)	0.82 (0.65-1.03)
II. Anger	0.79 (0.59-1.05)	0.76 (0.59-0.97)
III. Mania	0.78 (0.60-1.02)	0.92 (0.77-1.10)
IV. Anxiety	0.57 (0.35-0.94)	0.75 (0.55-1.03)
V. Somatic symptoms	0.88 (0.67-1.16)	0.70 (0.52-0.94)
VI. Suicidal ideation	0.97 (0.86-1.09)	1.00 (0.92-1.08)
VII. Psychosis	0.73 (0.57-0.94)	0.74 (0.58-0.93)
VIII. Sleep problems	0.93 (0.76-1.14)	0.72 (0.56-0.94)
IX. Memory	0.88 (0.73-1.06)	0.91 (0.78-1.05)
X. Repetitive thoughts and behaviors	0.84 (0.68-1.05)	0.75 (0.59-0.94)
XI. Dissociation	0.78 (0.62-0.98)	0.70 (0.55-0.89)
XII. Personality functioning	0.64 (0.45-0.91)	0.62 (0.45-0.86)
XIII. Substance use	0.52 (0.32-0.85)	0.34 (0.17-0.66)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 47. Negative likelihood ratios of DSM-XC domains for attention-deficit/hyperactivity disorder.

Domain	Intensity	Frequency
I. Depression	0.55 (0.44-0.68)	0.62 (0.53-0.72)
II. Anger	0.62 (0.52-0.74)	0.70 (0.62-0.80)
III. Mania	0.82 (0.74-0.93)	0.83 (0.75-0.92)
IV. Anxiety	0.56 (0.44-0.71)	0.55 (0.46-0.67)
V. Somatic symptoms	0.69 (0.58-0.81)	0.78 (0.69-0.88)
VI. Suicidal ideation	0.92 (0.86-0.98)	0.91 (0.85-0.97)
VII. Psychosis	0.83 (0.76-0.92)	0.82 (0.75-0.90)
VIII. Sleep problems	0.75 (0.66-0.85)	0.70 (0.61-0.79)
IX. Memory	0.77 (0.69-0.86)	0.81 (0.74-0.89)
X. Repetitive thoughts and behaviors	0.72 (0.63-0.81)	0.77 (0.70-0.86)
XI. Dissociation	0.75 (0.67-0.84)	0.83 (0.77-0.91)
XII. Personality functioning	0.72 (0.62-0.83)	0.74 (0.65-0.84)
XIII. Substance use	0.84 (0.72-0.99)	0.80 (0.68-0.95)
DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.		

Supplementary table 48. Negative likelihood ratios of DSM-XC domains for bipolar disorder.

Domain	Intensity	Frequency
I. Depression	0.50 (0.34-0.74)	0.45 (0.32-0.62)
II. Anger	0.42 (0.29-0.62)	0.37 (0.26-0.54)
III. Mania	0.64 (0.49-0.82)	0.57 (0.44-0.74)
IV. Anxiety	0.15 (0.07-0.36)	0.21 (0.12-0.39)
V. Somatic symptoms	0.35 (0.22-0.55)	0.35 (0.24-0.53)
VI. Suicidal ideation	0.76 (0.64-0.90)	0.72 (0.60-0.85)
VII. Psychosis	0.53 (0.41-0.70)	0.53 (0.41-0.69)
VIII. Sleep problems	0.66 (0.52-0.85)	0.59 (0.46-0.76)
IX. Memory	0.70 (0.57-0.86)	0.70 (0.58-0.85)
X. Repetitive thoughts and behaviors	0.40 (0.28-0.57)	0.47 (0.34-0.63)
XI. Dissociation	0.60 (0.47-0.76)	0.54 (0.42-0.70)
XII. Personality functioning	0.56 (0.42-0.76)	0.47 (0.34-0.65)
XIII. Substance use	0.62 (0.44-0.86)	0.67 (0.48-0.92)
DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.		

Supplementary table 49. Negative likelihood ratios of DSM-XC domains for generalized anxiety disorder.

Domain	Intensity	Frequency
I. Depression	0.37 (0.31-0.44)	0.47 (0.42-0.53)
II. Anger	0.45 (0.39-0.51)	0.52 (0.47-0.59)
III. Mania	0.79 (0.73-0.85)	0.82 (0.76-0.87)
IV. Anxiety	0.29 (0.24-0.37)	0.31 (0.26-0.37)
V. Somatic symptoms	0.51 (0.45-0.59)	0.57 (0.51-0.63)
VI. Suicidal ideation	0.87 (0.83-0.91)	0.85 (0.81-0.89)
VII. Psychosis	0.83 (0.78-0.89)	0.80 (0.76-0.85)
VIII. Sleep problems	0.60 (0.54-0.66)	0.65 (0.60-0.71)
IX. Memory	0.73 (0.68-0.79)	0.80 (0.76-0.85)
X. Repetitive thoughts and behaviors	0.62 (0.56-0.68)	0.70 (0.65-0.76)
XI. Dissociation	0.71 (0.66-0.77)	0.75 (0.70-0.80)
XII. Personality functioning	0.55 (0.49-0.62)	0.57 (0.51-0.63)
XIII. Substance use	0.75 (0.67-0.84)	0.76 (0.68-0.86)
DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.		

Supplementary table 50. Negative likelihood ratios of DSM-XC domains for major depressive disorder.

Domain	Intensity	Frequency
I. Depression	0.17 (0.10-0.30)	0.16 (0.10-0.26)
II. Anger	0.41 (0.31-0.55)	0.42 (0.33-0.54)
III. Mania	0.79 (0.68-0.92)	0.81 (0.71-0.92)
IV. Anxiety	0.17 (0.10-0.32)	0.17 (0.10-0.29)
V. Somatic symptoms	0.40 (0.29-0.54)	0.46 (0.36-0.59)
VI. Suicidal ideation	0.70 (0.61-0.81)	0.69 (0.60-0.79)
VII. Psychosis	0.76 (0.67-0.87)	0.75 (0.66-0.86)
VIII. Sleep problems	0.42 (0.32-0.55)	0.50 (0.40-0.63)
IX. Memory	0.77 (0.67-0.88)	0.74 (0.65-0.84)
X. Repetitive thoughts and behaviors	0.47 (0.37-0.59)	0.53 (0.43-0.65)
XI. Dissociation	0.53 (0.43-0.65)	0.57 (0.47-0.68)
XII. Personality functioning	0.24 (0.16-0.36)	0.24 (0.17-0.36)
XIII. Substance use	0.67 (0.53-0.85)	0.69 (0.55-0.88)
DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.		

Supplementary table 51. Negative likelihood ratios of DSM-XC domains for post-traumatic stress disorder.

Domain	Intensity	Frequency
I. Depression	0.42 (0.32-0.55)	0.42 (0.34-0.52)
II. Anger	0.46 (0.36-0.57)	0.50 (0.42-0.60)
III. Mania	0.69 (0.60-0.80)	0.69 (0.60-0.79)
IV. Anxiety	0.18 (0.11-0.28)	0.23 (0.16-0.33)
V. Somatic symptoms	0.43 (0.33-0.55)	0.45 (0.37-0.56)
VI. Suicidal ideation	0.80 (0.72-0.87)	0.80 (0.73-0.87)
VII. Psychosis	0.70 (0.61-0.79)	0.67 (0.59-0.76)
VIII. Sleep problems	0.52 (0.43-0.63)	0.48 (0.40-0.58)
IX. Memory	0.66 (0.57-0.75)	0.68 (0.60-0.77)
X. Repetitive thoughts and behaviors	0.41 (0.33-0.51)	0.51 (0.43-0.60)
XI. Dissociation	0.61 (0.52-0.70)	0.63 (0.55-0.72)
XII. Personality functioning	0.41 (0.33-0.52)	0.39 (0.31-0.49)
XIII. Substance use	0.63 (0.51-0.77)	0.66 (0.54-0.81)
DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.		

Supplementary table 52. Negative likelihood ratios of DSM-XC domains for social anxiety disorder.

Domain	Intensity	Frequency
I. Depression	0.43 (0.34-0.55)	0.57 (0.49-0.66)
II. Anger	0.59 (0.50-0.70)	0.68 (0.60-0.77)
III. Mania	0.75 (0.67-0.85)	0.83 (0.76-0.92)
IV. Anxiety	0.31 (0.22-0.43)	0.43 (0.34-0.54)
V. Somatic symptoms	0.64 (0.54-0.76)	0.67 (0.59-0.77)
VI. Suicidal ideation	0.82 (0.75-0.89)	0.83 (0.77-0.89)
VII. Psychosis	0.80 (0.73-0.88)	0.79 (0.72-0.87)
VIII. Sleep problems	0.62 (0.53-0.72)	0.65 (0.57-0.74)
IX. Memory	0.71 (0.63-0.80)	0.78 (0.71-0.86)
X. Repetitive thoughts and behaviors	0.68 (0.60-0.77)	0.72 (0.65-0.81)
XI. Dissociation	0.74 (0.67-0.83)	0.76 (0.69-0.84)
XII. Personality functioning	0.56 (0.47-0.66)	0.61 (0.53-0.71)
XIII. Substance use	0.75 (0.64-0.89)	0.78 (0.66-0.92)
DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.		

Supplementary table 53. Sensitivities and specificities of DSM-XC domains for antisocial personality disorder, after removing the clinical impairment criteria.

Domain	Metric	Intensity	Frequency	“OR”
I. Depression	Sensitivity	0.62 (0.48-0.75)	0.34 (0.22-0.48)	0.64 (0.50-0.77)
	Specificity	0.60 (0.58-0.61)	0.82 (0.80-0.83)	0.58 (0.56-0.59)
II. Anger	Sensitivity	0.42 (0.28-0.56)	0.30 (0.18-0.44)	0.42 (0.28-0.56)
	Specificity	0.71 (0.69-0.72)	0.84 (0.83-0.86)	0.68 (0.67-0.70)
III. Mania	Sensitivity	0.36 (0.23-0.50)	0.21 (0.11-0.34)	0.40 (0.26-0.54)
	Specificity	0.78 (0.77-0.80)	0.84 (0.83-0.85)	0.72 (0.71-0.74)
IV. Anxiety	Sensitivity	0.66 (0.52-0.78)	0.47 (0.33-0.61)	0.68 (0.54-0.80)
	Specificity	0.53 (0.52-0.55)	0.70 (0.69-0.72)	0.50 (0.48-0.52)
V. Somatic symptoms	Sensitivity	0.38 (0.25-0.52)	0.40 (0.26-0.54)	0.45 (0.32-0.60)
	Specificity	0.66 (0.65-0.68)	0.79 (0.78-0.81)	0.64 (0.62-0.66)
VI. Suicidal ideation	Sensitivity	0.11 (0.04-0.23)	0.08 (0.02-0.18)	0.11 (0.04-0.23)
	Specificity	0.92 (0.91-0.93)	0.95 (0.94-0.96)	0.91 (0.90-0.92)
VII. Psychosis	Sensitivity	0.40 (0.26-0.54)	0.38 (0.25-0.52)	0.42 (0.28-0.56)
	Specificity	0.87 (0.86-0.88)	0.91 (0.90-0.92)	0.86 (0.85-0.88)
VIII. Sleep problems	Sensitivity	0.34 (0.22-0.48)	0.40 (0.26-0.54)	0.42 (0.28-0.56)
	Specificity	0.78 (0.76-0.79)	0.84 (0.83-0.86)	0.75 (0.74-0.77)
IX. Memory	Sensitivity	0.23 (0.12-0.36)	0.21 (0.11-0.34)	0.28 (0.17-0.42)
	Specificity	0.85 (0.84-0.86)	0.92 (0.91-0.93)	0.84 (0.82-0.85)
X. Repetitive thoughts and behaviors	Sensitivity	0.32 (0.20-0.46)	0.30 (0.18-0.44)	0.40 (0.26-0.54)
	Specificity	0.83 (0.81-0.84)	0.89 (0.88-0.90)	0.81 (0.79-0.82)
XI. Dissociation	Sensitivity	0.28 (0.17-0.42)	0.32 (0.20-0.46)	0.36 (0.23-0.50)
	Specificity	0.86 (0.85-0.87)	0.91 (0.90-0.92)	0.84 (0.83-0.85)
XII. Personality functioning	Sensitivity	0.57 (0.42-0.70)	0.53 (0.39-0.67)	0.64 (0.50-0.77)
	Specificity	0.74 (0.72-0.75)	0.81 (0.79-0.82)	0.71 (0.69-0.72)
XIII. Substance use	Sensitivity	0.72 (0.58-0.83)	0.79 (0.66-0.89)	0.79 (0.66-0.89)
	Specificity	0.59 (0.58-0.61)	0.58 (0.56-0.59)	0.53 (0.51-0.55)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 54. Sensitivities and specificities of DSM-XC domains for attention-deficit/hyperactivity disorder, after removing the clinical impairment criteria.

Domain	Metric	Intensity	Frequency	“OR”
I. Depression	Sensitivity	0.57 (0.51-0.63)	0.38 (0.32-0.44)	0.59 (0.53-0.65)
	Specificity	0.61 (0.59-0.62)	0.83 (0.82-0.84)	0.59 (0.57-0.60)
II. Anger	Sensitivity	0.47 (0.41-0.54)	0.32 (0.26-0.38)	0.50 (0.44-0.57)
	Specificity	0.72 (0.70-0.73)	0.86 (0.84-0.87)	0.70 (0.68-0.71)
III. Mania	Sensitivity	0.34 (0.28-0.40)	0.29 (0.24-0.35)	0.43 (0.37-0.49)
	Specificity	0.79 (0.77-0.80)	0.85 (0.84-0.87)	0.73 (0.71-0.75)
IV. Anxiety	Sensitivity	0.63 (0.56-0.68)	0.55 (0.49-0.61)	0.67 (0.61-0.73)
	Specificity	0.54 (0.53-0.56)	0.72 (0.70-0.73)	0.51 (0.49-0.53)
V. Somatic symptoms	Sensitivity	0.50 (0.43-0.56)	0.34 (0.29-0.40)	0.51 (0.45-0.57)
	Specificity	0.68 (0.66-0.69)	0.80 (0.79-0.81)	0.65 (0.63-0.67)
VI. Suicidal ideation	Sensitivity	0.12 (0.08-0.16)	0.10 (0.06-0.14)	0.14 (0.10-0.19)
	Specificity	0.92 (0.91-0.93)	0.95 (0.94-0.96)	0.92 (0.91-0.92)
VII. Psychosis	Sensitivity	0.23 (0.18-0.29)	0.20 (0.16-0.26)	0.24 (0.19-0.30)
	Specificity	0.88 (0.86-0.89)	0.91 (0.90-0.92)	0.87 (0.86-0.88)
VIII. Sleep problems	Sensitivity	0.36 (0.30-0.42)	0.34 (0.29-0.40)	0.41 (0.35-0.47)
	Specificity	0.79 (0.77-0.80)	0.86 (0.84-0.87)	0.77 (0.75-0.78)
IX. Memory	Sensitivity	0.27 (0.22-0.33)	0.20 (0.15-0.25)	0.31 (0.25-0.36)
	Specificity	0.86 (0.85-0.87)	0.93 (0.92-0.94)	0.84 (0.83-0.86)
X. Repetitive thoughts and behaviors	Sensitivity	0.33 (0.27-0.39)	0.26 (0.21-0.32)	0.35 (0.30-0.42)
	Specificity	0.84 (0.82-0.85)	0.90 (0.89-0.91)	0.82 (0.80-0.83)
XI. Dissociation	Sensitivity	0.28 (0.23-0.34)	0.19 (0.14-0.24)	0.31 (0.25-0.36)
	Specificity	0.87 (0.86-0.88)	0.92 (0.91-0.93)	0.85 (0.84-0.86)
XII. Personality functioning	Sensitivity	0.40 (0.34-0.47)	0.34 (0.29-0.40)	0.45 (0.39-0.52)
	Specificity	0.74 (0.73-0.76)	0.81 (0.80-0.83)	0.71 (0.70-0.73)
XIII. Substance use	Sensitivity	0.50 (0.44-0.57)	0.53 (0.47-0.59)	0.57 (0.51-0.63)
	Specificity	0.60 (0.58-0.61)	0.58 (0.56-0.60)	0.53 (0.52-0.55)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 55. Sensitivities and specificities of DSM-XC domains for bipolar disorder, after removing the clinical impairment criteria.

Domain	Metric	Intensity	Frequency	“OR”
I. Depression	Sensitivity	0.63 (0.53-0.72)	0.54 (0.45-0.64)	0.72 (0.63-0.80)
	Specificity	0.60 (0.59-0.62)	0.83 (0.81-0.84)	0.58 (0.57-0.60)
II. Anger	Sensitivity	0.55 (0.46-0.64)	0.54 (0.45-0.64)	0.63 (0.53-0.72)
	Specificity	0.71 (0.70-0.73)	0.86 (0.84-0.87)	0.69 (0.68-0.71)
III. Mania	Sensitivity	0.45 (0.36-0.54)	0.44 (0.35-0.53)	0.59 (0.49-0.68)
	Specificity	0.79 (0.77-0.80)	0.85 (0.84-0.86)	0.73 (0.71-0.74)
IV. Anxiety	Sensitivity	0.81 (0.73-0.88)	0.72 (0.62-0.80)	0.85 (0.78-0.91)
	Specificity	0.54 (0.53-0.56)	0.71 (0.70-0.73)	0.51 (0.49-0.53)
V. Somatic symptoms	Sensitivity	0.62 (0.53-0.71)	0.56 (0.47-0.65)	0.66 (0.57-0.75)
	Specificity	0.67 (0.66-0.69)	0.80 (0.79-0.82)	0.65 (0.63-0.67)
VI. Suicidal ideation	Sensitivity	0.28 (0.20-0.38)	0.27 (0.19-0.36)	0.30 (0.22-0.39)
	Specificity	0.92 (0.91-0.93)	0.96 (0.95-0.96)	0.92 (0.91-0.93)
VII. Psychosis	Sensitivity	0.48 (0.39-0.58)	0.45 (0.36-0.54)	0.48 (0.39-0.58)
	Specificity	0.88 (0.87-0.89)	0.92 (0.91-0.92)	0.87 (0.86-0.88)
VIII. Sleep problems	Sensitivity	0.43 (0.34-0.53)	0.43 (0.34-0.53)	0.52 (0.42-0.61)
	Specificity	0.78 (0.77-0.80)	0.85 (0.84-0.86)	0.76 (0.75-0.78)
IX. Memory	Sensitivity	0.40 (0.31-0.49)	0.30 (0.22-0.39)	0.46 (0.36-0.55)
	Specificity	0.86 (0.85-0.87)	0.93 (0.92-0.93)	0.84 (0.83-0.86)
X. Repetitive thoughts and behaviors	Sensitivity	0.50 (0.41-0.59)	0.50 (0.41-0.59)	0.57 (0.47-0.66)
	Specificity	0.84 (0.82-0.85)	0.90 (0.89-0.91)	0.82 (0.80-0.83)
XI. Dissociation	Sensitivity	0.40 (0.31-0.49)	0.39 (0.30-0.48)	0.47 (0.38-0.57)
	Specificity	0.87 (0.85-0.88)	0.92 (0.91-0.93)	0.85 (0.84-0.86)
XII. Personality functioning	Sensitivity	0.54 (0.45-0.64)	0.57 (0.47-0.66)	0.67 (0.58-0.76)
	Specificity	0.74 (0.73-0.76)	0.81 (0.80-0.83)	0.71 (0.70-0.73)
XIII. Substance use	Sensitivity	0.63 (0.53-0.72)	0.61 (0.52-0.70)	0.67 (0.58-0.76)
	Specificity	0.60 (0.58-0.61)	0.58 (0.56-0.59)	0.53 (0.52-0.55)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 56. Sensitivities and specificities of DSM-XC domains for generalized anxiety disorder, after removing the clinical impairment criteria.

Domain	Metric	Intensity	Frequency	“OR”
I. Depression	Sensitivity	0.71 (0.67-0.74)	0.52 (0.48-0.57)	0.75 (0.71-0.78)
	Specificity	0.65 (0.64-0.67)	0.88 (0.87-0.89)	0.64 (0.62-0.65)
II. Anger	Sensitivity	0.58 (0.54-0.62)	0.46 (0.42-0.50)	0.63 (0.59-0.66)
	Specificity	0.76 (0.75-0.78)	0.90 (0.89-0.91)	0.74 (0.72-0.76)
III. Mania	Sensitivity	0.34 (0.30-0.38)	0.27 (0.23-0.30)	0.41 (0.37-0.45)
	Specificity	0.80 (0.79-0.82)	0.86 (0.85-0.88)	0.74 (0.73-0.76)
IV. Anxiety	Sensitivity	0.79 (0.76-0.82)	0.71 (0.67-0.74)	0.83 (0.80-0.86)
	Specificity	0.59 (0.58-0.61)	0.78 (0.76-0.79)	0.56 (0.54-0.58)
V. Somatic symptoms	Sensitivity	0.59 (0.55-0.63)	0.47 (0.43-0.51)	0.61 (0.57-0.65)
	Specificity	0.71 (0.70-0.73)	0.84 (0.83-0.85)	0.69 (0.67-0.71)
VI. Suicidal ideation	Sensitivity	0.16 (0.13-0.20)	0.15 (0.12-0.18)	0.17 (0.14-0.21)
	Specificity	0.93 (0.92-0.94)	0.97 (0.96-0.97)	0.93 (0.92-0.94)
VII. Psychosis	Sensitivity	0.23 (0.20-0.27)	0.22 (0.19-0.25)	0.24 (0.21-0.28)
	Specificity	0.89 (0.87-0.90)	0.93 (0.92-0.94)	0.88 (0.87-0.89)
VIII. Sleep problems	Sensitivity	0.46 (0.42-0.50)	0.40 (0.36-0.44)	0.50 (0.46-0.54)
	Specificity	0.82 (0.81-0.83)	0.89 (0.88-0.90)	0.80 (0.79-0.82)
IX. Memory	Sensitivity	0.31 (0.28-0.35)	0.22 (0.19-0.25)	0.34 (0.30-0.38)
	Specificity	0.88 (0.87-0.89)	0.94 (0.94-0.95)	0.87 (0.86-0.88)
X. Repetitive thoughts and behaviors	Sensitivity	0.42 (0.38-0.46)	0.31 (0.27-0.35)	0.44 (0.40-0.48)
	Specificity	0.87 (0.86-0.88)	0.93 (0.92-0.93)	0.85 (0.84-0.86)
XI. Dissociation	Sensitivity	0.32 (0.29-0.36)	0.27 (0.23-0.30)	0.36 (0.32-0.40)
	Specificity	0.89 (0.88-0.90)	0.95 (0.94-0.95)	0.88 (0.87-0.89)
XII. Personality functioning	Sensitivity	0.52 (0.48-0.57)	0.48 (0.44-0.52)	0.58 (0.54-0.62)
	Specificity	0.78 (0.77-0.80)	0.86 (0.84-0.87)	0.76 (0.74-0.77)
XIII. Substance use	Sensitivity	0.53 (0.49-0.57)	0.54 (0.50-0.58)	0.57 (0.53-0.61)
	Specificity	0.61 (0.59-0.63)	0.59 (0.57-0.61)	0.55 (0.53-0.56)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 57. Sensitivities and specificities of DSM-XC domains for major depressive disorder, after removing the clinical impairment criteria.

Domain	Metric	Intensity	Frequency	“OR”
I. Depression	Sensitivity	0.81 (0.74-0.86)	0.83 (0.77-0.88)	0.90 (0.85-0.94)
	Specificity	0.62 (0.60-0.63)	0.85 (0.84-0.86)	0.60 (0.58-0.62)
II. Anger	Sensitivity	0.64 (0.57-0.71)	0.63 (0.55-0.70)	0.73 (0.65-0.79)
	Specificity	0.72 (0.71-0.74)	0.87 (0.86-0.88)	0.70 (0.69-0.72)
III. Mania	Sensitivity	0.39 (0.31-0.46)	0.38 (0.31-0.46)	0.49 (0.42-0.57)
	Specificity	0.79 (0.77-0.80)	0.85 (0.84-0.87)	0.73 (0.71-0.74)
IV. Anxiety	Sensitivity	0.85 (0.79-0.90)	0.82 (0.76-0.87)	0.92 (0.87-0.95)
	Specificity	0.55 (0.53-0.57)	0.73 (0.71-0.74)	0.52 (0.50-0.54)
V. Somatic symptoms	Sensitivity	0.70 (0.63-0.77)	0.63 (0.56-0.70)	0.74 (0.67-0.81)
	Specificity	0.68 (0.67-0.70)	0.81 (0.80-0.83)	0.66 (0.64-0.68)
VI. Suicidal ideation	Sensitivity	0.35 (0.28-0.42)	0.34 (0.27-0.41)	0.37 (0.30-0.44)
	Specificity	0.93 (0.92-0.94)	0.96 (0.96-0.97)	0.93 (0.92-0.93)
VII. Psychosis	Sensitivity	0.37 (0.30-0.45)	0.35 (0.28-0.42)	0.38 (0.31-0.46)
	Specificity	0.88 (0.87-0.89)	0.92 (0.91-0.93)	0.87 (0.86-0.88)
VIII. Sleep problems	Sensitivity	0.61 (0.54-0.69)	0.56 (0.49-0.64)	0.66 (0.58-0.73)
	Specificity	0.80 (0.78-0.81)	0.86 (0.85-0.87)	0.77 (0.76-0.79)
IX. Memory	Sensitivity	0.39 (0.32-0.47)	0.34 (0.27-0.42)	0.44 (0.36-0.51)
	Specificity	0.86 (0.85-0.87)	0.93 (0.92-0.94)	0.85 (0.84-0.86)
X. Repetitive thoughts and behaviors	Sensitivity	0.56 (0.48-0.63)	0.50 (0.42-0.57)	0.59 (0.52-0.66)
	Specificity	0.84 (0.83-0.86)	0.91 (0.90-0.92)	0.82 (0.81-0.84)
XI. Dissociation	Sensitivity	0.51 (0.44-0.59)	0.46 (0.39-0.54)	0.56 (0.48-0.63)
	Specificity	0.88 (0.87-0.89)	0.93 (0.92-0.94)	0.86 (0.85-0.87)
XII. Personality functioning	Sensitivity	0.75 (0.68-0.81)	0.70 (0.63-0.77)	0.79 (0.72-0.85)
	Specificity	0.76 (0.74-0.77)	0.83 (0.82-0.84)	0.73 (0.71-0.74)
XIII. Substance use	Sensitivity	0.60 (0.52-0.67)	0.58 (0.51-0.65)	0.63 (0.55-0.70)
	Specificity	0.60 (0.58-0.61)	0.58 (0.56-0.60)	0.53 (0.52-0.55)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 58. Sensitivities and specificities of DSM-XC domains for post-traumatic stress disorder, after removing the clinical impairment criteria.

Domain	Metric	Intensity	Frequency	“OR”
I. Depression	Sensitivity	0.66 (0.60-0.72)	0.54 (0.47-0.60)	0.72 (0.66-0.77)
	Specificity	0.62 (0.60-0.63)	0.84 (0.83-0.86)	0.60 (0.58-0.61)
II. Anger	Sensitivity	0.56 (0.50-0.62)	0.46 (0.40-0.53)	0.62 (0.56-0.67)
	Specificity	0.73 (0.71-0.74)	0.87 (0.86-0.88)	0.70 (0.69-0.72)
III. Mania	Sensitivity	0.40 (0.34-0.46)	0.34 (0.29-0.40)	0.50 (0.44-0.56)
	Specificity	0.79 (0.78-0.81)	0.86 (0.85-0.87)	0.74 (0.72-0.75)
IV. Anxiety	Sensitivity	0.79 (0.74-0.84)	0.70 (0.65-0.76)	0.85 (0.80-0.89)
	Specificity	0.56 (0.54-0.57)	0.73 (0.72-0.75)	0.53 (0.51-0.54)
V. Somatic symptoms	Sensitivity	0.63 (0.57-0.69)	0.56 (0.50-0.62)	0.66 (0.60-0.72)
	Specificity	0.69 (0.67-0.70)	0.82 (0.81-0.83)	0.66 (0.65-0.68)
VI. Suicidal ideation	Sensitivity	0.20 (0.15-0.25)	0.18 (0.14-0.24)	0.21 (0.16-0.26)
	Specificity	0.93 (0.92-0.93)	0.96 (0.95-0.97)	0.92 (0.91-0.93)
VII. Psychosis	Sensitivity	0.36 (0.30-0.42)	0.35 (0.30-0.41)	0.36 (0.30-0.42)
	Specificity	0.89 (0.87-0.90)	0.93 (0.92-0.93)	0.88 (0.87-0.89)
VIII. Sleep problems	Sensitivity	0.48 (0.42-0.54)	0.46 (0.40-0.52)	0.54 (0.47-0.60)
	Specificity	0.80 (0.78-0.81)	0.87 (0.85-0.88)	0.78 (0.76-0.79)
IX. Memory	Sensitivity	0.32 (0.27-0.38)	0.26 (0.21-0.32)	0.35 (0.30-0.41)
	Specificity	0.87 (0.85-0.88)	0.93 (0.92-0.94)	0.85 (0.84-0.86)
X. Repetitive thoughts and behaviors	Sensitivity	0.54 (0.47-0.60)	0.45 (0.39-0.52)	0.58 (0.52-0.64)
	Specificity	0.85 (0.84-0.87)	0.92 (0.91-0.92)	0.84 (0.82-0.85)
XI. Dissociation	Sensitivity	0.38 (0.32-0.44)	0.32 (0.26-0.38)	0.41 (0.35-0.47)
	Specificity	0.88 (0.87-0.89)	0.93 (0.92-0.94)	0.86 (0.85-0.87)
XII. Personality functioning	Sensitivity	0.58 (0.51-0.64)	0.55 (0.49-0.61)	0.65 (0.59-0.70)
	Specificity	0.76 (0.74-0.77)	0.83 (0.82-0.84)	0.73 (0.71-0.74)
XIII. Substance use	Sensitivity	0.60 (0.54-0.66)	0.62 (0.56-0.68)	0.65 (0.59-0.70)
	Specificity	0.60 (0.59-0.62)	0.59 (0.57-0.60)	0.54 (0.52-0.56)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 59. Sensitivities and specificities of DSM-XC domains for social anxiety disorder, after removing the clinical impairment criteria.

Domain	Metric	Intensity	Frequency	“OR”
I. Depression	Sensitivity	0.67 (0.61-0.72)	0.44 (0.38-0.51)	0.72 (0.66-0.77)
	Specificity	0.62 (0.60-0.63)	0.84 (0.82-0.85)	0.60 (0.58-0.61)
II. Anger	Sensitivity	0.50 (0.44-0.56)	0.35 (0.29-0.41)	0.54 (0.48-0.60)
	Specificity	0.72 (0.71-0.74)	0.86 (0.85-0.87)	0.70 (0.68-0.71)
III. Mania	Sensitivity	0.36 (0.30-0.42)	0.28 (0.22-0.33)	0.42 (0.36-0.48)
	Specificity	0.79 (0.78-0.80)	0.85 (0.84-0.86)	0.73 (0.71-0.74)
IV. Anxiety	Sensitivity	0.77 (0.72-0.82)	0.62 (0.56-0.68)	0.83 (0.78-0.87)
	Specificity	0.56 (0.54-0.57)	0.73 (0.71-0.74)	0.52 (0.51-0.54)
V. Somatic symptoms	Sensitivity	0.51 (0.45-0.57)	0.40 (0.34-0.46)	0.55 (0.49-0.61)
	Specificity	0.68 (0.66-0.69)	0.81 (0.79-0.82)	0.66 (0.64-0.67)
VI. Suicidal ideation	Sensitivity	0.22 (0.17-0.27)	0.18 (0.14-0.23)	0.23 (0.18-0.29)
	Specificity	0.93 (0.92-0.94)	0.96 (0.95-0.97)	0.92 (0.91-0.93)
VII. Psychosis	Sensitivity	0.28 (0.23-0.34)	0.24 (0.19-0.29)	0.28 (0.23-0.34)
	Specificity	0.88 (0.87-0.89)	0.92 (0.91-0.92)	0.87 (0.86-0.88)
VIII. Sleep problems	Sensitivity	0.43 (0.37-0.50)	0.38 (0.32-0.44)	0.49 (0.43-0.55)
	Specificity	0.79 (0.78-0.81)	0.86 (0.85-0.87)	0.77 (0.76-0.79)
IX. Memory	Sensitivity	0.33 (0.27-0.39)	0.23 (0.18-0.28)	0.35 (0.29-0.41)
	Specificity	0.87 (0.85-0.88)	0.93 (0.92-0.94)	0.85 (0.84-0.86)
X. Repetitive thoughts and behaviors	Sensitivity	0.39 (0.33-0.45)	0.30 (0.24-0.36)	0.42 (0.36-0.48)
	Specificity	0.84 (0.83-0.85)	0.90 (0.89-0.91)	0.82 (0.81-0.84)
XI. Dissociation	Sensitivity	0.31 (0.26-0.37)	0.24 (0.19-0.30)	0.35 (0.29-0.41)
	Specificity	0.87 (0.86-0.88)	0.92 (0.91-0.93)	0.86 (0.84-0.87)
XII. Personality functioning	Sensitivity	0.53 (0.47-0.59)	0.44 (0.38-0.51)	0.56 (0.50-0.62)
	Specificity	0.75 (0.74-0.77)	0.82 (0.81-0.84)	0.72 (0.71-0.74)
XIII. Substance use	Sensitivity	0.51 (0.45-0.57)	0.51 (0.45-0.58)	0.57 (0.50-0.63)
	Specificity	0.60 (0.58-0.61)	0.58 (0.56-0.59)	0.53 (0.52-0.55)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 60. Positive likelihood ratios of DSM-XC domains for antisocial personality disorder, after removing the clinical impairment criteria.

Domain	Intensity	Frequency	“OR”
I. Depression	1.55 (1.25-1.91)	1.85 (1.26-2.71)	1.52 (1.24-1.86)
II. Anger	1.42 (1.02-1.96)	1.94 (1.28-2.95)	1.31 (0.94-1.80)
III. Mania	1.64 (1.14-2.37)	1.32 (0.78-2.25)	1.42 (1.01-1.98)
IV. Anxiety	1.42 (1.17-1.73)	1.58 (1.18-2.11)	1.36 (1.13-1.64)
V. Somatic symptoms	1.12 (0.79-1.59)	1.91 (1.36-2.68)	1.26 (0.93-1.70)
VI. Suicidal ideation	1.36 (0.64-2.92)	1.46 (0.56-3.79)	1.28 (0.60-2.74)
VII. Psychosis	3.08 (2.19-4.35)	4.11 (2.86-5.89)	3.07 (2.20-4.27)
VIII. Sleep problems	1.52 (1.04-2.23)	2.54 (1.81-3.58)	1.69 (1.22-2.34)
IX. Memory	1.53 (0.92-2.53)	2.59 (1.52-4.44)	1.72 (1.12-2.66)
X. Repetitive thoughts and behaviors	1.85 (1.24-2.75)	2.75 (1.81-4.19)	2.05 (1.46-2.88)
XI. Dissociation	2.02 (1.30-3.12)	3.73 (2.49-5.60)	2.29 (1.58-3.30)
XII. Personality functioning	2.15 (1.69-2.74)	2.73 (2.10-3.56)	2.18 (1.78-2.69)
XIII. Substance use	1.76 (1.48-2.09)	1.87 (1.62-2.16)	1.69 (1.47-1.95)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 61. Positive likelihood ratios of DSM-XC domains for attention-deficit/hyperactivity disorder, after removing the clinical impairment criteria.

Domain	Intensity	Frequency	“OR”
I. Depression	1.45 (1.29-1.62)	2.21 (1.86-2.63)	1.43 (1.29-1.60)
II. Anger	1.68 (1.47-1.93)	2.21 (1.82-2.69)	1.65 (1.45-1.88)
III. Mania	1.59 (1.32-1.91)	2.00 (1.63-2.46)	1.60 (1.38-1.86)
IV. Anxiety	1.37 (1.24-1.52)	1.96 (1.73-2.21)	1.37 (1.25-1.50)
V. Somatic symptoms	1.53 (1.34-1.74)	1.72 (1.44-2.06)	1.47 (1.29-1.67)
VI. Suicidal ideation	1.46 (1.03-2.08)	1.97 (1.31-2.94)	1.67 (1.21-2.29)
VII. Psychosis	1.87 (1.47-2.37)	2.31 (1.77-3.00)	1.86 (1.48-2.34)
VIII. Sleep problems	1.69 (1.42-2.01)	2.37 (1.97-2.86)	1.76 (1.50-2.06)
IX. Memory	1.97 (1.59-2.44)	2.73 (2.08-3.58)	1.97 (1.61-2.40)
X. Repetitive thoughts and behaviors	2.00 (1.66-2.42)	2.57 (2.04-3.23)	1.94 (1.62-2.31)
XI. Dissociation	2.15 (1.74-2.66)	2.29 (1.73-3.02)	2.06 (1.68-2.51)
XII. Personality functioning	1.57 (1.34-1.84)	1.84 (1.53-2.21)	1.59 (1.37-1.83)
XIII. Substance use	1.24 (1.10-1.41)	1.26 (1.12-1.42)	1.23 (1.10-1.37)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 62. Positive likelihood ratios of DSM-XC domains for bipolar disorder, after removing the clinical impairment criteria.

Domain	Intensity	Frequency	“OR”
I. Depression	1.58 (1.37-1.83)	3.12 (2.60-3.75)	1.74 (1.55-1.96)
II. Anger	1.93 (1.62-2.29)	3.75 (3.12-4.52)	2.04 (1.76-2.36)
III. Mania	2.11 (1.70-2.60)	2.97 (2.38-3.70)	2.16 (1.84-2.54)
IV. Anxiety	1.77 (1.61-1.95)	2.49 (2.20-2.83)	1.74 (1.60-1.89)
V. Somatic symptoms	1.89 (1.63-2.20)	2.83 (2.37-3.37)	1.89 (1.65-2.17)
VI. Suicidal ideation	3.70 (2.71-5.05)	5.97 (4.26-8.37)	3.69 (2.74-4.97)
VII. Psychosis	4.00 (3.25-4.93)	5.31 (4.22-6.69)	3.77 (3.07-4.64)
VIII. Sleep problems	1.98 (1.59-2.46)	2.87 (2.29-3.59)	2.17 (1.80-2.61)
IX. Memory	2.81 (2.22-3.57)	4.05 (3.00-5.47)	2.92 (2.36-3.62)
X. Repetitive thoughts and behaviors	3.03 (2.49-3.69)	5.02 (4.08-6.18)	3.10 (2.61-3.69)
XI. Dissociation	2.96 (2.33-3.76)	4.88 (3.78-6.30)	3.17 (2.58-3.91)
XII. Personality functioning	2.10 (1.76-2.51)	3.06 (2.58-3.64)	2.35 (2.05-2.70)
XIII. Substance use	1.56 (1.34-1.80)	1.45 (1.24-1.68)	1.44 (1.26-1.64)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 63. Positive likelihood ratios of DSM-XC domains for generalized anxiety disorder, after removing the clinical impairment criteria.

Domain	Intensity	Frequency	“OR”
I. Depression	2.03 (1.89-2.18)	4.39 (3.88-4.97)	2.05 (1.92-2.19)
II. Anger	2.44 (2.22-2.68)	4.73 (4.12-5.44)	2.41 (2.21-2.63)
III. Mania	1.70 (1.49-1.95)	1.96 (1.66-2.30)	1.57 (1.40-1.77)
IV. Anxiety	1.95 (1.84-2.07)	3.19 (2.93-3.47)	1.90 (1.80-2.01)
V. Somatic symptoms	2.04 (1.87-2.23)	2.97 (2.64-3.35)	1.97 (1.81-2.14)
VI. Suicidal ideation	2.42 (1.93-3.03)	4.40 (3.34-5.79)	2.38 (1.91-2.96)
VII. Psychosis	2.04 (1.70-2.44)	3.03 (2.48-3.70)	2.02 (1.69-2.40)
VIII. Sleep problems	2.58 (2.30-2.90)	3.56 (3.09-4.10)	2.52 (2.26-2.80)
IX. Memory	2.67 (2.28-3.12)	3.97 (3.21-4.91)	2.56 (2.21-2.96)
X. Repetitive thoughts and behaviors	3.22 (2.82-3.68)	4.17 (3.50-4.97)	2.96 (2.61-3.36)
XI. Dissociation	3.01 (2.58-3.52)	4.87 (3.98-5.95)	2.95 (2.55-3.41)
XII. Personality functioning	2.41 (2.18-2.67)	3.36 (2.97-3.79)	2.38 (2.16-2.61)
XIII. Substance use	1.35 (1.24-1.48)	1.32 (1.21-1.44)	1.26 (1.16-1.36)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 64. Positive likelihood ratios of DSM-XC domains for major depressive disorder, after removing the clinical impairment criteria.

Domain	Intensity	Frequency	“OR”
I. Depression	2.11 (1.94-2.29)	5.48 (4.95-6.08)	2.24 (2.10-2.39)
II. Anger	2.32 (2.05-2.62)	4.71 (4.08-5.42)	2.44 (2.20-2.70)
III. Mania	1.82 (1.50-2.21)	2.60 (2.12-3.19)	1.82 (1.55-2.13)
IV. Anxiety	1.89 (1.76-2.03)	3.00 (2.75-3.28)	1.91 (1.80-2.02)
V. Somatic symptoms	2.22 (1.99-2.47)	3.36 (2.95-3.84)	2.18 (1.98-2.41)
VI. Suicidal ideation	4.97 (3.92-6.29)	9.04 (6.92-11.82)	4.97 (3.97-6.23)
VII. Psychosis	3.13 (2.53-3.86)	4.17 (3.32-5.26)	3.00 (2.44-3.68)
VIII. Sleep problems	3.01 (2.63-3.44)	4.09 (3.51-4.77)	2.92 (2.58-3.30)
IX. Memory	2.86 (2.34-3.50)	4.99 (3.93-6.34)	2.87 (2.39-3.45)
X. Repetitive thoughts and behaviors	3.59 (3.08-4.18)	5.38 (4.49-6.45)	3.38 (2.94-3.90)
XI. Dissociation	4.18 (3.53-4.95)	6.65 (5.45-8.12)	4.02 (3.45-4.70)
XII. Personality functioning	3.09 (2.78-3.43)	4.10 (3.64-4.63)	2.89 (2.63-3.17)
XIII. Substance use	1.49 (1.31-1.69)	1.38 (1.21-1.57)	1.34 (1.19-1.51)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 65. Positive likelihood ratios of DSM-XC domains for post-traumatic stress disorder, after removing the clinical impairment criteria.

Domain	Intensity	Frequency	“OR”
I. Depression	1.72 (1.56-1.89)	3.40 (2.97-3.90)	1.79 (1.64-1.95)
II. Anger	2.05 (1.82-2.31)	3.51 (3.01-4.10)	2.09 (1.87-2.33)
III. Mania	1.94 (1.65-2.27)	2.41 (2.00-2.90)	1.89 (1.65-2.16)
IV. Anxiety	1.79 (1.67-1.93)	2.63 (2.39-2.90)	1.78 (1.67-1.90)
V. Somatic symptoms	2.00 (1.80-2.22)	3.12 (2.75-3.55)	1.97 (1.78-2.17)
VI. Suicidal ideation	2.63 (2.01-3.44)	4.49 (3.33-6.05)	2.61 (2.01-3.38)
VII. Psychosis	3.14 (2.61-3.78)	4.72 (3.87-5.77)	2.98 (2.48-3.58)
VIII. Sleep problems	2.33 (2.02-2.68)	3.43 (2.94-4.00)	2.39 (2.10-2.71)
IX. Memory	2.41 (1.99-2.92)	3.90 (3.08-4.95)	2.35 (1.96-2.82)
X. Repetitive thoughts and behaviors	3.66 (3.18-4.20)	5.36 (4.51-6.37)	3.55 (3.13-4.03)
XI. Dissociation	3.09 (2.59-3.69)	4.48 (3.62-5.55)	2.94 (2.49-3.47)
XII. Personality functioning	2.37 (2.11-2.67)	3.27 (2.87-3.73)	2.39 (2.15-2.65)
XIII. Substance use	1.51 (1.35-1.68)	1.51 (1.36-1.67)	1.40 (1.28-1.54)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 66. Positive likelihood ratios of DSM-XC domains for social anxiety disorder, after removing the clinical impairment criteria.

Domain	Intensity	Frequency	“OR”
I. Depression	1.74 (1.59-1.91)	2.70 (2.32-3.15)	1.78 (1.64-1.94)
II. Anger	1.81 (1.59-2.06)	2.46 (2.05-2.96)	1.81 (1.60-2.04)
III. Mania	1.70 (1.43-2.03)	1.86 (1.51-2.30)	1.55 (1.33-1.80)
IV. Anxiety	1.74 (1.61-1.88)	2.26 (2.03-2.52)	1.74 (1.63-1.86)
V. Somatic symptoms	1.58 (1.40-1.80)	2.06 (1.76-2.42)	1.60 (1.42-1.80)
VI. Suicidal ideation	3.05 (2.37-3.94)	4.35 (3.21-5.88)	3.00 (2.35-3.84)
VII. Psychosis	2.32 (1.88-2.87)	2.78 (2.18-3.54)	2.22 (1.80-2.73)
VIII. Sleep problems	2.09 (1.79-2.43)	2.71 (2.28-3.22)	2.17 (1.89-2.48)
IX. Memory	2.43 (2.01-2.94)	3.26 (2.54-4.20)	2.31 (1.93-2.77)
X. Repetitive thoughts and behaviors	2.46 (2.08-2.91)	3.06 (2.48-3.77)	2.36 (2.02-2.76)
XI. Dissociation	2.43 (2.00-2.96)	3.16 (2.48-4.02)	2.39 (1.99-2.87)
XII. Personality functioning	2.17 (1.91-2.46)	2.50 (2.15-2.91)	2.01 (1.79-2.27)
XIII. Substance use	1.27 (1.12-1.43)	1.22 (1.08-1.38)	1.21 (1.09-1.36)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 67. Negative likelihood ratios of DSM-XC domains for antisocial personality disorder, after removing the clinical impairment criteria.

Domain	Intensity	Frequency	“OR”
I. Depression	0.63 (0.45-0.89)	0.81 (0.67-0.98)	0.62 (0.43-0.89)
II. Anger	0.83 (0.66-1.04)	0.83 (0.69-0.99)	0.86 (0.68-1.08)
III. Mania	0.82 (0.67-1.00)	0.94 (0.82-1.08)	0.84 (0.67-1.04)
IV. Anxiety	0.64 (0.44-0.93)	0.75 (0.58-0.97)	0.64 (0.43-0.95)
V. Somatic symptoms	0.94 (0.76-1.16)	0.76 (0.61-0.95)	0.85 (0.67-1.09)
VI. Suicidal ideation	0.97 (0.88-1.07)	0.97 (0.90-1.05)	0.97 (0.88-1.07)
VII. Psychosis	0.69 (0.56-0.86)	0.69 (0.56-0.85)	0.68 (0.54-0.85)
VIII. Sleep problems	0.85 (0.70-1.03)	0.72 (0.57-0.89)	0.77 (0.62-0.97)
IX. Memory	0.91 (0.78-1.05)	0.86 (0.75-0.99)	0.86 (0.72-1.02)
X. Repetitive thoughts and behaviors	0.82 (0.68-0.99)	0.78 (0.66-0.94)	0.75 (0.60-0.93)
XI. Dissociation	0.83 (0.70-0.99)	0.74 (0.62-0.89)	0.76 (0.62-0.93)
XII. Personality functioning	0.59 (0.43-0.80)	0.58 (0.44-0.78)	0.51 (0.35-0.73)
XIII. Substance use	0.48 (0.31-0.73)	0.36 (0.21-0.61)	0.39 (0.23-0.66)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 68. Negative likelihood ratios of DSM-XC domains for attention-deficit/hyperactivity disorder, after removing the clinical impairment criteria.

Domain	Intensity	Frequency	“OR”
I. Depression	0.71 (0.62-0.82)	0.75 (0.68-0.83)	0.70 (0.60-0.81)
II. Anger	0.73 (0.65-0.82)	0.79 (0.73-0.86)	0.71 (0.63-0.81)
III. Mania	0.84 (0.77-0.92)	0.83 (0.76-0.90)	0.78 (0.70-0.87)
IV. Anxiety	0.69 (0.59-0.81)	0.63 (0.55-0.72)	0.64 (0.54-0.77)
V. Somatic symptoms	0.75 (0.66-0.84)	0.82 (0.75-0.90)	0.75 (0.66-0.85)
VI. Suicidal ideation	0.96 (0.92-1.00)	0.95 (0.91-0.99)	0.94 (0.89-0.99)
VII. Psychosis	0.88 (0.82-0.94)	0.87 (0.82-0.93)	0.87 (0.81-0.93)
VIII. Sleep problems	0.81 (0.74-0.89)	0.77 (0.70-0.84)	0.77 (0.69-0.85)
IX. Memory	0.84 (0.78-0.91)	0.86 (0.81-0.92)	0.82 (0.76-0.89)
X. Repetitive thoughts and behaviors	0.80 (0.74-0.88)	0.82 (0.77-0.89)	0.79 (0.72-0.87)
XI. Dissociation	0.83 (0.76-0.89)	0.89 (0.83-0.94)	0.82 (0.75-0.88)
XII. Personality functioning	0.80 (0.72-0.89)	0.81 (0.74-0.88)	0.76 (0.68-0.86)
XIII. Substance use	0.83 (0.74-0.94)	0.81 (0.71-0.93)	0.80 (0.69-0.92)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 69. Negative likelihood ratios of DSM-XC domains for bipolar disorder, after removing the clinical impairment criteria.

Domain	Intensity	Frequency	“OR”
I. Depression	0.62 (0.49-0.78)	0.55 (0.45-0.67)	0.47 (0.35-0.64)
II. Anger	0.63 (0.51-0.77)	0.53 (0.44-0.65)	0.54 (0.42-0.68)
III. Mania	0.70 (0.59-0.83)	0.66 (0.56-0.77)	0.57 (0.46-0.71)
IV. Anxiety	0.35 (0.24-0.51)	0.40 (0.30-0.53)	0.29 (0.19-0.45)
V. Somatic symptoms	0.56 (0.45-0.71)	0.55 (0.45-0.67)	0.52 (0.40-0.67)
VI. Suicidal ideation	0.78 (0.69-0.87)	0.77 (0.69-0.86)	0.76 (0.67-0.86)
VII. Psychosis	0.59 (0.49-0.70)	0.60 (0.51-0.71)	0.59 (0.50-0.71)
VIII. Sleep problems	0.73 (0.62-0.85)	0.67 (0.57-0.78)	0.63 (0.52-0.77)
IX. Memory	0.70 (0.61-0.81)	0.75 (0.67-0.85)	0.64 (0.54-0.76)
X. Repetitive thoughts and behaviors	0.60 (0.50-0.72)	0.56 (0.46-0.67)	0.53 (0.43-0.65)
XI. Dissociation	0.70 (0.60-0.81)	0.66 (0.58-0.77)	0.62 (0.52-0.74)
XII. Personality functioning	0.62 (0.50-0.75)	0.53 (0.43-0.65)	0.46 (0.35-0.60)
XIII. Substance use	0.62 (0.49-0.79)	0.67 (0.53-0.85)	0.62 (0.47-0.80)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 70. Negative likelihood ratios of DSM-XC domains for generalized anxiety disorder, after removing the clinical impairment criteria.

Domain	Intensity	Frequency	“OR”
I. Depression	0.45 (0.40-0.51)	0.54 (0.50-0.59)	0.40 (0.35-0.46)
II. Anger	0.55 (0.50-0.60)	0.59 (0.55-0.64)	0.51 (0.45-0.56)
III. Mania	0.83 (0.78-0.88)	0.85 (0.81-0.89)	0.80 (0.75-0.86)
IV. Anxiety	0.35 (0.30-0.41)	0.38 (0.33-0.43)	0.30 (0.25-0.36)
V. Somatic symptoms	0.58 (0.52-0.64)	0.63 (0.58-0.68)	0.56 (0.50-0.62)
VI. Suicidal ideation	0.90 (0.86-0.93)	0.88 (0.85-0.91)	0.89 (0.86-0.93)
VII. Psychosis	0.87 (0.83-0.91)	0.84 (0.81-0.88)	0.86 (0.82-0.90)
VIII. Sleep problems	0.66 (0.61-0.71)	0.68 (0.63-0.72)	0.62 (0.58-0.68)
IX. Memory	0.78 (0.74-0.82)	0.83 (0.79-0.86)	0.76 (0.72-0.81)
X. Repetitive thoughts and behaviors	0.67 (0.63-0.72)	0.75 (0.71-0.79)	0.66 (0.61-0.71)
XI. Dissociation	0.76 (0.72-0.80)	0.78 (0.74-0.82)	0.73 (0.69-0.78)
XII. Personality functioning	0.61 (0.56-0.66)	0.61 (0.56-0.66)	0.56 (0.50-0.61)
XIII. Substance use	0.78 (0.71-0.85)	0.78 (0.71-0.85)	0.78 (0.71-0.87)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 71. Negative likelihood ratios of DSM-XC domains for major depressive disorder, after removing the clinical impairment criteria.

Domain	Intensity	Frequency	“OR”
I. Depression	0.31 (0.23-0.42)	0.20 (0.14-0.27)	0.17 (0.11-0.26)
II. Anger	0.49 (0.41-0.60)	0.43 (0.36-0.52)	0.39 (0.31-0.50)
III. Mania	0.78 (0.69-0.88)	0.73 (0.65-0.81)	0.70 (0.60-0.81)
IV. Anxiety	0.27 (0.19-0.39)	0.25 (0.18-0.34)	0.16 (0.10-0.26)
V. Somatic symptoms	0.43 (0.35-0.54)	0.45 (0.37-0.55)	0.39 (0.30-0.50)
VI. Suicidal ideation	0.70 (0.63-0.78)	0.69 (0.62-0.77)	0.68 (0.61-0.76)
VII. Psychosis	0.71 (0.63-0.80)	0.71 (0.64-0.79)	0.71 (0.63-0.80)
VIII. Sleep problems	0.48 (0.40-0.58)	0.51 (0.43-0.60)	0.44 (0.36-0.54)
IX. Memory	0.71 (0.63-0.79)	0.71 (0.64-0.79)	0.67 (0.58-0.76)
X. Repetitive thoughts and behaviors	0.52 (0.44-0.62)	0.55 (0.48-0.64)	0.49 (0.41-0.59)
XI. Dissociation	0.55 (0.48-0.64)	0.58 (0.50-0.66)	0.51 (0.43-0.60)
XII. Personality functioning	0.33 (0.26-0.43)	0.36 (0.28-0.45)	0.29 (0.22-0.39)
XIII. Substance use	0.67 (0.56-0.81)	0.72 (0.61-0.86)	0.70 (0.58-0.85)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 72. Negative likelihood ratios of DSM-XC domains for post-traumatic stress disorder, after removing the clinical impairment criteria.

Domain	Intensity	Frequency	“OR”
I. Depression	0.55 (0.47-0.65)	0.55 (0.49-0.63)	0.47 (0.39-0.57)
II. Anger	0.60 (0.53-0.69)	0.62 (0.55-0.69)	0.54 (0.47-0.63)
III. Mania	0.76 (0.69-0.84)	0.77 (0.70-0.84)	0.68 (0.60-0.77)
IV. Anxiety	0.37 (0.29-0.47)	0.40 (0.33-0.49)	0.29 (0.22-0.39)
V. Somatic symptoms	0.54 (0.46-0.63)	0.53 (0.46-0.61)	0.51 (0.43-0.60)
VI. Suicidal ideation	0.87 (0.82-0.92)	0.85 (0.80-0.90)	0.86 (0.81-0.92)
VII. Psychosis	0.72 (0.66-0.79)	0.70 (0.64-0.76)	0.73 (0.66-0.80)
VIII. Sleep problems	0.66 (0.59-0.74)	0.62 (0.56-0.70)	0.60 (0.53-0.68)
IX. Memory	0.78 (0.72-0.85)	0.79 (0.74-0.85)	0.76 (0.70-0.83)
X. Repetitive thoughts and behaviors	0.54 (0.48-0.62)	0.60 (0.54-0.67)	0.50 (0.43-0.57)
XI. Dissociation	0.71 (0.64-0.78)	0.73 (0.68-0.80)	0.69 (0.62-0.76)
XII. Personality functioning	0.56 (0.49-0.64)	0.54 (0.47-0.61)	0.49 (0.41-0.57)
XIII. Substance use	0.67 (0.58-0.77)	0.64 (0.55-0.75)	0.66 (0.56-0.77)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 73. Negative likelihood ratios of DSM-XC domains for social anxiety disorder, after removing the clinical impairment criteria.

Domain	Intensity	Frequency	“OR”
I. Depression	0.54 (0.45-0.64)	0.66 (0.60-0.74)	0.47 (0.39-0.57)
II. Anger	0.69 (0.61-0.78)	0.76 (0.69-0.83)	0.65 (0.57-0.74)
III. Mania	0.81 (0.74-0.89)	0.85 (0.79-0.92)	0.80 (0.72-0.88)
IV. Anxiety	0.41 (0.33-0.51)	0.52 (0.45-0.61)	0.33 (0.25-0.43)
V. Somatic symptoms	0.72 (0.64-0.82)	0.74 (0.67-0.82)	0.68 (0.60-0.78)
VI. Suicidal ideation	0.84 (0.79-0.90)	0.86 (0.81-0.90)	0.83 (0.78-0.89)
VII. Psychosis	0.82 (0.76-0.88)	0.84 (0.78-0.89)	0.82 (0.76-0.89)
VIII. Sleep problems	0.71 (0.64-0.79)	0.72 (0.65-0.79)	0.66 (0.58-0.74)
IX. Memory	0.78 (0.71-0.85)	0.83 (0.78-0.89)	0.77 (0.70-0.84)
X. Repetitive thoughts and behaviors	0.72 (0.66-0.80)	0.78 (0.72-0.84)	0.71 (0.64-0.78)
XI. Dissociation	0.79 (0.73-0.86)	0.82 (0.77-0.88)	0.77 (0.70-0.83)
XII. Personality functioning	0.62 (0.54-0.70)	0.68 (0.61-0.75)	0.61 (0.53-0.70)
XIII. Substance use	0.82 (0.72-0.93)	0.84 (0.74-0.95)	0.81 (0.71-0.93)

DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 74. Sensitivity differences between DSM-XC question framings (intensity and frequency), after removing the clinical impairment criteria.

Diagnosis	Sensitivity difference (median*)	P-value
Antisocial personality disorder	0.03	0.20
Attention-deficit/hyperactivity disorder	0.07	<0.01
Bipolar disorder	0.03	0.02
Generalized anxiety disorder	0.07	<0.01
Major depressive disorder	0.03	<0.01
Post-traumatic stress disorder	0.06	<0.01
Social anxiety disorder	0.09	<0.01

*Median of the differences between the two groups using paired Wilcoxon tests. Intensity was used as the reference group for the comparisons with frequency. Intensity and frequency represent how the instrument would perform if questions were asked with separate frames. A bold font indicates statistical significance in the comparison between frames or between rules. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 75. Specificity differences between DSM-XC question framings (intensity and frequency), after removing the clinical impairment criteria.

Diagnosis	Specificity difference (median*)	P-value
Antisocial personality disorder	-0.07	<0.01
Attention-deficit/hyperactivity disorder	-0.07	<0.01
Bipolar disorder	-0.07	<0.01
Generalized anxiety disorder	-0.08	<0.01
Major depressive disorder	-0.07	<0.01
Post-traumatic stress disorder	-0.07	<0.01
Social anxiety disorder	-0.07	<0.01

*Median of the differences between the two groups using paired Wilcoxon tests. Intensity was used as the reference group for the comparisons with frequency. Intensity and frequency represent how the instrument would perform if questions were asked with separate frames. A bold font indicates statistical significance in the comparison between frames or between rules. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 76. Diagnostic accuracy differences between DSM-XC question framings (intensity and frequency), after removing the clinical impairment criteria.

Diagnosis	Diagnostic accuracy difference (median*)	P-value
Antisocial personality disorder	-0.07	<0.01
Attention-deficit/hyperactivity disorder	-0.06	<0.01
Bipolar disorder	-0.07	<0.01
Generalized anxiety disorder	-0.05	<0.01
Major depressive disorder	-0.06	<0.01
Post-traumatic stress disorder	-0.07	<0.01
Social anxiety disorder	-0.06	<0.01

*Median of the differences between the two groups using paired Wilcoxon tests. Intensity was used as the reference group for the comparisons with frequency. Intensity and frequency represent how the instrument would perform if questions were asked with separate frames. A bold font indicates statistical significance in the comparison between frames or between rules. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 77. LR+ differences between DSM-XC question framings (intensity and frequency), after removing the clinical impairment criteria.

Diagnosis	LR+ difference (median*)	P-value
Antisocial personality disorder	-0.58	<0.01
Attention-deficit/hyperactivity disorder	-0.47	<0.01
Bipolar disorder	-1.27	<0.01
Generalized anxiety disorder	-1.14	<0.01
Major depressive disorder	-1.63	<0.01
Post-traumatic stress disorder	-1.30	<0.01
Social anxiety disorder	-0.58	<0.01

*Median of the differences between the two groups using paired Wilcoxon tests. Intensity was used as the reference group for the comparisons with frequency. Intensity and frequency represent how the instrument would perform if questions were asked with separate frames. A bold font indicates statistical significance in the comparison between frames or between rules. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.

Supplementary table 78. LR- differences between DSM-XC question framings (intensity and frequency), after removing the clinical impairment criteria.

Diagnosis	LR- difference (median*)	P-value
Antisocial personality disorder	0.03	0.57
Attention-deficit/hyperactivity disorder	-0.01	0.34
Bipolar disorder	0.02	0.18
Generalized anxiety disorder	-0.03	0.03
Major depressive disorder	-0.00	1.00
Post-traumatic stress disorder	0.00	0.94
Social anxiety disorder	-0.04	<0.01

*Median of the differences between the two groups using paired Wilcoxon tests. Intensity was used as the reference group for the comparisons with frequency. Intensity and frequency represent how the instrument would perform if questions were asked with separate frames. A bold font indicates statistical significance in the comparison between frames or between rules. DSM-XC, DSM-5-TR Level 1 Cross-Cutting Symptom Measure.