

## Supplementary material

# Age at onset of mental disorders worldwide: large-scale meta-analysis of 192 epidemiological studies

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## e-methods

Methods for estimating the histograms of age at disorder onset for each individual study included in the current meta-analysis were the following. For studies reporting the proportion of individuals whose age at disorder onset was in each age group, we calculated the sum of square errors (SSE) between the proportions reported (observed) in the studies, and the proportions derived (expected) from the histogram as:

$$SSE_{i,j} = w_i \cdot \left( \frac{p_{i,j,observed} - p_{i,j,expected}}{width_{i,j}} \right)^2$$

where  $w_i$  is the weight of the  $i^{\text{th}}$  study,  $p_{i,j,observed}$  and  $p_{i,j,expected}$  are the observed and expected proportions of individuals in the  $j^{\text{th}}$  age group of the  $i^{\text{th}}$  study, and  $width_{i,j}$  is the width (in years) of the  $j^{\text{th}}$  group of the  $i^{\text{th}}$  study. The weight of a study was the product of the number of included individuals and the squared age range of these individuals; in pilot analyses, we had found that this weight returned estimations similar to the estimations found when only including large ( $n > 1,000$ ) studies. The expected proportions were previously scaled, so that their sum was one.

We applied the same calculations to studies reporting percentiles, as the percentiles define groups of age at disorder onset, e.g., if percentile 75% is 16-years of age at disorder onset and percentile 90% is 25-years of age at disorder onset, the group of individuals whose age at disorder onset was 16-25-year represent 15% of the individuals.

For studies reporting incidences in different age groups at disorder onset, we first converted the incidences into proportions assuming a simplified population age pyramid with a constant number of individuals with a given age until 50-year-old and then a linear decrease until 100-year-old. Afterward, we applied the same calculations as for studies reporting proportions.

Finally, for studies reporting descriptive statistics, we calculated the *SSE* between the statistics reported (observed) in the studies and the statistics derived (expected) from the histogram as:

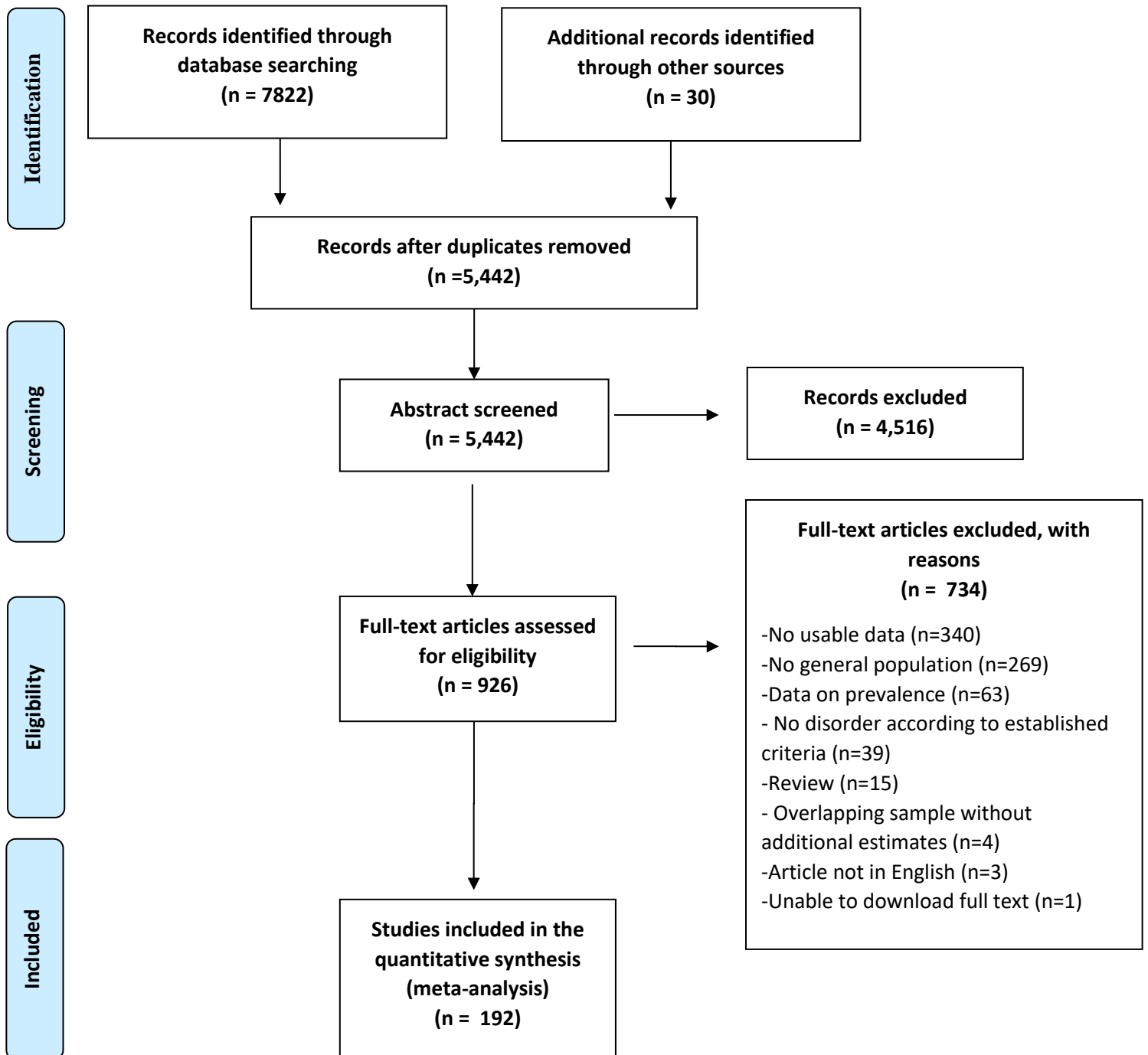
$$SSE_{i,j} = k \cdot w_i \cdot (y_{i,j,observed} - y_{i,j,expected})^2$$

where  $k$  is a constant to scale the errors, and  $y_{i,j,observed}$  and  $y_{i,j,expected}$  are the observed and expected  $j^{\text{th}}$  statistics of the  $i^{\text{th}}$  study. In preliminary analyses, we found that with  $k = 6.5e^{-7}$ , the  $SSE_{i,j}$  of a median introduced as a statistic was similar to the  $SSE_{i,j}$  of a median introduced as the percentile 50%. We censored the expected statistics to the maximum age of the corresponding study.

We used the method from Nelder and Mead[1] iteratively to find the histogram with the minimum overall SSE. In pilot analyses, we had observed that this estimation sometimes led to spurious histogram peaks without clear relationship to the data. To minimize these spurious peaks, we smoothed the histogram and repeated the estimation from the smoothed histogram 30 times.

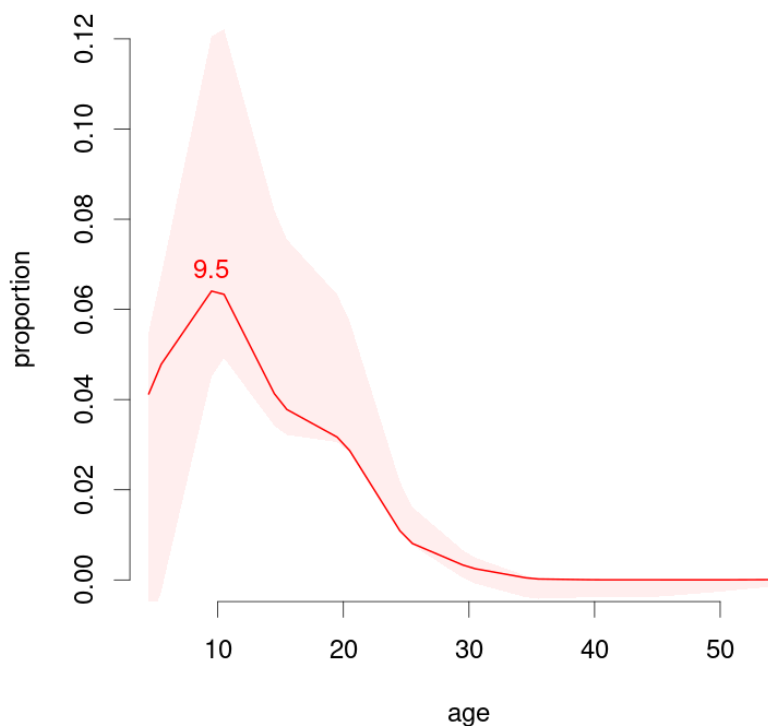
We conducted all analyses in R[2].

**e-figure 1. PRISMA flow chart of study selection**

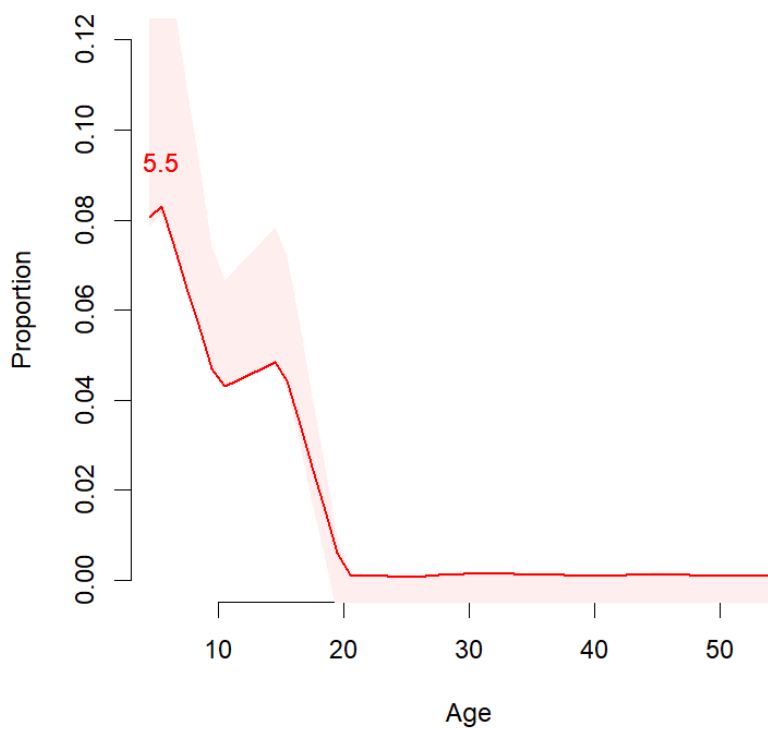


e-figures 2-17. Epidemiological proportion (y axis) and age peaks at onset (red line) of specific disorders in the general population, with 95% CIs (pink shadows).

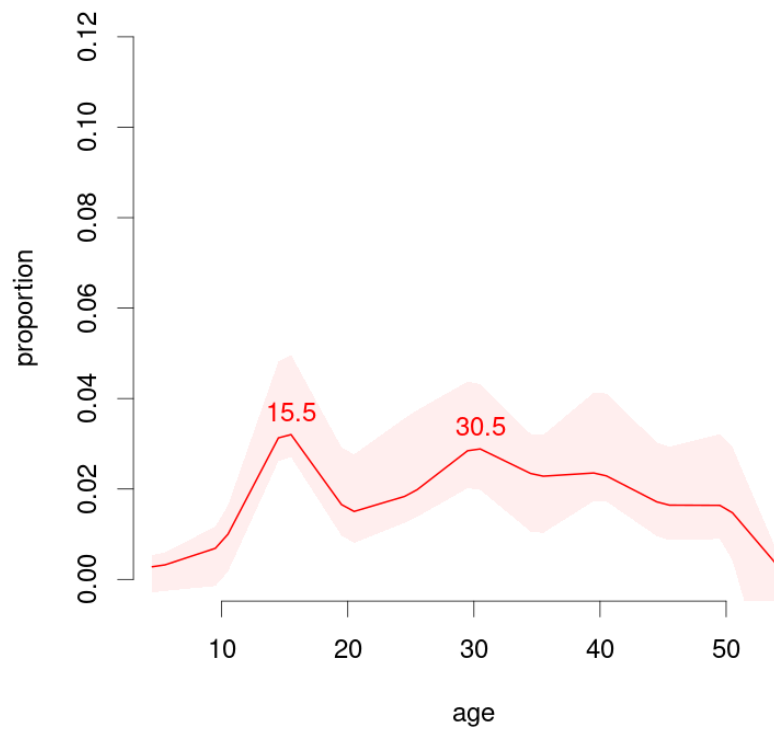
e-figure 2. Curve of age at onset for attention deficit/hyperactivity disorder.



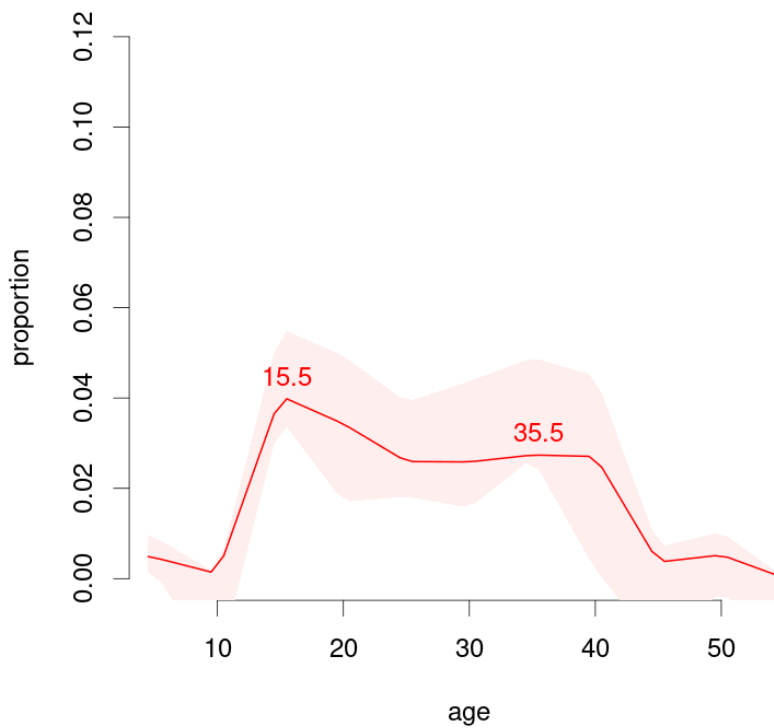
e-figure 3. Curve of age at onset for autism spectrum disorder.



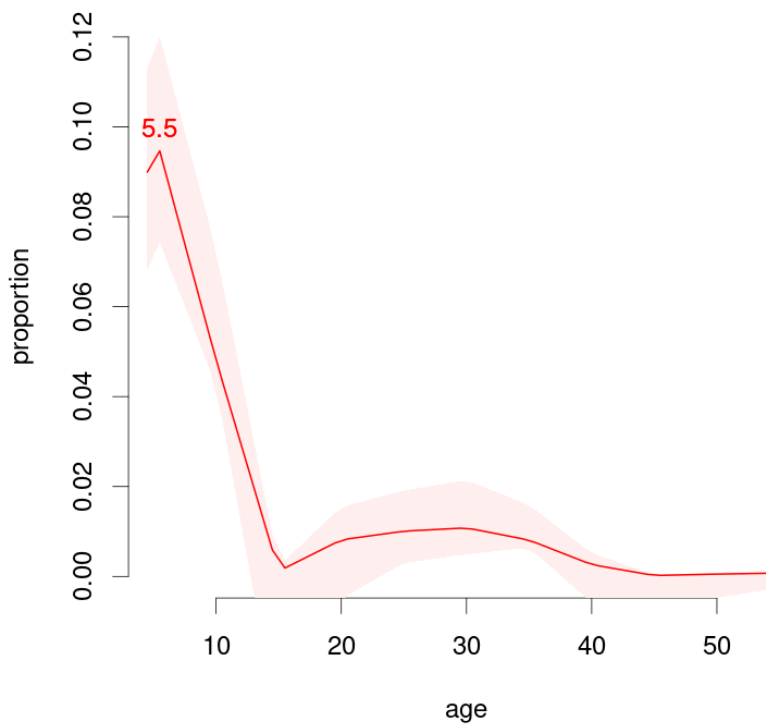
**e-figure 4. Curve of age at onset for generalized anxiety disorder.**



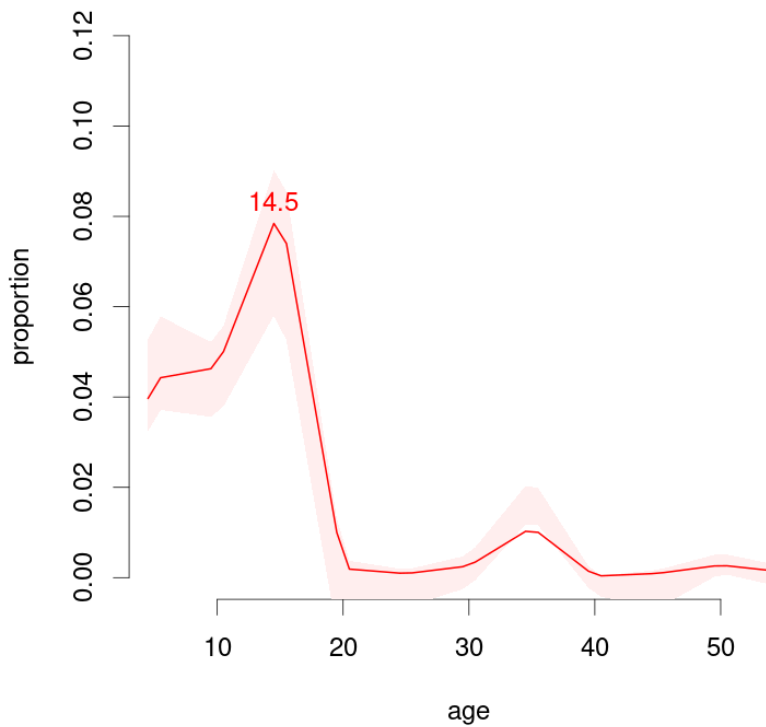
**e-figure 5. Curve of age at onset for panic disorder.**



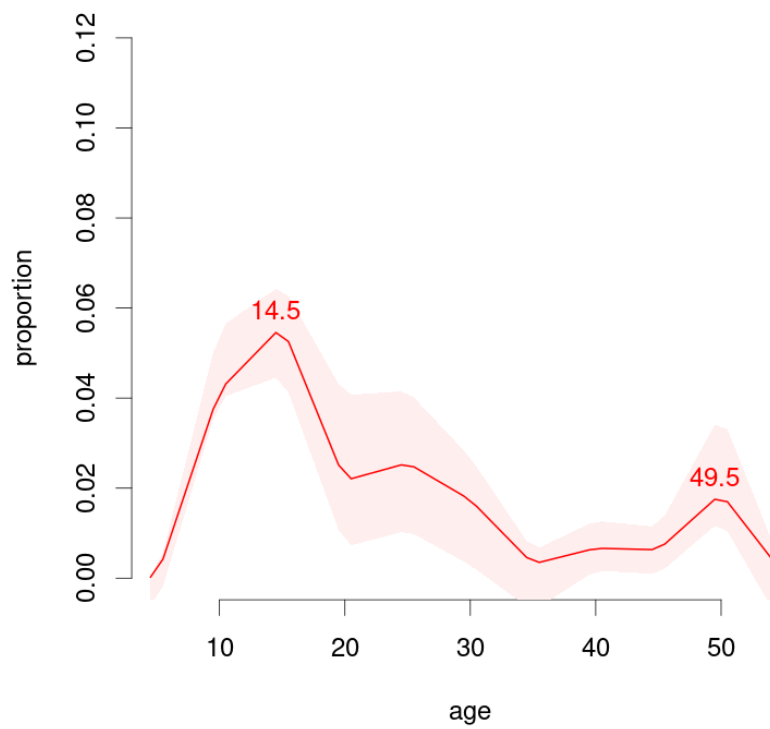
**e-figure 6. Curve of age at onset for specific phobias and separation anxiety disorder.**



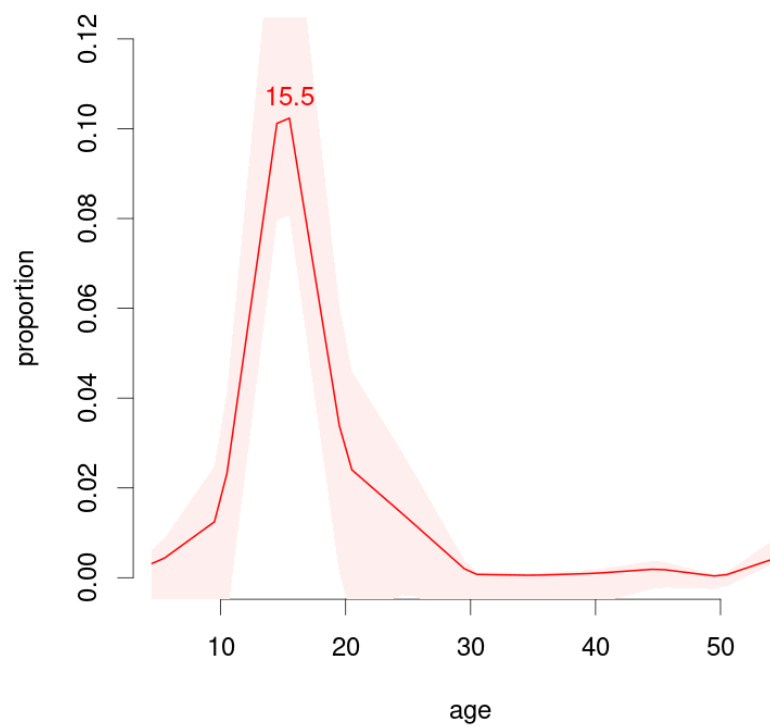
**e-figure 7. Curve of age at onset for social anxiety disorder.**



**e-figure 8. Curve of age at onset for obsessive-compulsive disorder.**

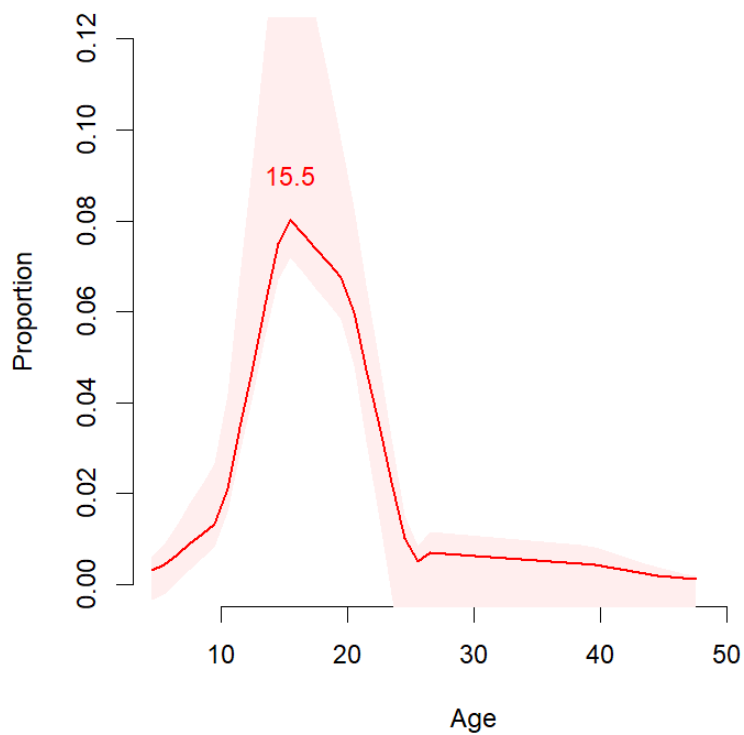


**e-figure 9. Curve of age at onset for anorexia nervosa.**

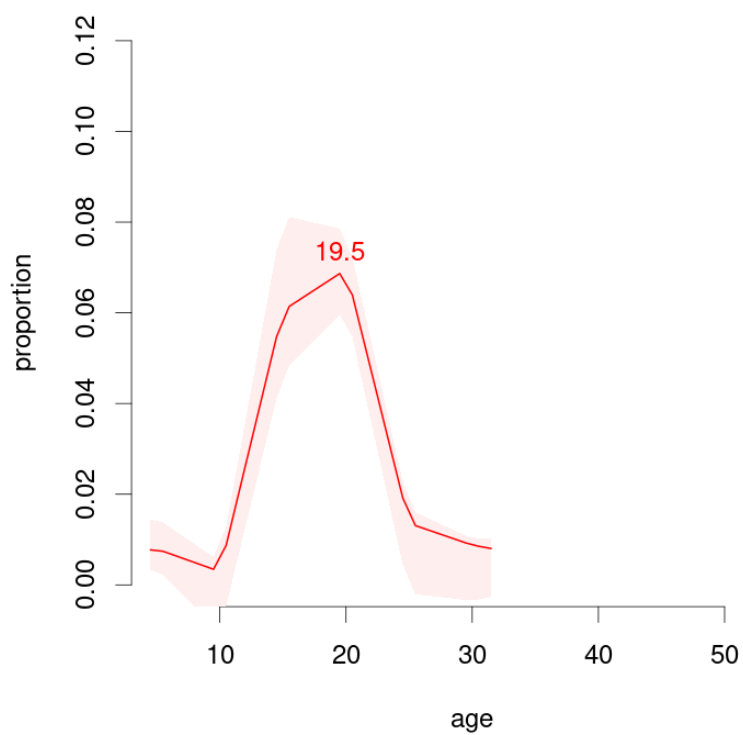




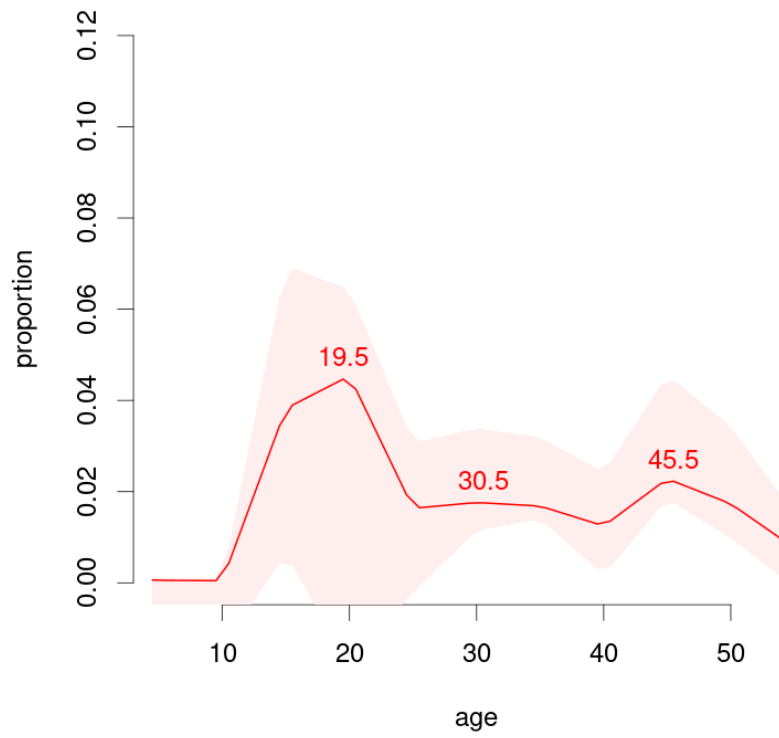
**e-figure 10. Curve of age at onset for bulimia nervosa.**



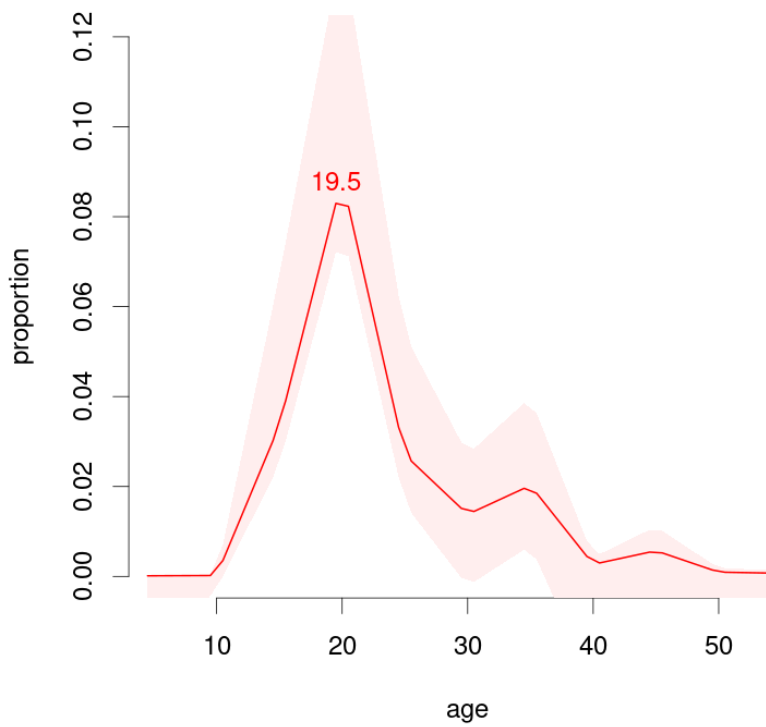
**e-figure 11. Curve of age at onset for binge eating disorder.**



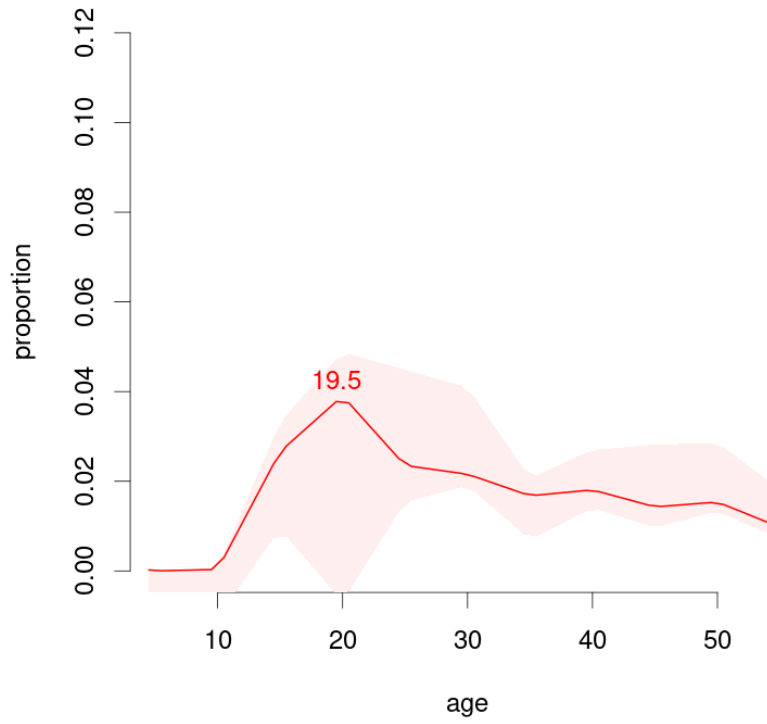
**e-figure 12. Curve of age at onset for disorders due to use of alcohol.**



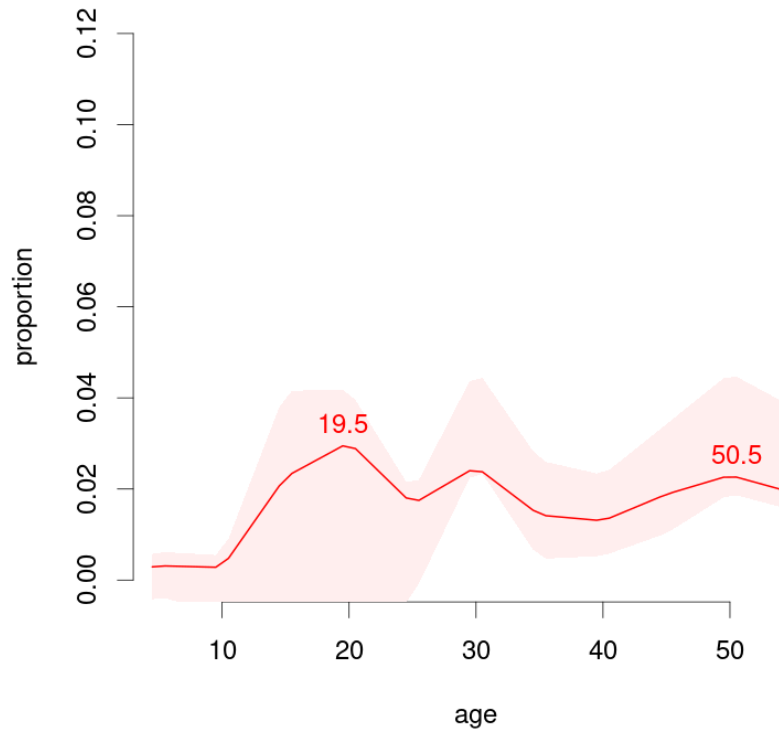
**e-figure 13. Curve of age at onset for disorders due to use of cannabis.**



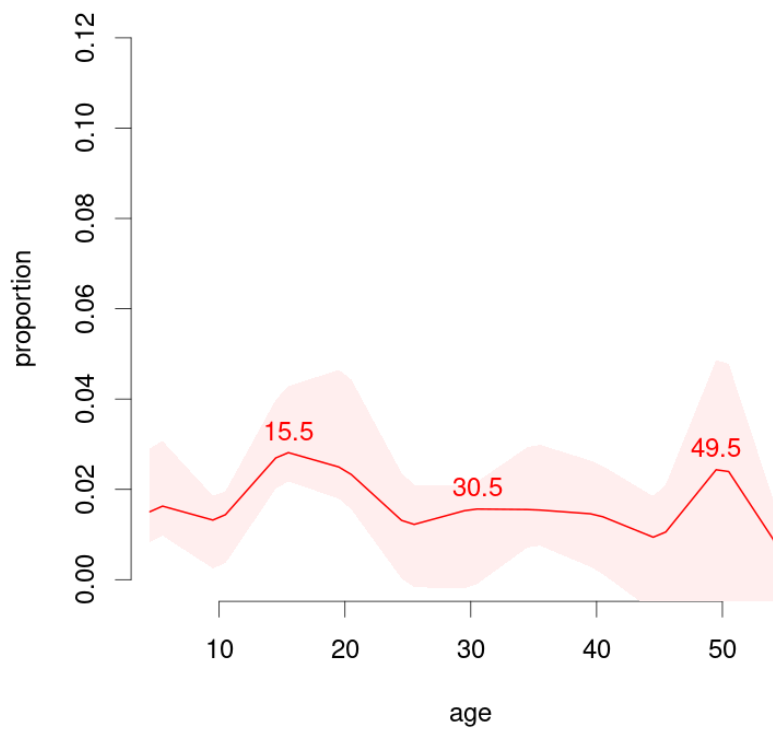
**e-figure 14. Curve of age at onset for depressive disorder.**



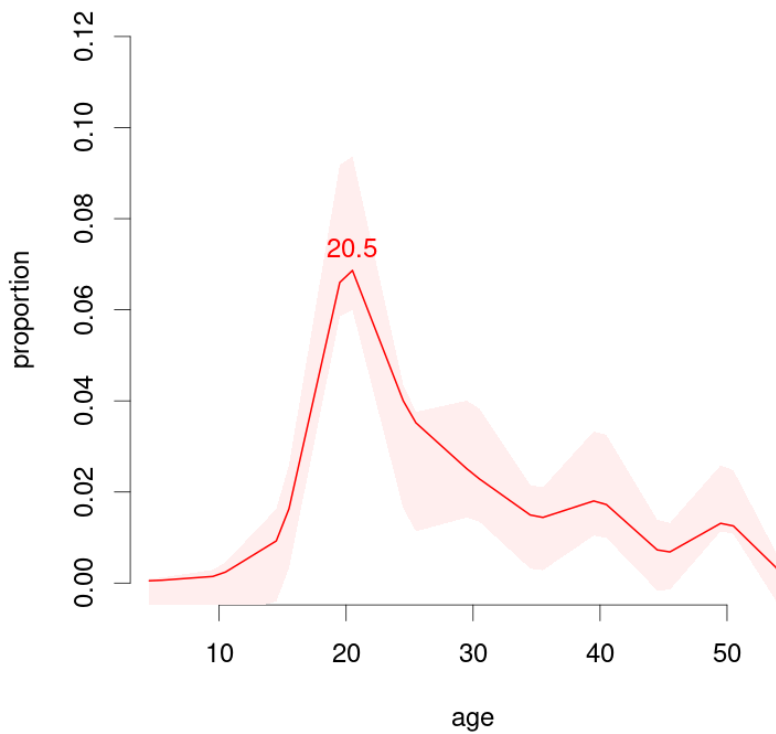
**e-figure 15. Curve of age at onset for bipolar or related disorder.**



**e-figure 16. Curve of age at onset for post-traumatic stress disorder.**



**e-figure 17. Curve of age at onset for schizophrenia.**



e-table 1. PRISMA check-list[3]

Section/topic	#	Checklist item	Reported on page #
<b>TITLE</b>			
Title	1	Identify the report as a systematic review, meta-analysis, or both.	1
<b>ABSTRACT</b>			
Structured summary	2	Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number.	3
<b>INTRODUCTION</b>			
Rationale	3	Describe the rationale for the review in the context of what is already known.	4
Objectives	4	Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).	4
<b>METHODS</b>			
Protocol and registration	5	Indicate if a review protocol exists, if and where it can be accessed (e.g., Web address), and, if available, provide registration information including registration number.	5
Eligibility criteria	6	Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.	5
Information sources	7	Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.	5
Search	8	Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.	5
Study selection	9	State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).	5
Data collection process	10	Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators.	5
Data items	11	List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.	5

Risk of bias in individual studies	12	Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.	6
Summary measures	13	State the principal summary measures (e.g., risk ratio, difference in means).	6
Synthesis of results	14	Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., I <sup>2</sup> ) for each meta-analysis.	6
Risk of bias across studies	15	Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies).	6
Additional analyses	16	Describe methods of additional analyses (e.g., sensitivity or subgroup analyses, meta-regression), if done, indicating which were pre-specified.	6
<b>RESULTS</b>			
Study selection	17	Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram.	7, figure 1
Study characteristics	18	For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations.	e-table 3
Risk of bias within studies	19	Present data on risk of bias of each study and, if available, any outcome level assessment (see item 12).	e-table 3
Results of individual studies	20	For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each intervention group (b) effect estimates and confidence intervals, ideally with a forest plot.	-
Synthesis of results	21	Present results of each meta-analysis done, including confidence intervals and measures of consistency.	figures 2-4, table 1-2, e-figures 2-17
Risk of bias across studies	22	Present results of any assessment of risk of bias across studies (see Item 15).	e-table 3
Additional analysis	23	Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16]).	8, table 2, e-table 5
<b>DISCUSSION</b>			
Summary of evidence	24	Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to key groups (e.g., healthcare providers, users, and policy makers).	8
Limitations	25	Discuss limitations at study and outcome level (e.g., risk of bias), and at review-level (e.g., incomplete retrieval of identified research, reporting bias).	10
Conclusions	26	Provide a general interpretation of the results in the context of other evidence, and implications for future research.	10

<b>FUNDING</b>			
Funding	27	Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review.	10

**e-table 2. MOOSE Checklist for Meta-analyses of Observational Studies [4]**

Item No	Recommendation	Reported on Page No
Reporting of background should include		
1	Problem definition	4
2	Hypothesis statement	4
3	Description of study outcome(s)	7
4	Type of exposure or intervention used	5
5	Type of study designs used	5
6	Study population	5
Reporting of search strategy should include		
7	Qualifications of searchers (eg, librarians and investigators)	5
8	Search strategy, including time period included in the synthesis and key words	5
9	Effort to include all available studies, including contact with authors	-
10	Databases and registries searched	5
11	Search software used, name and version, including special features used (eg, explosion)	5
12	Use of hand searching (eg, reference lists of obtained articles)	5
13	List of citations located and those excluded, including justification	e-table 3, e-table 4
14	Method of addressing articles published in languages other than English	-
15	Method of handling abstracts and unpublished studies	-
16	Description of any contact with authors	5
Reporting of methods should include		
17	Description of relevance or appropriateness of studies assembled for assessing the hypothesis to be tested	4-5
18	Rationale for the selection and coding of data (eg, sound clinical principles or convenience)	6
19	Documentation of how data were classified and coded (eg, multiple raters, blinding and interrater reliability)	5



20	Assessment of confounding (eg, comparability of cases and controls in studies where appropriate)	6
21	Assessment of study quality, including blinding of quality assessors, stratification or regression on possible predictors of study results	6
22	Assessment of heterogeneity	6
23	Description of statistical methods (eg, complete description of fixed or random effects models, justification of whether the chosen models account for predictors of study results, dose-response models, or cumulative meta-analysis) in sufficient detail to be replicated	6
24	Provision of appropriate tables and graphics	Tables 1-2, e-tables 5, Figures 2-4, e-figures 2-17
Reporting of results should include		
25	Graphic summarizing individual study estimates and overall estimate	Figures 2-4
26	Table giving descriptive information for each study included	e-table 3
27	Results of sensitivity testing (eg, subgroup analysis)	Table 2, e-table 5
28	Indication of statistical uncertainty of findings	Figures 2-4, e-figures 2-17
Reporting of discussion should include		
29	Quantitative assessment of bias (eg, publication bias)	-
30	Justification for exclusion (eg, exclusion of non-English language citations)	-
31	Assessment of quality of included studies	6, e-table 3
Reporting of conclusions should include		
32	Consideration of alternative explanations for observed results	-
33	Generalization of the conclusions (ie, appropriate for the data presented and within the domain of the literature review)	10
34	Guidelines for future research	10
35	Disclosure of funding source	10

**e-table 3. Characteristics of included studies**

Author	Country	Design	Study	Age	Female %	Population	Individuals	Disorders	Diagnostic criteria	Onset definition
Abajobir[5]	Australia	BC	Mater Hospital-University of Queensland Study of Pregnancy	21+	ns	2,526	1,296	Cannabis abuse disorder, cannabis dependence	DSM-IV, ICD-10	First symptom
Al- Hamzawi [6]	Iraq	CS	Iraqi Mental Health Survey	18+	50	4,332	74	Intermittent explosive disorder	DSM-IV	First symptom
Alem [7]	Ethiopia	PC	Rural community	15 to 49	ns	68,378	295	Schizophrenia	ICD-10	First symptom
Al-Hamzawi [8]	Iraq	CS	Iraqi Mental Health Survey	18+	50	4,332	187	Intermittent explosive disorder, major depressive disorder	DSM-IV	First symptom
Angst [9]	U.S.	CS	National Comorbidity Survey Replication	13+	Ns	5,692	1,093	Bipolar disorder, major depressive disorder	DSM-IV	First symptom
Angst [10]	Switzerland	PC	The Zurich Study	20 to 40	ns	4,547	591	Generalized anxiety disorder	ICD-10, DSM-III	First symptom
Angst[11]	Switzerland	PC	The Zurich Study	20 to 30		4,547	591	Major depressive disorder	DSM-III	First diagnosis
Bantjes [12]	South Africa	CS	University students	0-21	55	1,402	540	Alcohol use disorder, bipolar disorder, generalized anxiety disorder, major depressive disorder, substance use disorder.	ICD-10, DSM-IV	First symptom
Becker [13]	Germany	PC	Dresden Study of Mental Health	18 to 24	ns	2,064	107	Specific phobia for animals, heights, environments, storm, water, blood, situational, flights, lift, driving, physical, doctors, vomiting, infections, others.	DSM-IV	First symptom
Bienvenu[14]	U.S.	CS	Baltimore ECA Follow-up Study	18+	ns	1,724	60	Specific phobia	DSM-III	First symptom
Birrell [15]	Australia	CS	Australian National Survey of Mental Health and Wellbeing	16 to 85	ns	8,841	225	Bipolar disorder, major depressive disorder, dysthymia	DSM-IV	First diagnosis
Blanco [16]	U.S.	CS	National Epidemiologic Survey on Alcohol and Related Conditions	18+	Ns	43,093	7,124	Major depressive episode	DSM-IV	First diagnosis
Bland [17]	Canada	CS	Edmonton survey	18+	ns	3,258	198	Alcohol abuse, alcohol dependence, any substance use disorder, antisocial personality disorder, major depressive disorder, manic episode, panic disorder, obsessive-compulsive disorder, phobia, schizophrenia.	DSM-III	First symptom
Bogren[18]	Sweden	CS	The Lundby Cohort	0 to 92	48.70	3,505	432	Bipolar depression, dysthymic disorder, depressive disorder NOS, major depressive disorder, melancholic mood disorder, non-melancholic mood disorder, other mood disorders	DSM-IV	First diagnosis
Bonnewyn [19]	Belgium	CS	European Study on the Epidemiology of Mental Disorders	18+	52	2,419	367	Alcohol use disorder, bipolar disorder, dysthymia, generalized anxiety disorder, major depressive disorder, panic disorder, post-traumatic stress disorder, social phobia, specific phobia.	DSM-IV	First symptom
Borgers[20]	Mexico	CS	Mexican National Comorbidity Survey (2001-2002)	18 to 65	ns	5,782	1,588	Alcohol abuse, alcohol dependence, bipolar disorder, dysthymia, generalized anxiety disorder, major depressive disorder, panic disorder, social phobia, specific phobia, substance abuse, substance dependence	DSM-IV	First symptom
Bromet [21]	Belgium, Brazil, China, Colombia, France, Germany, India, Israel, Italy, Japan, Lebanon, Mexico, Netherlands, New Zealand, South Africa, Spain, Ukraine, USA	CS	World Mental Health Survey	18+	66.6	89,037	11,525	Major depressive episode	DSM-IV	First diagnosis
Bromet [22]	Ukraine	CS	ns	18+	ns	4,725	ns	Agoraphobia, alcohol dependence, bipolar disorder, dysthymia, generalized anxiety disorder, major depressive disorder, obsessive-compulsive disorder, panic disorder, post-traumatic stress disorder, social phobia, specific phobia, intermittent explosive disorder	DSM-IV	First symptom
Buckner [23]	U.S.	CS	National Epidemiological Survey on	18+	ns	43,093	1,643	Alcohol dependence, social anxiety disorder	DSM-IV	First diagnosis

Author	Country	Design	Study	Age	Female %	Population	Individuals	Disorders	Diagnostic criteria	Onset definition
			Alcohol AND Related Conditions							
Burke [24]	U.S.	CS	National Institute of Mental Health Epidemiologic Catchment Area Program,	18+	ns	20,861	9,127	Alcohol dependence, bipolar disorder, depressive disorder, obsessive-compulsive disorder, panic disorder, specific phobia, substance dependence	DSM-III	First diagnosis
Burnhams [25]	South Africa	CS	World Mental Health Survey	18+	ns	4,315	380	Alcohol abuse, alcohol dependence	DSM-IV	First diagnosis
Burns[26]	South Africa	PC	Cohort from the Province of KwaZulu-Natal	16+	ns	ns	54	Schizophrenia spectrum disorders	DSM-IV-TR	First symptom
Burstein [27]	U.S.	CS	National Comorbidity Survey-Adolescent Supplement	13-18	51	10,123	1,742	Social phobia	DSM-IV	First symptom
Burstein [28]	U.S.	CS	National Comorbidity Survey-Adolescent Supplement	13-18	51	10,123	3,826	Specific phobia	DSM-IV	First symptom
Caraveo-Anduaga[29]	Mexico	CS	Mexico City Cohort	18 to 65	ns	1,932	27	Obsessive-compulsive disorder	ICD-10	ns
Castagnini [30]	Denmark	CS	ns	15 to 64	ns	3,565,833	3,350	Acute and transient psychotic disorder, bipolar disorder, schizophrenia	ICD-10	First diagnosis
Chang [31]	Hong Kong	PC	Early assessment service for young people with psychosis	15 to 25	ns	ns	461	Psychotic mood disorder, schizophrenia,	ICD-10	First symptom
Chapman [32]	Australia	CS	Australian National Survey of Mental Health and Wellbeing	16-85	Ns	8,841	ns	Post-traumatic stress disorder	DSM-IV	ns
Cheng[33]	Taiwan	CS	The Taiwan Aboriginal Study Project	15+	ns	993	478	Alcohol dependence	DSM-III-R, ICD-10	Ns
Cho [34]	South Korea	CS	Korean Epidemiologic Catchment Area Study Replication	18 to 64	60.4	6,510	1,601	Alcohol abuse, alcohol dependence, dysthymia, generalized anxiety disorder, major depressive disorder, obsessive-compulsive disorder, post-traumatic stress disorder, specific phobia	DMS IV	First symptom
Chong [35]	Singapore	CS	Singapore Mental Health Study	18+	ns	6,616	417	Major depressive disorder	ICD-10, DSM-IV	First symptom
Christie[36]	U.S.	CS	NIHM Epidemiologic Catchment Area	18+	ns	18,572	5,202	Alcohol abuse, alcohol dependence, anxiety disorders, bipolar disorder, major depressive disorder, substance abuse, substance dependence	DSM-III	First symptom
Cla [37]	Argentina	CS	Argentinean Study of Mental Health Epidemiology	18 to 75	ns	3,927	1,032	Alcohol abuse, alcohol dependence, attention deficit/hyperactivity disorder, bipolar disorder, dysthymia, generalized anxiety disorder, major depressive disorder, obsessive-compulsive disorder, oppositional-defiant disorder, panic disorder, post-traumatic stress disorder, separation anxiety disorder, social phobia, specific phobia, substance abuse, substance dependence	DSM-IV	First diagnosis
Cillicilli[38]	Turkey	CS	Konya Cohort	18+	52.9	3,012	89	Obsessive-compulsive disorder	DSM-IV	ns
Cooper [39]	Croatia	PC	Croatian Psychiatry Case Register	0-31	ns	80,445	464	Schizophrenia	Hospital record	First hospitalization
Dakwar [40]	U.S.	CS	National Epidemiologic Survey on Alcohol and Related Conditions	0-18	ns	34,653	616	Attention deficit/hyperactivity disorder	DSM-IV	First diagnosis
Dalsgaard [41]	Denmark	BC	Danish registry	0-18	ns	1,300,000	99,926	Acute and transient psychosis, alcohol abuse, anorexia nervosa, anxiety disorder, attachment disorder, attention deficit/hyperactivity disorder, Asperger syndrome, autism-spectrum disorders, bipolar disorder, bulimia nervosa, cannabis abuse, depression, eating disorder, intellectual disability, mood disorder, obsessive-compulsive disorder, other developmental disorders, personality disorder, schizophrenia-spectrum disorders, substance use disorder, tic disorder.	ICD-10	First diagnosis
De Jonge [42]	Australia, Belgium, Brazil, Bulgaria, China, Colombia, France,	CS	World Mental Health Survey	18+	ns	142,949	2,430	Panic disorder	DSM-V	First diagnosis

Author	Country	Design	Study	Age	Female %	Population	Individuals	Disorders	Diagnostic criteria	Onset definition
	Germany, Iraq, Israel, Italy, Japan, Lebanon, Mexico, New Zealand, Nigeria, Northern Ireland, Peru, Poland, Portugal, Romania, Spain, The Netherlands, Ukraine, U.S.									
De Vries[43]	The Netherlands	CS	Netherlands Mental Health Survey and Incidence Study-2 (NEMESIS-2)	18 to 64	49.58	5,302	2,236	Any mental disorder	DSM-IV	ns
Degenhardt [44]	Australia	CS	Australian National Survey of Mental Health and Wellbeing	18 to 65	50.4	8,463	1,582	Alcohol abuse, alcohol dependence, cannabis abuse, cannabis dependence	DSM-IV	ns
Deutsch [45]	Australia	CS	Australian Twin Registry Cohort II and Cohort III	24 to 40	38.04	5,946	ns	Alcohol use disorder	Assessment for the Genetics of Alcoholism	First symptom
Dussault [46]	Canada	BC	Adolescents' Self-Report of Gambling	14-18	36	ns	297	Gambling	DSM-IV	First symptom
Esan [47]	Nigeria	CS	The Nigerian national survey of mental health and well-being	18+	51.0	6,752	ns	Alcohol abuse, alcohol dependence	DSM-IV	First symptom
Ezpeleta[48]	Spain	CS	Barcelona Preschool Cohort	3 to 9	50	622	156	Oppositional defiant disorder	DSM-IV	First symptom
Falk [49]	U.S.	CS	National Epidemiological Survey on Alcohol AND Related Conditions	18+	ns	43,093	6,427	Alcohol abuse, alcohol dependence, bipolar disorder, dysthymia, generalized anxiety disorder, major depressive disorder, panic disorder, social phobia, specific phobia.	DSM-IV	First diagnosis
Faravelli [50]	Italy	CS	National Health system from Sesto Fiorentino	0+	ns	23,435	555	Social phobia	DSM-IV	First symptom
Farmer [51]	U.S.	CS	Oregon Adolescent Depression Project	16 to 30	59	816	156	Cannabis use disorder	DSM-IV	First diagnosis
Fava [52]	U.S.	CS	National Comorbidity Survey Replication	18+	Ns	9,282	977	Major depressive episode	DSM-IV	First symptom
Fernandez-Pujals[53]	UK	CS	Scottish Family Health Study	18+	59	20,198	2,726	Major depressive disorder	DSM-IV	na
Fogarty [54]	Canada	CS	ns	18+	ns	3,258	22	Bipolar disorder	DSM-III	First symptom
Gabilondo [55]	Spain	CS	Community survey: ESEMeD-Spain	18+	ns	5,473	167	Major depressive disorder	ICD-10, DSM-IV	First symptom
Garfinkel [56]	Canada	CS	Mental Health Supplement to the Ontario Health Survey	15 to 64	ns	8,116	62	Bulimia nervosa	DSM-III-R	First diagnosis
Gilder [57]	U.S.	CS	Community survey on American Indian	18 to 70	ns	580	254	Alcohol abuse, alcohol dependence	DSM-III-R	First diagnosis
Gilder [58]	U.S.	CS	Community survey on American Indian	18+	ns	777	284	Alcohol use disorder, cannabis use disorder, stimulant use disorder, substance use disorder	DSM-V	First diagnosis
Gilman [59]	U.S.	PC	Providence, Rhode Island cohort of the National Collaborative Perinatal Project	0+	47.4	1,089	272	Major depressive disorder	DSM-III/IV	First diagnosis
Glantz [60]	Belgium, Brazil, Bulgaria, China, Colombia, France, Germany, India, Israel, Italy, Japan, Lebanon, Mexico, Netherlands, New Zealand, Nigeria, Romania, South Africa, Spain, Ukraine, U.S.	CS	Alcohol Abuse in the WMH Surveys	18+	ns	51,773	1,967	Alcohol abuse	DSM-IV	First symptom
Goncalves [61]	Australia	CS	National Survey of Mental Health and Well-Being	55-85	Ns	3,178	311	Generalized anxiety disorder	DSM-IV	First symptom
Gonzalez [62]	U.S.	CS	Collaborative Psychiatric Epidemiology Surveys	18+	Ns	17,967	4,797	Major depressive disorder	DSM-IV	First symptom
Griesler [63]	U.S.	PC	Ns	11-16	52.9	814	700	Anxiety disorders, disruptive behavior disorder, mood disorders, nicotine dependence	DSM-IV	First symptom
Gureje [64]	Nigeria	CS	Nigerian Survey of Mental Health and Wellbeing	18+	50.9	6,752	74	Major depressive episode	DSM-IV	First symptom
Gureje, [65]	Nigeria	CS	Nigerian Survey of Mental Health and	18+	41.5	6,752	440	Anxiety disorders, any disorder, mood disorders,	DSM-IV	First diagnosis

Author	Country	Design	Study	Age	Female %	Population	Individuals	Disorders	Diagnostic criteria	Onset definition
			Wellbeing					substance use disorders		
Hafner [66]	Denmark, Germany	BC	Danish and the Mannheim registers	12 to 59	Ns	5,065,000	527	Schizophrenia spectrum, schizophrenia	ICD-8	First hospitalization
Hafner [67]	Germany	CS	ABC study	12 to 59	52.4	1,500,000	267	Schizophrenia	ICD-9	First symptom or hospitalization
Hahm [68]	South Korea	CS	Korean Community	18 to 64	40.7	1,059	59	Alcohol use disorder	DSM-IV	First symptom
Hardeveld [69]	Netherlands	PC	The Netherlands Mental Health Survey and Incidence Study	18-64	68.0	ns	687	Major depressive disorder	DSM-III-R	ns
Hines [70]	Australia	CS	Australian twins and siblings Registry	12+	ns	3,798	371	Cannabis dependence	DSM-IV	First symptom
Hoertel[71]	U.S.	CS	National Epidemiologic Survey on Alcohol and Related Conditions (NESARC)	18+	ns	34,653	2,587	Major depressive disorder	DSM-IV	First diagnosis
Hofmeijer-Sevink [72]	Netherlands	PC	Netherlands Study of Depression and Anxiety	18 to 73	ns	2,981	1,004	Agoraphobia, generalized anxiety disorder, obsessive-compulsive disorder, panic disorder, post-traumatic stress disorder, social phobia, specific phobia	DSM-IV	First symptom
Hsu [73]	Taiwan	CS	Taiwan's National Health Insurance Database	0-18	ns	ns	401	Schizophrenia	ICD-9	First diagnosis
Hudson [74]	U.S.	CS	National Representative Survey of the U.S. NCS-R	18+	ns	9,282	23	Anorexia nervosa, binge eating disorder, bulimia nervosa	DSM-IV	First symptom
Isohanni[75]	Finland	CS	Northern Finland 1966 Birth Cohort	16 to 29	ns	10,581	409	Schizophrenia spectrum, other than psychotic disorders	DSM-III	First hospitalization
Joinson [76]	UK	BC	Avon Longitudinal Study of Parents and Children	10 to 20	ns	9,193	2,633	Major depressive disorder	ICD-10	First diagnosis
Jones [77]	UK	BC	Medical Research Council National Survey of Health and Development	16 to 43	48	4,746	30	Schizophrenia	DSM-III-R	First diagnosis
Karam [78]	Belgium, Brazil, Bulgaria, China, Colombia, France, Germany, Italy, Israel, Japan, Lebanon, Mexico, Netherlands, New Zealand, Northern Ireland, Romania, South Africa, Spain, Ukraine, U.S.	CS	World Mental Health Survey	18+		51,295	1,042	Post-traumatic stress disorder	DSM-IV	First diagnosis
Karam [79]	Lebanon	CS	Lebanese Evaluation of the Burden of Ailments and Needs Of the Nation	18+	54.6	2,857	491	Alcohol abuse, bipolar disorder, dysthymia, generalized anxiety disorder, intermittent explosive disorder, major depressive disorder, post-traumatic stress disorder, separation anxiety disorder, social phobia, specific phobia	DSM-IV	ns
Kasch [80]	U.S.	CS	The Epidemiologic Catchment Area study	18+	ns	18,571	180	Alcohol abuse, alcohol dependence, any substance use disorder, antisocial personality disorder, bipolar disorder, dysthymia, major depressive disorder, phobia, obsessive-compulsive disorder, panic disorder, schizophrenia, somatoform disorder	DSM-III	First symptom
Kathleen [81]	Brazil, Bulgaria, China, Colombia, India, Japan, Lebanon, Mexico, New Zealand, Romania, U.S.	CS	World Mental Health Survey	18+	ns	61,392	721	Bipolar disorder	DSM-IV	First symptom
Kebede [82]	Ethiopia	CS	Community survey in Butajira	15 to 49	ns	2,285	322	Schizophrenia	ICD-10	First symptom
Keenan [83]	U.S.	PC	Pittsburgh Girls Study	7-15	100	2,393	560	Conduct disorder	DSM-IV	First symptom
Kendell [84]	Ireland, Scotland	PC	Edinburgh psychiatric case register, Common services agency of the Scottish health service	15 to 39	ns	5,670,000	6,119	Schizophrenia, mood disorders	ICD-9	First hospitalization
Kessler [85]	U.S.	CS	National Comorbidity Survey-Adolescent Supplement	13-18	Ns	6,483	ns	Agoraphobia with/without panic, alcohol abuse, alcohol dependence, attention deficit hyperactivity	DSM-IV	First symptom

Author	Country	Design	Study	Age	Female %	Population	Individuals	Disorders	Diagnostic criteria	Onset definition
								disorder, bipolar disorder, conduct disorder, eating disorder, generalized anxiety disorder, major depressive episode, oppositional defiant disorder, panic disorder, post-traumatic stress disorder, separation anxiety disorder, social phobia, specific phobia, substance abuse, substance dependence		
Kessler [86]	U.S.	CS	National Representative Survey of the U.S.	18+	ns	5,692	ns	Agoraphobia, alcohol dependence, alcohol abuse, attention deficit/hyperactivity disorder, bipolar disorder, conduct disorder, dysthymia, generalized anxiety disorder, intermittent explosive disorder, major depressive, obsessive-compulsive disorder, oppositional-defiant disorder, panic disorder, post-traumatic stress disorder, separation anxiety disorder, specific phobia, substance abuse, substance dependence	DSM-IV	First symptom
Kessler [87]	U.S.	CS	National Comorbidity Survey	15-54	ns	8,098	1,993	Alcohol abuse, alcohol dependence	DSM-IV	First diagnosis
Kessler [88]	Belgium, Brazil, Colombia, France, Germany, Italy, Mexico, Netherlands, New Zealand, Northern Ireland, Portugal, Romania, Spain, U.S.	CS	World Mental Health Survey	18+	ns	24,124	ns	Bulimia nervosa, binge eating disorder	DSM-IV	First diagnosis
Kessler [89]	Belgium, China, Colombia, France, Germany, Israel, Italy, Japan, Lebanon, Mexico, New Zealand, South Africa, Spain, The Netherlands, Ukraine, U.S.	CS	World Mental Health Survey	18+	ns	85,052	24,449	Anxiety disorders, impulse control disorders, mood disorder, substance use disorder	DSM-IV	First diagnosis
Kessler [90]	Belgium, Brazil, Colombia, Italy, Mexico, Netherlands, New Zealand, Northern Ireland, Portugal, Romania, Spain, U.S.	CS	World Mental Health Survey	18+	ns	23,653	656	Binge eating disorder, bulimia nervosa	DSM-IV	First diagnosis
Kessler[91]	U.S.	CS	National Comorbidity Survey Replication (NCS-R)	18+	NA	9,282	2006	Panic disorder	DSM-IV	First symptom
Kim [92]	South Korea	PC	CRESCEND	16+	ns	1,183	723	Dysthymia, major depressive disorder	DSM-IV	First symptom
Kim-Cohen [93]	New Zealand	BC	Dunedin Multidisciplinary Health and Development Study	0 to 26	48	1,037	253	Agoraphobia, alcohol dependence, anorexia nervosa, antisocial personality disorder, bipolar disorder, bulimia nervosa, cannabis dependence, dysthymia, eating disorder, generalized anxiety disorder, major depressive disorder, obsessive-compulsive disorder, panic disorder, post-traumatic stress disorder, social phobia, specific phobia, schizophreniform disorder substance abuse, substance dependence	DSM -III/-R	First diagnosis
Kirkbride [94]	UK	PC	Aetiology and ethnicity in Schizophrenia and other Psychoses	16 to 64	ns	1,631,442	568	Affective psychoses, non-affective psychoses, substance induced psychoses, schizophrenia	DSM-IV	First contact with the treatment service
Knappe [95]	Germany	BC	Early Developmental Stages of Psychopathology Study	14-34	49.3	3,021	628	Social phobia	DSM-IV	First symptom
Kohler [96]	Scotland	PC	Psychiatric service of Dumfries and Galloway	14+	ns	147,000	463	Early onset psychosis, late onset psychosis, very late onset psychosis.	ICD-9/10	First contact with the treatment service
Korten [97]	Netherlands	PC	Netherlands Study of Depression and Anxiety	18 to 73	ns	2,981	1,104	Major depressive disorder	DSM-IV	First symptom
Lahey [98]	U.S.	CS	National Institute of Mental Health Methods for the Epidemiology of Child and Adolescent Mental Disorders	9 to 17	ns	1,285	74	Conduct disorder	DSM-III-R	First symptom
Lahti [99]	Finland	BC	Helsinki Birth Cohort Study	0 to 76	47.9	13,243	1,682	Agoraphobia, bipolar disorder, dysthymia, generalized anxiety disorder, major depressive	ICD-8/9/10	First hospitalization

Author	Country	Design	Study	Age	Female %	Population	Individuals	Disorders	Diagnostic criteria	Onset definition
								disorder, non-psychotic substance use disorder, obsessive-compulsive disorder, panic disorder, personality disorders, post-traumatic stress disorder, psychotic mood disorder, psychotic substance use disorder, non-psychotic mood disorder, schizophrenia spectrum, separation anxiety disorder, specific phobia, substance use disorder		
Le Strat [100]	U.S.	CS	National Epidemiologic Survey on Alcohol and Related Conditions	18+	Ns	43,093	4,696	Alcohol dependence	DSM-IV	First diagnosis
Lee [101]	Brazil, Bulgaria, Colombia, India, Lebanon, Mexico, New Zealand, Romania, USA	CS	World Mental Health Survey	18+	Ns	28,988	ns	Bipolar disorder	DSM-IV	First symptom
Lee [102]	China	CS	Survey from Beijing and Shanghai	19 to 70	ns	5,201	ns	Alcohol abuse, alcohol dependence, bipolar disorder, dysthymia, generalized anxiety disorder, intermittent explosive disorder, obsessive-compulsive disorder, panic disorder, post-traumatic stress disorder, specific phobia	ICD-10	First symptom
Lee [103]	China	CS	Survey from Beijing and Shanghai	18+	ns	5,201	43	Major depressive disorder	ICD-10, DSM-IV	First symptom
Lee[104]	Belgium, France, Germany, Israel, Italy, Japan, the Netherlands, New Zealand, Spain, U.S., China (Beijing, Shanghai), Columbia, Lebanon, Mexico, Nigeria, South Africa, Ukraine	CS	World Mental Health Survey	16+	ns	85,052	4,842	Generalized anxiety disorder	DSM-IV	First symptom
Lepine[105]	France	CS	French Cohort	18+	ns	1,787	60	Social phobia	DSM-III	ns
Lepine[106]	France	CS	French Cohort	18+	ns	1,787	52	Agoraphobia	DSM-III	ns
Levine [107]	Israel	PC	The Israeli National Psychiatric Case Registry	18+	ns	12,071	8,419	Schizophrenia	ICD-9	First hospitalization
Levinson [108]	Israel	CS	National population register from Israeli survey	21+	ns	4,859	860	Bipolar disorder, dysthymia, generalized anxiety disorder, major depressive disorder, panic disorder, post-traumatic stress disorder	ICD-10, DSM-IV	First symptom
Lewis [109]	U.S.	CS	National Institute of Mental Health Epidemiologic Catchment Area study	18+	ns	9,868	1,020	Alcohol abuse, alcohol dependence	DSM-III	First symptoms
Luoma [110]	Finland	BC	Northern Finland 1966 Birth Cohort	0-31	34.7	98	98	Schizophrenia	DSM-III-R	First symptom
Manetti [111]	U.S.	CS	National Epidemiologic Survey on Alcohol and Related Conditions	0 to 99	ns	43,093	3,199	Major depressive disorder	DSM-IV	First diagnosis
Mattisson [112]	Sweden	CS	Lundby Cohort	12+	ns	3,563	348	Alcohol use disorder	DSM-IV	First symptom
McEvoy [113]	Australia	CS	Australian National Survey of Mental Health and Wellbeing	16 to 85	ns	8,841	1,045	Agoraphobia, generalized anxiety disorder, obsessive-compulsive disorder, panic disorder, post-traumatic stress disorder, social phobia, substance use disorder	DSM-IV	First diagnosis
McLaughlin [114]	U.S.	CS	National Comorbidity Survey-Adolescent Supplement	13-18	Ns	6,483	787	Intermittent explosive disorder	DSM-IV	First symptom
Medina-Mora [115]	Mexico	CS	World Mental Health Survey	18 to 65	ns	2,362	1,148	Agoraphobias, alcohol abuse, alcohol dependence, attention deficit hyperactivity disorder, bipolar disorder, conduct disorder, dysthymia, generalized anxiety disorder, major depressive disorder, oppositional defiant disorder, panic disorder, post-traumatic stress disorder, separation anxiety disorder, social phobia, specific phobias, substance	DSM-IV	First diagnosis

Author	Country	Design	Study	Age	Female %	Population	Individuals	Disorders	Diagnostic criteria	Onset definition
								abuse		
Merikangas [116]	U.S.	CS	National Comorbidity Survey-Adolescent Supplement	13-18	51	10,123	7,815	Anxiety disorders, behavior disorder, mood disorder, substance use disorder	DSM-IV	Ns
Merikangas [117]	U.S.	CS	National Comorbidity Survey Replication	18+	ns	9,282	826	Bipolar disorder	DSM-IV	First symptom
Mojtabai [118]	U.S.	CS	National Epidemiologic Survey on Alcohol and Related Conditions	18+	58	34,653	3,006	Major depressive episode	DSM-IV	First diagnosis
Mojtabai [119]	U.S.	CS	National Comorbidity Survey	15 to 54	ns	5,877	995	Major depressive disorder	DSM-III	First diagnosis
Murphy [120]	Australia	CS	Australian National Survey of Mental Health and Wellbeing	16-85	Ns	8,841	1,365	Major depressive disorder	DSM-IV	ns
Navarro-Mateu [121]	Spain	CS	PEGASUS	18+	49,5	2,621	115	Bipolar disorder, generalized anxiety disorder, major depressive disorder, post-traumatic stress disorder, social phobia, specific phobia, substance abuse	DSM-IV	First symptom
Negash [122]	Ethiopia	CS	Survey from Butajira	15 to 49	ns	2,880	292	Bipolar disorder	DSM-IV	First symptom
Nelson [123]	U.S.	CS	U.S. National Comorbidity Survey	15 to 54	ns	4,011	1,091	Alcohol dependence	DSM-III-R	First symptom
Nesvag [124]	Norway	CS	Norwegian Patient Registry and the Norwegian Prescription Database	0 to 18	49	1,179,368	443	Bipolar disorder, major depressive disorder with psychotic symptoms, schizophrenia spectrum disorder	ICD-10	First contact with the treatment service
Nordström [125]	Finland	BC	Northern Finland Birth Cohort	0 to 15	ns	9,432	135	Attention deficit/hyperactivity disorder, disruptive behaviour disorder	ICD-9/10	First hospitalization
Oakley Browne [126]	New Zealand	CS	The New Zealand Mental Health Survey	16+	ns	4,831	ns	Agoraphobia, alcohol dependence, alcohol abuse, anorexia nervosa, bipolar disorder, bulimia nervosa, dysthymia, generalized anxiety disorder, major depressive disorder, obsessive-compulsive disorder, panic disorder, post-traumatic stress disorder, social phobia, specific phobia, substance abuse, substance dependence	DSM-IV	First symptom
Ormel [127]	Netherlands	CS	The Tracking Adolescents' Individual Lives Survey	0 to 19	ns	1,584	1,048	Agoraphobia, attention deficit/hyperactivity disorder, alcohol abuse, alcohol dependence, bipolar disorder, conduct disorder, dysthymia, generalized anxiety disorder, major depressive disorder, obsessive-compulsive disorder, oppositional-defiant disorder, panic disorder, specific phobia, separation anxiety disorder, substance abuse, substance dependence	DSM-IV	First symptom
Orvaschel [128]	U.S.	CS	Oregon Adolescent Depression Project	14 to 18	53.7	1,701	46	Agoraphobia, alcohol use disorder, disruptive behavior disorder, dysthymia, generalized anxiety disorder, major depressive disorder, obsessive-compulsive disorder, panic disorder, post-traumatic stress disorder, separation anxiety disorder, social phobia, specific phobia, substance use disorder	DSM-III	First diagnosis
Pedersen [129]	Denmark	PC	Danish registries	0+	ns	5,600,000	320,543	Alcohol use, anorexia nervosa, bipolar disorder, cannabis use, childhood autism, depressive disorder, hyperkinetic disorder, obsessive-compulsive disorder, mental retardation, personality disorders, pervasive developmental disorders, schizoaffective disorder, schizophrenia spectrum disorders, somatoform disorders, stress-related disorder	ICD-10	First diagnosis
Perala [130]	Finland	CS	Health 2000 Health Examination Survey	30+	Ns	6,005	482	Alcohol dependence	DSM-IV	First symptom
Peralta [131]	Spain	PC	Treatment of first-episode drug-naïve patients.	15 to 65	ns	ns	122	Schizophrenia spectrum disorders	DSM-IV	First symptom,
Peyre [132]	U.S.	CS	National Epidemiologic Survey on Alcohol and Related Conditions	0 to 18	ns	34,653	764	Attention deficit/Hyperactivity disorder	DSM-IV	First diagnosis



Author	Country	Design	Study	Age	Female %	Population	Individuals	Disorders	Diagnostic criteria	Onset definition
Polo [133]	U.S.	CS	National Latino and Asian American Study, National Comorbidity Survey Replication	18+	56.5	6,601	1,601	Social Anxiety Disorder	DSM-IV	ns
Rabinowitz [134]	Israel	PC	National Psychiatric Hospitalization Case Registry	15+	40.4	10,756	10,756	Schizophrenia	ICD-9	First hospitalization
Ramage-Morin [135]	Canada		Canadian Community Health Survey: Mental Health and Well-Being	15+	ns	36,984	1,397	Panic disorder	DSM-IV	First diagnosis
Ran [136]	China	CS	Survey from Xinjin County Chengdu	15+	ns	149,231	510	Schizophrenia	ICD-10	First symptom
Ran [137]	China	CS	Xinjin County Survey	15+	ns	123,572	911	Unspecified non organic psychosis	ICD-10	First symptom
Rasanen [138]	Finland	BC	Northern Finland 1966 Birth Cohort	16 to 28	48.8	11,017	89	Schizophrenia	DSM-III	First symptom
Rastam [139]	Sweden	CS	ns	14,5 to 15,5	ns	4,291	20	Anorexia nervosa	DSM-III	First diagnosis
Rautio [140]	Finland	CS	NFBC 1966 Study	16 to 45	ns	10,277	161	Schizophrenia spectrum	ICD-8/9/10	First diagnosis
Reardon [141]	U.S.	CS	Colorado Social Health Survey (CSHS)	18+	57	4,730	785	Alcohol abuse, alcohol dependence, antisocial personality disorder, bipolar disorder, dysthymia, general anxiety disorder, major depressive disorder, obsessive-compulsive disorder, panic disorder, phobias, schizophrenia, substance abuse, substance dependence	DSM-III	First symptom
Reed [142]	Germany	CS	Early Developmental Stages of Psychopathology	14-24	50.6	ns	3,021	Panic disorder	DSM-IV	First diagnosis
Rey [143]	U.S.	CS	Epidemiologic Catchment Area	18+	ns	19,182	6,138	Alcohol abuse, alcohol dependence, antisocial personality disorder, bipolar disorder, generalised anxiety disorder, obsessive-compulsive disorder, phobias, somatisation, substance abuse, substance dependence	DSM-III	First diagnosis
Riala [144]	Finland	CS	Northern Finland 1966 Birth Cohort	16+	47.4	10,934	470	Adjustment disorders, atypical psychoses, bipolar disorder, brief psychotic episode, delusional disorders, depression with psychotic symptoms, nonpsychotic disorder, personality disorders, schizoaffective disorder, schizophrenia, schizophreniform disorders, substance use disorders	DSM-III	First diagnosis
Ritter [145]	Germany	PC	Early Developmental Stages of Psychopathology Study	14 to 34	ns	1,943	41	Bipolar disorder, major depressive disorder	ICD-10	ns
Rodgers [146]	Switzerland	CS	Zurich study Sample	13 to 66	ns	591	68	Obsessive-compulsive disorder	DSM-IV	First diagnosis
Roest [147]	Multi-country	CS	World Mental Health Survey	18+	ns	136,357	2,045	Agoraphobia	DSM-V	First diagnosis
Ruscio [148]	Australia, Belgium, Brazil, Bulgaria, China, Colombia, France, Germany, Iraq, Israel, Italy, Japan, Lebanon, Mexico, New Zealand, Nigeria, Northern Ireland, Peru, Poland, Portugal, Romania, South Africa, The Netherlands, Ukraine, U.S.	CS	World Mental Health Survey	18+	ns	147,261	5,888	Generalized anxiety disorder	DSM-V	First diagnosis
Sala [149]	U.S.	CS	National Epidemiologic Survey on Alcohol and Related Conditions	18+	ns	34,653	1,528	Bipolar disorder	DSM-IV	First diagnosis
Schaffer [150]	Canada	CS	Canadian Community Health Survey: Mental Health and Well-Being	15+	ns	36,984	852	Bipolar disorder	DSM-IV	First diagnosis
Schneier [151]	U.S.	CS	National Epidemiological Survey on Alcohol AND Related Conditions	18+	57	43,093	2,970	Alcohol dependence, social anxiety disorder	DSM-IV	First diagnosis
Schneier [152]	U.S.	CS	Epidemiologic Catchment Area Study ECA	18+	ns	18,572	97	Social phobia	DSM-III	First diagnosis
Schuckit [153]	U.S.	CS	San Diego Prospective Study	18+	0	373	140	Alcohol abuse, alcohol dependence	DSM-III-R	First diagnosis

Author	Country	Design	Study	Age	Female %	Population	Individuals	Disorders	Diagnostic criteria	Onset definition
Scott [154]	Brazil, Bulgaria, China, Colombia, Japan, Lebanon, Nigeria, Northern Ireland, Peru, Poland, Portugal, Romania, South Africa, Ukraine, U.S.	CS	World Mental Health Survey	18+	ns	88,063	705	Intermittent explosive disorder	DSM-IV	First diagnosis
Silove [155]	Belgium, France, Brazil, Bulgaria, China, Colombia, Germany, Italy, Lebanon, Mexico, Nigeria, Northern Ireland, Peru, Portugal, Romania, The Netherlands, Spain, U.S.	CS	World Mental Health Survey	18+	56.74	38,993	1,883	Separation anxiety disorder	DSM-IV	First diagnosis
Singh [156]	UK	CS	Conversion disorder in Nottingham survey	26 to 74	ns	37,000	18	Conversion disorder	DSM-III-R	First diagnosis
Slutske [157]	Australia	CS	Australian Twin Registry (ATR) Cohort II	0 to 43	57.08	4,663	128	Gambling disorder	DSM-IV	First symptom,
Sorenson [158]	U.S.	CS	Los Angeles Epidemiologic Catchment Area project	18 to 97	52.7	3,131	183	Major depressive disorder	DSM-III	First diagnosis
Stefansson [159]	Iceland	CS	Iceland Cohort	55 to 57	49	862	233	Alcohol abuse, alcohol dependence	DSM-III	First symptom
Stein [160]	Australia, Belgium, Brazil, Bulgaria, Colombia-Medellin, France, Germany, Iraq, Italy, Japan, Lebanon, Mexico, New Zealand, Nigeria, Northern Ireland, People's Republic of China, Peru, Poland, Portugal, Romania, South Africa, Spain, The Netherlands, USA, Ukraine	CS	World Health Organization World Mental Health Surveys initiative	18+	Ns	142,405	5,696	Social anxiety disorder	DSM-IV	ns
Stein[161]	South Africa	CS	SASH (South Africa Stress and Health Study)	18+	ns	4,351	1,290	Agoraphobia with or without panic, alcohol abuse, alcohol dependence, any anxiety disorder, generalized anxiety disorder, major depressive disorder, panic disorder, post-traumatic stress disorder, social phobia, substance abuse, substance dependence	DSM-IV, ICD-10	ns
Steinhausen [162]	Denmark	BC	Danish registry	0-18	48	68,982	7,893	Anxiety disorders, attention deficit/hyperactivity disorder, autism-spectrum disorders, conduct disorder, depressive disorder, eating disorder, obsessive-compulsive disorder, schizophrenia, substance use disorder, tic disorder	ICD-10	First diagnosis
Stinson, 2007 [163]	U.S.	CS	United States' National Epidemiologic Survey on Alcohol and Related Conditions	18+	ns	43,093	4,030	Specific phobias	DSM-IV	First diagnosis
Suliman [164]	South Africa	CS	South African Stress and Health	18+	Ns	4,351	609	Alcohol abuse, alcohol dependence	DSM-IV	First symptom
Suvisaari [165]	Finland	PC	Finnish Population Register	16-26	ns	5,645	5,645	Schizophrenia	ICD-8/9	First hospitalization
Suvisaari [166]	Finland	PC	Finnish patients from the health care registers	0+	49	35,720	15,892	Schizophrenia spectrum disorders	ICD-8/9, DSM-III-TR	First hospitalization
Svensson [167]	Sweden	BC	The Swedish Multi-Generation Register	0+	Ns	395,055	3,138	Schizophrenia	ICD-8/9/10	First hospitalization
Swendsen[168]	U.S.	CS	National Comorbidity Survey-Adolescent Supplement	0-18	Ns	10,123	1,541	Alcohol abuse, alcohol dependence, substance abuse, substance dependence	DSM-IV	First diagnosis
Tai [169]	Taiwan	CS	National Health Insurance Research Database	3-25	20.4	1,000,000	2,385	Attention deficit/Hyperactivity disorder	ICD-9	First diagnosis
Taylor [170]	U.S.	CS	National Survey of American Life	18+	ns	5,191	7	Anorexia nervosa, bulimia nervosa, binge eating disorder	DSM-IV-TR	First symptom
Thorup [171]	Denmark	PC	OPUS STUDY	18+	ns	ns	578	Schizophrenia spectrum disorders.	ICD-10	First symptom or First contact with the treatment service
Tibi[172]	The Netherlands	CS	Netherlands Study of Depression and Anxiety (NESDA)	18 to 65	69	2,981	507	Agoraphobia	DSM-IV	First symptom

Author	Country	Design	Study	Age	Female %	Population	Individuals	Disorders	Diagnostic criteria	Onset definition
Tolin [173]	U.S.	CS	Database of Individual who have contacted the researchers for information about compulsive hoarding	0+	ns	2,271	751	Compulsive disorder	DSM-IV	First contact with the treatment service
Udo [174]	U.S.	CS	National Epidemiologic Survey on Alcohol and Related Conditions-III (NESARC-III)	18+	ns	36,309	686	Anorexia nervosa, bulimia nervosa, binge eating disorder	DSM-V	First diagnosis
Ullman [175]	Israel	CS	Israel National Psychiatric Hospitalization Case Registry	18+	17.4	21,499	235	Affective disorders, schizophrenia	ICD-10	First hospitalization
Vaingankar [176]	Singapore	CS	Singapore mental health study	18+	51.5	6,616	865	Alcohol abuse, alcohol dependence, bipolar disorder, dysthymia, major depressive disorder, generalized anxiety disorder, obsessive-compulsive disorder	ICD-10	First symptom
Vande Voort[177]	U.S.	CS	National Health and Nutrition Examination Survey	12 to 15	Ns	1,894	163	Attention deficit/hyperactivity disorder	DSM-5	First diagnosis
Verdura Vizcaino [178]	U.S.	CS	United States' National Epidemiologic Survey on Alcohol and Related Conditions	18+	ns	43,093	166	Gambling disorder	DSM-IV	First diagnosis
Viana [179]	Brazil	CS	São Paulo Megacity Mental Health Survey	18+	ns	2,942	1,318	Agoraphobia, alcohol abuse, alcohol dependence, attention deficit/hyperactivity disorder, bipolar disorder, conduct disorder, dysthymia, generalized anxiety disorder, intermittent explosive disorder, major depressive disorder, obsessive-compulsive disorder, oppositional-defiant disorder, panic disorder, post-traumatic stress disorder, separation anxiety disorder, social phobia, specific phobia, substance abuse, substance dependence	DSM-IV	First diagnosis
Vila-Rodriguez [180]	Spain	CS	ME2-MHT	18 to 65	ns	440,000	231	Schizophrenia	DSM-IV	First contact with the treatment service
Wardenaar [181]	Belgium, Brazil, Bulgaria, China, Colombia, France, Germany, Iraq, Italy, Japan, Lebanon, Mexico, New Zealand, Nigeria, Northern Ireland, Peru, Poland, Portugal, Romania, Spain, The Netherlands, U.S.	CS	World Mental Health Survey	18+	ns	124,902	9,243	Specific phobias	DSM-IV	First diagnosis
Weissman [182]	U.S.	CS	Epidemiologic catchment Area Study ECA	18+	ns	18,572	232	Bipolar disorder, major depressive disorder	DSM-III	First diagnosis
Weissman [183]	Canada, France, Italy, Korea, Lebanon, New Zealand, Puerto Rico, Taiwan, U.S., Germany	CS	Cross-National Collaborative Group	18-64	ns	44,877	2,670	Bipolar disorder, major depressive disorder	DSM-III	First diagnosis
Weissman [184]	Canada, Germany, New Zealand, U.S.	PC	National Comorbidity Survey/Munich Follow-up Study	18+	59.3	23,239	1,727	Major depressive disorder	DSM-III	First diagnosis
Weissman[185]	Puerto Rico, South Korea	CS	The Puerto Rico Study of Psychiatric Disorders; The Korean Epidemiologic Study of Mental Disorders	18+	53.6	6,613	817	Social Phobia	DSM-III	First symptom
Wells [186]	New Zealand	CS	New Zealand Mental Health Survey	16+	ns	1,320	189	Bipolar disorder	DSM-IV	First diagnosis
WHO [187]	Brazil, Canada, Germany, Mexico, Netherlands, Turkey, U.S.	CS	Cross-national comparisons of the prevalences and correlates of mental disorders. WHO International Consortium in Psychiatric Epidemiology.	18+	ns	29,644	10,110	Anxiety disorders, mood disorders, substance use disorders	DSM-III-R/IV	First diagnosis
Wiborg [188]	Germany	CS	Psychenet: the Hamburg Network for Mental Health	18+	ns	1,645	136	Somatiform disorder	ICD-10	First symptom
Williams[189]	Australia	CS	Geelong Osteoporosis Study (GOS)	24 to 98	0	1,540	961	Anxiety disorder, mood disorder, substance use disorder	DSM-IV	First symptom
Wittchen [190]	Germany	PC	Early Developmental Stages of Psychopathology Study	14-24	ns	3,021	538	Agoraphobia, panic attack, panic disorder	DSM-IV	First diagnosis
Wittchen[191]	Germany	BC	Early Developmental Stages of Psychopathology Study (EDSP)	14 to 24	ns	3,021	220	Generalized social phobia, non-generalized social phobia	DSM-IV	

Author	Country	Design	Study	Age	Female %	Population	Individuals	Disorders	Diagnostic criteria	Onset definition
Woo[192]	South Korea	CS	Korean Epidemiologic Catchment Area study (KECA), Korean Epidemiologic Catchment Area study replication (KECA-R), 2011 Korean Epidemiologic Catchment Area study (KECA-2011).	18+	ns	18,807	1,533	Major depressive disorder, panic disorder	DSM-IV	ns
Yin [193]	China	CS	Tianjin Mental Health Survey	18+	46.6	11,748	439	Agoraphobia, bipolar disorder, generalized anxiety disorder, major depressive disorder, obsessive-compulsive disorder, panic disorder, post-traumatic stress disorder, schizophrenia spectrum disorders, specific phobia, substance use disorder	DSM-IV	ns
Yoshimasu [194]	Japan	CS	World Mental Health Survey	18+	ns	4,134	80	Intermittent explosive disorder	DSM-IV	First diagnosis
Young [195]	U.S.	CS	Recruit Assessment Program	18+	0	65,178	6,128	Alcohol abuse	DSM-IV	First symptom
Zvolensky [196]	U.S.	CS	Colorado Social Health Survey	25+	52	4,744	ns	Cannabis dependence, panic disorder	DSM-III	First symptom

*Legend. BC, birth cohort; CS, cross-sectional; DSM, diagnostic and statistical manual; ICD, international classification of diseases; PC, prospective cohort;*

**e-table 4. Studies excluded after full-text assessment, with reason for exclusion (k=734)**

<b>Author, year</b>	<b>Reason for exclusion</b>
Azagba, 2019 [197]	No disorder defined according to established criteria
Baggio, 2013 [198]	No disorder defined according to established criteria
Best, 2001 [199]	No disorder defined according to established criteria
Cheng, 2011 [200]	No disorder defined according to established criteria
Cheng, 2018 [201]	No disorder defined according to established criteria
Ciairano, 2009 [202]	No disorder defined according to established criteria
De Graaf, 2010 [203]	No disorder defined according to established criteria
Demant, 2018 [204]	No disorder defined according to established criteria
Diekstra, 1993 [205]	No disorder defined according to established criteria
Duke, 2009 [206]	No disorder defined according to established criteria
Gonzalez-Chica, 2019 [207]	No disorder defined according to established criteria
Kaestle, 2015 [208]	No disorder defined according to established criteria
Kandel, 1992 [209]	No disorder defined according to established criteria
Karam, 2014 [210]	No disorder defined according to established criteria
Kessler, 2012 [211]	No disorder defined according to established criteria
Lahey, 1999 [212]	No disorder defined according to established criteria
Lintonen, 2000 [213]	No disorder defined according to established criteria
Lo, 2000 [214]	No disorder defined according to established criteria
Manna, 2010 [215]	No disorder defined according to established criteria
Martins-Oliveira, 2018 [216]	No disorder defined according to established criteria
McGrath, 2016 [217]	No disorder defined according to established criteria
Monshouwer, 2005 [218]	No disorder defined according to established criteria
Mutumba, 2019 [219]	No disorder defined according to established criteria
Najman, 2019 [220]	No disorder defined according to established criteria
Nigg, 2013 [221]	No disorder defined according to established criteria
Pacek, 2013 [222]	No disorder defined according to established criteria
Parra, 2003 [223]	No disorder defined according to established criteria
Reingle Gonzalez, 2016 [224]	No disorder defined according to established criteria
Resnick, 1997 [225]	No disorder defined according to established criteria
Roderick, 2018 [226]	No disorder defined according to established criteria
SouEIF, 1998 [227]	No disorder defined according to established criteria
Staff, 2015 [228]	No disorder defined according to established criteria
Storr, 2004 [229]	No disorder defined according to established criteria
Strunin, 2017 [230]	No disorder defined according to established criteria
Uppal, 1977 [231]	No disorder defined according to established criteria
Van Der Vorst [232]	No disorder defined according to established criteria
Vieira, 2007 [233]	No disorder defined according to established criteria
Wallinius, 2016 [234]	No disorder defined according to established criteria
Wilson, 1994 [235]	No disorder defined according to established criteria
Fiestas, 2014 [236]	no English
Haro, 2006 [237]	no English
Paixao, 2009 [238]	no English
Abdin, 2013 [239]	no usable age at onset estimate
Aberg, 2016 [240]	no usable age at onset estimate
Acarturk, 2009[241]	no usable age at onset estimate
Afzali, 2017[242]	no usable age at onset estimate
Agosti, 2008 [243]	no usable age at onset estimate
Ahmed, 2010 [244]	no usable age at onset estimate
Alaräsänen, 2006 [245]	no usable age at onset estimate
Albor, 2017 [246]	no usable age at onset estimate
Alghzawi, 2018 [247]	no usable age at onset estimate
Allen, 2014 [248]	no usable age at onset estimate
Alonso, 2014 [249]	no usable age at onset estimate
Andrade, 1996 [250]	no usable age at onset estimate
Andreasen, 2005 [251]	no usable age at onset estimate
Angst, 1998[252]	no usable age at onset estimate
Angst, 2009 [253]	no usable age at onset estimate
Angst, 2012 [254]	no usable age at onset estimate
Angst, 2015 [255]	no usable age at onset estimate
Bacon, 2009 [256]	no usable age at onset estimate
Baldwin, 2014 [257]	no usable age at onset estimate
Barker, 2008 [258]	no usable age at onset estimate

<b>Author, year</b>	<b>Reason for exclusion</b>
Bauer, 2017 [259]	no usable age at onset estimate
Bauermeister, 2011 [260]	no usable age at onset estimate
Baumeister, 2005 [261]	no usable age at onset estimate
Behrendt, 2009 [262]	no usable age at onset estimate
Behrendt, 2012 [263]	no usable age at onset estimate
Belik, 2008 [264]	no usable age at onset estimate
Bernstein, 2006 [265]	no usable age at onset estimate
Bhugra, 2002 [266]	no usable age at onset estimate
Bilevicius, 2019 [267]	no usable age at onset estimate
Birrell, 2015 [268]	no usable age at onset estimate
Blobaum, 2006 [269]	no usable age at onset estimate
Bogren, 2007 [270]	no usable age at onset estimate
Bogren, 2010 [271]	no usable age at onset estimate
Borga, 1992 [272]	no usable age at onset estimate
Borges, 2011 [273]	no usable age at onset estimate
Boschloo, 2011 [274]	no usable age at onset estimate
Bourdon, 1992 [275]	no usable age at onset estimate
Breslau, 2004 [276]	no usable age at onset estimate
Breslau, 2007 [277]	no usable age at onset estimate
Breslau, 2009 [278]	no usable age at onset estimate
Brezo, 2007 [279]	no usable age at onset estimate
Bromet, 2007 [280]	no usable age at onset estimate
Brower, 2010 [281]	no usable age at onset estimate
Browne, 2006 [282]	no usable age at onset estimate
Bruffaerts, 2007 [283]	no usable age at onset estimate
Bruffaerts, 2017 [284]	no usable age at onset estimate
Bulayeva, 2006 [285]	no usable age at onset estimate
Buller, 1991 [286]	no usable age at onset estimate
Burke, 1991 [287]	no usable age at onset estimate
Burke, 1994 [288]	no usable age at onset estimate
Burns, 1980 [289]	no usable age at onset estimate
Burt, 2010 [290]	no usable age at onset estimate
Byers, 2014 [291]	no usable age at onset estimate
Cantor-Graae, 2007 [292]	no usable age at onset estimate
Capone, 2008 [293]	no usable age at onset estimate
Castagnini, 2013 [294]	no usable age at onset estimate
Chan, 2010 [295]	no usable age at onset estimate
Chang, 2010 [296]	no usable age at onset estimate
Chapa, 2018 [297]	no usable age at onset estimate
Chapman, 2015[298]	no usable age at onset estimate
Chartier, 2003[299]	no usable age at onset estimate
Chartier, 2011 [300]	no usable age at onset estimate
Chen, 2009 [301]	no usable age at onset estimate
Cheng, 2018 [302]	no usable age at onset estimate
Chong, 2012 [303]	no usable age at onset estimate
Clark, 2007 [304]	no usable age at onset estimate
Clemmensen, 2016 [305]	no usable age at onset estimate
Cohen, 2016 [306]	no usable age at onset estimate
Colman, 2007 [307]	no usable age at onset estimate
Crum, 2004 [308]	no usable age at onset estimate
Cuijpers, 2007 [309]	no usable age at onset estimate
David, 1997 [310]	no usable age at onset estimate
Dayal, 2017 [311]	no usable age at onset estimate
de Graaf, 2011 [312]	no usable age at onset estimate
de Heer, 2017 [313]	no usable age at onset estimate
Degenhardt, 2003 [314]	no usable age at onset estimate
Degenhardt, 2009 [315]	no usable age at onset estimate
Degonda, 1993 [316]	no usable age at onset estimate
Demallie, 1995 [317]	no usable age at onset estimate
Devanand, 2014 [318]	no usable age at onset estimate
Dietrich, 2009 [319]	no usable age at onset estimate
Ding, 2009 [320]	no usable age at onset estimate
Doherty, 2008 [321]	no usable age at onset estimate
Dube, 2006 [322]	no usable age at onset estimate

<b>Author, year</b>	<b>Reason for exclusion</b>
Ehlers, 2006 [323]	no usable age at onset estimate
Essau, 2010 [324]	no usable age at onset estimate
Evans, 2012 [325]	no usable age at onset estimate
Fairman, 2019 [326]	no usable age at onset estimate
Fallu, 2014 [327]	no usable age at onset estimate
Farrer, 1989 [328]	no usable age at onset estimate
Fergusson, 2013 [329]	no usable age at onset estimate
Fergusson, 2014 [330]	no usable age at onset estimate
Fischer, 2015 [331]	no usable age at onset estimate
Fleming, 1989 [332]	no usable age at onset estimate
Fontenelle, 2011 [333]	no usable age at onset estimate
French, 2009 [334]	no usable age at onset estimate
Gaysina, 2011 [335]	no usable age at onset estimate
Gilder, 2014 [336]	no usable age at onset estimate
Gissler, 2013 [337]	no usable age at onset estimate
Glantz, 2009 [338]	no usable age at onset estimate
Glazebrook, 1997 [339]	no usable age at onset estimate
Glenn, 2017 [340]	no usable age at onset estimate
Godart, 2012 [341]	no usable age at onset estimate
Goldstein, 2006 [342]	no usable age at onset estimate
Gonzalez-Blanch, 2008 [343]	no usable age at onset estimate
Goodwin, 2001 [344]	no usable age at onset estimate
Grant, 2006 [345]	no usable age at onset estimate
Gratzer, 2004 [346]	no usable age at onset estimate
Greenfield, 2010 [347]	no usable age at onset estimate
Gregory, 2009 [348]	no usable age at onset estimate
Grucza, 2008 [349]	no usable age at onset estimate
Gureje, 2011 [350]	no usable age at onset estimate
Hafner, 1991 [351]	no usable age at onset estimate
Hafner, 1999 [352]	no usable age at onset estimate
Hamzawi, 2012 [353]	no usable age at onset estimate
Hanna, 1999 [354]	no usable age at onset estimate
Hanna, 2001 [355]	no usable age at onset estimate
Hansen, 2009 [356]	no usable age at onset estimate
Harford, 2001 [357]	no usable age at onset estimate
Harford, 2006 [358]	no usable age at onset estimate
Hart, 2012 [359]	no usable age at onset estimate
Hastrup, 2018 [360]	no usable age at onset estimate
Hayatbakhsh, 2013 [361]	no usable age at onset estimate
Hayatbakhsh, 2014 [362]	no usable age at onset estimate
Helenius, 2012 [363]	no usable age at onset estimate
Hermos, 2008 [364]	no usable age at onset estimate
Hill, 2000 [365]	no usable age at onset estimate
Hingson, 2009 [366]	no usable age at onset estimate
Holdcraft, 2004 [367]	no usable age at onset estimate
Hong, 2004 [368]	no usable age at onset estimate
Horwath, 2000 [369]	no usable age at onset estimate
Horwath, 1992[370]	no usable age at onset estimate
Horwath, 1993 [371]	no usable age at onset estimate
Hwu, 1996 [372]	no usable age at onset estimate
Hwu, 2005 [373]	no usable age at onset estimate
Janzing, 2009 [374]	no usable age at onset estimate
Jenkins, 2011 [375]	no usable age at onset estimate
Joinson, 2013 [376]	no usable age at onset estimate
Kaelber, 2018 [377]	no usable age at onset estimate
Kaltiala-Heino, 2003 [378]	no usable age at onset estimate
Karam, 2012 [379]	no usable age at onset estimate
Keenan, 2010 [380]	no usable age at onset estimate
Keers, 2013 [381]	no usable age at onset estimate
Keller, 1992 [382]	no usable age at onset estimate
Kelly, 2012 [383]	no usable age at onset estimate
Kerr, 2015 [384]	no usable age at onset estimate
Kessing, 1998 [385]	no usable age at onset estimate
Kessler, 1993 [386]	no usable age at onset estimate

<b>Author, year</b>	<b>Reason for exclusion</b>
Kessler, 1995 [387]	no usable age at onset estimate
Kessler, 1998 [388]	no usable age at onset estimate
Kessler, 1998 [389]	no usable age at onset estimate
Kessler, 1999 [390]	no usable age at onset estimate
Kessler, 2001 [391]	no usable age at onset estimate
Kessler, 2008 [392]	no usable age at onset estimate
Nock, 2009 [393]	no usable age at onset estimate
Kessler, 2015 [394]	no usable age at onset estimate
Keyes, 2016 [395]	no usable age at onset estimate
Khalifa, 2005 [396]	no usable age at onset estimate
Kim, 2016 [397]	no usable age at onset estimate
Kinnunen, 2002 [398]	no usable age at onset estimate
Kinnunen, 2018 [399]	no usable age at onset estimate
Kirkpatrick, 2000 [400]	no usable age at onset estimate
Knappe, 2009 [401]	no usable age at onset estimate
Kollins, 2005 [402]	no usable age at onset estimate
Konings, 2007 [403]	no usable age at onset estimate
Kratzer, 1997 [404]	no usable age at onset estimate
Kraus, 2007 [405]	no usable age at onset estimate
Krueger, 1996 [406]	no usable age at onset estimate
Kunert, 2010 [407]	no usable age at onset estimate
Laursen, 2011 [408]	no usable age at onset estimate
Le Strat, 2015 [409]	no usable age at onset estimate
Leach, 2012 [410]	no usable age at onset estimate
Leao, 2005 [411]	no usable age at onset estimate
Leatherdale, 2008 [412]	no usable age at onset estimate
Lee, 2010 [413]	no usable age at onset estimate
Legleye, 2010 [414]	no usable age at onset estimate
Leung, 2013 [415]	no usable age at onset estimate
Lever-van Milligen, 2014 [416]	no usable age at onset estimate
Levinson, 2009 [417]	no usable age at onset estimate
Lewinsohn, 1986 [418]	no usable age at onset estimate
Lewinsohn, 1993 [419]	no usable age at onset estimate
Lieb, 2002 [420]	no usable age at onset estimate
Locatelli, 2017 [421]	no usable age at onset estimate
Loffler, 2009 [422]	no usable age at onset estimate
Lyness, 1994 [423]	no usable age at onset estimate
Lyvers, 2012 [424]	no usable age at onset estimate
Malmberg, 2010 [425]	no usable age at onset estimate
Marcelis, 1998 [426]	no usable age at onset estimate
Marmorstein, 2011 [427]	no usable age at onset estimate
Matza, 2003 [428]	no usable age at onset estimate
McCabe, 2006 [429]	no usable age at onset estimate
McCabe, 2016 [430]	no usable age at onset estimate
McIntyre, 2006 [431]	no usable age at onset estimate
McKeganey, 2005 [432]	no usable age at onset estimate
McLaughlin, 2010 [433]	no usable age at onset estimate
McLean, 2011 [434]	no usable age at onset estimate
Meier, 2013 [435]	no usable age at onset estimate
Melchior, 2007 [436]	no usable age at onset estimate
Mikkelsen, 2014 [437]	no usable age at onset estimate
Miller, 2002 [438]	no usable age at onset estimate
Milne, 2009 [439]	no usable age at onset estimate
Mok, 2016 [440]	no usable age at onset estimate
Monshouwer, 2012 [441]	no usable age at onset estimate
Montgomery, 1999 [442]	no usable age at onset estimate
Morean, 2014 [443]	no usable age at onset estimate
Moss, 2010 [444]	no usable age at onset estimate
Mota, 2010 [445]	no usable age at onset estimate
Munkholm, 2016 [446]	no usable age at onset estimate
Mustelin, 2015 [447]	no usable age at onset estimate
Mustonen, 2018 [448]	no usable age at onset estimate
Myles-Worsley, 2007 [449]	no usable age at onset estimate
Neale, 1989 [450]	no usable age at onset estimate



<b>Author, year</b>	<b>Reason for exclusion</b>
Nesvaag, 2017 [451]	no usable age at onset estimate
Nettelbladt, 2009 [452]	no usable age at onset estimate
Newman, 1988 [453]	no usable age at onset estimate
Nierenberg, 2011 [454]	no usable age at onset estimate
Nishiura, 2017 [455]	no usable age at onset estimate
Nixon, 2008 [456]	no usable age at onset estimate
Nock, 2006 [457]	no usable age at onset estimate
Nock, 2013 [458]	no usable age at onset estimate
Nolen, 2013 [459]	no usable age at onset estimate
Oakley Browne, 2009 [460]	no usable age at onset estimate
Ogders, 2007 [461]	no usable age at onset estimate
Omer, 2013 [462]	no usable age at onset estimate
O'Neil, 2016 [463]	no usable age at onset estimate
Onyike, 2013 [464]	no usable age at onset estimate
Osler, 2008 [465]	no usable age at onset estimate
Paananen, 2013 [466]	no usable age at onset estimate
Pacheco, 2010 [467]	no usable age at onset estimate
Pardo, 2007 [468]	no usable age at onset estimate
Parker, 2004 [469]	no usable age at onset estimate
Pasco, 2010 [470]	no usable age at onset estimate
Paykel, 2006[471]	no usable age at onset estimate
Pedersen, 2013 [472]	no usable age at onset estimate
Perroud, 2010 [473]	no usable age at onset estimate
Pfister, 2007[474]	no usable age at onset estimate
Pilatti, 2014 [475]	no usable age at onset estimate
Pitkanen, 2005 [476]	no usable age at onset estimate
Pitkanen, 2008 [477]	no usable age at onset estimate
Platt, 2019 [478]	no usable age at onset estimate
Polanczyk, 2010 [479]	no usable age at onset estimate
Pope, 2014 [480]	no usable age at onset estimate
Posada, 2009 [481]	no usable age at onset estimate
Power, 2013 [482]	no usable age at onset estimate
Prelipceanu, 2012 [483]	no usable age at onset estimate
Rabinowitz, 2006 [484]	no usable age at onset estimate
Ran, 2003 [485]	no usable age at onset estimate
Rasanen, 1998 [486]	no usable age at onset estimate
Ratnasingham, 2013 [487]	no usable age at onset estimate
Razavi, 2015 [488]	no usable age at onset estimate
Reichenberg, 2006 [489]	no usable age at onset estimate
Resnick, 1997 [490]	no usable age at onset estimate
Reuter, 2007 [491]	no usable age at onset estimate
Ridenour, 2011 [492]	no usable age at onset estimate
Roberts, 2008 [493]	no usable age at onset estimate
Rossler, 2012 [494]	no usable age at onset estimate
Rubio, 2014 [495]	no usable age at onset estimate
Sanchez, 2013 [496]	no usable age at onset estimate
Savolainen, 2012 [497]	no usable age at onset estimate
Schneider, 2016 [498]	no usable age at onset estimate
Schoeyen, 2011 [499]	no usable age at onset estimate
Scocco, 2008 [500]	no usable age at onset estimate
Scott, 2008 [501]	no usable age at onset estimate
Scott, 2011 [502]	no usable age at onset estimate
Scott, 2013 [503]	no usable age at onset estimate
Seedat, 2009 [504]	no usable age at onset estimate
Shaffer, 1996 [505]	no usable age at onset estimate
Shang, 2017 [506]	no usable age at onset estimate
Shillington, 2000 [507]	no usable age at onset estimate
Shillington, 2011 [508]	no usable age at onset estimate
Silberg, 2015 [509]	no usable age at onset estimate
Silver, 2005 [510]	no usable age at onset estimate
Simon, 1992 [511]	no usable age at onset estimate
Skodol, 2011 [512]	no usable age at onset estimate
Skodol, 2014 [513]	no usable age at onset estimate
Smart, 2007 [514]	no usable age at onset estimate

<b>Author, year</b>	<b>Reason for exclusion</b>
Smyth, 2011 [515]	no usable age at onset estimate
Sorensen, 2016[516]	no usable age at onset estimate
Sourander, 2007[517]	no usable age at onset estimate
Spaner, 1994 [518]	no usable age at onset estimate
Spauwen, 2003 [519]	no usable age at onset estimate
Spiers, 2011 [520]	no usable age at onset estimate
Stein, 2008 [521]	no usable age at onset estimate
Stein, 2010 [522]	no usable age at onset estimate
Stevens, 2012 [523]	no usable age at onset estimate
Stice, 1998 [524]	no usable age at onset estimate
Strunin, 2007 [525]	no usable age at onset estimate
Strunin, 2013 [526]	no usable age at onset estimate
Swartz, 2005 [527]	no usable age at onset estimate
Tanskanen,2008 [528]	no usable age at onset estimate
Tantoh, 2016 [529]	no usable age at onset estimate
Tebeka, 2018 [530]	no usable age at onset estimate
Tegethoff, 2016 [531]	no usable age at onset estimate
Ten Have, 2002 [532]	no usable age at onset estimate
Ten Have, 2002 [533]	no usable age at onset estimate
Ten Have, 2013 [534]	no usable age at onset estimate
Ten Have, 2013 [535]	no usable age at onset estimate
Ten Have, 2013[536]	no usable age at onset estimate
Thapar, 2013 [537]	no usable age at onset estimate
Thomas, 2000 [538]	no usable age at onset estimate
Thompson, 2012 [539]	no usable age at onset estimate
Riekkki, 2019 [540]	no usable age at onset estimate
Trinkoff, 1990 [541]	no usable age at onset estimate
Trumpf, 2010 [542]	no usable age at onset estimate
Udo, 2019 [543]	no usable age at onset estimate
Vaillant, 1994 [544]	no usable age at onset estimate
van Balkom, 2017 [545]	no usable age at onset estimate
van Beek, 2010 [546]	no usable age at onset estimate
van Lang, 2007 [547]	no usable age at onset estimate
van Os, 2002 [548]	no usable age at onset estimate
van Ours, 2006 [549]	no usable age at onset estimate
Vega, 2002 [550]	no usable age at onset estimate
Verhagen, 2008 [551]	no usable age at onset estimate
Verster, 2009 [552]	no usable age at onset estimate
Viana, 2018[553]	no usable age at onset estimate
Vilalta-Franch, 2013 [554]	no usable age at onset estimate
Vilsaint, 2019 [555]	no usable age at onset estimate
Vitola, 2017 [556]	no usable age at onset estimate
Vitousek, 1994 [557]	no usable age at onset estimate
Korff, 1985 [558]	no usable age at onset estimate
Walker, 2002 [559]	no usable age at onset estimate
Wang, 2005 [560]	no usable age at onset estimate
Wang, 2016 [561]	no usable age at onset estimate
Warner, 2007 [562]	no usable age at onset estimate
Weitzman, 2005 [563]	no usable age at onset estimate
Wells, 2008 [564]	no usable age at onset estimate
Wells, 2009 [565]	no usable age at onset estimate
Wessely,1994 [566]	no usable age at onset estimate
Willoughby, 2009 [567]	no usable age at onset estimate
Wilson, 1994 [568]	no usable age at onset estimate
Wilson, 2014 [569]	no usable age at onset estimate
Wisniewski, 2006 [570]	no usable age at onset estimate
Wittchen, 1992 [571]	no usable age at onset estimate
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Akvardar, 2004 [581]	Not general population
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Paksarian, 2018 [897]	Prevalence
Patton, 2014 [898]	Prevalence

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Perkonigg, 2000 [899]	Prevalence
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Wittchen, 2008 [914]	Prevalence
Alvarado, 2012 [915]	Review
Angermeyer, 1988 [916]	Review
Bucholz, 1999 [917]	Review
Burcusa, 2007 [918]	Review
Burns, 2011 [919]	Review
Clarizio, 1989 [920]	Review
De Lijster, 2017 [921]	Review
Flor-Henry, 1985 [922]	Review
Gold, 1984 [923]	Review
Hardy, 2018 [924]	Review
Kessler, 2013 [925]	Review
Loeber, 1991 [926]	Review
Spinhoven, 2013[927]	Review
Winter, 2011 [928]	Review
Zoccolillo, 1999 [929]	Review
Welch, 2010 [930]	Unable to find the article



e-table 5. Comparison of age at onset across mental disorders

	Median	Phobias/Separation anxiety	ASD	ADHD	Social anxiety	Anorexia nervosa	Bulimia nervosa	OCD	Binge eating	Cannabis use disorder	PD	Schizophrenia	Panic disorder	Alcohol use disorder	PTSD	Depressive disorder	GAD	Bipolar disorder	ATPD
Phobias/Separation anxiety	8		0.260	0.073	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.192	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ASD	9	0.263		0.341	0.327	0.309	0.314	0.327	0.327	0.267	0.490	0.308	0.243	0.209	0.039	0.091	<0.001	0.132	<0.001
ADHD	12	0.075	0.340		0.403	0.157	0.122	0.122	0.122	0.122	0.382	0.122	0.122	0.122	0.122	0.122	0.122	0.123	0.122
Social anxiety	13	<0.001	0.327	0.408		0.080	<0.001	<0.001	<0.001	<0.001	0.286	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Anorexia nervosa	17	<0.001	0.307	0.155	0.080		0.269	0.318	0.210	0.150	0.441	0.121	0.114	0.139	0.086	0.100	0.082	0.110	0.082
Bulimia nervosa	18	<0.001	0.313	0.122	<0.001	0.268		0.520	0.541	0.176	0.466	0.091	0.088	0.196	0.079	0.098	0.034	0.085	0.032
OCD	19	<0.001	0.327	0.122	<0.001	0.320	0.515		0.167	0.040	0.374	0.001	0.001	0.048	<0.001	0.005	<0.001	0.015	<0.001
Binge eating	20	<0.001	0.327	0.122	<0.001	0.211	0.538	0.164		0.040	0.412	<0.001	<0.001	0.102	<0.001	<0.001	<0.001	0.040	<0.001
Cannabis use disorder	22	<0.001	0.269	0.122	<0.001	0.150	0.177	0.038	0.041		0.811	0.427	0.387	0.771	0.299	0.408	0.166	0.357	0.125
Personality disorder	25	0.190	0.493	0.381	0.286	0.437	0.465	0.373	0.412	0.810		0.703	0.440	0.880	0.233	0.459	0.197	0.468	0.193
Schizophrenia	25	<0.001	0.308	0.123	<0.001	0.121	0.091	0.001	<0.001	0.429	0.704		0.403	0.831	0.031	0.381	<0.001	0.479	<0.001
Panic disorder	26	<0.001	0.245	0.122	<0.001	0.114	0.088	0.001	<0.001	0.388	0.440	0.402		0.745	0.250	0.572	0.034	0.642	0.030
Alcohol use disorder	27	<0.001	0.209	0.122	<0.001	0.139	0.192	0.044	0.102	0.768	0.876	0.830	0.747		0.540	0.659	0.230	0.549	0.174
PTSD	30	<0.001	0.043	0.122	<0.001	0.086	0.080	<0.001	<0.001	0.298	0.231	0.031	0.249	0.545		0.811	0.157	0.933	0.154
Depressive disorder	30	<0.001	0.098	0.122	<0.001	0.099	0.100	0.005	<0.001	0.413	0.454	0.381	0.574	0.656	0.818		0.035	0.742	<0.001
GAD	32	<0.001	<0.001	0.122	<0.001	0.082	0.033	<0.001	<0.001	0.167	0.196	<0.001	0.034	0.228	0.156	0.039		0.611	0.591
Bipolar disorder	33	<0.001	0.137	0.122	<0.001	0.111	0.085	0.018	0.039	0.355	0.467	0.477	0.640	0.551	0.933	0.747	0.611		0.485
ATPD	35	<0.001	<0.001	0.122	<0.001	0.082	0.033	<0.001	<0.001	0.124	0.194	<0.001	0.031	0.172	0.152	<0.001	0.592	0.484	

Legend. ADHD, attention deficit/hyperactivity disorder; ASD, autism spectrum disorder; ATPD, acute and transient psychotic disorder; Binge eating, binge eating disorder; Bipolar disorder, bipolar or related disorders; GAD, generalised anxiety disorder; OCD, obsessive-compulsive disorder; Phobias/Separation anxiety, specific phobias / separation anxiety disorder; PTSD, post-traumatic stress disorder; Social anxiety, social anxiety disorder. Cells contain p value of pairwise comparisons.

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