Supplementary material

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

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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:

\[ SSE_{i,j} = w_i \cdot \left( \frac{p_{i,j,\text{observed}} - p_{i,j,\text{expected}}}{\text{width}_{i,j}} \right)^2 \]

where \( w_i \) is the weight of the \( i \)-th study, \( p_{i,j,\text{observed}} \) and \( p_{i,j,\text{expected}} \) are the observed and expected proportions of individuals in the \( j \)-th age group of the \( i \)-th study, and \( \text{width}_{i,j} \) is the width (in years) of the \( j \)-th group of the \( i \)-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:

\[ SSE_{i,j} = k \cdot w_i \cdot \left( y_{i,j,\text{observed}} - y_{i,j,\text{expected}} \right)^2 \]

where \( k \) is a constant to scale the errors, and \( y_{i,j,\text{observed}} \) and \( y_{i,j,\text{expected}} \) are the observed and expected \( j \)-th statistics of the \( i \)-th study. In preliminary analyses, we found that with \( k = 6.5 \times 10^{-7} \), 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].
Figure 1. PRISMA flow chart of study selection

Records identified through database searching (n = 7822)

Additional records identified through other sources (n = 30)

Records after duplicates removed (n = 5,442)

Records excluded (n = 4,516)

Abstract screened (n = 5,442)

Full-text articles excluded, with reasons (n = 734)
- No usable data (n = 340)
- No general population (n = 269)
- Data on prevalence (n = 63)
- No disorder according to established criteria (n = 39)
- Review (n = 15)
- Overlapping sample without additional estimates (n = 4)
- Article not in English (n = 3)
- Unable to download full text (n = 1)

Full-text articles assessed for eligibility (n = 926)

Studies included in the quantitative synthesis (meta-analysis) (n = 192)
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.

![Graph showing age at onset for generalized anxiety disorder](image)

15.5, 30.5

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

![Graph showing age at onset for panic disorder](image)

15.5, 35.5
e-figure 6. Curve of age at onset for specific phobias and separation anxiety disorder.

![Diagram of age at onset for specific phobias and separation anxiety disorder]

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

![Diagram of age at onset for social anxiety disorder]
e-figure 8. Curve of age at onset for obsessive-compulsive disorder.

![Age-onset curve for obsessive-compulsive disorder](image)

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

![Age-onset curve for anorexia nervosa](image)
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![Figure 10](image1)

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

![Figure 11](image2)
e-figure 12. Curve of age at onset for disorders due to use of alcohol.

![Graph of age at onset for disorders due to use of alcohol.]

19.5
30.5
45.5

age

10
20
30
40
50

proportion

0.00
0.02
0.04
0.06
0.08
0.10
0.12

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

![Graph of age at onset for disorders due to use of cannabis.]

19.5

age

10
20
30
40
50

proportion

0.00
0.02
0.04
0.06
0.08
0.10
0.12
e-figure 14. Curve of age at onset for depressive disorder.

![Curve of age at onset for depressive disorder](image1.png)

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

![Curve of age at onset for bipolar or related disorder](image2.png)
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 # |
|-----------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| **TITLE**       |    |                                                                                                                                                                                                                                                                                                                                                 |                   |
| Title           | 1  | Identify the report as a systematic review, meta-analysis, or both.                                                                                                                                                                                                                 | 1                 |
| **ABSTRACT**    |    |                                                                                                                                                                                                                                                                                                                                                 |                   |
| 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                 |
| **INTRODUCTION**|    |                                                                                                                                                                                                                                                                                                                                                 |                   |
| 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                 |
| **METHODS**     |    |                                                                                                                                                                                                                                                                                                                                                 |                   |
| 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                 |
| Table 1: Key Elements of a Systematic Review Methodology |
|--------------------------------------------------------|
| **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., I²) 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 |

**RESULTS**

| 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 |

**DISCUSSION**

| 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 |
| 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 |
|---------|--------------------------------------------------------------------------------|---------------------|
| 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                   |
| 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                   |
| 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                   |
|   | Reporting of results should include |   |
|---|-----------------------------------|---|
| 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 | 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 | Intermittent explosive disorder | DSM-IV | First symptom |
| Alem [7] | Ethiopia | PC | Rural community | 15 to 49 | ns | 295 | Schizophrenia | ICD-10 | First symptom |
| Al-Hamzawi [8] | Iraq | CS | Iraqi Mental Health Survey | 18+ | 50 | 187 | Bipolar disorder, major depressive disorder | DSM-IV | First symptom |
| Angst [9] | U.S. | CS | National Comorbidity Survey Replication | 13+ | Ns | 1,093 | Generalized anxiety disorder | DSM-IV | First symptom |
| Angst [10] | Switzerland | PC | The Zurich Study | 20 to 40 | Ns | 591 | Major depressive disorder | ICD-10, DSM-III | First symptom |
| Angst [11] | Switzerland | PC | The Zurich Study | 20 to 30 | Ns | 591 | 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 | 107 | Specific phobia for animals, heights, environments, storms, water, blood, situational, lifts, driving, physical, doctors, vomiting, infections, others. | DSM-IV | First symptom |
| Bienvenu [14] | U.S. | CS | Baltimore ECA Follow-up Study | 18+ | Ns | 60 | Bipolar disorder, major depressive disorder, dysthymia | DSM-III | First symptom |
| Birrell [15] | Australia | CS | Australian National Survey of Mental Health and Wellbeing | 16 to 85 | Ns | 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 | 7,124 | Major depressive episode | DSM-IV | First diagnosis |
| Bland [17] | Canada | CS | Edmonton survey | 18+ | Ns | 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 | 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 | 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 | 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 |
| Brotom [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+ | Ns | 11,525 | Major depressive episode | DSM-IV | First diagnosis |
| Brotom [22] | Ukraine | CS | | 18+ | Ns | | Alcohol abuse, 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 | 1,643 | Alcohol dependence, social anxiety disorder | DSM-IV | First diagnosis |

### Notes
- **ICD-10**: International Classification of Diseases, 10th Revision
- **DSM-IV**: Diagnostic and Statistical Manual of Mental Disorders, 4th Edition
- **First symptom**: The first symptom of the disorder was identified in the study.
| Author | Country | Design | Study | Age | Female % | Population | Individu als | Disorders | Diagnostic criteria | Onset definition |
|--------|---------|--------|-------|-----|----------|------------|------------|----------|-------------------|-----------------|
| 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 |
| Burnham [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 |
| Burststein [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 | The Taiwan Aboriginal Study Project, 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 abuse, alcohol dependence, alcohol abuse, alcohol dependence, d | 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 | DSM 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 | NBHM 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 |
| Cia [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 |
| Cilicilli [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 |
| Dalgaard [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                  |
|-------------|-------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------|-----|----------|------------|-------------|---------------------------------------------------------------------------|----------------------|-----------------------------------|
| De Vries [43]| The Netherlands                                                         | CS                     | Netherlands Mental Health Survey and Incidence Study-2 (NE MESIS-2)   | 18-64 | 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 symptom                    |
| Fava [52]    | U.S.                                                                   | CS                     | National Comorbidity Survey Replication                              | 18+  | ns       | 9,282      | 977         | Major depressive episode                                                  | DSM-IV               | First symptom                    |
| Fernandez- Paiba [53] | UK                      | CS                     | Scottish Family Health Study                                          | 18+  | 59       | 20,198     | 2,726       | Major depressive disorder                                                 | DSM-IV               | na                               |
| Fogarty [54] | Canada                                                                  | CS                     | Community survey: ESEMeD-Spain                                       | 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 | 8,116    | 62         | 162         | Bulimia nervosa                                                          | DSM-III-R            | First diagnosis                  |
| Gilder [57]  | U.S.                                                                   | CS                     | Community survey on American Indian                                   | 18 to 70 | 580      | 254        | 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 Wellbeing                        | 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 |
|--------|---------|--------|-------|-----|----------|------------|-------------|-----------|------------------|----------------|
| Hafner [66] | Denmark, Germany | BC | Danish and the Mannheim registers | 12 to 59 | ns | 5,065,000 | 527 | substance use disorders | ICD-8 | First hospitalization |
| Hafner [67] | Germany | CS | AHC study | 12 to 59 | 52.4 | 1,500,000 | 267 | Schizophrenia spectrum, 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 |
| Hofmeyer-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, Isael, 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 |
|---------------|--------------------------|--------|--------------------------------------|-------|----------|------------|-------------|--------------------------------------------------------------------------------------------------------------------|---------------------|------------------|
| Kessler [86]  | U.S.                     | CS     | National Representative Survey of the U.S. | 18+   | ns       | 5,692      | ns          | 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 | 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         | 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, DSM-IV         | 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, DSM-IV                         | 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, DSM-III-R | First hospitalization |                  |
| Author | Country | Design | Study | Age | Female % | Population | Individuals | Disorders | Diagnostic criteria | Onset definition |
|--------|---------|--------|-------|-----|----------|------------|-------------|----------|-------------------|-----------------|
| 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 |
| Laoma [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 | Landby 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 use disorder | DSM-IV | First diagnosis |
| Author | Country | Design | Study | Age | Female % | Population | Individu als | Disorders | Diagnostic criteria | Onset definition |
|--------|---------|--------|-------|-----|----------|------------|-------------|-----------|------------------|----------------|------------------|
| 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 |
| Mehta [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 |
| Mehta [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 Zeland | 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 abuse 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 |
| Peralta [130] | Finland | CS | Health 2000 Health Examination Survey | 30+ | Ns | 6,085 | 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 | Individu als | 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               |
| Rabensowiz [134] | Israel           | PC     | National Psychiatric Hospitalization Case Registry                    | 15+  | 40.4     | 10,756     | 10,756       | Schizophrenia                                                          | ICD-9               | First hospitalization                                                      |
| Ramage-Morin [135] | Canada           | CS     | 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                                               |
| Rasanei [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                                              |
| Rantio [140]    | Finland          | CS     | NFBC 1966 Study                                                       | 16 to 45 | ns     | 10,277     | 61           | 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, generalized 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, schizophrenia, schizoaffective disorder, schizophrenia, schizofreniform 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     | Zunich 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, 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                                              |
| Schneider [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                                              |
| Schneider [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 [154] | Country | Design | Study | Age | Female % | Population | Individuals | Disorders | Diagnostic criteria | Onset definition |
|--------------|---------|--------|-------|-----|----------|------------|-------------|----------|-------------------|-----------------|
| Scott        | 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 Netherland, 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   |
| Slatieske [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   |
| Stefnansson [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, UK | CS    | World Health Organization World Mental Health Surveys initiative | 18+ | Ns | 142,405 | 5,696 | Social anxiety disorder | DSM-IV    | ns |
| Steinf[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 |
| Stansin, 2007 [163] | U.S. | CS    | United States' National Epidemiologic Survey on Alcohol and Related Conditions | 18+ | ns       | 43,093    | 4,030       | Specific phobia | 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 |
| Suvisaa [165] | Finland | PC    | Finnish Population Register | 16-26 | ns       | 5,645     | 5,645       | Schizophrenia | ICD-8/9 | First hospitalization |
| Suvisaa [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 |
| Swendse[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 |
| Tib[172]     | The Netherlands | CS    | Netherlands Study of Depression and Anxiety (NEDSA) | 18 to 65 | 69 | 2,981 | 507 | Agoraphobia | DSM-IV    | First symptom |
| Author              | Country                  | Design | Study                                                                 | Age | Female | Population | Individu als | 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             | 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 | DSM-IV              | First diagnosis             |
| Vila- Rodriguez [180]| Brazil, China, Colombia, Costa Rica, Taiwan, U.S. | CS     | World Mental Health Survey                                            | 18+ | ns     | 124,902    | 9,243         | Specific phobias                                                         | DSM-IV              | First diagnosis             |
| Wardenaar [181]    | Belgium, Brazil, Bulgaria, China, Colombia, France, Germany, Iraq, Italy, 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 Comorbidty 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/V         | First diagnosis             |
| Wilborg [188]       | Germany                  | CS     | Psychenet: the Hamburg Network for Mental Health                      | 18+ | ns     | 1,645      | 136          | Somatoform disorder                                                     | ICD-10              | First symptom               |
| Williams [189]      | Australia                | CS     | Geelong Osteoporosis Study (GOS)                                      | 24 to 98 | 0     | 1,540      | 961          | Anxiety disorder, mood disorders, substance use disorder                 | DSM-IV              | First symptom               |
| Witten [190]        | Germany                  | PC     | Early Developmental Stages of Psychopathology Study                   | 14-24 | ns     | 3,021      | 538          | Agoraphobia, panic attack, panic disorder                                 | DSM-IV              | First diagnosis             |
| Witten [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              | First diagnosis             |
| 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;
| Author, year | Reason for exclusion |
|-------------|---------------------|
| 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 |
| Souef, 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 |
| Alaraäinen, 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 |
| Author, year | Reason for exclusion |
|--------------|----------------------|
| Bauer, 2017  | no usable age at onset estimate |
| Bauermeister, 2011 | no usable age at onset estimate |
| Baumeister, 2005 | no usable age at onset estimate |
| Behrendt, 2009 | no usable age at onset estimate |
| Behrendt, 2012 | no usable age at onset estimate |
| Belik, 2008 | no usable age at onset estimate |
| Bernstein, 2006 | no usable age at onset estimate |
| Bhugra, 2002 | no usable age at onset estimate |
| Bilevicius, 2019 | no usable age at onset estimate |
| Birrell, 2015 | no usable age at onset estimate |
| Blobaum, 2006 | no usable age at onset estimate |
| Bogren, 2007 | no usable age at onset estimate |
| Bogren, 2010 | no usable age at onset estimate |
| Borga, 1992 | no usable age at onset estimate |
| Borges, 2011 | no usable age at onset estimate |
| Boschloo, 2011 | no usable age at onset estimate |
| Bourdon, 1992 | no usable age at onset estimate |
| Breslau, 2004 | no usable age at onset estimate |
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| Breslau, 2009 | no usable age at onset estimate |
| Brezo, 2007 | no usable age at onset estimate |
| Bromet, 2007 | no usable age at onset estimate |
| Brower, 2010 | no usable age at onset estimate |
| Browne, 2006 | no usable age at onset estimate |
| Bruffaerts, 2007 | no usable age at onset estimate |
| Bruffaerts, 2017 | no usable age at onset estimate |
| Bulayeva, 2006 | no usable age at onset estimate |
| Buller, 1991 | no usable age at onset estimate |
| Burke, 1991 | no usable age at onset estimate |
| Burke, 1994 | no usable age at onset estimate |
| Burns, 1980 | no usable age at onset estimate |
| Burt, 2010 | no usable age at onset estimate |
| Byers, 2014 | no usable age at onset estimate |
| Cantor-Graae, 2007 | no usable age at onset estimate |
| Capone, 2008 | no usable age at onset estimate |
| Castagnini, 2013 | no usable age at onset estimate |
| Chan, 2010 | no usable age at onset estimate |
| Chang, 2010 | no usable age at onset estimate |
| Chapa, 2018 | no usable age at onset estimate |
| Chapman, 2015 | no usable age at onset estimate |
| Chartier, 2003 | no usable age at onset estimate |
| Chartier, 2011 | no usable age at onset estimate |
| Chen, 2009 | no usable age at onset estimate |
| Cheng, 2018 | no usable age at onset estimate |
| Chong, 2012 | no usable age at onset estimate |
| Clark, 2007 | no usable age at onset estimate |
| Clemmensen, 2016 | no usable age at onset estimate |
| Cohen, 2016 | no usable age at onset estimate |
| Colman, 2007 | no usable age at onset estimate |
| Crum, 2004 | no usable age at onset estimate |
| Cuijpers, 2007 | no usable age at onset estimate |
| David, 1997 | no usable age at onset estimate |
| Dayal, 2017 | no usable age at onset estimate |
| de Graaf, 2011 | no usable age at onset estimate |
| de Heer, 2017 | no usable age at onset estimate |
| Degenhardt, 2003 | no usable age at onset estimate |
| Degenhardt, 2009 | no usable age at onset estimate |
| Degonda, 1993 | no usable age at onset estimate |
| Demallie, 1995 | no usable age at onset estimate |
| Devanand, 2014 | no usable age at onset estimate |
| Dietrich, 2009 | no usable age at onset estimate |
| Ding, 2009 | no usable age at onset estimate |
| Doherty, 2008 | no usable age at onset estimate |
| Dube, 2006 | no usable age at onset estimate |
| Author, year       | Reason for exclusion                  |
|-------------------|---------------------------------------|
| 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       |
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| 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       |
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| Gissler, 2013 [337]| no usable age at onset estimate       |
| Glanz, 2019 [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       |
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| Gregory, 2009 [348]| no usable age at onset estimate       |
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| Hanna, 2001 [355]| no usable age at onset estimate       |
| Hanssen, 2009 [356]| no usable age at onset estimate       |
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| Hart, 2012 [359]| no usable age at onset estimate       |
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| Author, year | Reason for exclusion |
|--------------|----------------------|
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| Kessler, 1998 [389] | no usable age at onset estimate |
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| Moss, 2010 [444] | no usable age at onset estimate |
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| Myles-Worsley, 2007 [449] | no usable age at onset estimate |
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| Author, year | Reason for exclusion |
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| 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 |
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| Pitkanen, 2005 [476] | no usable age at onset estimate |
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| Power, 2013 [482] | no usable age at onset estimate |
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| Rasanen, 1998 [486] | no usable age at onset estimate |
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| Ridenour, 2011 [492] | no usable age at onset estimate |
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| Rossler, 2012 [494] | no usable age at onset estimate |
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| Scocco, 2008 [500] | no usable age at onset estimate |
| Scott, 2008 [501] | no usable age at onset estimate |
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| 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 |
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| 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 |
| Author, year | Reason for exclusion |
|--------------|---------------------|
| Smyth, 2011  | no usable age at onset estimate |
| Sorensen, 2016 | no usable age at onset estimate |
| Sourander, 2007 | no usable age at onset estimate |
| Spaner, 1994  | no usable age at onset estimate |
| Spauwen, 2003  | no usable age at onset estimate |
| Spiers, 2011  | no usable age at onset estimate |
| Stein, 2008  | no usable age at onset estimate |
| Stein, 2010  | no usable age at onset estimate |
| Stevens, 2012 | no usable age at onset estimate |
| Stice, 1998  | no usable age at onset estimate |
| Strunin, 2007  | no usable age at onset estimate |
| Strunin, 2013 | no usable age at onset estimate |
| Swartz, 2005  | no usable age at onset estimate |
| Tanskanen, 2008 | no usable age at onset estimate |
| Tantoh, 2016  | no usable age at onset estimate |
| Tebeeka, 2018 | no usable age at onset estimate |
| Tegelhoff, 2016 | no usable age at onset estimate |
| Ten Have, 2002  | no usable age at onset estimate |
| Ten Have, 2002  | no usable age at onset estimate |
| Ten Have, 2013 | no usable age at onset estimate |
| Ten Have, 2013 | no usable age at onset estimate |
| Thapar, 2013  | no usable age at onset estimate |
| Thomas, 2000  | no usable age at onset estimate |
| Thompson, 2012 | no usable age at onset estimate |
| Riekkii, 2019 | no usable age at onset estimate |
| Trinkoff, 1990 | no usable age at onset estimate |
| Trumpf, 2010  | no usable age at onset estimate |
| Vido, 2019  | no usable age at onset estimate |
| van Balkom, 2017 | no usable age at onset estimate |
| van Beek, 2010 | no usable age at onset estimate |
| van Lang, 2007  | no usable age at onset estimate |
| van Os, 2002  | no usable age at onset estimate |
| van Ours, 2006 | no usable age at onset estimate |
| Vega, 2002  | no usable age at onset estimate |
| Verhagen, 2008 | no usable age at onset estimate |
| Verster, 2009 | no usable age at onset estimate |
| Viana, 2018 | no usable age at onset estimate |
| Vilalta-Franch, 2013 | no usable age at onset estimate |
| Vilsaint, 2019 | no usable age at onset estimate |
| Vitola, 2017  | no usable age at onset estimate |
| Vitousek, 1994 | no usable age at onset estimate |
| Korff, 1985  | no usable age at onset estimate |
| Walker, 2002 | no usable age at onset estimate |
| Wang, 2005  | no usable age at onset estimate |
| Wang, 2016  | no usable age at onset estimate |
| Warner, 2007 | no usable age at onset estimate |
| Weitzman, 2005 | no usable age at onset estimate |
| Wells, 2008  | no usable age at onset estimate |
| Wells, 2009  | no usable age at onset estimate |
| Wessely, 1994 | no usable age at onset estimate |
| Willoughby, 2009 | no usable age at onset estimate |
| Wilson, 1994 | no usable age at onset estimate |
| Wilson, 2014 | no usable age at onset estimate |
| Wisniewski, 2006 | no usable age at onset estimate |
| Wittchen, 1992 | no usable age at onset estimate |
| Wittchen, 2008 | no usable age at onset estimate |
| Wright, 2009 | no usable age at onset estimate |
| Wrobel, 1992 | no usable age at onset estimate |
| Wu, 2014 | no usable age at onset estimate |
| Yates, 2010 | no usable age at onset estimate |
| Yucun, 1998 | no usable age at onset estimate |
| Zakrajsek, 2006 | no usable age at onset estimate |
| Author, year          | Reason for exclusion             |
|----------------------|----------------------------------|
| Abbott, 1998 [579]   | Not general population           |
| Agrawal, 2014 [580]  | Not general population           |
| Akvardar, 2004 [581] | Not general population           |
| Alda, 1996 [582]     | Not general population           |
| Allegri, 2013 [583]  | Not general population           |
| Almeida, 2002 [584]  | Not general population           |
| Anand, 2015 [585]    | Not general population           |
| Arunpongpaisal, 2013 [586] | Not general population   |
| Baldessarini, 2010 [587] | Not general population   |
| Bar, 2003 [588]      | Not general population           |
| Barnes, 2011 [589]   | Not general population           |
| Bauer, 2012 [590]    | Not general population           |
| Bauer, 2015 [591]    | Not general population           |
| Beekman, 2004 [592]  | Not general population           |
| Benazzi, 2008 [593]  | Not general population           |
| Borga, 1991 [594]    | Not general population           |
| Borga, 1992 [595]    | Not general population           |
| Bourne, 2015 [596]   | Not general population           |
| Brakoulias, 2017 [597] | Not general population   |
| Bueno, 2014 [598]    | Not general population           |
| Bulayeva, 2000 [599] | Not general population           |
| Buoli, 2016 [600]    | Not general population           |
| Bureau, 2013 [601]   | Not general population           |
| Butwicka, 2010 [602] | Not general population           |
| Caamano-Isorna, 2008 [603] | Not general population   |
| Cadenhead, 2009 [604] | Not general population           |
| Capella, 2015 [605]  | Not general population           |
| Carter, 2011 [606]   | Not general population           |
| Castle, 1993 [607]   | Not general population           |
| Chen, 2014 [608]     | Not general population           |
| Chen, 2018 [609]     | Not general population           |
| Chengappa, 2003 [610] | Not general population           |
| Chou, 2013 [611]     | Not general population           |
| Cieslak, 2016 [612]  | Not general population           |
| Col, 2014 [613]      | Not general population           |
| Cong, 2012 [614]     | Not general population           |
| Corruble, 2008 [615] | Not general population           |
| Coryell, 2013 [616]  | Not general population           |
| Cotton, 2013 [617]   | Not general population           |
| Cutter, 2017 [618]   | Not general population           |
| Cuyperse, 2015 [619] | Not general population           |
| Dakanalis, 2016 [620] | Not general population           |
| Das, Praveen, 2018 [621] | Not general population       |
| De la Torre, 2012 [622] | Not general population       |
| Del Pino-Gutierrez, 2015 [623] | Not general population   |
| Dell'Oso, 2013 [624] | Not general population           |
| Delucchi, 2011 [625] | Not general population           |
| Dierkhising, 2013 [626] | Not general population       |
| Docherty, 2017 [627] | Not general population           |
| Dominguez, 2013 [628] | Not general population           |
| Duvis, 2012 [629]    | Not general population           |
| Eaton, 1992 [630]    | Not general population           |
| Ebejer, 2012 [631]   | Not general population           |
| Egeland, 1987 [632]  | Not general population           |
| Ehmann, 2014 [633]   | Not general population           |
| El Wassify, 2018 [634] | Not general population   |
| El-Haddad, 2014 [635] | Not general population           |
| Elkins, 2007 [636]   | Not general population           |
| Enander, 2018 [637]  | Not general population           |
| Eriksson, 2011 [638] | Not general population           |
| Evenson, 1993 [639]  | Not general population           |
| Fang, 2013 [640]     | Not general population           |
| Faraone, 1994 [641]  | Not general population           |
| Faravelli, 2008 [642] | Not general population           |
| Author, year          | Reason for exclusion          |
|----------------------|------------------------------|
| Fichter, 2016 [643]  | Not general population       |
| Fiedorowicz, 2009 [644] | Not general population      |
| Fiedorowicz, 2012 [645] | Not general population      |
| Fink, 2016 [646]     | Not general population       |
| Fontenelle, 2017 [647] | Not general population      |
| Furberg, 2008 [648]  | Not general population       |
| Gadermann, 2012 [649] | Not general population      |
| Gaebeel, 2012 [650]  | Not general population       |
| Gallagher, 2010 [651] | Not general population      |
| Gallagher, 2012 [652] | Not general population      |
| Geske, 2015 [653]    | Not general population       |
| Ghisleni, 2015[654]  | Not general population       |
| Ghosh, 2016 [655]    | Not general population       |
| Giltay, 2011 [656]   | Not general population       |
| Glahn, 2009 [657]    | Not general population       |
| Glasheen, 2013 [658] | Not general population       |
| Goes, 2012 [659]     | Not general population       |
| Goldstein, 1990 [660] | Not general population      |
| Goodwin, 2002 [661]  | Not general population       |
| Gradus, 2014 [662]   | Not general population       |
| Grant, 1998 [663]    | Not general population       |
| Grant, 2017 [664]    | Not general population       |
| Green, 2012 [665]    | Not general population       |
| Grigoroiu-Serbanescu, 2015 [666] | Not general population |
| Grove, 2012 [667]     | Not general population       |
| Gundogdu, 2013 [668] | Not general population       |
| Gupta, 2017 [669]    | Not general population       |
| Gur, 2016 [670]      | Not general population       |
| Gureje, 1991 [671]   | Not general population       |
| Hafner, 1991 [672]   | Not general population       |
| Hafner, 1993 [673]   | Not general population       |
| Hakko, 2003 [674]    | Not general population       |
| Hall, 1991 [675]     | Not general population       |
| Hambrecht, 1992 [676] | Not general population      |
| Hasler, 2016 [677]   | Not general population       |
| Hayatbakhshi, 2008 [678] | Not general population |
| Heinrich, 2013 [679] | Not general population       |
| Hickling, 2018 [680] | Not general population       |
| Hirmeth, 2015 [681]  | Not general population       |
| Hoffmann, 2003 [682] | Not general population       |
| Hsu, 2015 [683]      | Not general population       |
| Hulkko, 2017 [684]   | Not general population       |
| Hybels, 2012 [685]   | Not general population       |
| Iabumuyi, 1985 [686] | Not general population       |
| Iga, 2015 [687]      | Not general population       |
| Jaaskelainen, 2016 [688] | Not general population |
| Javaras, 2008 [689]  | Not general population       |
| Jenkins, 2018 [690]  | Not general population       |
| Jhanda, 2018 [691]   | Not general population       |
| Jia, 2015 [692]      | Not general population       |
| Jimenez-Murcia, 2010 [693] | Not general population |
| Jimenez-Murcia, 2016 [694] | Not general population |
| Jimenez-Murcia, 2017 [695] | Not general population |
| Johnson, 1985 [696]  | Not general population       |
| Joshi, 2001 [697]    | Not general population       |
| Kamali, 2009 [698]   | Not general population       |
| Katerberg, 2010 [699] | Not general population      |
| Kecmanovic, 2010 [700] | Not general population |
| Kelly, 2013 [701]    | Not general population       |
| Kenardy, 1990 [702]  | Not general population       |
| Kendler, 1992 [703]  | Not general population       |
| Kendler, 2005 [704]  | Not general population       |
| Kendler, 2007 [705]  | Not general population       |
| Kendler, 2008 [706]  | Not general population       |
| Author, year | Reason for exclusion              |
|--------------|----------------------------------|
| Kendler, 2008 [707] | Not general population          |
| Kendler, 2013 [708] | Not general population          |
| Kessler, 2014 [709] | Not general population          |
| Ketter, 2015 [710] | Not general population          |
| Kienzle, 2009 [711] | Not general population          |
| Kiezebrink, 2009 [712] | Not general population          |
| Kinasz, 2016 [713] | Not general population          |
| Kovacs, 1984 [714] | Not general population          |
| Krausz, 1993 [715] | Not general population          |
| Kuo, 2006 [716] | Not general population          |
| Kuo, 2014 [717] | Not general population          |
| Larson, 1974 [718] | Not general population          |
| Lavoir, 1987 [719] | Not general population          |
| Lavori, 1993 [720] | Not general population          |
| Lee, 2012 [721] | Not general population          |
| Lesch, 2013 [722] | Not general population          |
| Lewitzka, 2010 [723] | Not general population          |
| Li, 2015 [724] | Not general population          |
| Li, 2015 [725] | Not general population          |
| Li, 2017 [726] | Not general population          |
| Lieb, 2007 [727] | Not general population          |
| Lin, 2001 [728] | Not general population          |
| Lin, 2013 [729] | Not general population          |
| Liu, 2004 [730] | Not general population          |
| Liu, 2015 [731] | Not general population          |
| Lydecker, 2018 [732] | Not general population         |
| Lynskey, 2007 [733] | Not general population         |
| Lynskey, 2012 [734] | Not general population         |
| Maccari, 2007 [735] | Not general population         |
| Maki, 2014 [736] | Not general population         |
| Mikikyrov, 1997 [737] | Not general population         |
| Mann, 2013 [738] | Not general population         |
| Mare, 2019 [739] | Not general population         |
| Marie, 2008 [740] | Not general population         |
| Markkula, 2017 [741] | Not general population  |
| Masmoudi, 2016 [742] | Not general population  |
| Mechri, 2013 [743] | Not general population         |
| Menezes, 1993 [744] | Not general population         |
| Moore, 2012 [745] | Not general population         |
| Mork, 2013 [746] | Not general population         |
| Moss, 2008 [747] | Not general population         |
| Mustelin, 2016 [748] | Not general population         |
| Myles-Worsley, 1999 [749] | Not general population         |
| Nair, 2013 [750] | Not general population         |
| Naji, 2017 [751] | Not general population         |
| Neuman, 2005 [752] | Not general population         |
| Newman, 1998 [753] | Not general population         |
| Niles, 2012 [754] | Not general population         |
| Ohaeri, 1992 [755] | Not general population         |
| Oncel, 2014 [756] | Not general population         |
| Oostervink, 2015 [757] | Not general population         |
| Ortiz-Garcia de la Foz, 2016 [758] | Not general population         |
| Orvaschel, 1982 [759] | Not general population         |
| Oude Voshaar, 2011 [760] | Not general population         |
| Park, 2011 [761] | Not general population         |
| Park, 2014 [762] | Not general population         |
| Parker, 2013 [763] | Not general population         |
| Paruk, 2015 [764] | Not general population         |
| Pawlak, 2018 [765] | Not general population         |
| Pedersen, 2001 [766] | Not general population         |
| Penninx, 2017 [767] | Not general population         |
| Petruzzelli, 2018 [768] | Not general population         |
| Pickens, 1991 [769] | Not general population         |
| Poon, 2017 [770] | Not general population         |
| Author, year          | Reason for exclusion       |
|-----------------------|---------------------------|
| Post, 2015 [771]      | Not general population    |
| Post, 2016 [772]      | Not general population    |
| Poudel, 2017 [773]    | Not general population    |
| Prata, 2013 [774]     | Not general population    |
| Preissig, 2016 [775]  | Not general population    |
| Pulver, 1990 [776]    | Not general population    |
| Qian, 2016 [777]      | Not general population    |
| Queirazza, 2014 [778]| Not general population    |
| Ramirez, 2015 [779]   | Not general population    |
| Rasgon, 2016 [780]    | Not general population    |
| Ridley, 1990 [781]    | Not general population    |
| Ritsner, 2010 [782]   | Not general population    |
| Ritter, 2014 [783]    | Not general population    |
| Robison, 2009 [784]   | Not general population    |
| Rognli, 2014 [785]    | Not general population    |
| Rubio-Abadal, 2015 [786]| Not general population |
| Saewyc, 1998 [787]    | Not general population    |
| Sartor, 2016 [788]    | Not general population    |
| Sathyän, 2014 [789]   | Not general population    |
| Schandrin, 2016 [790] | Not general population    |
| Schimmelmann, 2007 [791]| Not general population  |
| Segarra, 2012 [792]   | Not general population    |
| Seo, 2011 [793]       | Not general population    |
| Serretti, 2013 [794]  | Not general population    |
| Sharp, 1994 [795]     | Not general population    |
| Shaw, 2012 [796]      | Not general population    |
| Shi, 2015 [797]       | Not general population    |
| Shim, 2015 [798]      | Not general population    |
| Shimshoni, 2011 [799] | Not general population    |
| Sibisi, 1990 [800]    | Not general population    |
| Silveira, 2011 [801]  | Not general population    |
| Skodol, 2005 [802]    | Not general population    |
| Sorensen, 2016 [803]  | Not general population    |
| Southwick, 2014 [804] | Not general population    |
| Stassen, 1987 [805]   | Not general population    |
| Statham, 2014 [806]   | Not general population    |
| Stefanis, 2013 [807]  | Not general population    |
| Steegenga, 2012 [808] | Not general population    |
| Steinberg, 1999 [809] | Not general population    |
| Subramaniam, 2012 [810]| Not general population   |
| Suchanek, 2012 [811]  | Not general population    |
| Sugranyes, 2009 [812] | Not general population    |
| Sylvia, 2015 [813]    | Not general population    |
| Szerman, 2013 [814]   | Not general population    |
| Tabares-Seisdedos, 2016 [815]| Not general population |
| Tamias, 2006 [816]    | Not general population    |
| Tanskanen, 2009 [817] | Not general population    |
| Timberlake, 2007 [818]| Not general population    |
| Todd, 2008 [819]      | Not general population    |
| Tondo, 2010 [820]     | Not general population    |
| Tondo, 2014 [821]     | Not general population    |
| Torres, 2016 [822]    | Not general population    |
| Trim, 2009 [823]      | Not general population    |
| Truong, 2013 [824]    | Not general population    |
| van der Wee, 2011 [825]| Not general population   |
| van der Wee, 2013 [826]| Not general population   |
| Vandeleur, 2015 [827] | Not general population    |
| Venisse, 2016 [828]   | Not general population    |
| Verhaak, 2015 [829]   | Not general population    |
| Viviani, 2003 [830]   | Not general population    |
| Vyas, 2007 [831]      | Not general population    |
| Wang, 2012 [832]      | Not general population    |
| Welham, 2003 [833]    | Not general population    |
| Wessely, 1998 [834]   | Not general population    |
| Author, year | Reason for exclusion |
|-------------|----------------------|
| Wichow Icz, 2016 [835] | Not general population |
| Wilhelmse, 2011 [836] | Not general population |
| Wilson, 2015 [837] | Not general population |
| Wolff, 2009 [838] | Not general population |
| Woo, 2014 [839] | Not general population |
| Woodside, 1992 [840] | Not general population |
| Wu, 2008 [841] | Not general population |
| Yao, 2010 [842] | Not general population |
| Zaninotto, 2014 [843] | Not general population |
| Zhang, 2013 [844] | Not general population |
| Zhang, 2014 [845] | Not general population |
| Zhong, 2017 [846] | Not general population |
| Zhu, 2012 [847] | Not general population |
| Gilman, 2002 [848] | Overlapping population without additional estimates |
| Hafner, 1998 [849] | Overlapping population without additional estimates |
| Tian, 2017 [850] | Overlapping population without additional estimates |
| Wittchen, 1992 [851] | Overlapping population without additional estimates |
| Alegria, 2007 [852] | Prevalence |
| Andrade, 2003 [853] | Prevalence |
| Atladottir, 2014 [854] | Prevalence |
| Auerbach, 2017 [855] | Prevalence |
| Beesdo, 2007 [856] | Prevalence |
| Bland, 1988 [857] | Prevalence |
| Borges, 2017 [858] | Prevalence |
| Bourdon, 1988 [859] | Prevalence |
| Brennan, 2000 [860] | Prevalence |
| Carraro, 2015 [861] | Prevalence |
| Caye, 2016 [862] | Prevalence |
| Colman, 2008 [863] | Prevalence |
| Colman, 2009 [864] | Prevalence |
| de Graaf, 2016 [865] | Prevalence |
| Dickerson, 2012 [866] | Prevalence |
| Eaton, 1989 [867] | Prevalence |
| Gerstenberg, 2015 [868] | Prevalence |
| Grant, 1993 [869] | Prevalence |
| Grant, 1998 [870] | Prevalence |
| Grant, 1998 [871] | Prevalence |
| Harford, 2010 [872] | Prevalence |
| Harvey, 2009 [873] | Prevalence |
| Harvey, 2018 [874] | Prevalence |
| Hatch, 2009 [875] | Prevalence |
| Hatch, 2010 [876] | Prevalence |
| Heimberg, 2000 [877] | Prevalence |
| Helzer, 1990 [878] | Prevalence |
| Hennig, 2017 [879] | Prevalence |
| Isohanni, 2009 [880] | Prevalence |
| Kalaydjian, 2009 [881] | Prevalence |
| Kano, 2009 [882] | Prevalence |
| Kessler, 1998 [883] | Prevalence |
| Koenen, 2017 [884] | Prevalence |
| Kraus, 2000 [885] | Prevalence |
| Lai-Ming Hui C, 2015 [886] | Prevalence |
| Lee, 2009 [887] | Prevalence |
| Lev-Ran, 2013 [888] | Prevalence |
| Louie, 2018 [889] | Prevalence |
| Lukat, 2017 [890] | Prevalence |
| Marshall, 1990 [891] | Prevalence |
| Moffitt, 2005 [892] | Prevalence |
| Nagel, 2016 [893] | Prevalence |
| Nierenberg, 2010 [894] | Prevalence |
| Nock, 2007 [895] | Prevalence |
| Ouk Park, 2015 [896] | Prevalence |
| Paksarian, 2018 [897] | Prevalence |
| Patton, 2014 [898] | Prevalence |
| Author, year                        | Reason for exclusion |
|------------------------------------|----------------------|
| Perkonigg, 2000 [899]              | Prevalence           |
| Perkonigg, 2006 [900]              | Prevalence           |
| Ravens-Sieberer, 2015 [901]        | Prevalence           |
| Rees, 2014 [902]                   | Prevalence           |
| Ruggeri, 2013 [903]                | Prevalence           |
| Sandanger, 1999 [904]              | Prevalence           |
| Shetye, 2007 [905]                 | Prevalence           |
| Simon, 1992 [906]                  | Prevalence           |
| Stice, 2010 [907]                  | Prevalence           |
| Sung, 2004 [908]                   | Prevalence           |
| Van Milligen, 2011 [909]           | Prevalence           |
| Vilalta-Franch, 2012 [910]         | Prevalence           |
| Wang, 2003 [911]                   | Prevalence           |
| Weissman, 1984 [912]               | Prevalence           |
| White, 2015 [913]                  | Prevalence           |
| 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 | 0.192 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <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 | 0.132 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| ADHD                 | 12     | 0.075                       | 0.340 | 0.403 | 0.157 | 0.122 | 0.122 | 0.122 | 0.122 | 0.122 | 0.122 | 0.122 | 0.122 | 0.122 | 0.122 | 0.122 | 0.122 | 0.122 | 0.122 | 0.122 | 0.122 |
| Social anxiety       | 13     | <0.001                      | 0.327 | 0.408 | 0.080 | <0.001 | <0.001 | <0.001 | 0.286 | <0.001 | <0.001 | <0.001 | <0.001 | <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 | 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 | <0.001 | <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 |
| ATDP                 | 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; ATDP, 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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