**Supplement: Anxiety, depression and post-traumatic stress disorder in refugees resettling in developed countries: a systematic review and meta-analysis**

-- Henkelmann *et al.*

**Table S1**. Characteristics of included studies and samples.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Study** | **Diagnostic Instrument** | | **Outcome** | **Duration of stay (mos)** |
| Westermeyer (1988) | Diagnostic interview scale | | Diagnosis | 84 |
| Hinton *et al.* (1993) | Structured clinical interview for DSM-III- R, Anxiety disorder interview schedule revised | | Diagnosis | 3 median (range 0-6) |
| Carlson and Rosser-Hogan (1994) | Hopkins symptom checklist-25, PTSD checklist | | Self-Report | 60 |
| Cheung (1994) | Diagnostic interview scale | | Diagnosis | 62 median (range 3-120) |
| Pernice and Brook (1994) | Hopkins symptom checklist-25 | | Self-Report | *N.K.* |
| Weine *et al.* (1995) | PTSD symptom scale, Symptom checklist-90 | | Self-Report | *N.K.* |
| Malekzai *et al.* (1996) | Clinician administered PTSD scale for DSM-III | | Diagnosis | 60 median (range 0 – 120) |
| D’Avanzo and Barab (1998) | Hopkins symptom checklist-25 | | Self-Report | min 60 |
| Almqvist and Broberg (1999) | Impact of event scale | | Self-Report | 42 |
| Favaro *et al.* (1999) | Structured clinical interview for DSM-IV | | Diagnosis | 42 |
| Mollica *et al.* (1999) | Hopkins symptom checklist-25, Harvard trauma questionnaire | | Self-Report | 36 |
| Sack *et al.* (1999) | Schedule for affective disorders and schizophrenia for school-aged children, Diagnostic interview for children/adolescents | | Diagnosis | 66 |
| Tousignant *et al.* (1999) | Diagnostic interview schedule for children | | Diagnosis | 36 minimal |
| Papageorgiou *et al.* (2000) | Revised children’s manifest anxiety scale, Impact of event scale | | Self-Report | *N.K.* |
| Gernaat *et al.* (2002) | Composite international diagnostic interview | | Diagnosis | 46 |
| Lie (2002) | PTSD for children questionnaire | | Self-Report | 46 |
| Rothe *et al.* (2002) | PTST reactive index | | Self-Report | 12 |
| Slodnjak *et al.* (2002) | Depression self-rating scale for children, Impact of event scale | | Self-Report | *N.K.* |
| Keller *et al.* (2003) | Hopkins symptom checklist-25, Harvard trauma questionnaire | | Self-Report | 7 |
| Turner *et al.* (2003) | Beck’s anxiety and depression inventory | | Self-Report | *N.K.* |
| Fox *et al.* (2004) | Depression self-rating scale for children | | Self-Report | *N.K.* |
| Jaranson *et al.* (2004) | PTSD checklist for DSM civilian version | | Self-Report | 41 |
| Lie (2004) | Hopkins symptom checklist-25, Harvard trauma questionnaire | | Self-Report | *N.K.* |
| Laban *et al.* (2005) | Composite international diagnostic interview | | Diagnosis | 20 |
| Marshall *et al.* (2005) | Composite international diagnostic interview | | Diagnosis | 252 |
| Steel *et al.* (2005) | Composite international diagnostic interview | | Diagnosis | 136 |
| Bhui *et al.* (2006) | Mini International neuropsychiatric interview, Composite international diagnostic interview | | Diagnosis | 33 median (range 0-66) |
| ***Table S1*** *continues on the next page* | |  |  |  |
| ***Table S1*** *continued* |  | |  |  |
| Roth and Ekblad (2006) | Hopkins symptom checklist-25 | | Self-Report | 6 |
| Schweitzer *et al.* (2006) | Hopkins symptom checklist-37, Harvard trauma questionnaire | | Self-Report | 144 median (range 0-288) |
| Ahmad *et al.* (2008) | Hopkins symptom checklist-25, PTSD questionnaire for children | | Self-Report | 99.6 |
| Hodes *et al.* (2008) | Depression self-rating scale for children, Impact of event scale | | Self-Report | 31 |
| Coffey *et al.* (2010) | Hopkins symptom checklist-25, Harvard trauma questionnaire | | Self-Report | 83 |
| Nickerson *et al.* (2010) | Hopkins symptom checklist-25, Harvard trauma questionnaire | | Self-Report | 56 |
| Silove *et al.* (2010) | Structured clinical interview for DSM-IV, CAPS | | Diagnosis | 36 minimal |
| Beiser *et al.* (2011) | PTSD checklist | | Diagnosis | 118 |
| Groark *et al.* (2011) | Spence child anxiety scale, Depression self-rating scale for children, Impact of event scale | | Diagnosis | 9 |
| Muhtz *et al.* (2011) | Structured clinical interview for DSM-IV | | Diagnosis | 720 |
| Blair (2012) | Diagnostic interview scale for children/adolescents | | Diagnosis | 97 |
| Bogic *et al.* (2012) | Mini international neuropsychiatric interview | | Diagnosis | 112 |
| Heeren *et al.* (2012) | Mini international neuropsychiatric interview | | Diagnosis | 3 |
| Heeren *et al.* (2012) | Mini international neuropsychiatric interview | | Diagnosis | 16 |
| Rasmussen *et al.* (2012) | Composite international diagnostic interview | | Diagnosis | 236 |
| Warfa *et al.* (2012) | Mini international neuropsychiatric interview | | Diagnosis | *N.K.* |
| Bronstein *et al.* (2013) | Hopkins symptom checklist-37A | | Self-Report | 19 |
| Cleveland and Rousseau (2013) | Hopkins symptom checklist-25, Harvard trauma questionnaire | | Self-Report | 3 |
| Cleveland and Rousseau (2013) | Hopkins symptom checklist-25, Harvard trauma questionnaire | | Self-Report | 1 detained |
| Hollifield *et al.* (2013) | Hopkins symptom checklist-25, PTSD symptom scale | | Self-Report | *N.K.* |
| Rees *et al.* (2013) | Harvard trauma questionnaire | | Self-Report | 231 |
| Tay *et al.* (2013) | Structured clinical interview for DSM-IV | | Diagnosis | 5 |
| Heeren *et al.* (2014) | Hopkins symptom checklist-25, Harvard trauma questionnaire, Posttraumatic diagnostic scale | | Self-Report | 66 |
| Lamkaddem *et al.* (2014) | Harvard trauma questionnaire | | Self-Report | 84 |
| Mölsä *et al.* (2014) | Beck’s depression inventory-21 | | Self-Report | 114 |
| Slewa-Younan *et al.* (2014) | Harvard trauma questionnaire | | Self-Report | 59 |
| Vervliet *et al.* (2014) | Hopkins symptom checklist-37A, Children’s revised impact of event scale | | Self-Report | 18 |
| Völkl-Kernstock *et al.* (2014) | PTSD reaction index | | Self-Report | *N.K.* |
| ***S1*** *continues on the next page* | | | | |
| ***Table S1*** *continued* |  | |  |  |
| Hocking and Sundram (2015) | Hopkins symptom checklist-25, Harvard trauma questionnaire | | Self-Report | *N.K.* |
| Jensen *et al.* (2015) | Composite international diagnostic interview, Hopkins symptom checklist 25, CPSS | | Self-Report | 6 |
| McGregor *et al.* (2015) | Child PTSD symptom scale | | Self-Report | 78 |
| Vonnahme *et al.* (2015) | Hopkins symptom checklist-25, Harvard trauma questionnaire | | Self-Report | 20 |
| Morina *et al.* (2016) | Hopkins symptom checklist-25, Posttraumatic diagnostic scale | | Self-Report | 136 |
| Park *et al.* (2017) | Children’s depression inventory | | Self-Report | *N.K.* |
| Georgiadou *et al.* (2018) | Patient health questionnaire-9, Essen trauma inventory | | Self-Report | 23 |
| Javanbakht *et al.* (2018a) | PTSD checklist civilian version, Hopkins symptom checklist-25 | | Self-Report | *N.K.* |
| Javanbakht *et al.* (2018b) | PTSD checklist civilian version, Hopkins symptom checklist-25 | | Self-Report | *N.K.* |
| Richter *et al.* (2018) | Mini international neuropsychiatric interview | | Diagnosis | *N.K.* |
| Schweitzer *et al.* (2018) | Hopkins symptom checklist-25, Harvard trauma questionnaire | | Self-Report | 3 |
| Kartal et al. (2019) | Harvard trauma questionnaire, Depression anxiety stress scale, Posttraumatic stress diagnostic scale | | Self-Report | 212 |
| Leiler *et al.* (2019) | Patient health questionnaire-9, Generalized anxiety disorder 7, Primary care PTSD screen | | Self-Report | *N.K.* |
| Poudel-Tandukar *et al.* (2019) | Hopkins symptom checklist-25 | | Self-Report | 48 |

**Methodological quality assessment**

The *quality assessment tool for cross-sectional studies* (United States National Institutes of Health; https://www.nhlbi.nih.gov/health-topics/study-quality-assessment-tools) was used to assess the methodological quality of the included studies. Three items of this tool were not relevant for the papers in the current systematic review and meta analyses, and hence they were excluded (see **Table S2** for the excluded items and the corresponding reasons for exclusion).

**Table S2** Excluded assessment items, with reason. For the full list of items, we refer to the U.S. NIH: https://www.nhlbi.nih.gov/health-topics/study-quality-assessment-tools.

|  |  |
| --- | --- |
| **Item** | **Reason for exclusion** |
| Exposure(s) assessed more than once over time | Exposure is refugee status |
| Outcome assessors blinded to exposure status of participants | Blinding not possible (*i.e.,* self-report, interview) |
| Loss to follow-up after baseline 20% or less | Longitudinal nature was not relevant for inclusion |

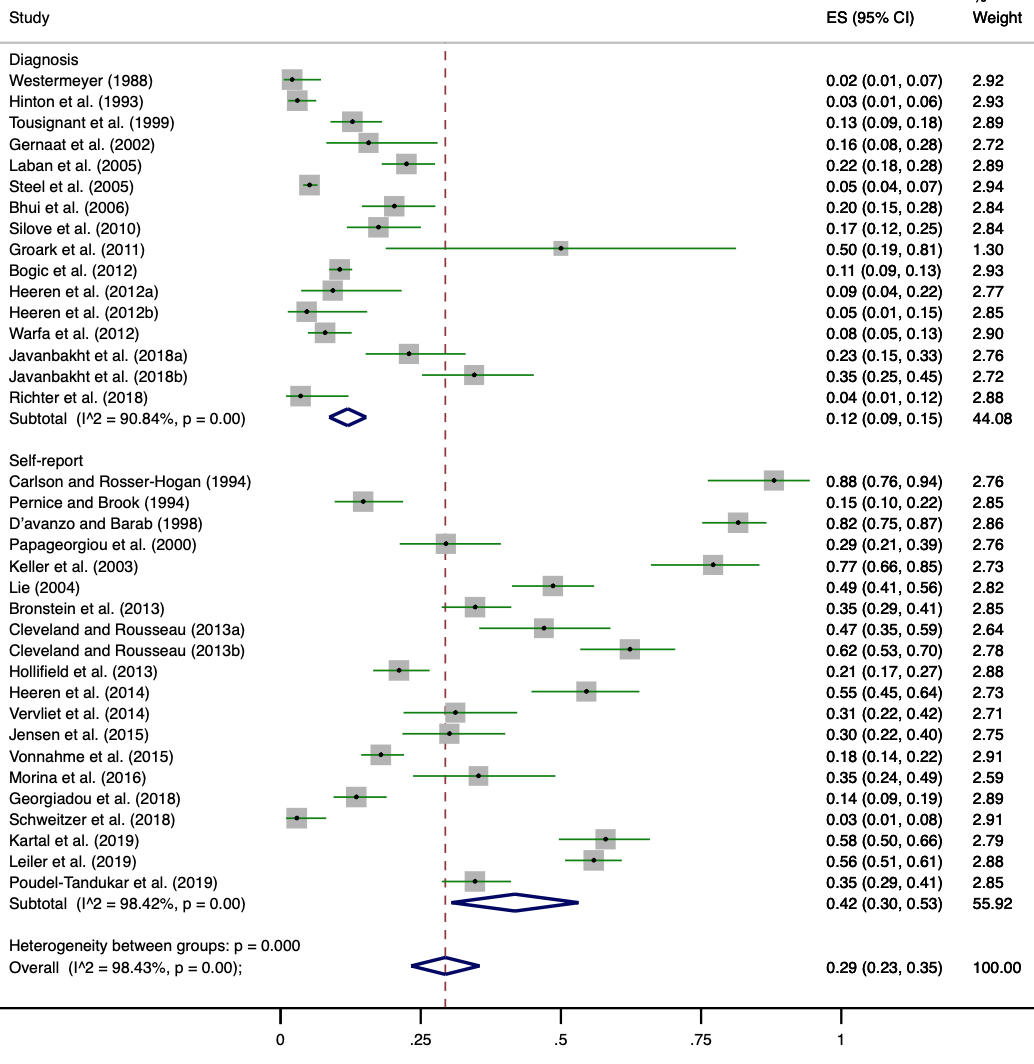
Quality assessments were performed independently by two members of the review team (CD and MM). The overall agreement with regard to quality assessment was high (Kappa [] = 0.79, *SE* = 0.04, *P* <. 001). Average methodological quality score of the included studies was 4.2 (range = -2 to 9). The methodological quality score was related to the main outcome measures of our study in meta-regression analyses and it was not used for decisions about in- or exclusion of a study in our meta-analyses. **Table S3** provides the item and total scores per included study as scored by both reviewers.

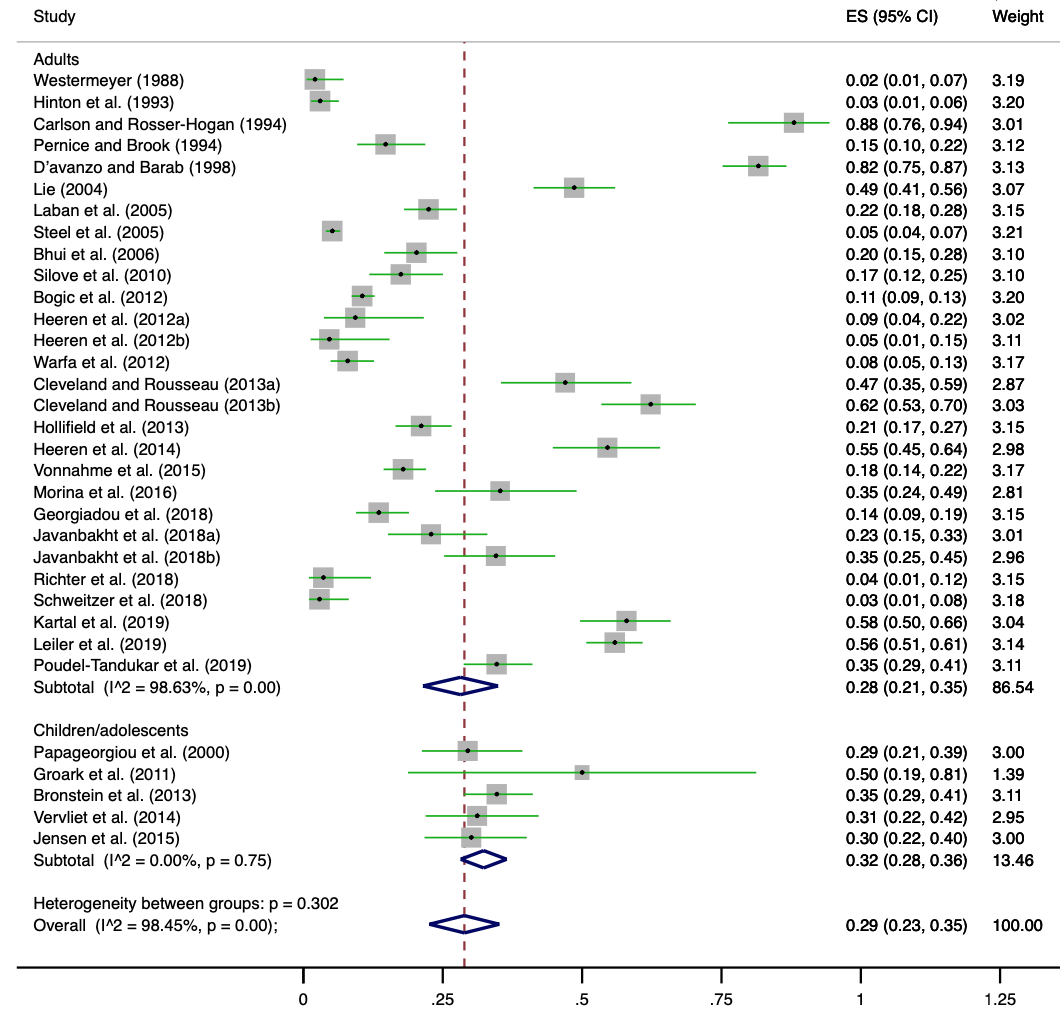
**Table S3** Quality assessment by study and reviewer. Studies are presented chronologically, and alphabetically within year.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Study** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **11A** | **11B** | **12** | **13** | **15** | **Total** |
| Westermeyer (1988) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 6 |
| Westermeyer (1988) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Hinton *et al.* (1993) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 9 |
| Hinton *et al.* (1993) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 9 |
| Carlon & Roser-Hogan (1994) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Carlon & Rossr-Hogan (1994) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Cheung (1994) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 7 |
| Cheung (1994) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 7 |
| Pernice & Brook (1994) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 4 |
| Pernice & Brook (1994) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 2 |
| Weine *et al.* (1995) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Weine *et al.* (1995) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| Malekzai *et al.* (1996) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| Malekzai *et al.* (1996) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 1 |
| D’Avanzo & Barab (1998) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 4 |
| D’Avanzo & Barab (1998) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| Almqvist & Broberg (1999) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 9 |
| Almqvist & Broberg (1999) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 9 |
| Favaro *et al.* (1999) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 4 |
| Favaro *et al.* (1999) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 4 |
| Mollica *et al.* (1999) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 7 |
| Mollica *et al.* (1999) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 7 |
| Sack *et al.* (1999) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 7 |
| Sack *et al.* (1999) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Tousignant *et al.* (1999) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| ***Table S3*** *continues on the next page* | | | | | | | | | | | | | | | |
| ***Table S3*** *continued* | | | | | | | | | | | | | | | |
| Tousignant *et al.* (1999) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| Papageorgiou *et al.* (2000) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 1 |
| Papageorgiou *et al.* (2000) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| Gernaat *et al.* (2002) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 7 |
| Gernaat *et al.* (2002) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 6 |
| Lie (2002) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 9 |
| Lie (2002) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 7 |
| Rothe *et al.* (2002) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Rothe *et al.* (2002) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 4 |
| Slodnjak *et al.* (2002) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | -1 |
| Slodnjak *et al.* (2002) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | -1 |
| Keller *et al.* (2003) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| Keller *et al.* (2003) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| Turner *et al.* (2003) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | -1 |
| Turner *et al.* (2003) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 0 |
| Fox *et al.* (2004) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 2 |
| Fox *et al.* (2004) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 2 |
| Jaranson *et al.* (2004) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| Jaranson *et al.* (2004) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 1 |
| Lie (2004) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 7 |
| Lie (2004) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Laban *et al.* (2005) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 8 |
| Laban *et al.* (2005) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 8 |
| Marshall *et al.* (2005) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 9 |
| Marshall *et al.* (2005) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 8 |
| Steel *et al.* (2005) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Steel *et al.* (2005) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Bhui *et al.* (2006) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Bhui *et al.* (2006) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Roth & Ekblad (2006) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 1 |
| Roth & Ekblad (2006) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 1 |
| Schweitzer *et al.* (2006) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 6 |
| Schweitzer *et al.* (2006) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 6 |
| Ahmad *et al.* (2008) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| ***Table S3*** *continues on the next page* | | | | | | | | | | | | | | | |
| ***Table S3*** *continued* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ahmad *et al.* (2008) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| Hodes *et al.* (2008) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| Hodes *et al.* (2008) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| Coffey *et al.* (2010) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Coffey *et al.* (2010) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Nickerson *et al.* (2010) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Nickerson *et al.* (2010) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 4 |
| Silove *et al.* (2010) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | -1 |
| Silove *et al.* (2010) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 0 |
| Beiser *et al.* (2011) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 7 |
| Beiser *et al.* (2011) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Groark *et al.* (2011) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Muhtz *et al.* (2011) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 6 |
| Muhtz *et al.* (2011) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 6 |
| Blair (2012) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 9 |
| Blair (2012) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 8 |
| Bogic *et al.* (2012) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 7 |
| Bogic *et al.* (2012) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Heeren *et al.* (2012) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 6 |
| Heeren *et al.* (2012) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Rasmussen *et al.* (2012) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Rasmussen *et al.* (2012) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 6 |
| Warfa *et al.* (2012) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 1 |
| Warfa *et al.* (2012) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 1 |
| Bronstein *et al.* (2013) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Bronstein *et al.* (2013) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Cleveland & Rousseau (2013) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| Cleveland & Rousseau (2013) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 4 |
| Hollifield *et al.* (2013) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| Hollifield *et al.* (2013) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| Rees *et al.* (2013) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 1 |
| Rees *et al.* (2013) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 1 |
| Tay *et al.* (2013) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Tay *et al.* (2013) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| ***Table S3*** *continues on the next page* | | | | | | | | | | | | | | | |
| ***Table S3*** *continued* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Heeren *et al.* (2014) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Heeren *et al.* (2014) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Lamkaddem *et al.* (2014) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 7 |
| Lamkaddem *et al.* (2014) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 7 |
| Mölsä *et al.* (2014) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| Mölsä *et al.* (2014) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 2 |
| Slewa-Younan *et al.* (2014) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Slewa-Younan *et al.* (2014) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Vervliet *et al.* (2014) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Vervliet *et al.* (2014) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Völkl-Kernstock *et al.* (2014) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 1 |
| Völkl-Kernstock *et al.* (2014) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 0 |
| Hocking & Sundram (2015) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Hocking & Sundram (2015) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Jensen *et al.* (2015) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 1 |
| Jensen *et al.* (2015) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 1 |
| McGregor *et al.* (2015) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | -2 |
| McGregor *et al.* (2015) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | -1 |
| Vonnahme *et al.* (2015) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Vonnahme *et al.* (2015) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 4 |
| Morina *et al.* (2016) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 4 |
| Morina *et al.* (2016) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 4 |
| Park *et al.* (2017) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 1 |
| Park *et al.* (2017) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 2 |
| Georgiadou *et al.* (2018) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 7 |
| Georgiadou *et al.* (2018) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 6 |
| Javanbakht *et al.* (2018) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Javanbakht *et al.* (2018) `M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 3 |
| Leiler *et al.* (2018) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | -1 |
| Leiler *et al.* (2018) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | -1 |
| Richter *et al.* (2018) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Richter *et al.* (2018) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 4 |
| Schweitzer *et al.* (2018) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| Schweitzer *et al.* (2018) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 5 |
| ***Table S3*** *continues on the next page* | | | | | | | | | | | | | | |  |
| ***Table S3*** *continued* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kartal *et al.* (2019) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 6 |
| Kartal *et al.* (2019) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 6 |
| Poudel-Tandukar *et al.* (2019) C.D. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 7 |
| Poudel-Tandukar *et al.* (2019) M.M. | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | 7 |

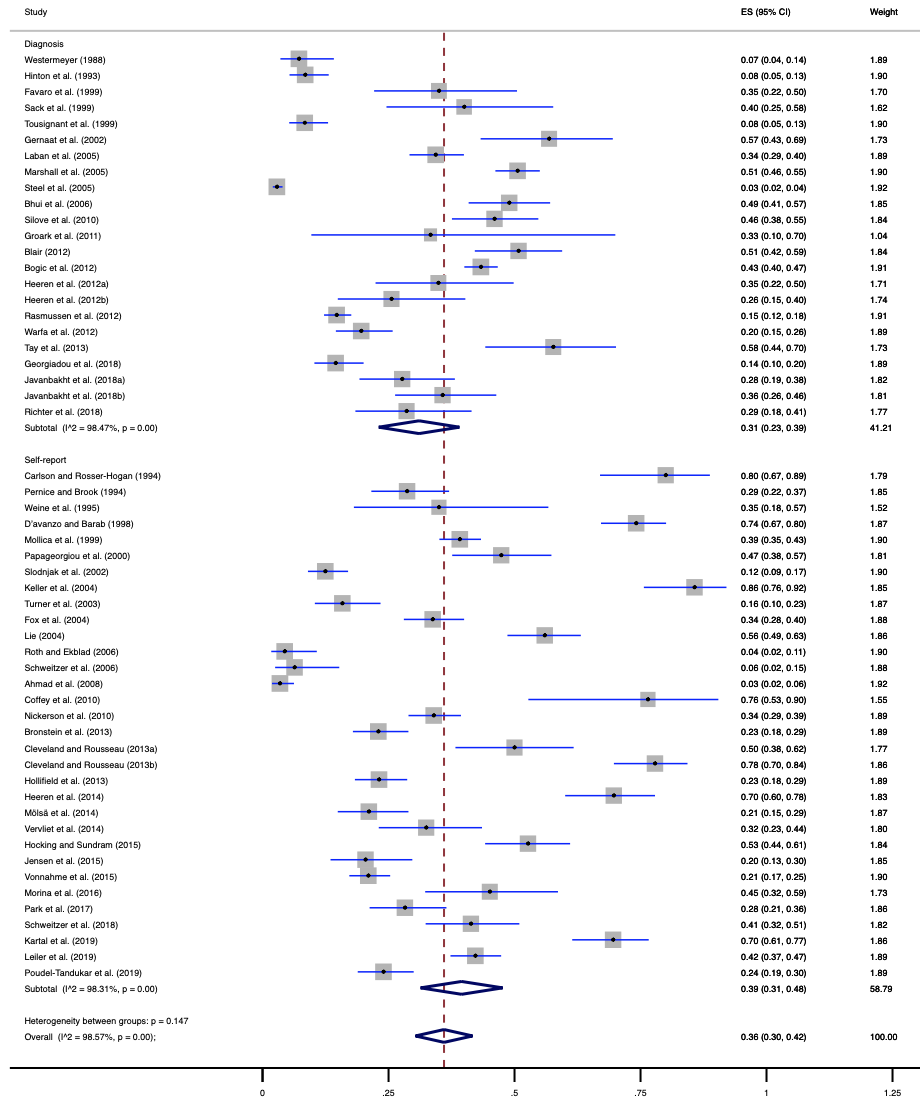
C.D., assessed by Carla Deckers; M.M., assessed by Marc Molendijk

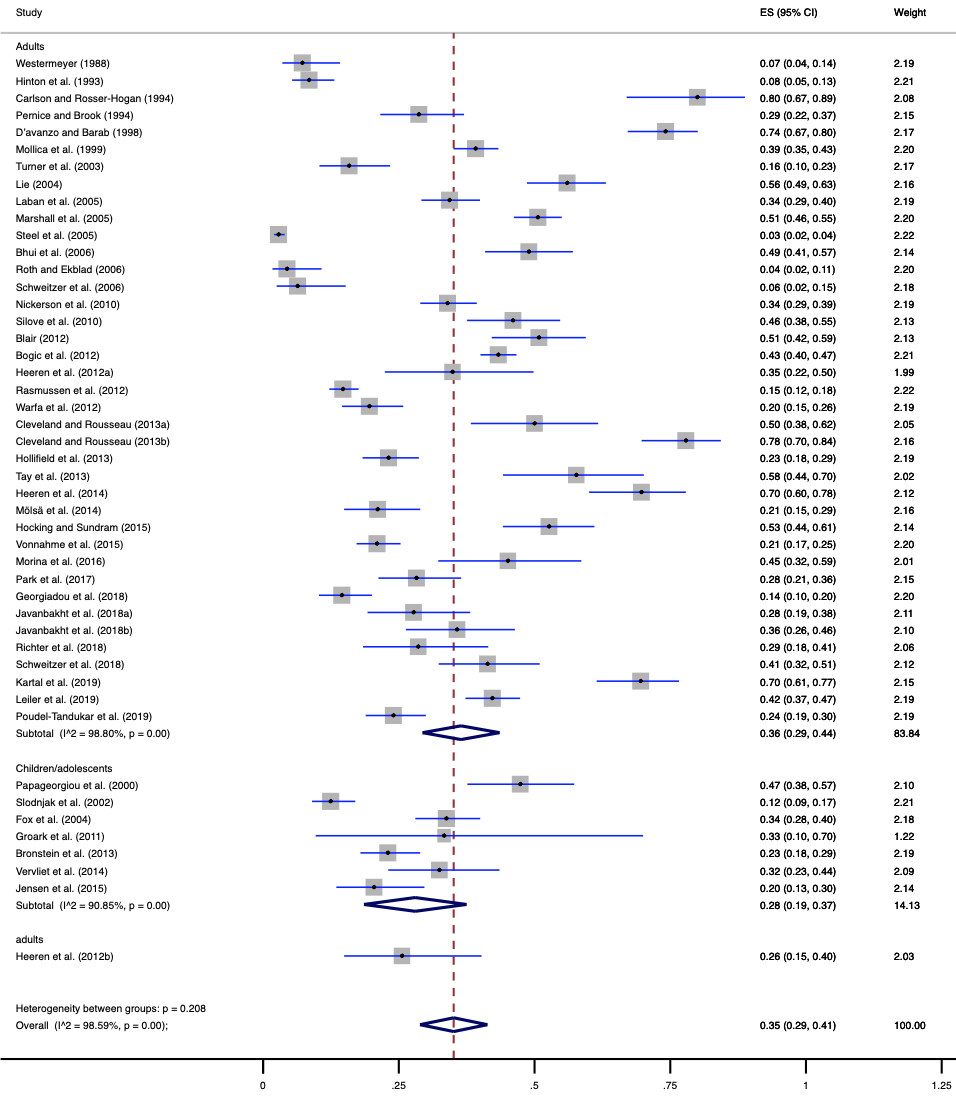
**** = yes; **** = neutral / don’t know; **** = no

**Figure S1.** Forest plot of anxiety prevalence rates among refugees as assessed by diagnosis and self-report

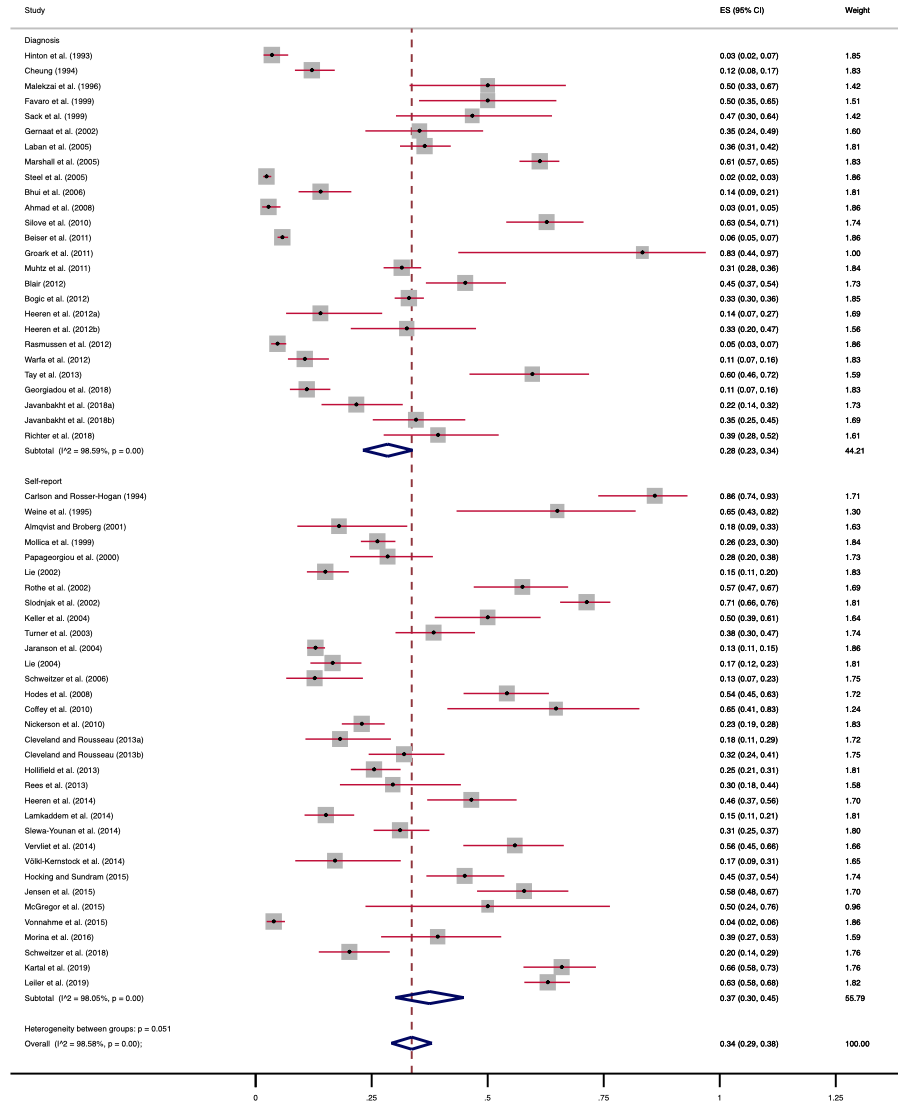
****

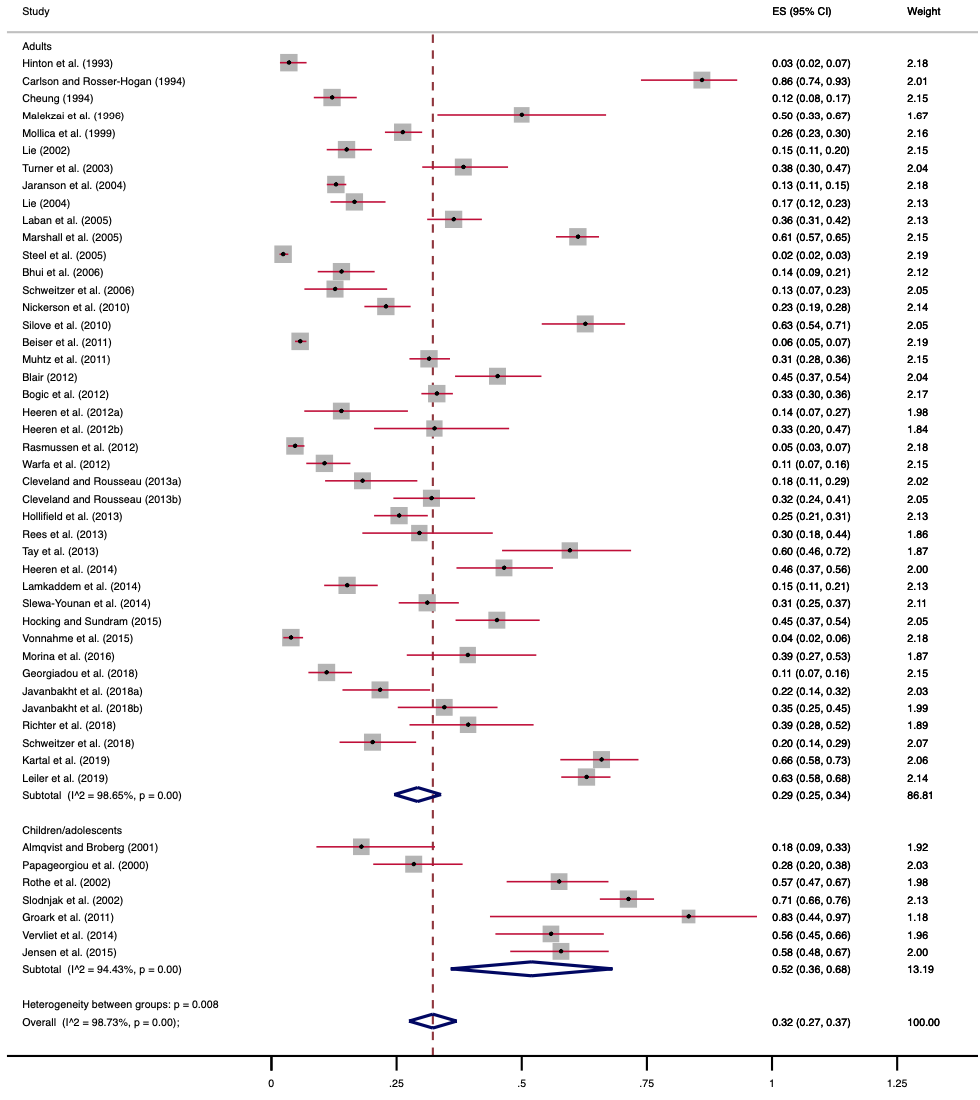
**Figure S2.** Forest plot of anxiety prevalence rates among adult and child/adolescent refugees

**Figure S3.** Forest plot of depression prevalence rates among refugees as assessed by diagnosis and self-report

****

**Figure S4.** Forest plot of depression prevalence rates among adult and child/adolescent refugees

**Figure S5.** Forest plot of PTSD prevalence rates as assessed by diagnosis and self-report



**Figure S6.** Forest plot of PTSD prevalence rates among adult and child/adolescent refugees

**Table S4.** Prevalence rates with 95% CI’s of anxiety, depression and PTSD by assessment method and adult *vs.* child/adolescent sample.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Adult | *k* | *N* | *I2* | Child/adolescent | *k* | *N* | *I2* |
| Anxiety | **028** (019-038) | 28 | 5,911 | 982\*\*\* | **032** (028-037) | 5 | 493 | 986\*\*\* |
| *Diagnosis* | **012** (007-017) a | 13 | 3,634 | 965\*\*\* | **050** | 1 | 6 | *N.A.* |
| *Self-report* | **042** (029-055) a | 15 | 2,277 | 986\*\*\* | **031** (028-036) | 4 | 487 | 00 |
| Depression | **036** (030-043) | 40 | 8,750 | 986\*\*\* | **028** (019-037) | 7 | 995 | 904\*\*\* |
| *Diagnosis* | **030** (022-038) | 18 | 4,900 | 983\*\*\* | **033** | 1 | 6 | *N.A.* |
| *Self-report* | **041** (031-050) | 22 | 3,850 | 983\*\*\* | **027** (018-038) | 6 | 989 | 923\*\*\* |
| PTSD | **029** (023-036) | 42 | 11,948 | 992\*\*\* | **052** (035-068) | 7 | 662 | 945\*\*\* |
| *Diagnosis* | **027** (019-036) | 21 | 7,161 | 994\*\*\* | **080** | 1 | 6 | *N.A.* |
| *Self-report* | **032** (023-040) | 21 | 4,787 | 985\*\*\* | **048** (032-065) | 6 | 656 | 945\*\*\* |

\* *P* < 05, \*\* *P* < 01, \*\*\* *P* < 001

a *Z*-value for difference in proportion = -176, *P* < 05

**Table S5.** Prevalence rates and 95% CI’s of anxiety, depression and PTSD for adult and child/adolescent refugees and (I) people living in conflict or war areas, (II) the general populations of Australia and New-Zealand, Europe and North America.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Refugees | Conflict / war | Australia / N-Z | Europe | North America |
| Adult |  |  |  |  |  |
| Anxiety | **028** (019-038) | Not available | **006** (003-007) | **009** (005-013) | **018** (013-023) |
| Depression | **030** (022-038) | **009** (006-013) | **006** (004-008) | **004** (003-005) | **010** (007-013) |
| PTSD | **027** (019-036) | **011** (006-017) | **001** (001-002) | **001** (001-002) | **004** (002-006) |
| Child/adolescent |  |  |  |  |  |
| Anxiety | **032** (028-037) | **027** (021-033) | **003** (004-009) | **003** (001-005) | **003** (001-006) |
| Depression | **028** (019-037) | **043** (031-055) | **007** (002-004) | **002** (002-004) | **003** (002-006) |
| PTSD | **052** (036-068) | **047** (035-060) | Not available | Not available | **005** (001-010) |

*Note*. Where possible we chose to report 1-year prevalence estimates.

Prevalence estimates on refugees are derived from this study. For the purpose of comparability among samples, we choose estimates derived through a diagnostic interview for adult samples. Due to a lack of sufficient data, we used estimates derived from diagnostic interview, and parent and self-report for child and adolescent estimates. The estimates on prevalence rates in conflict and war settings are derived from Charlson *et al.,* 2019 (adults) and Attanayake *et al.,* 2009 (children and adolescents). Adult prevalence estimates on depression and anxiety for Australia / New-Zealand, Europe, and North America come from Baumeister and Härter, 2007. The estimates on PTSD prevalence in Australia / New-Zealand also come from this source. Adult PTSD prevalence estimates in Europe and North America come from Alonso *et al.,* 2004. The estimates on childhood depression and anxiety prevalence in Australia come from Ciobanu *et al.,* 2018. Childhood depression-, anxiety-, and PTSD prevalence are derived from Merikangas, Nakamura, and Kessler, 2009.

For adults, refugee prevalence estimates differ significantly (*P* < 05) from estimates in all other cells per row. Childhood prevalence estimates differ from those reported in Australia, Europe and North America (*P* < 05), but not from those reported in conflict and war areas.

**Table S6.** Prevalence rates with 95% CI’s of anxiety, depression and PTSD by assessment method and by continent of origin.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Africa [*k*] | Asia [*k*] | Europe [*k*] | Other/mix [*k*] |
| Anxiety | **019** (006-032)[3] | **029** (017-040)[17] | **034** (007-062)[3] | **033** (018-047)[13] |
| *Diagnosis* | --- a | **015** (007-023)[8] | --- a | **008** (003-013)[5] |
| *Self-report* | --- a | **040** (022-058)[9] | --- a | **043** (027-061)[8] |
| Depression | **026** (014-038)[6] | **035** (026-043)[23] | **034** (015-053)[6] | **041** (031-052)[20] |
| *Diagnosis* | --- a | **031** (020-042)[12] | --- a | **029** (017-040)[8] |
| *Self-report* | **022** (008-034)[4] | **039** (026-053)[11] | **032** (010-055)[5] | **049** (035-063)[12] |
| PTSD | **024** (002-046)[4] | **033** (026-042)[24] | **041** (029-054)[5] | **036** (028-043)[26] |
| *Diagnosis* | --- a | **030** (019-041)[14] | --- a | **034** (015-053)[8] |
| *Self-report* | --- a | **037** (020-053)[10] | **048** (030-066)[3] | **036** (028-045)[18] |

\* *P* < .05, \*\* *P* < .01, \*\*\* *P* < .001

a Not enough data (i.e.,  2 effect-sizes) to calculate pooled estimates.

*Note.**Z*-value for differences in proportions = -196, *P* < 05

**Table S7.** Prevalence rates with 95% CI’s of anxiety, depression and PTSD by assessment method and by continent of resettlement.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Australia/NZ [*k*] | Europe [*k*] | U.S.A./Can [*k*] | Other/mix [*k*] |
| Anxiety | **019** (001-039)[5] | **028** (019-036)[16] | **035** (019-051)[12] | **033** (-014-081)[3] |
| *Diagnosis* | --- a | **013** (007-021)[7] | **014** (003-026)[5] | --- a |
| *Self-report* | **025** (-010-058)[3] | **037** (028-046)[9] | **050** (029-070)[7] | --- a |
| Depression | **041** (026-056)[10] | **032** (025-039)[23] | **037** (026-049)[18] | **041** (018-064)[4] |
| *Diagnosis* | **035** (002-068)[3] | **032** (022-041)[10] | **027** (015-039)[9] | --- a |
| *Self-report* | **043** (026-061)[7] | **031** (020-041)[13] | **048** (030-065)[9] | --- a |
| PTSD | **033** (022-044)[14] | **034** (026-042)[24] | **034** (023-045)[18] | **036** (005-068)[3] |
| *Diagnosis* | **034** (003-065)[4] | **029** (018-041)[11] | **030** (015-044)[8] | --- a |
| *Self-report* | **033** (022-043)[10] | **038** (027-049)[13] | **038** (022-054)[10] | --- a |

a Not enough data (*i.e.,*  2 effect-sizes) to calculate pooled estimates.

**Table S8.** Time related trends in prevalence rates of anxiety, depression and PTSD by assessment method.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Year - prevalence | Year – prevalence [diagnosis] | Year – prevalence [self-report] |
| All | *r* = -.01 (*k* = 150) | *r* = .16 (*k* = 65) | *r* = -.16 (*k* = 85) |
| Anxiety | *r* = .03 (*k* = 36) | *r* = .38 (*k* = 16) | *r* = -.34 (*k* = 20) |
| Depression | *r* = .05 (*k* = 55) | *r* = .38 (*k* = 16) | *r* = -.08 (*k* = 32) |
| PTSD | *r* = -.07 (*k* = 59) | *r* = -.01 (*k* = 26) | *r* = -.14 (*k* = 33) |

b *Z*-value for difference in proportion = -196, *P* < 05

**Table S9.** Results of moderation analyses by outcome and assessment method.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Age | % female | Duration of stay | Methodological quality |
| Anxiety | >-00004 < 0 | 00002 | 00005 | -002 |
| *Diagnosis* | 0006 | 0001 | >-00005 < 0 | -0005 |
| *Self-report* | 0004 | <00009 > 0 | 0001 | -001 |
| Depression | 001 | 0001 | >-00001 < 0 | 001 |
| *Diagnosis* | 0006 | 0002 | >-00008 < 0 | 0003 |
| *Self-report* | 0007 | <00001 > 0 | <00005 > 0 | 003 |
| PTSD | <00001 > 0 | >-00001 < 0 | >-00001 and < 0 | -002 |
| *Diagnosis* | <0001 > 0 | 0001 | >-00001 and < 0 | -0004 |
| *Self-report* | -0004 | -0001 | 0003 | -003 |

\* *P* < .05, \*\* *P* < .01, \*\*\* *P* < .001

**Table S10.** Associations among moderator variables.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Age | % female | Dur. stay | Instrument | Met. quality | Origin | Resettlement |
| Age |  | 026\* | 035\*\* | 450 | 021 | 415\* A | 0.08 |
| % female | 026\* |  | 012 | 0.08 | -003 | 011 | 263 |
| Dur. of stay | 035\*\* | 012 |  | 182 | 009 | 463\* B | 004 |
| Instrument | 450 | 0.08 | 182 |  | 312 | 079 | 031 |
| Met. Quality | 021\* | -003 | 009 | 312 |  | 179 | 103 |
| Origin | 415\* A | 011 | 463\* B | 079 | 179 |  | 013 |
| Resettlement | 0.08 | 263 | 004 | 031 | 103 | 013 |  |

\* *P* < .05, \*\* *P* < .01

*Note.* Associations among continuous variables were assessed by means of correlation coefficients. Associations among categorical variables were assessed by means of chi-square tests and Lambda statistics. Associations among categorical- and continuous variables were assessed by means of analyses of variance *F*-tests.

A Refugees from Europe on average were older relative to refugees from other continents

B Refugees from Europe on average were in the country of resettlement for a longer period of time

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