**SUPPLEMENTARY MATERIAL**

**eTable I:** PRISMA statement and checklist……………………………………………………………………………………….................page 2-4

**eTable II:** Moose checklist……………………………………..…………………………………………………………………………….page 5-6

**eTable III:** Reasons for exclusion during full- text screening…..……………………………………………………………………..……..page 7-9

**eTable IV:** Main characteristics of the included studies …………………………………………….…………………….……....………...page 10-21

**eMethods I**: Quality assessment: Modified Newcastle-Ottawa Scale………..………………………………………………………………page 22

**eResults I:** Funnel plots …..…….………...……………………………………………………………………………. …………….….....page 23-25

**References** …..…….………...……………………………………………………………………………. ………………..………….….....page 26-46

**This supplementary material has been provided by the authors to give readers additional information about their work.**

**eTable I: Prisma statement and checklist**

|  |  |  |  |
| --- | --- | --- | --- |
| **Section/Topic** | **Item #** | **Checklist item** | **Page** |
| **TITLE** |
| Title | 1 | Identify the report as a systematic review. | 1 |
| **ABSTRACT** |  |  |  |
| Abstract | 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. | 2 |
| **INTRODUCTION** |
| Rationale | 3 | Describe the rationale for the review in the context of existing knowledge. | 3 |
| Objectives | 4 | Provide an explicit statement of the objective(s) or question(s) the review addresses. | 3 |
| **METHODS** |
| Eligibility criteria | 5 | Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses. | 4-5 |
| Information sources | 6 | Specify all databases, registers, websites, organisations, reference lists and other sources searched or consulted to identify studies. Specify the date when each source was last searched or consulted. | 4 |
| Search strategy | 7 | Present the full search strategies for all databases, registers and websites, including any filters and limits used. | 4 |
| Selection process | 8 | Specify the methods used to decide whether a study met the inclusion criteria of the review, including how many reviewers screened each record and each report retrieved, whether they worked independently, and if applicable, details of automation tools used in the process. | 4-5 |
| Data collection process | 9 | Specify the methods used to collect data from reports, including how many reviewers collected data from each report, whether they worked independently, any processes for obtaining or confirming data from study investigators, and if applicable, details of automation tools used in the process. | 5 |
| Data items | 10 | List and define all outcomes for which data were sought and if any assumptions were made about any missing or unclear information. | 4-5 |
| Study risk of bias assessment | 11 | Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process. | 4-5 |
| Effect measures | 12 | Specify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or presentation of results. | 5 |
| Synthesis methods | 13 | Describe the processes used to decide which studies were eligible for each synthesis. Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions. Describe any methods used to tabulate or visually display results of individual studies and syntheses. Describe any methods used to synthesize results and provide a rationale for the choice(s). Describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used, any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression) and any sensitivity analyses conducted to assess robustness of the synthesized results. | 5 |
| Reporting bias assessment | 14 | Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases). | 5 |
| Certainty assessment | 15 | Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome. | 5 |
| **RESULTS** |
| Study selection | 16 | Describe the results of the search and selection process, from the number of records identified in the search to the number of studies included in the review, ideally using a flow diagram. Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded. | 6 |
| Study characteristics | 17 | Cite each included study and present its characteristics. | eTable IV |
| Risk of bias in studies | 18 | Present assessments of risk of bias for each included study. | eTable IV |
| Results of individual studies | 19 | For all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) an effect estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or plots. | 6-8 |
| Results of syntheses | 20 | For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies. Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and its precision (e.g. confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect. Present results of all investigations of possible causes of heterogeneity among study results and all sensitivity analyses conducted to assess the robustness of the synthesized results. | 6-8 |
| Reporting biases | 21 | Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed. | 6-8 |
| Certainty of evidence | 22 | Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed. | 6-8 |
| **DISCUSSION** |
| Discussion | 23 | Provide a general interpretation of the results in the context of other evidence. Discuss any limitations of the evidence included in the review, any limitations of the review processes used and the implications of the results for practice, policy, and future research. | 8-10 |
| **OTHER INFORMATION** |
| Registration and protocol | 24 | Provide registration information for the review, including register name and registration number, or state that the review was not registered. Indicate where the review protocol can be accessed, or state that a protocol was not prepared. Describe and explain any amendments to information provided at registration or in the protocol. | 3 |
| Support | 25 | Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review. | 11 |
| Competing interests | 26 | Declare any competing interests of review authors. | 11 |
| Availability of data, code and other materials | 27 | Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data used for all analyses; analytic code; any other materials used in the review. | 3,5 |

For more information, visit: <http://www.prisma-statement.org/>

**eTable II: MOOSE Statement - Reporting Checklist for Authors, Editors, and Reviewers of Meta-analyses of Observational Studies**

|  |  |  |
| --- | --- | --- |
| **Reporting Criteria** | **Reported (Yes/No)** | **Reported on Page** |
| **Reporting of Background** |  |  |
|  Problem definition | Yes | 3 |
|  Hypothesis statement | Yes | 3 |
|  Description of Study Outcome(s) | Yes | 4 |
|  Type of exposure or intervention used | Yes | 4 |
|  Type of study design used | Yes | 4 |
|  Study population | Yes | 4 |
| **Reporting of Search Strategy** |  |  |
|  Qualifications of searchers (eg, librarians and investigators) | Yes | 4-5 |
|  Search strategy, including time period included in the synthesis and keywords | Yes | 4 |
|  Effort to include all available studies, including contact with authors | Yes | 4-5 |
|  Databases and registries searched | Yes | 4 |
|  Search software used, name and version, including special features used (eg, explosion) | Yes | 5 |
|  Use of hand searching (eg, reference lists of obtained articles) | Yes | eTable IV |
|  List of citations located and those excluded, including justification | Yes | eTable III |
|  Method for addressing articles published in languages other than English | Yes | 4 |
|  Method of handling abstracts and unpublished studies | Yes | 4-5 |
|  Description of any contact with authors | Yes | 4 |
| **Reporting of Methods** |  |  |
|  Description of relevance or appropriateness of studies assembled for assessing the hypothesis to be tested | Yes | 4-5 |
|  Rationale for the selection and coding of data (eg, sound clinical principles or convenience) | Yes | 4-5 |
|  Documentation of how data were classified and coded (eg, multiple raters, blinding, and interrater reliability) | Yes | 5 |
|  Assessment of confounding (eg, comparability of cases and controls in studies where appropriate | Yes | 5 |
|  Assessment of study quality, including blinding of quality assessors; stratification or regression on possible predictors of study results YES 5 | Yes | 5 |
|  Assessment of heterogeneity | Yes | 5 |
|  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 | Yes | 5 |
|  Provision of appropriate tables and graphics | Yes | 11,12, Supp. |
| **Reporting of Results** |  |  |
|  Table giving descriptive information for each study included | Yes | eTable IV |
|  Results of sensitivity testing (eg, subgroup analysis) | Yes | 6-7 |
|  Indication of statistical uncertainty of findings | Yes | 6-7 |
| **Reporting of Discussion** |  |  |
|  Quantitative assessment of bias (eg, publication bias) | Yes | 10 |
|  Justification for exclusion (eg, exclusion of non–English-language citations) | Yes | 9 |
|  Assessment of quality of included studies | Yes | 5 |
| **Reporting of Conclusions** |  |  |
|  Consideration of alternative explanations for observed results | Yes | 9-10 |
|  Generalization of the conclusions (ie, appropriate for the data presented and within the domain of the literature review) | Yes | 10 |
|  Guidelines for future research | Yes | 10 |
|  Disclosure of funding source | Yes | 11 |

**eTable III: Reasons for exclusion during full- text screening**

|  |  |  |  |
| --- | --- | --- | --- |
| **Study** | **Reason for exclusion** | **Study** | **Reason for exclusion** |
| (Mira, 2020) | No desired design | (Fang, 2021) | No desired design |
| (Siyal, 2020) | No desired design | (Wang, 2020) | No desired design |
| (Cag, 2020) | No desired design | (Zang, 2021) | No desired design |
| (Menon, 2021) | No desired design | (Liu, 2020) | No desired design |
| (Corbett, 2020) | No desired design | (Elhadi, 2021) | No desired design |
| (Hacimusalar, 2020) | No desired design | (Lorente, 2021) | No desired design |
| (Li, 2020) | No desired design | (Zhongxiang, 2020) | No desired design |
| (Mohd Noor, 2021) | No desired design | (Sampaio, 2020) | No desired design |
| (Mo, 2021) | No desired design | (Tokac, 2021) | No desired design |
| (Yañez, 2020) | No desired design | (Zhang, 2021) | No desired design |
| (Reddy, 2020) | No desired design | (Yildirim, 2020) | No desired design |
| (Krasavtseva, 2020) | Language other than English | (Lee, 2020) | No desired design |
| (Cantu, 2020) | No desired design | (Chew, 2020) | No desired design |
| (Chen, 2020) | No desired design | (Vagni, 2020) | No desired population |
| (Khalafallah, 2020) | No desired design | (Asaoka, 2020) | No desired design |
| (Leskovic, 2020) | No desired design | (Karatzias, 2020) | No desired population |
| (Barello, 2020) | No desired design | (Yang, 2020) | No desired population |
| (Hu, 2021) | No desired design | (Zandifar, 2020) | No desired design |
| (Elhadi, 2020) | No desired design | (Ortega-Galán, 2020) | No desired design |
| (Miguel-Puga, 2021) | No desired design | (Trumello, 2020) | No desired design |
| (Odarushenko, 2020) | Language other than English | (Barua, 2020) | No desired design |
| (Luan, 2020) | No desired design | (Sehsah, 2021) | No desired design |
| (Ruiz-Fernández, 2020) | No desired design | (Kafle, 2021) | No desired design |
| (Abdulah, 2020) | No desired design | (Jiang, 2020) | No desired design |
| (Vagni, 2020) | No desired design | (Aksoy, 2020) | No desired design |
| (Sharif, 2020) | No desired design | (Barbore, 2020) | No desired design |
| (Arshad, 2020) | No desired design | (Sun, 2020) | No desired design |
| (Park, 2020) | No desired population | (Fu, 2021) | No desired design |
| (Wang, 2020) | No desired population | (Martínez-López, 2020) | No desired design |
| (Morgul, 2021) | No desired population | (Caillet, 2020) | No desired population |
| (Amin, 2020) | No desired design | (Ffrench-O’Carroll, 2021) | No desired design |
| (Romero, 2020) | No desired design | (Nie, 2020) | No desired design |
| (Sancak, 2020) | No desired design | (Wang, 2021) | No desired design |
| (Prazeres, 2020) | No desired design | (Jo, 2020) | No desired design |
| (Do Duy, 2020) | No desired design | (Liu, 2020) | No desired design |
| (Uvais, 2020) | No desired design | (O’Brien, 2020) | No desired population |
| (Sharma, 2020) | No desired design | (Yao, 2020) | No desired design |
| (Chen, 2020) | No desired design | (Elhadi, 2020) | No desired design |
| (Cai, 2020) | No desired design | (Lu, 2020) | No desired design |
| (Weibelzahl, 2021) | No desired population | (Jian, 2020) | Language other than English |
| (Ng, 2020) | No desired design | (Ma, 2020) | No desired design |
| (Sasaki, 2020) | No desired design | (Badahdah, 2020) | No desired design |
| (Murat, 2021) | No desired design | (Ceri, 2021) | No desired design |
| (Spiller, 2020) | No desired design | (Chang, 2020) | No desired population |
| (Simione, 2020) | No desired population | (Chieffo, 2020) | No desired design |
| (Man, 2020) | No desired design | (Zerbini, 2020) | No desired design |
| (Dincer, 2021) | No desired design | (Bassi, 2021) | No desired design |
| (Karabulut, 2021) | No desired design | (Yörük, 2021) | No desired design |
| (Usul, 2020) | No desired design | (Gázquez-Linares, 2021) | No desired design |
| (Lim, 2020) | No desired design | (Barzilay, 2020) | No desired population |
| (Cai, 2020) | No desired design | (Krok, 2021) | No desired design |
| (Mavroudis, 2021) | No desired design | (Chou, 2020) | No desired design |
| (Vujanovic, 2021) | No desired design | (Orrù, 2021) | No desired design |
| (Pasay-An, 2020) | No desired design | (Erkin, 2021) | No desired design |
| (Dinibutun, 2020) | No desired design | (Arpacioglu, 2020) | No desired population |
| (Ejeh, 2021) | No desired design | (Nowiki, 2020) | No desired design |
| (Tsehay. 2020) | No desired design | (Diomidous, 2020) | No desired design |
| (Huang, 2020) | No desired design | (Dong, 2020) | No desired design |
| (Gemine, 2021) | No desired design | (Teksin, 2020) | No desired population |
| (Vagni, 2020) | No desired design | (Talaee, 2020) | No desired design |
| (Mantri, 2020) | No desired design | (Kar, 2021) | No desired population |
| (Cunill, 2020) | No desired design | (Aljehani, 2020) | No desired design |
| (Sampaio, 2021) | No desired design | (Sorokin, 2020) | No desired population |
| (Wang, 2021) | No desired population | (Hosseinzadeh-Shanjani Z, 2020) | No desired design |
| (MacKenzie, 2021)  | No desired design | (Pandey, 2021) | No desired population |
| (Tengilimoğlu, 2021) | No desired design | (Zhang, 2020) | No desired design |
| (Xie, 2020) | No desired design | (Cao, 2020) | No desired design |
| (Yi, 2021) | No desired design | (Xing, 2020) | No desired design |
| (Osman, 2020) | No desired design | (Burstyn, 2021) | No desired population |
| (Meesala, 2020) | No desired population | (Azoulay, 2020) | No desired design |
| (Secosan, 2020) | No desired design | (García, 2021) | No desired design |
| (Pinho, 2021) | No desired design | (Sunil, 2021) | No desired population |
| (Zhang, 2020) | No desired population | (Gómez-Salgado, 2021) | No desired design |
| (García-Fernández, 2020) | No desired design | (Mo, 2020) | No desired design |
| (Zhang, 2020) | No desired design | (Rodríguez-Rey, 2020) | No desired population |
| (Teng, 2020) | Language other than English | (Teng, 2020) | Language other than English |
| (Nathiya, 2021) | No desired design | (Di Tella, 2020) | No desired design |

**eTable IV: Main characteristics of the included studies**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Study** | **City (Country)** | **HCW involved** | **Sample size** | **Age:****mean** **±SD** | **Sex****(% female)** | **NOS Score** | **Scale (Domain)** |
| Liu et al., 2020 (1) | Multiple (China) | Multi-professional | 371 | N.a. | 97.7 | 6/8 | GAD-7 (Anxiety); PHQ-9 (Depression); ISI (Insomnia) |
| Wang et al., 2020 (2) | Multiple (China) | Multi-professional | 274 | 37 | 77.4 | 6/8 | GAD-7 (Anxiety); PHQ-9 (Depression); PSQI (Insomnia) |
| Santamaria et al., 2020 (3) | Multiple (Spain) | Multi-professional | 421 | N.a. | N.a. | 6/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Stress); AIS (Insomnia) |
| Si et al., 2020 (4) | Multiple (China) | Multi-professional | 863 | N.a. | 70.7 | 5/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Stress) |
| Lasalvia et al., 2020 (5) | Verona (Italy) | Multi-professional | 2076 | N.a. | 78.2 | 6/8 | SAS (Anxiety); IES-R (Postrauma); PHQ-9 (Depression) |
| Imran et al., 2020 (6) | Multiple (Pakistan) | Physicians | 10178 | 31,5±6.9 | 56.7 | 5/8 | GAD-7 (Anxiety); PHQ-9 (Depression); SASRQ (Stress) |
| Rathod et al., 2020 (7) | Multiple (United Kingdom) | Multi-professional | 3933 | N.a. | 87.5 | 6/8 | GAD-7 (Anxiety); PHQ-9 (Depression); IES-R (Postrauma) |
| Yang et al., 2021 (8) | Multiple (South Korea) | Multi-professional | 54 | N.a. | 77.8 | 4/8 | GAD-7 (Anxiety); PHQ-9 (Depression) |
| Xiao et al., 2020 (9) | Multiple (China) | Multi-professional | 958 | N.a. | 67.2 | 6/8 | HADS-D (Depression); HADS-A (Anxiety) |
| Ni et al., 2021 (10) | Wuhan (China) | Multi-professional | 54 | N.a. | 83 | 5/8 | SAS (Anxiety); SDS (Depression) |
| Feingold et al., 2021 (11) | New York City (USA) | Multi-professional | 1082 | N.a. | N.a. | 6/8 | GAD-7 (Anxiety) |
| Surrati et al., 2020 (12) | Almadinah (Saudi Arabia) | Multi-professional | 118 | N.a. | 64.5 | 5/8 | HADS-D (Depression); HADS-A (Anxiety); PSS (Stress) |
| Tan et al., 2020 (13) | Singapore (Singapore) | Multi-professional | 470 | N.a. | 68.3 | 7/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Stress) |
| Ali et al., 2020 (14) | Multiple (South Korea) | Multi-professional | 472 | 40.7 | 69.07 | 5/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Stress); IES-R (Posttrauma) |
| Que et al., 2020 (15) | Multiple (China) | Multi-professional | 913 | 33.69±7.44 | N.a. | 6/8 | GAD-7 (Anxiety); PHQ-9 (Depression); ISI (Insomnia) |
| Flateau et al., 2021 (16) | Paris (France) | Multi-professional | 353 | N.a. | 89 | 6/8 | HADS-D (Depression); HADS-A (Anxiety); IES-R (Postrauma) |
| Li et al., 2020 (17) | Wuhan (China) | Multi-professional | 4369 | N.a. | 100 | 5/8 | HADS-D (Depression); HADS-A (Anxiety); IES-R (Postrauma); GAD-7 (Anxiety); PHQ-9 (Depression) |
| Dong et al., 2021 (18) | Wuhan (China) | Multi-professional | 456 | 37.1±6.4 | N.a. | 4/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Stress) |
| Li et al., 2020-B (19) | Wuhan (China) | Multi-professional | 197 | N.a. | 75.6 | 6/8 | GAD-7 (Anxiety); PHQ-9 (Depression) |
| Ajwa et al., 2020 (20) | Riyadh (Saudi Arabia) | Multi-professional | 150 | N.a. | N.a. | 5/8 | GAD-7 (Anxiety); PHQ-9 (Depression) |
| Yildirim et al., 2020 (21) | Elazığ (Turkey) | Multi-professional | 104 | N.a. | N.a. | 4/8 | BDI (Depression); BAI (Anxiety) |
| Du et al., 2020 (22) | Wuhan (China) | Multi-professional | 134 | 36± 8.05 | 60.5 | 4/8 | PSS (Stress); BAI (Anxiety) |
| Dosil et al., 2020 (23) | Multiple (Spain) | Multi-professional | 973 | N.a. | 82.9 | 6/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Stress) |
| Holton et al., 2020 (24) | Melbourne (Australia) | Multi-professional | 391 | 42.1 ± 12.5 | 92 | 5/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Stress) |
| Monterrosa-Castro et al., 2020 (25) | Cartagena (Colombia) | Physicians | 531 | 33 ± 9.3 | 59.5 | 5/8 | GAD-7 (Anxiety) |
| Kumar et al., 2021 (26) | Karachi (Pakistan) | Multi-professional | 224 | 32 ± 3 | 24.1 | 5/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Stress) |
| Johnson et al., 2020 (27) | Multiple (Norway) | Multi-professional | 1773 | N.a. | 84.7 | 6/8 | GAD-7 (Anxiety); PHQ-9 (Depression) |
| Stojanov et al., 2020 (28) | Multiple (Serbia) | Multi-professional | 118 | 39.1 ± 7.3 | 65.6 | 4/8 | PSQI (Insomnia); SDS (Depression); GAD-7 (Anxiety)  |
| Chow et al., 2021 (29) | Kuala Lumpur (Malaysia) | Multi-professional | 139 | N.a. | 60.5 | 5/8 | HADS-D (Depression); HADS-A (Anxiety) |
| Chen et al., 2021 (30) | Multiple (China) | Multi-professional | 543 | 36.41 ± 8.56 | 68.6 | 6/8 | GAD-7 (Anxiety); PHQ-9 (Depression) |
| Rodriguez-Menendez et al., 2021 (31) | Multiple (Spain) | Multi-professional | 1407 | 44.7 ± 10.9 | 73 | 6/8 | SASRQ (Anxiety) |
| HerreroSanMartin et al., 2020 (32) | Madrid (Spain) | Multi-professional | 100 | 35.3 ± 9.2 | 59 | 5/8 | PSQI (Insomnia); ISI (Insomnia) |
| Wang et al., 2020 (33) | Wuhan (China) | Multi-professional | 2001 | 33 | 64.5 | 5/8 | PSQI (Insomnia); HADS-D (Depression); HADS-A (Anxiety) |
| Wang et al., 2020-B (34) | Wuhan (China) | Multi-professional | 123 | 33.75± 8.41 | 90 | 5/8 | PSQI (Insomnia); SAS (Anxiety); SDS (Depression) |
| Alnofaiey et al., 2020 (35) | Multiple (Saudi Arabia) | Physicians | 470 | N.a. | 50.9 | 5/8 | PSQI (Insomnia) |
| Badahdah et al., 2020 (36) | Muscate (Oman) | Multi-professional | 150 | 37.62± 7.79 | 77.3 | 5/8 | SQS (Insomnia); GAD-7(Depression) |
| Zheng et al., 2020 (37) | Ningbo (China) | Multi-professional | 207 | N.a. | 84.54 | 6/8 | SQS (Insomnia) |
| Tu et al., 2020 (38) | Wuhan (China) | Nurses | 100 | 34.44 ± 5.85 | 100 | 5/8 | PSQI (Insomnia); GAD-7 (Anxiety); PHQ-9 (Depression) |
| Prasad et al., 2020 (39) | Philadelphia (USA) | Multi-Professional | 347 | N.a. | 90.8 | 5/8 | IES-R (Postrauma); GAD-7 (Depression); MINI-Z (Burnout) |
| Hennein et al., 2020 (40) | Connecticut (USA) | Multi-professional | 1092 | 40.4 ± 11.5 | 72 | 5/8 | PC-PTSD (Postrauma); GAD-7 (Anxiety); PHQ-9 (Depression) |
| Alan et al., 2020 (41) | Multiple (Turkey) | Multi-professional  | 416 | 33.6±8.7 | 79.1 | 5/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress) |
| Hennein et ak., 2020 (42) | Multiple (UK) | Multi-professional | 1132 | N.a. | 71.4 | 5/8 | GAD-7 (Anxiety); PHQ-9 (Depression); PC-PTSD (Posttrauma) |
| Chen et al., 2021-B (43) | Taipei (China) | Nurses | 12596 | 33.1 | 95.6 | 4/8 | MBI-EE (Burnout); MBI-RPA (Burnout) |
| Chew et al., 2020 (44) | Multiple (Singapore, India) | Multi-professional | 906 | 29 | 64.3 | 6/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress); IES-R (Posttrauma) |
| Wang et al., 2020-C (45) | Multiple (China) | Multi-professional | 1897 | N.a. | 82.5 | 6/8 | PHQ-9 (Depression); GAD-7 (Anxiety); IES-R (Posttrauma) |
| Wang et al., 2020-D (46) | Wuhan (China) | Multi-professional | 332 | 33.2±8.8 | 78 | 6/8 | SASRQ (Acute stress); GAD-7 (Anxiety); PHQ-9 (Depression) |
| Shahrour et al., 2020 (47) | Multiple (Jordan) | Nurses | 448 | 32±8 | 73 | 3/8 | SASRQ (Acute stress) |
| Fidanci et al., 2020 (48) | Multiple (Turkey) | Multi-professional | 153 | 33.4±5.7 | 67.3 | 5/8 | PSQI (Insomnia) |
| Wu et al., 2020 (49) | Multiple (China) | Physicians | 60 | 33.8±11.9 | 75 | 4/8 | SDS (Depression); SAS (Anxiety); PSQI (Insomnia); PCL-C (Post-trauma) |
| Shen et al., 2020 (50) | Wuhan (China) | Nurses | 643 | 31.8±7.8 | 97.8 | 5/8 | GAD-7 (Anxiety); PSS (Acute Stress); AIS (Insomnia) |
| Hasan et al., 2020 (51) | Karachi (Pakistan) | Physicians | 151 | 29±7.28 | 56.3 | 5/8 | GAD-7 (Anxiety) |
| Li et al., 2020 (52) | Multiple (China) | Physicians | 5331 | N.a. | N.a. | 5/8 | GAD-7 (Anxiety); PHQ-9 (Depression) |
| Pouralizadeh et al., 2020 (53) | Multiple (Iran) | Nurses | 441 | 36.34±8.74 | 95.2 | 6/8 | GAD-7 (Anxiety); PHQ-9 (Depression) |
| Xing et al., 2020 (54) | Jinan (China) | Multi-professional | 309 | 33.3±9.5 | 97.4 | 5/8 | SAS (Anxiety); SDS (Depression) |
| Hassannia et al., 2020 (55) | Multiple (Iran) | Multi-professional | 232 | N.a. | N.a. | 6/8 | HADS-D (Depression); HADS-A (Anxiety) |
| Han et al., 2020 (56) | Multiple (China) | Nurses | 21199 | 31.89±7.084 | 98.6 | 5/8 | SAS (Anxiety); SDS (Depression) |
| Heimerer et al., 2020 (57) | Multiple (Kosovo) | Multi-professional | 592 | 39 (median) | 61.3 | 5/8 | HADS-D (Depression); HADS-A (Anxiety) |
| Setiawati et al., 2021 (58) | Surabaya (Indonesia) | Multi-professional | 227 | 39.67±9.43 | 93.3 | 3/8 | STAI-S (Anxiety) |
| Gupta et al., 2020 (59) | Multiple (India) | Multi-professional | 712 | N.a. | 54.3 | 6/8 | GAD-7 (Anxiety); SQS (Insomnia) |
| Cheng et al., 2020 (60) | Multiple (China) | Multi-professional | 534 | N.a. | 82.4 | 7/8 | SAS (Anxiety); PSQI (Insomnia) |
| Yurtseven et al., 2020 (61) | Adana (Turkey) | Nurses | 270 | 36.83±9.23 | 87.8 | 4/8 | STAI-S (Anxiety) |
| Wang et al., 2021 (62) | Nanjing (China) | Nurses | 586 | 31.07±7.54 | 96.08 | 5/8 | GAD-7 (Anxiety); PHQ-9 (Depression) |
| DiTella et all., 2021 (63) | Multiple (Italy) | Multi-professional | 73 | 44.3±10.6 | N.a. | 4/8 | STAI-S (Anxiety); BDI (Depression) |
| Awano et all., 2020 (64) | Tokyo (Japan) | Multi-professional | 461 | 43 (median) | 80.78 | 6/8 | GAD-7 (Anxiety); CES-D (Depression) |
| Simonetti et al., 2021 (64) | Multiple (Italy) | Nurses | 1005 | 40.2±10.8 | 65.97 | 6/8 | SAS (Anxiety); PSQI (Insomnia) |
| Chew et al., 2020-B (65) | Multiple (Multiple) | Multi-professional | 384 | 27.7±5.7 | 65.4 | 4/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress); IES-R (Post-trauma) |
| Arshad et., 2020 (66) | Multiple (Pakistan) | Multi-professional | 276 |  | 34.1 | 4/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress) |
| Wankowicz et al., 2020 (67) | Multiple (Poland) | Multi-professional | 206 | 40.47±4.93 | 56.31 | 6/8 | PHQ-9 (Depression); ISI (Insomnia); GAD-7 (Anxiety) |
| Lang et al., 2020 (68) | Multiple (China) | Multi-professional | 291 | 33±4 | 81 | 6/8 | GAD-7 (Anxiety); PHQ-9 (Depression) |
| Macía-Rodriguez et al., 2021 (69) | Multiple (Multiple) | Physicians | 1015 | 39.9±11.1 | 62.9 | 5/8 | MBI (Burnout) |
| Kamali et al., 2020 (70) | Shiraz (Iran) | Nurses | 261 | 28.91±6.87 | 67.2 | 5/8 | MBI (Burnout) |
| Treluyer et al., 2021 (71) | Multi (France) | Physicians | 340 | 27 | 83.8 | 5/8 | MBI (Burnout) |
| Duarte et al., 2020 (72) | Multiple (Portugal) | Multi-professional | 2008 | 38±10 | 83.6 | 5/8 | CBI (Burnout); DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress) |
| Chor et al., 2020 (73) | Singapore (Singapore) | Multi-professional | 337 | 21-30 | 67.7 | 4/8 | CBI (Burnout) |
| Tan et al., 2020 (74) | Singapore (Singapore) | Multi-professional | 2335 | 36.84±9.95 | N.a. | 7/8 | HADS-D (Depression); HADS-A; (Anxiety) |
| Dobson et al., 2020 (75) | Melbourne (Australia) | Multi-professional | 128 | N.a. | 78 | 5/8 | GAD-7 (Anxiety); IES-R (Posttrauma); PHQ-9 (Depression) |
| Jose et al., 2020 (76) | Multiple (India) | Nurses | 120 | 29±4.4 | 73.3 | 5/8 | MBI (Burnout) |
| Barello et al., 2020 (77) | Multiple (Italy) | Multi-professional | 376 | 40±11 | 73.7 | 5/8 | MBI (Burnout) |
| Sayilan et al., 2020 (78) | Multiple (Turkey) | Nurses | 267 | 28.03±5.99 | 75.3 | 5/8 | MBI (Burnout); PSQI (Insomnia) |
| Roslan et al., 2021 (79) | Multiple (Malaysia) | Multi-professional | 203 | N.a. | N.a. | 4/8 | CBI (Burnout) |
| Podder et al., 2020 (80) | Multiple (India) | Physicians | 384 | 33.7 ±9.3 | N.a. | 5 /8 | PSS (Acute stress) |
| Milgrom et al., 2020 (81) | Jerusalem (Israel) | Multi-professional | 1570 | N.a. | 71.6 | 5/8 | STAI-S (Anxiety) |
| Ahmed et al., 2021 (82) | Multiple (Egypt) | Multi-professional | 122 | N.a. | 59 | 5/8 | BDI (Depression); BAI (Anxiety) |
| Mora-Magaña et al., 2020 (83) | Multiple (Mexico) | Multi-professional | 231 | 40.35 ±10.81 | 69.3 | 5/8 | PHQ-4 (Depression) |
| Altmayer et al., 2020 (84) | Paris (France) | Multi-professional | 37 | 37 (Median) | 83 | 3/8 | HADS-D (Depression); HADS-A (Anxiety) |
| Arshad et al., 2020 (85) | Multiple (Pakistan) | Physicians | 431 | N.a. | 44.78 | 5/8 | GAD-7 (Anxiety) |
| Labrague et al., 2020 (86) | Multiple (Philipines) | Nurses | 325 | 30.94±6.76 | 74.8 | 5/8 | CAS (Anxiety) |
| Guiroy et al., 2020 (87) | Multiple (Latin America) | Physicians | 204 | 44.7 | 3.4 | 6/8 | PHQ-9 (Depression) |
| Liu et al., 2020 (88) | Multiple (China) | Multi-professional | 880 | N.a. | 68.3 | 5/8 | MBI-D (Burnout) |
| Naldi et al., 2020 (89) | Turin (Italy) | Multi-Professional | 469 | N.a. | 83.8 | 6/8 | IES-R (Posttrauma); MBI-D (Burnout) |
| Jain et al., 2020 (90) | Multiple (India) | Physicians | 512 | N.a. | 44.3 | 5/8 | GAD (Anxiety); ISI (Insomnia) |
| Saricam et al., 2020 (91) | Tekirdag (Turkey) | Nurses | 123 | 30.6±7.2 | 74 | 6/8 | STAI-S (Anxiety) |
| Mattila et al., 2020 (92) | Multiple (Finland) | Multi-Professional | 1995 | N.a. | 87 | 5/8 | GAD-7 (Anxiety) |
| Blekas et al., 2020 (93) | Multiple (Greece) | Multi-Professional | 191 | N.a. | 100 | 5/8 | PHQ-9 (Depression); PC-PTSD (Posttrauma) AIS (Insomnia) |
| Jambunathan et al, 2020 (94) | Multiple(India) | Multi-Professional | 257 | N.a. | 42 | 4/8 | GAD-7 (Anxiety; PHQ-9 (Depression) |
| Laiyou et al., 2021 (95) | Zhejiang(China) | Multi-Professional | 150 | N.a. | 62.7 | 5/8 | HDS (Depression); HAS (Anxiety) |
| Arafa et al., 2021 (96) | Multiple | Multi-Professional | 426 | N.a. | 49.8 | 4/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress) |
| Elbay et al., 2020 (97) | Turkey | Physicians | 442 | 36.05 ±8.69 | 56.8 | 4/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress) |
| Sunjaya et al., 2020 (98) | Multiple Indonesia) | Multi-Professional | 544 | N.a. | 77.2 | 4/8 | CES-D (Depression); SAS (Anxiety) |
| Salopek-Žiha et al., 2020 (99) | Nasice (Croatia) | Nurses | 97 | 37.85 | N.a. | 5/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress) |
| Mohd Fauzi et al., 2020 (100) | Selangor (Malaysia) | Physicians | 1050 | 33.08±6.96 | 71.5 | 4/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress) |
| Demartini et al., 2020 (101) | Lombardy (Italy) | Multi-Professional | 123 | 36±9.2 | 78.86 | 6/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress); IES-R (Posttrauma); PSQI (Insomnia); MBI-D (Burnout) |
| Erinoso et al., 2020 (102) | Lagos State (Nigeria) | Multi-Professional | 105 | 34.5±9.1 | 54.3 | 5/8 | PHQ-9 (Depression); GAD-7 (Anxiety) |
| Wasim et al., 2020 (103) | Lahore (Pakistan) | Multi-Professional | 356 | N.a. | 51.96 | 4/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress); ISI (Insomnia) |
| Marinaci et al., 2020 (104) | Salento (Italy) | Multi-Professional | 103 | 41.8±10.7 | 51.5 | 5/8 | MBI-D (Burnout) |
| Thomaier et al ., 2020 (105) | Minneapolis (USA) | Physicians | 486 | N.a. | 63.2 | 5/8 | PHQ-4 (Depression) |
| Thakre et al., 2020 (106) | India | Nurses | 232 | 38.95±4.5 | 90 | 4/8 | CAS (Anxiety) |
| Uyaroglu et al., 2020 (107) | Ankara (Turkey) | Physicians | 113 | N.a. | 46.9 | 5/8 | GAD-7 (Anxiety); BAI (Anxiety) |
| Zhan et al., 2020 (108) | Wuhan (China) | Nurses | 1794 | N.a. | 97 | 5/8 | AIS (Insomnia) |
| Alshekaili et al., 2020 (109) | Omán | Multi-Professional | 1139 | 36.3±6.5 | 80 | 3/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress) |
| Lai et al., 2020 (110) | Multiple (China) | Multi-Professional | 1257 | N.a. | 76.7 | 6/8 | PHQ-9 (Depression); GAD-7 (Anxiety); ISI (Insomnia); IES-R (Posttrauma) |
| Gu et al., 2020 (111) | Fangcang (China) | Multi-Professional | 522 | N.a. | 77.6 | 6/8 | IES-R (Posttrauma); GAD-7 (Anxiety); PHQ-9 (Depression); ISI (Insomnia); PSS (Acute stress) |
| Khoodoruth et al., 2020 (112) | Multiple (Qatar) | Physicians | 127 | N.a. | 37 | 5/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress) |
| Wang et al., 2020 (113) | Hubei (China) | Nurses | 202 | 32 | 87.6 | 5/8 | PC-PTSD (Posttrauma) |
| Jacob et al., 2020 (114) | Multiple (India) | Multi-Professional | 700 | 30.95±5.8 | 55.3 | 5/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress) |
| Li et al., 2020 (115) | Anhui (China) | Nurses | 356 | 31.3 | 86.2 | 5/8 | PSS (Acute stress); PCL-C (Posttrauma) |
| Conti et al., 2020 (116) | Italy | Multi-Professional | 933 | 41.77±12.8 | 76.5 | 5/8 | PHQ-9 (Depression); GAD-7 (Anxiety); IES-R (Posttrauma) |
| Di Monte et al., 2020 (117) | Italy | Physicians | 102 | 55.13±11.4 | 62.7 | 5/8 | MBI-D (Burnout) |
| Hu et al., 2020 (118) | Wuhan (China) | Nurses | 2014 | 30.99±6.17 | 87.1 | 5/8 | SAS (Anxiety); SDS (Depression) |
| Teshome et al., 2020 (119) | Ethiopia | Multi-Professional | 798 | 29.9±5.69 | 39.6 | 6/8 | GAD-7 (Anxiety) |
| Bahadir-Yilmaz et al., 2020 (120) | Giresun (Turkey) | Nurses | 1457 | N.a | 81 | 5/8 | SAS (Anxiety) |
| Mosolova et al., 2020 (121) | Moscow (Russia) | Multi-professional | 1090 | 35.1 **±** 11.22 | 67.9 | 5/8 | GAD-7 (Anxiety) |
| Mathur et al., 2020 (122) | Jaipur (India) | Multi-professional | 200 | 42.1 **±** 12.2 | 38 | 5/8 | DASS-21-S (Acute stress); DASS-21-D (Depression); DASS-21-A (Anxiety) |
| Xu et al., 2020 (123) | Chongqing (China) | Multi-professional | 11507 | 33.37 ± 8.22 | 78.09 | 5/8 | PHQ-9 (Depression); GAD-7 (Anxiety) |
| Zhang et al., 2020 (124) | Multiple (China) | Multi-professional | 1563 | N.a | 82.72 | 5/8 | ISI (insomnia); PHQ-9 (Depression); GAD-7 (Anxiety) |
| Yaoyao et al., 2020 (125) | Multiple (China) | Multi-professional | 127 | 32 ± n.a | 62.2 | 6/8 | PHQ-9 (Depression); SAS (Anxiety) |
| Gupta et al., 2020 (126) | Bangalore (India) | Multi-professional | 1124 | N.a | 36.1 | 6/8 | HADS-A (Anxiety) |
| Azoulay et al., 2020 (127) | Multiple (France) | Multi-professional | 1058 | 33 | 71 | 6/8 | HADS-A (Anxiety); HADS-D (Depression)  |
| Luceño-Moreno et al., 2020 (128) | Multiple (Spain) | Multi-professional | 1422 | 43.88 ± 10.82 | 86.4 | 6/8 | IES-R (Postrauma); HADS-A (Anxiety); HADS-D (Depression); MBI (Burnout) |
| Young et al., 2020 (129) | Multiple (USA) | Physicians | 1685 | N.a | 76 | 5/8 | GAD-7 (Anxiety); PHQ-9 (Depression); PC-PTSD (Postrauma) |
| Korkmaz et al., 2020 (130) | Multiple (Turkey) | Multi-professional | 140 | N.a  | 44 | 7/8 | BAI (Anxiety) |
| Mosheva et al., 2021 (131) | Multiple (Israel) | Multi-professional | 639 | 43.1 ± 11.3 | 69.3 | 5/8 | PHQ-9 (Depression); PC-PTSD (Postrauma) |
| Rapisarda et al., 2020 (132) | Lombard (Italy) | Multi-professional | 241 | 44.2 ± 12.3 | 76.8 | 5/8 | PHQ-9 (Depression); GAD-7 (Anxiety); MBI (Burnout) |
| Crowe et al., 2020 (133) | Surrey (Canada) | Nurses | 43952 | 37.1 ± 89.9 | N.a | 6/8 | IES-R (Postrauma); DASS-21-D (Depression) |
| Secdegul et al., 2020 (134) | Ankara (Turkey) | Multi-professional | 308 | N.a | N.a | 6/8 | DASS-21-A (Anxiety); DASS-21-D (Depression); DASS-21-S (Acute Stress) |
| Çaliskan et al., 2020 (135) | Samsun (Turkey) | Physicians | 290 | N.a  | N.a  | 5/8 | HADS-A (Anxiety); HADS-D (Depression) |
| Qi et al., 2020 (136) | Hubei (China) | Physicians | 801 | 33.1 ± 8.4 | 79.9  | 3/8 | AIS (Insomnia); PSQI (Insomnia);  |
| Jahrami et al., 2020 (137) | Bahrain (Bahrain) | Multi-professional | 257 | N.a | N.a  | 5/8 | PSS (Acute Stress); PSQI (Insomnia) |
| Karasu et al., 2020 (138) | Multiple (Turkey) | Multi-professional | 710 | 33.9 ± 8.56 | 60.7 | 5/8 | STAI-S (Anxiety) |
| Geng et al., 2021 (139) | Multiple (China) | Multi-professional | 317 | N.a  | 69.7 | 6/8 | PCL-C (Postrauma) |
| Lin et al., 2020 (140) | Hubei (China) | Multi-professional | 885 | N.a | N.a | 4/8 | PHQ-9 (Depression); GAD-7 (Anxiety); ISI (Insomnia) |
| Khamis et al., 2020 (141) | Multiple (Oman) | Multi-professional | 402 | 36.4 ± 6.7 | 100 | 4/8 | PSS (Acute Stress); SQS (Insomnia); GAD-7 (Anxiety) |
| Cai et al., 2020 (142) | Multiple (China) | Multi-professional | 1173 | 30.6 ± 8.8 | 69.8 | 6/8 | PHQ-9 (Depression); BAI (Anxiety); ISI (Insomnia) |
| Badahdah et al., 2020 (143) | Multiple (Oman) | Multi-professional | 509 | 37.67 ± 7.68 | 80.3 | 5/8 | GAD-7 (Anxiety); PSS (Acute Stress) |
| Ning et al., 2020 (144) | Multiple (China) | Multi-professional | 612 | N.a | 72.9 | 4/8 | SAS (Anxiety); SDS (Depression) |
| Ide et al., 2021 (145) | Yokohama (Japan) | Multi-professional | 2697 | N.a | 75 | 6/8 | IES-R (Acute Stress) |
| Li et al., 2020 (146) | Guangdong (China) | Multi-professional | 908 | 33.8 ± 6.93 | 75.55 | 6/8 | SAS (Anxiety); SDS (Depression) |
| Saracoglu et al., 2020 (147) | Multiple (Turkey) | Multi-professional | 208 | 29 ± 7.74 | 27.9 | 5/8 | PSQI (Insomnia); PHQ-9 (Depression) |
| Teo et al., 2021 (148) | Singapur (Singapur) | Multi-professional | 122 | 34 | 73.8 | 6/8 | GAD-7 (Anxiety); SDS (Depression) |
| Castelli et al., 2021 (149) | Piedmont (Italy) | Multi-professional | 246 | 51.1 ± 13.1 | 56 | 5/8 | STAI (Anxiety); BDI (Depression); PCL-C (Postrauma) |
| Chen et al., 2020 (150) | Wuhan (China) | Multi-professional | 422 | N.a | N.a | 6/8 | SDS (Depression); IES-R (Posttrauma); PSS (Acute Stress) |
| Mekonen et al., 2020 (151) | Multiple (Ethiopia) | Nurses | 293 | 29.6 ± 5.1 | 45.4 | 7/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Stress). |
| Wang et al., 2020 (152) | Guangdong (China) | Multi-professional | 1049 | N.a | 85.8 | 5/8 | HADS-A (Anxiety); HADS-D (Depression); ISI (Insomnia) |
| Giusti et al., 2020 (153) | Multiple (Italy) | Multi-professional | 330 | 44.6 ± 13.5 | 62.6 | 7/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute Stress); STAI-S (Anxiety); IES-R (Posttrauma); MBI (Burnout) |
| Al Mahyjari et al., 2020 (154) | Multiple (Oman) | Multi-professional | 91 | N.a | 74.1 | 5/8 | GAD-7 (Anxiety); PSS (Acute Stress) |
| Xiong et al., 2020 (155) | Xiamen (China) | Nurses | 361 | N.a | 97.3 | 6/8 | GAD-7 (Anxiety); PHQ-9 (Depression) |
| Xiaoming et al., 2020 (156) | Chongqing (China) | Multi-professional | 8817 | 33.25±8.26 | 78 | 6/8 | GAD-7 (Anxiety); PHQ-9 (Depression) |
| Li et al., 2020 (157) | Multiple (China) | Multi-professional | 606 | 35.77± 8.13 | 81.2 | 5/8 | GAD-7 (Anxiety); ISI (Insomnia) |
| Xia et al., 2021 (158) | Tangshan (China) | Multi-professional | 126 | 34.98± 8.03 | 69.05 | 5/8 | PHQ-9 (Depression) |
| Teshome et al, 2020 (159) | Multiple (Ethiopia) | Multi-professional  | 798 | 29.29±5.69 | 39.6 | 6/8 | GAD-7 (Anxiety) |
| Young et al, 2020 (160) | Multiple (USA) | Multi-professional  | 1685 | N.a. | 76 | 5/8 | PHQ-9 (Depression); GAD-7 (Anxiety); PC-PTSD (Posttrauma) |
| Amra et al, 2021 (161) | Isfashan (Iran) | Multi-professional | 372 | 345 | 7.1 | 6/8 | PHQ-9 (Depression); GAD-7 (Anxiety); ISI (Insomnia) |
| Halayem et al, 2020 (162) | Multiple (Tunisia) | Physicians | 191 | 33±7.9 | 80.9 | 4/8 | PSS (Acute stress) |
| Hong et al, 2020 (163) | Multiple (China) | Nurses | 4692 | N.a. | 96.9 | 5/8 | PHQ-9 (Depression); GAD-7 (Anxiety) |
| Cui et al, 2021 (164) | Jiangsu (China) | Multi-professional | 453 | 33.15±8.38 | 96.47 | 5/8 | SAS (Anxiety); PSS (Acute stress) |
| Sandesh et al, 2020 (165) | Karachi (Pakistan) | Multi-professional | 204 | N.a. | N.a. | 3/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute Stress) |
| Chatzittofis et al, 2021 (166) | Multiple (Cyprus) | Multi-professional | 424 | 38.78±11.40 | 58.5 | 6/8 | PHQ-9 (Depression); IES-R (Posttrauma); PSS (Acute stress) |
| Kang et al, 2020 (167) | Wuhan (China) | Multi-professional | 944 | N.a. | 85.5 | 5/8 | PHQ-9 (Depression); IES-R (Posttrauma); GAD-7 (Anxiety); ISI (Insomnia) |
| Tran et al, 2020 (168) | Multiple (Vietnam) | Multi-professional | 7124 | 34.4±8.8 | 66.2 | 6/8 | PHQ-9 (Depression); GAD-7 (Anxiety) |
| Zhang et al, 2020 (169) | Wuhan (China) | Multi-professional | 966 | N.a. | 76.4 | 6/8 | PSS (Acute stress); GAD-7 (Anxiety); PHQ-9 (Depression) |
| Sagherian et al, 2020 (170) | Wisconsin (USA) | Multi-professional | 587 | N.a. | 94.06 | 5/8 | ISI (Insomnia); PHQ-9 (Depression) |
| Tselebis et al, 2020 (171) | Athens (Greece) | Nurses | 150 | 42.29±1.73 | 80.01 | 5/8 | AIS (Insomnia); PSS (Acute stress) |
| Shen et al, 2020 (172) | Wuhan (China) | Nurses | 643 | 31.8±7.8 | 97.8 | 4/8 | AIS (Insomnia); PSS (Acute stress); GAD-7 (Anxiety) |
| An et al, 2021 (173) | Diyarbakir (Turkey) | Multi-professional | 198 | N.a. | N.a. | 3/8 | HADS-D (Depression); HADS-A (Anxiety) |
| Zhao et al, 2020 (174) | Multiple (China) | Multi-professional | 215 | N.a. | 76.29 | 6/8 | PSQI (Insomnia) |
| Jindal et al, 2020 (175) | Punjab (India) | Multi-professional | 296 | N.a. | N.a. | 6/8 | GAD-7 (Anxiety) |
| Lasalvia et al, 2021 (176) | Verona (Italia) | Multi-professional | 1961 | N.a. | 74.8 | 5/8 | MBI (Burnout) |
| Roberts et al, 2020 (177) | Multiple (United Kingdom) | Multi-professional | 255 | 45.1±9.77 | 88.6 | 5/8 | GAD-7 (Anxiety); PHQ-9 (Depression) |
| Leng et al, 2020 (178) | Wuhan (China) | Nurses | 90 | N.a. | 72.2 | 4/8 | PCL-C (Posttrauma); PSS (Acute stress) |
| Civantos et al, 2020 (179) | Multiple (Brazil) | Physicians | 163 | N.a. | 25.8 | 5/8 | GAD-7 (Anxiety); IES-R (Posttrauma); Mini-Z (Burnout) |
| AlAteeq et al, 2020 (180) | Multiple (Saudi Arabia) | Multi-professional | 502 | 35±N.a. | 31.9 | 5/8 | PHQ-9 (Depression); GAD-7 (Anxiety) |
| Hummel et al, 2020 (181) | Multiple (Multiple) | Multi-professional | 609 | 41±N.a. | 75.2 | 5/8 | DASS-21-D (Depression) |
| Manh et al, 2020 (182) | Hanoi (Vietnam) | Multi-professional | 173 | 31±N.a. | 68.2 | 5/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute Stress) |
| Suryavansh et al, 2020 (183) | Maharashtra (India) | Multi-professional | 197 | N.a. | 51 | 5/8 | GAD-7 (Anxiety); PHQ-9 (Depression) |
| Gorini et al, 2020 (184) | Lombardy (Italy) | Multi-professional | 650 | 44±N.a. | 71 | 5/8 | IES-R (Posttrauma) |
| Tian et al, 2020 (185) | Beijing (China) | Multi-professional | 845 | 35.5±6.7 | 84.5 | 4/8 | PSS (Acute stress); GAD-7 (Anxiety); PHQ-9 (Depression); ISI (Insomnia) |
| Qian et al, 2019 (186) | Multiple (China) | Multi-professional | 403 | 32±N.a. | 77.4 | 5/8 | PHQ-9 (Depression); GAD-7 (Anxiety); PSQI; (Insomnia) |
| Alonso et al, 2020 (187) | Multiple (Spain) | Multi-professional | 9138 | 39±N.a. | N.a. | 5/8 | PHQ-9 (Depression); GAD-7 (Anxiety) |
| Khanal et al, 2020 (188) | Multiple (Nepal) | Multi-professional | 475 | 28.20±5.8 | 56.2 | 5/8 | ISI (Insomnia) |
| Liang et al, 2020 (189) | Multiple (China) | Multi-professional | 899 | 35.2±N.a. | 18.69 | 4/8 | GAD-7 (Anxiety); PHQ-9 (Depression); ISI (Insomnia) |
| Elkholy et al, 2020 (190) | Multiple (Egypt) | Multi-professional | 502 | N.a. | 50 | 6/8 | PHQ-9 (Depression); GAD-7 (Anxiety); ISI (Insomnia) |
| Yitayih et al, 2020 (191) | Multiple (Ethiopia) | Multi-professional | 249 | 27.4±4.1 | 52.6 | 5/8 | IES-R (Posttrauma); ISI (Insomnia) |
| Antonijevic et al, 2020 (192) | Multiple (Serbia) | Physicians | 1678 | 40.38±10.32 | 78.6 | 5/8 | GAD-7 (Anxiety); BDI (Depression) |
| Blewussi et al, 2020 (193) | Multiple (Togo) | Multi-professional | 62 | 35.5±8.75 | 56.5 | 4/8 | GAD-7 (Anxiety); PHQ-9 (Depression) |
| Bassani et al, 2020 (194) | Paraná (Brazil) | Nurses | 88 | 21±N.a. | 89.8 | 6/8 | HADS-A (Anxiety); HADS-D (Depression) |
| Jokic-Begic et al, 2020 (195) | Zagreb (Croatia) | Multi-professional | 725 | 48.3±11.26 | 71.9 | 4/8 | CAS (Anxiety) |
| Greenberg et al, 2020 (196) | Multiple (United Kingdom) | Multi-professional | 709 | N.a. | N.a. | 5/8 | GAD-7 (Anxiety); PHQ-9 (Depression); PCL-C (Posttrauma) |
| Rossi et al., 2020 (197) | Multiple (Italy) | multi-profesional | 1379 | 39±16 | 77.2 | 6/8 | PSS (Acute stress); GAD-7 (Anxiety); PHQ-9 (Depressión); ISI-7 (Insomnia) |
| Rossi et al., 2020 (198) | Multiple (Italy) | Physicians | 1411 | 40.64±10.28 | 79.73 | 6/8 | PHQ-9 (Depression); GAD-7 (Anxiety); ISI-7 (Insomnia) |
| Al Ammari et al., 2020 (199) | Multiple (Saudi Arabia) | Multi-professional | 722 | 43.2±9.5 | 64.17 | 5/8 | PHQ-9 (Depression); GAD-7 (Anxiety); ISI-7 (Insomnia) |
| Tiete et al., 2020 (200) | Multiple (Belgium) | Multi-professional | 647 | 45.3±15.2 | 78.4 | 6/8 | GAD-7 (Anxiety); ISI-7 (Insomnia); PHQ-9 (Depression); DASS-21-S (Acute stress) |
| Robles et al., 2020 (201) | Multiple (Mexico) | Multi-professional | 5938 | 39.6±11.9 | 74.4 | 4/8 | PHQ-2 (Depression) |
| Szepietowski et al., 2020 (202) | Wrocklaw (Poland) | Multi-professional | 62 | 44.4±11.9 | 78.3 | 4/8 | GAD-7 (Anxiety); PHQ-9 (Depression); HADS-D (Depresson); HADS-A (Anxiety);  |
| Youssef et al., 2020 (203) | Multiple (Egypt) | Multi-professional | 540 | 37.3±9.2 | 45.6 | 6/8 | ISI-7 (Insomnia); DASS-21-S (Acute stress); DASS-21-a (Anxiety); DASS-21-D (Depression) |
| Song et al., 2020 (204) | Multiple (China) | Multi-professional | 14825 | 34±8.2 | 64.3 | 5/8 | CES-D (Depression); PC-PTSD (Post-trauma) |
| Liu et al., 2020 (205) | Multiple (China) | Multi-professional | 1173 | N.a. | 85.52 | 6/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress) |
| Naser et al., 2020 (206) | Multiple (Jordan) | Multi-professional | 1163 | N.a. | 56.1 | 5/8 | PHQ-9 (Depression); GAD-7 (Anxiety) |
| Wanigasooriya et al., 2020 (207) | Multiple (United Kingdom) | Multi-professional | 2638 | 42 | 79.5 | 5/8 | PHQ-4 (Depression); PHQ-4 (Anxiety); IES-R (Post-trauma) |
| Huang et al., 2020 (208) | Wuhan (China) | Nurses | 966 | 31.92±5.89 | 91.3 | 5/8 | PSQI (Insomnia) |
| Havaei et al., 2020 (209) | Multiple (Canada) | Nurses | 3676 | N.a. | N.a. | 5/8 | GAD-7 (Anxiety); PHQ-9 (Depression);  |
| Vafaei et al., 2020 (210) | Multiple (Iran) | Physicians | 194 | N.a. | 32.4 | 5/8 | PHQ-9 (Depression) |
| Zhang et al., 2020 (211) | Wenzhou (China) | Multi-professional | 150 | 33.63±6.72 | 86 | 5/8 | PHQ-9 (Depression); GAD-7 (Anxiety); ISI-7 (Insomnia) |
| Sun et al., 2020 (212) | Multiple (China) | Multi-professional | 536 | 36.2±9.63 | 69 | 5/8 | PHQ-9 (Depression); GAD-7 (Anxiety) |
| Wright et al., 2020 (213) | Multiple (USA) | Multi-professional | 98 | 42.93±11.02 | N.a. | 5/8 | GAD-7 (Anxiety); |
| Lam et al., 2020 (214) | Multiple (China) | Multi-professional | 510 | N.a. | 74.7 | 5/8 | PHQ-9 (Depression) |
| Arnetz et al., 2020 (215) | Michigan (USA) | Nurses | 695 | N.a. | 93.6 | 5/8 | PHQ-9 (Depression); GAD-7 (Anxiety); PC-PTSD (Post-trauma) |
| Haravuori et al., 2020 (216) | Helsinki (Finland) | Multi-professional | 4804 | 44.2±11.4 | 87.5 | 6/8 | ISI (Insomnia); PC-PTSD (Post-trauma); PHQ-2 (Depression) |
| Marco et al., 2020 (217) | Multiple (USA) | Physicians | 1300 | 47.4±0.33 | 23.4 | 4/8 | PC-PTSD (Post-trauma) |
| Zhang et al., 2020 (218) | Wuhan (China) | Multi-professional | 642 | N.a. | 85.05 | 7/8 | PC-PTSD (Post-trauma); HADS-D (Depression); HADS-A (Anxiety); ISI (Insomnia) |
| Yin et al., 2020 (219) | Multiple (China) | Multi-professional | 371 | 35.3±9.48 | 61.5 | 4/8 | PC-PTSD (Post-trauma) |
| Pang et al., 2020 (220) | Multiple (China) | Nurses | 282 | N.a. | 88.6 | 5/8 | GAD-7 (Anxiety); PHQ-9 (Depression) |
| Kim et al., 2020 (221) | Multiple (USA) | Nurses | 320 | 33 | 94.4 | 6/8 | GAD-7 (Anxiety); PSS (Acute stress); PHQ-9 (Depression) |
| Zheng et al., 2021 (222) | Hubei (China) | Nurses | 617 | 40 | 99.5 | 4/8 | DASS-21-d (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress) |
| Zhou et al., 2020 (223) | Multiple (China) | Multi-professional | 1931 | 35.08±8.04 | 83.6 | 5/8 | PSQI (Insomnia);  |
| Zhu et al., 2020 (224) | Gansu province (China) | Multi-professional | 165 | 34.16±8.06 | 83 | 5/8 | SAS (Anxiety); SDS (Depression) |
| Zhan et al., 2020 (225) | Wuhan (China) | Nurses | 2667 | 30 | 96.96 | 6/8 | GAD-7 (Anxiety); PHQ-9 (Depression) |
| Labrague et al., 2020 (226) | Multiple (Philippines) | Nurses | 736 | 30.9±6.77 | 71.3 | 4/8 | CAS (Anxiety) |
| Vallee et al., 2020 (227) | Multiple (France) | Physicians | 1001 | N.a. | 51.6 | 6/8 | GAD-7 (Anxiety); PHQ-9 (Depression); ISI (Insomnia) |
| Yu et al., 2020 (228) | Multiple (China) | Multi-professional | 290 | 31 | 64.1 | 5/8 | GAD-7 (Anxiety) |
| Skoda et al., 2020 (229) | Multiple (Germany) | Multi-professional | 2009 | N.a. | 75.48 | 5/8 | GAD-7 (Anxiety) |
| Keubo et al., 2021 (230) | Multiple (Cameroon) | Multi-professional | 292 | N.a. | 54.5 | 5/8 | HADS-D (Depression); HADS-A (Anxiety) |
| Park et al., 2020 (231) | Multiple (South Korea) | Physicians | 151 | 41 | 58.3 | 4/8 | DASS-21-D (Depression); DASS-21-A (Anxiety); DASS-21-S (Acute stress) |
| Lee et al., 2020 (232) | Multiple (Singapore) | Multi-professional | 270 | 30 | 70.7 | 5/8 | HADS-D (Depression); HADS-A (Anxiety) |
| Bizri et al., 2021 (233) | Beirut (Lebanon) | Multi-professional | 150 | N.a. | 56 | 5/8 | PSS (Acute stress); IES-R (Post-trauma) |
| Juan et al., 2020 (234) | Chongqing (China) | Multi-professional | 456 | 30.67±7.48 | 70.6 | 6/8 | IES-R (Post-trauma); GAD-7 (Anxiety); PHQ-9 (Depression) |
| Gupta et al., 2020 (235) | Multiple (India) | Physicians | 749 | N.a. | 25.8 | 5/8 | HADS-A (Anxiety); HADS-D (Depression) |
| Tan et al., 2021 (236) | Multiple (Multiple) | Multi-professional | 3391 | N.a. | 30 | 5/8 | DASS-21-A (Anxiety); DASS-21-D (Depression); DASS-21-S (Acute stress); IES-R (Post-trauma) |

**eMethods I: Quality assessment: Modified Newcastle-Ottawa Scale (NOS).**

Quality of the included studies was assessed using a modified version of the Newcastle-Ottawa Scale (NOS) due to the heterogeneity expected in the included studies. The following assessment scores were used:

|  |  |
| --- | --- |
| **Criteria** | **Maximum Score** |
| Representativeness of exposed cohort | ★ |
| Method used to ascertain exposure is robust? | ★ |
| Is there an adjustment for confounding factors? | ★ ★ |
| Assessment of outcome was blind to exposure status or used record linkage, were robust tools used? | ★ ★ |
| Exposure period was sufficiently long for outcomes to occur? | ★ |
| Loss to follow-up rate is reported a low (<30%)? | ★ |

**eResults I: Funnel plots.**



eResults I-B: Depression Funnel Plot



eResults I-A: Burnout Funnel Plot



eResults I-D: Posttrauma Funnel Plot



eResults I-C: Acute Stress Funnel Plot



eResults I-F: Anxiety Funnel Plot



eResults I-E: Insomnia Funnel Plot

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