

The review team worked with a social sciences librarian (VAR) to create detailed search strings for this systematic review. The librarian constructed and ran the searches, beginning with a preliminary search in PubMed (NLM). The preliminary search strategy was further refined through discussion with two informationists at the University of Michigan Taubman Health Sciences Library, Whitney A. Townsend, MLIS, and Jenna Lepczyk, MLIS. Both colleagues reviewed the search strategies and recommended changes adopted by VAR. The revised search for PubMed (NLM) was accepted by the PI (AAM) on 2025-04-03 and VAR translated the search strategy for the rest of the databases: Embase (Elsevier), APA PsycINFO (EBSCO), Web of Science Core Collection Social Sciences Citation Index (Clarivate), and Scopus (Elsevier). Database search strings were constructed using controlled vocabularies available for specific databases as well as keyword, title, and abstract searching. No publication type or language restrictions were applied and all databases were searched from their inception. Grey literature searches were conducted in Cochrane Central Register of Controlled Trials (Wiley), OAlster (OCLC), and ProQuest Dissertations & Theses Global (ProQuest). The full search strategies are included in Appendix X and deposited in the University of Michigan Deep Blue Documents repository (<https://dx.doi.org/10.7302/25431>). A final search of databases and grey literature was conducted on 2025-04-25 and found 3,462 results. The librarian exported all results into EndNote X.21, which found 2 retractions and 742 duplicates within the results, leaving 2,720 records for the team to screen in Covidence.

Appendix X - Search strategies

PubMed (NLM) Database, last searched 2025-04-25, no limits, 931 results (includes 2 retractions found and removed in EndNote)

| Search number | Search strategy | Results |
|---------------|---|-----------|
| #1 | "acute stress*" [tiab] OR "acute stress induced" [tiab:~0] OR "stress* induc*" [tiab] OR "acute stress induction" [tiab:~0] OR "acute stress response" [tiab:~0] OR "elicit acute stress" [tiab:~0] OR "acute stressor response" [tiab:~0] OR "acute mental stress" [tiab:~0] OR "acute psychological stress" [tiab] OR "acute stress conditions" [tiab:~0] OR "Trier Social Stress Test" [tiab] OR "Maastricht Acute Stress Test" [tiab] OR "speech stressor*" [tiab] OR "arithmetic stressor*" [tiab] OR ("acute" [tiab] AND ("stress test*" [tiab] OR "laboratory task*" [tiab] OR "anger recall" [tiab] OR "Mental arithmetic" [tiab] OR "learning task*" [tiab] OR "recall task*" [tiab] OR "mirror trac*" [tiab] OR "Cyberball" [tiab] OR "ball toss*" [tiab])) | 81,428 |
| #2 | "anxiety" [mesh] OR "Trauma and Stressor Related Disorders" [mesh] OR "stress disorders, traumatic" [mesh] OR "Anxiety Disorders" [mesh] OR "Psychological Distress" [mesh] OR "Psychological trauma" [mesh] OR "Generalized Anxiety | 1,128,921 |

Disorder"[mesh] OR "Depression"[mesh] OR "Depressive Disorder"[mesh] OR "depressive disorder, major"[mesh] OR "stress, psychological"[mesh] OR "distress"[tiab] OR "anxiety"[tiab] OR "trauma* disorder"[tiab] OR "stress* disorder"[tiab] OR "Trauma and Stressor Related Disorders"[tiab] OR "Anxiety Disorders"[tiab] OR "Psychological Distress"[tiab] OR "Psychological trauma"[tiab] OR "Generalized Anxiety Disorder"[tiab] OR "Depression"[tiab] OR "Depressive Disorder"[tiab] OR "major depression"[tiab] OR "traumatic stress"[tiab] OR "post traumatic stress disorder"[tiab] OR "PTSD"[tiab] OR "unspecified anxiety disorder"[tiab] OR "other specified anxiety disorder"[tiab] OR "dysthymic disorder"[mesh] OR "dysthymia"[tiab] OR "persistent depressive disorder"[tiab] OR "Kessler Psychological Distress Scale"[tiab] OR "K10"[tiab] OR "General Health Questionnaire 12"[tiab] OR "Distress thermometer"[tiab] OR "Brief Symptom Inventory"[tiab] OR "PTSD Checklist for DSM-5"[tiab] OR "PCL-5"[tiab] OR "Clinician-Administered PTSD Scale for DSM-5"[tiab] OR "CAPS-5"[tiab] OR "Impact of Event Scale"[tiab] OR "IES"[tiab] OR "Impact of Event Scale – Revised"[tiab] OR "IES-R"[tiab] OR "Davidson Trauma Scale"[tiab] OR "DTS"[tiab] OR "Trauma Screening Questionnaire"[tiab] OR "TSQ"[tiab] OR "Posttraumatic Diagnostic Scale"[tiab] OR "PDS-5"[tiab] OR "PTSD Symptom Scale Interview"[tiab] OR "PSS-I"[tiab] OR "PSS-I-5"[tiab] OR "Mississippi Scale for Combat related PTSD"[tiab:~0] OR "MISS"[tiab] OR "M-PTSD"[tiab] OR "Revised Civilian Mississippi Scale"[tiab] OR "Structured Interview for PTSD"[tiab:~0] OR "SIP"[tiab] OR "SI-PTSD"[tiab] OR "Modified PTSD Symptom Scale"[tiab] OR "MPSS-SR"[tiab] OR "Short PTSD Rating Interview"[tiab] OR "SPRINT"[tiab] OR "Post Traumatic Symptom Scale"[tiab] OR "PTSS"[tiab] OR "Post-Traumatic Stress Disorder Symptoms Questionnaire"[tiab:~0] OR "Severity of Symptoms of PTSD Scale"[tiab:~0] OR "Penn Inventory for Posttraumatic Stress Disorder"[tiab:~0] OR "Harvard Trauma Questionnaire--Modified Version"[tiab:~0] OR "Harvard Trauma Questionnaire"[tiab] OR "HTQ"[tiab] OR "Distressing Event Questionnaire"[tiab] OR "DEQ"[tiab] OR "Rumination and Thought Suppression Measure"[tiab:~0] OR "Battered Woman Syndrome Questionnaire-Posttraumatic Stress Checklist"[tiab:~0] OR "BWSQ-PTSC"[tiab:~0] OR "Beck Depression Inventory"[tiab] OR "BDI"[tiab] OR "Depression Anxiety Stress Scale-21"[tiab] OR "DASS-21"[tiab] OR "DASS-42"[tiab] OR "Depression Adjective Check List"[tiab] OR "DACL"[tiab] OR "Hopelessness Depression Symptom Questionnaire"[tiab:~0] OR "HDSQ"[tiab] OR "Hamilton Rating Scale for Depression"[tiab] OR "HSRD"[tiab] OR "MHRSD"[tiab] OR "SIGH-D"[tiab] OR "HAM-D"[tiab] OR "Center for Epidemiological Studies Depression Scale"[tiab] OR "CES-D"[tiab] OR "Hospital Anxiety and Depression Scale"[tiab] OR "HADS"[tiab] OR "Structured Clinical Interview for DSM-5"[tiab] OR "SCID-5"[tiab] OR "Patient Health Questionnaire"[Mesh] OR "Patient Health Questionnaire"[tiab] OR "PHQ-9"[tiab] OR "Montgomery-Asberg Depression Rating Scale"[tiab] OR "MADRS"[tiab] OR "Beck Anxiety Inventory"[tiab] OR "BAI"[tiab] OR "Hamilton Anxiety Rating Scale"[tiab] OR "HAM-A"[tiab] OR "HAS"[tiab] OR "Perceived Stress Scale"[tiab] OR "PSS"[tiab] OR "Generalized Anxiety Disorder 7"[tiab] OR "GAD-7"[tiab] OR "State Trait Anxiety Inventory"[tiab] OR "STAI"[tiab] OR "Beck

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| | Hopelessness Scale"[tiab] OR "BHS"[tiab] OR "Major Depression Inventory"[tiab] OR "MDI"[tiab] OR "mMDI"[tiab] | |
| #3 | ("C-reactive protein"[mesh] OR "cytokines"[mesh] OR "inflammation"[mesh] OR "interleukin-6"[mesh] OR "tumor necrosis factor alpha"[mesh] OR "Fibrinogen"[mesh] OR "interleukin-1"[mesh] OR "C-reactive protein"[tiab] OR "CRP"[tiab] OR "cytokines"[tiab] OR "inflammation"[tiab] OR "inflammatory"[tiab] OR "interleukin-6"[tiab] OR "IL-6"[tiab] OR "tumor necrosis factor alpha"[tiab] OR "TNF- α "[tiab] OR "TNF-alpha"[tiab] OR "Fibrinogen"[tiab] OR "Coagulation Factor I"[tiab] OR "interleukin-1"[tiab] OR "il-1"[tiab]) AND ("reactivity"[tiab] OR "reacti*"[tiab] OR "cascade*"[tiab] OR "response*"[tiab] OR "serum"[tiab] OR "blood"[tiab]) | 1,179,786 |
| #4 | #1 AND #2 AND #3 | 1,749 |
| #5 | #4 NOT ("Animals"[mesh] NOT "Humans"[mesh]) | 931 |

Embase (Elsevier), Database, last searched 2025-04-25, no limits, 1,723 results

| Search number | Search strategy | Results |
|---------------|--|-----------|
| #1 | 'mental stress'/de OR 'acute stress*':ti,ab,kw OR 'stress*-induc*':ti,ab,kw OR 'acute stress* response':ti,ab,kw OR 'elicit acute stress':ti,ab,kw OR 'acute mental stress':ti,ab,kw OR 'acute psychological stress':ti,ab,kw OR 'acute stress conditions':ti,ab,kw OR 'trier social stress test':ti,ab,kw OR 'maastricht acute stress test':ti,ab,kw OR 'speech stressor*':ti,ab,kw OR 'arithmetic stressor*':ti,ab,kw OR ('acute':ti,ab,kw AND ('stress test*':ti,ab,kw OR 'laboratory task*':ti,ab,kw OR 'anger recall':ti,ab,kw OR 'mental arithmetic':ti,ab,kw OR 'learning task*':ti,ab,kw OR 'recall task*':ti,ab,kw OR 'mirror trac*':ti,ab,kw OR 'cyberball':ti,ab,kw OR 'ball toss*':ti,ab,kw)) | 206,040 |
| #2 | 'anxiety'/exp OR 'posttraumatic stress disorder'/exp OR 'anxiety disorder'/de OR 'distress syndrome'/de OR 'psychotrauma'/exp OR 'generalized anxiety disorder'/exp OR 'depression'/de OR 'major depression'/de OR 'dysthymia'/de OR 'distress':ti,ab,kw OR 'anxiety':ti,ab,kw OR 'trauma* disorder':ti,ab,kw OR 'stress* disorder':ti,ab,kw OR 'anxiety disorders':ti,ab,kw OR 'psychological distress':ti,ab,kw OR 'psychological trauma':ti,ab,kw OR 'generalized anxiety disorder':ti,ab,kw OR 'depression':ti,ab,kw OR 'depressive disorder':ti,ab,kw OR 'mental depression':ti,ab,kw OR 'depressive state':ti,ab,kw OR 'depressivity':ti,ab,kw OR 'major depression':ti,ab,kw OR 'traumatic stress':ti,ab,kw OR 'post traumatic stress disorder':ti,ab,kw OR 'ptsd':ti,ab,kw OR 'unspecified | 1,464,079 |

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|----|---|-----------|
| | <p>anxiety disorder':ti,ab,kw OR 'other specified anxiety disorder':ti,ab,kw OR 'dysthymia':ti,ab,kw OR 'persistent depressive disorder':ti,ab,kw OR 'kessler psychological distress scale':ti,ab,kw OR 'k10':ti,ab,kw OR 'general health questionnaire 12':ti,ab,kw OR 'distress thermometer':ti,ab,kw OR 'brief symptom inventory':ti,ab,kw OR 'ptsd checklist for dsm-5':ti,ab,kw OR 'pcl-5':ti,ab,kw OR 'clinician-administered ptsd scale for dsm-5':ti,ab,kw OR 'caps-5':ti,ab,kw OR 'impact of event scale':ti,ab,kw OR 'impact of event scale – revised':ti,ab,kw OR 'ies-r':ti,ab,kw OR 'davidson trauma scale':ti,ab,kw OR 'trauma screening questionnaire':ti,ab,kw OR 'posttraumatic diagnostic scale':ti,ab,kw OR 'pds-5':ti,ab,kw OR 'ptsd symptom scale interview':ti,ab,kw OR 'pss-i':ti,ab,kw OR 'pss-i-5':ti,ab,kw OR 'mississippi scale for combat related ptsd':ti,ab,kw OR 'm-ptsd':ti,ab,kw OR 'revised civilian mississippi scale':ti,ab,kw OR 'structured interview for ptsd':ti,ab,kw OR 'si-ptsd':ti,ab,kw OR 'modified ptsd symptom scale':ti,ab,kw OR 'mpss-sr':ti,ab,kw OR 'short ptsd rating interview':ti,ab,kw OR 'post traumatic symptom scale':ti,ab,kw OR 'post-traumatic stress disorder symptoms questionnaire':ti,ab,kw OR 'severity of symptoms of ptsd scale':ti,ab,kw OR 'penn inventory for posttraumatic stress disorder':ti,ab,kw OR 'harvard trauma questionnaire--modified version':ti,ab,kw OR 'harvard trauma questionnaire':ti,ab,kw OR 'distressing event questionnaire':ti,ab,kw OR 'rumination and thought suppression measure':ti,ab,kw OR 'battered woman syndrome questionnaire-posttraumatic stress checklist':ti,ab,kw OR 'bwsq-ptsc':ti,ab,kw OR 'beck depression inventory':ti,ab,kw OR 'depression anxiety stress scale-21':ti,ab,kw OR 'dass-21':ti,ab,kw OR 'dass-42':ti,ab,kw OR 'depression adjective check list':ti,ab,kw OR 'hopelessness depression symptom questionnaire':ti,ab,kw OR 'hamilton rating scale for depression':ti,ab,kw OR 'sigh-d':ti,ab,kw OR 'ham-d':ti,ab,kw OR 'center for epidemiological studies depression scale':ti,ab,kw OR 'ces-d':ti,ab,kw OR 'hospital anxiety and depression scale':ti,ab,kw OR 'structured clinical interview for dsm-5':ti,ab,kw OR 'scid-5':ti,ab,kw OR 'patient health questionnaire/exp OR 'patient health questionnaire':ti,ab,kw OR 'phq-9':ti,ab,kw OR 'montgomery-asberg depression rating scale':ti,ab,kw OR 'beck anxiety inventory':ti,ab,kw OR 'hamilton anxiety rating scale':ti,ab,kw OR 'ham-a':ti,ab,kw OR 'perceived stress scale':ti,ab,kw OR 'generalized anxiety disorder 7':ti,ab,kw OR 'gad-7':ti,ab,kw OR 'state trait anxiety inventory':ti,ab,kw OR 'beck hopelessness scale':ti,ab,kw OR 'major depression inventory':ti,ab,kw</p> | |
| #3 | <p>('c reactive protein'/de OR 'cytokine'/de OR 'inflammation'/de OR 'interleukin 6'/de OR 'tumor necrosis factor'/de OR 'fibrinogen'/de OR 'interleukin 1'/exp OR 'c-reactive protein':ti,ab,kw OR 'crp':ti,ab,kw OR 'cytokines':ti,ab,kw OR 'inflammation':ti,ab,kw OR 'inflammatory':ti,ab,kw OR 'interleukin 6':ti,ab,kw OR 'il 6':ti,ab,kw OR 'tumor necrosis factor alpha':ti,ab,kw OR 'tnf α':ti,ab,kw OR 'tnf</p> | 1,501,929 |

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| | alpha':ti,ab,kw OR 'fibrinogen':ti,ab,kw OR 'coagulation factor i':ti,ab,kw OR 'interleukin 1':ti,ab,kw OR 'il 1':ti,ab,kw) AND ('reactivity':ti,ab,kw OR 'reacti*':ti,ab,kw OR 'cascade*':ti,ab,kw OR 'response*':ti,ab,kw OR 'serum':ti,ab,kw OR 'blood':ti,ab,kw) | |
| #4 | #1 AND #2 AND #3 | 2,600 |
| #5 | #4 NOT (('animal'/exp OR 'nonhuman'/exp) NOT 'human'/exp) | 1,723 |

APA PsycInfo (EBSCO) Database, last searched 2025-04-25, limit: population- human, 267 results

| Search number | Search strategy | Results |
|---------------|--|---------|
| S1 | DE ("acute stress" OR "stress reactions") | 14,051 |
| S2 | XB("acute stress*" OR "acute stress induced" OR "stress* induc*" OR "acute stress induction" OR "acute stress response" OR "elicit acute stress" OR "acute stressor response" OR "acute mental stress" OR "acute psychological stress" OR "acute stress conditions" OR "Trier Social Stress Test" OR "Maastricht Acute Stress Test" OR "speech stressor*" OR "arithmetic stressor*" OR ("acute" N5 ("stress test*" OR "laboratory task*" OR "anger recall" OR "frustration recall" OR "Mental arithmetic" OR "learning task*" OR "recall task*" OR "mirror trac*" OR "Cyberball" OR "ball toss*")) | 18,403 |
| S3 | KW("acute stress*" OR "acute stress induced" OR "stress* induc*" OR "acute stress induction" OR "acute stress response" OR "elicit acute stress" OR "acute stressor response" OR "acute mental stress" OR "acute psychological stress" OR "acute stress conditions" OR "Trier Social Stress Test" OR "Maastricht Acute Stress Test" OR "speech stressor*" OR "arithmetic stressor*" OR ("acute" N5 ("stress test*" OR "laboratory task*" OR "anger recall" OR "frustration recall" OR "Mental arithmetic" OR "learning task*" OR "recall task*" OR "mirror trac*" OR "Cyberball" OR "ball toss*")) | 15,546 |
| S4 | S1 OR S2 OR S3 | 29,320 |
| S5 | DE ("anxiety" OR "depression" OR "major depression" OR "distress" OR "dysthymic disorder" OR "generalized anxiety disorder" OR "persistent depressive disorder" OR "anxiety disorders" OR "posttraumatic stress disorder" OR "posttraumatic stress" OR "emotional trauma" OR "psychological stress" OR "stress and trauma related disorders" OR "trauma screening") | 376,761 |
| S6 | XB ("anxiety" OR "depression" OR "major depression" OR "distress" OR "dysthymic disorder" OR "generalized anxiety disorder" OR "persistent depressive disorder" OR | 583,365 |

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|----|--|---------|
| | <p>"anxiety disorders" OR "post traumatic stress disorder" OR "post traumatic stress" OR "emotional trauma" OR "psychological stress" OR "stress and trauma related disorders" OR "agitated depression" OR "depressive reaction (neurotic)" OR "dysphoria" OR "major depressive disorder" OR "major depressive episode" OR "melancholia" OR "neurotic depressive reaction" OR "psychotic depressive reaction" OR "unipolar depression" OR "anguish" OR "dysthymia" OR "chronic major depressive disorder" OR "persistent depression" OR "posttraumatic stress disorder" OR "posttraumatic stress" OR "psychological distress" OR "psychological trauma" OR "stress* disorder" OR "trauma* disorder" OR "traumatic stress" OR "unspecified anxiety disorder" OR "other specified anxiety disorder" OR "Kessler Psychological Distress Scale" OR "K10" OR "General Health Questionnaire 12" OR "Distress thermometer" OR "Brief Symptom Inventory" OR "PTSD Checklist for DSM-5" OR "PCL-5" OR "Clinician-Administered PTSD Scale for DSM-5" OR "CAPS-5" OR "Impact of Event Scale" OR "IES" OR "Impact of Event Scale – Revised" OR "IES-R" OR "Davidson Trauma Scale" OR "DTS" OR "Trauma Screening Questionnaire" OR "TSQ" OR "Posttraumatic Diagnostic Scale" OR "PDS-5" OR "PTSD Symptom Scale Interview" OR "PSS-I" OR "PSS-I-5" OR "Mississippi Scale for Combat-related PTSD" OR "MISS" or "M-PTSD" OR "Revised Civilian Mississippi Scale" OR "Structured Interview for PTSD" OR "SIP" OR "SI-PTSD" OR "Modified PTSD Symptom Scale" OR "MPSS-SR" OR "Short PTSD Rating Interview" OR "SPRINT" OR "Post Traumatic Symptom Scale" OR "PTs" OR "Post-Traumatic Stress Disorder Symptoms Questionnaire" OR "Severity of Symptoms of PTSD Scale" OR "Penn Inventory for Posttraumatic Stress Disorder" OR "Harvard Trauma Questionnaire--Modified Version" OR "Harvard Trauma Questionnaire" OR "HTQ" OR "Distressing Event Questionnaire" OR "DEQ" OR "Rumination and Thought Suppression Measure" OR "Battered Woman Syndrome Questionnaire--Posttraumatic Stress Checklist" OR "BWSQ-PTSC" OR "Beck Depression Inventory" OR "BDI" OR "Depression Anxiety Stress Scale-21" OR "DASS-21" OR "DASS-42" OR "Depression Adjective Check List" OR "DACL" OR "Hopelessness Depression Symptom Questionnaire" OR "HDSQ" OR "Hamilton Rating Scale for Depression" OR "HSRD" OR "MHRSD" OR "SIGH-D" OR "HAM-D" OR "Center for Epidemiological Studies Depression Scale" OR "CES-D" OR "Hospital Anxiety and Depression Scale" OR "HADS" OR "Structured Clinical Interview for DSM-5" OR "SCID-5" OR "Patient Health Questionnaire" OR "Patient Health Questionnaire" OR "PHQ-9" OR "Montgomery-Asberg Depression Rating Scale" OR "MADRS" OR "Beck Anxiety Inventory" OR "BAI" OR "Hamilton Anxiety Rating Scale" OR "HAM-A" OR "HAS" OR "Perceived Stress Scale" OR "PSS" OR "Generalized Anxiety Disorder 7" OR "GAD-7" OR "State Trait Anxiety Inventory" OR "STAI" OR "Beck Hopelessness Scale" OR "BHS" OR "Major Depression Inventory" OR "MDI" OR "mMDI")</p> | |
| S7 | <p>KW ("anxiety" OR "depression" OR "major depression" OR "distress" OR "dysthymic disorder" OR "generalized anxiety disorder" OR "persistent depressive disorder" OR "anxiety disorders" OR "post traumatic stress disorder" OR "post traumatic stress" OR "emotional trauma" OR "psychological stress" OR "stress and trauma related disorders" OR "agitated depression" OR "depressive reaction (neurotic)" OR "dysphoria" OR "major depressive disorder" OR "major depressive episode" OR</p> | 304,412 |

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| | <p>"melancholia" OR "neurotic depressive reaction" OR "psychotic depressive reaction" OR "unipolar depression" OR "anguish" OR "dysthymia" OR "chronic major depressive disorder" OR "persistent depression" OR "posttraumatic stress disorder" OR "posttraumatic stress" OR "psychological distress" OR "psychological trauma" OR "stress* disorder" OR "trauma* disorder" OR "traumatic stress" OR "unspecified anxiety disorder" OR "other specified anxiety disorder" OR "Kessler Psychological Distress Scale" OR "K10" OR "General Health Questionnaire 12" OR "Distress thermometer" OR "Brief Symptom Inventory" OR "PTSD Checklist for DSM-5" OR "PCL-5" OR "Clinician-Administered PTSD Scale for DSM-5" OR "CAPS-5" OR "Impact of Event Scale" OR "IES" OR "Impact of Event Scale – Revised" OR "IES-R" OR "Davidson Trauma Scale" OR "DTS" OR "Trauma Screening Questionnaire" OR "TSQ" OR "Posttraumatic Diagnostic Scale" OR "PDS-5" OR "PTSD Symptom Scale Interview" OR "PSS-I" OR "PSS-I-5" OR "Mississippi Scale for Combat-related PTSD" OR "MISS" or "M-PTSD" OR "Revised Civilian Mississippi Scale" OR "Structured Interview for PTSD" OR "SIP" OR "SI-PTSD" OR "Modified PTSD Symptom Scale" OR "MPSS-SR" OR "Short PTSD Rating Interview" OR "SPRINT" OR "Post Traumatic Symptom Scale" OR "PTs" OR "Post-Traumatic Stress Disorder Symptoms Questionnaire" OR "Severity of Symptoms of PTSD Scale" OR "Penn Inventory for Posttraumatic Stress Disorder" OR "Harvard Trauma Questionnaire--Modified Version" OR "Harvard Trauma Questionnaire" OR "HTQ" OR "Distressing Event Questionnaire" OR "DEQ" OR "Rumination and Thought Suppression Measure" OR "Battered Woman Syndrome Questionnaire--Posttraumatic Stress Checklist" OR "BWSQ-PTSC" OR "Beck Depression Inventory" OR "BDI" OR "Depression Anxiety Stress Scale-21" OR "DASS-21" OR "DASS-42" OR "Depression Adjective Check List" OR "DACL" OR "Hopelessness Depression Symptom Questionnaire" OR "HDSQ" OR "Hamilton Rating Scale for Depression" OR "HSRD" OR "MHRSD" OR "SIGH-D" OR "HAM-D" OR "Center for Epidemiological Studies Depression Scale" OR "CES-D" OR "Hospital Anxiety and Depression Scale" OR "HADS" OR "Structured Clinical Interview for DSM-5" OR "SCID-5" OR "Patient Health Questionnaire" OR "Patient Health Questionnaire" OR "PHQ-9" OR "Montgomery-Asberg Depression Rating Scale" OR "MADRS" OR "Beck Anxiety Inventory" OR "BAI" OR "Hamilton Anxiety Rating Scale" OR "HAM-A" OR "HAS" OR "Perceived Stress Scale" OR "PSS" OR "Generalized Anxiety Disorder 7" OR "GAD-7" OR "State Trait Anxiety Inventory" OR "STAI" OR "Beck Hopelessness Scale" OR "BHS" OR "Major Depression Inventory" OR "MDI" OR "mMDI")</p> | |
| S8 | S5 OR S6 OR S7 | 647,556 |
| S9 | DE("C-reactive protein" OR "inflammation" OR "cytokines" OR "tumor necrosis factor") | 23,393 |
| S10 | XB("C-reactive protein" OR "CRP" OR "hs-CRP" OR "inflammation" OR "interleukin-6" OR "tumor necrosis factor alpha" OR "fibrinogen" OR "interleukin-1" OR "cytokines" OR "inflammatory" OR "interleukin-6" OR "IL-6" OR "TNF-α" OR "TNF-alpha" OR "Fibrinogen" OR "Coagulation Factor I" OR "interleukin-1" OR "il-1") N5 ("reactivity" OR "reacti*" OR "cascade*" OR "response*" OR "serum" OR | 14,481 |

| | | |
|-----|---|--------|
| | "blood") | |
| S11 | KW("C-reactive protein" OR "CRP" OR "hs-CRP" OR "inflammation" OR "interleukin-6" OR "tumor necrosis factor alpha" OR "fibrinogen" OR "interleukin-1" OR "cytokines" OR "inflammatory" OR "interleukin-6" OR "IL-6" OR "TNF α" OR "TNF-alpha" OR "Fibrinogen" OR "Coagulation Factor I" OR "interleukin-1" OR "il-1") N5 ("reactivity" OR "reacti*" OR "cascade*" OR "response*" OR "serum" OR "blood") | 1,773 |
| S12 | S9 OR S10 OR S11 | 29,809 |
| S13 | S4 AND S8 AND S12 | 526 |
| | Limits: Population- humans | 267 |

Web of Science Core Collection: Social Sciences Citation Index (SSCI), 1900-present (Clarivate), Database, last searched 2025-04-25, no limits, 337 results

| Search number | Search strategy | Results |
|---------------|---|-----------|
| #1 | TS=("acute stress*" OR "acute stress induced" OR "stress* induc*" OR "acute stress induction" OR "acute stress response" OR "elicit acute stress" OR "acute stressor response" OR "acute mental stress" OR "acute psychological stress" OR "acute stress conditions" OR "Trier Social Stress Test" OR "Maastricht Acute Stress Test" OR "speech stressor*" OR "arithmetic stressor*" OR ("acute" NEAR/5 ("stress test*" OR "laboratory task*" OR "anger recall" OR "Mental arithmetic" OR "learning task*" OR "recall task*" OR "frustration recall" OR "mirror trac*" OR "Cyberball" OR "ball toss*"))) | 10,418 |
| #2 | TS=("anxiety" OR "depression" OR "major depression" OR "distress" OR "dysthymic disorder" OR "generalized anxiety disorder" OR "persistent depressive disorder" OR "anxiety disorders" OR "post traumatic stress disorder" OR "post traumatic stress" OR "emotional trauma" OR "psychological stress" OR "stress and trauma related disorders" OR "agitated depression" OR "dysphoria" OR "major depressive disorder" OR "major depressive episode" OR "melancholia" OR "neurotic depressive reaction" OR "psychotic depressive reaction" OR "unipolar depression" OR "anguish" OR "dysthymia" OR "chronic major depressive disorder" OR "persistent depression" OR "posttraumatic stress disorder" OR "posttraumatic stress" OR "psychological distress" OR "psychological trauma" OR "stress* disorder" OR "trauma* disorder" OR "traumatic stress" OR "unspecified anxiety disorder" OR "other specified anxiety | 1,908,579 |

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|----|---|--------|
| | <p>disorder" OR "Kessler Psychological Distress Scale" OR "K10" OR "General Health Questionnaire 12" OR "Distress thermometer" OR "Brief Symptom Inventory" OR "PTSD Checklist for DSM-5" OR "PCL-5" OR "Clinician-Administered PTSD Scale for DSM-5" OR "CAPS-5" OR "Impact of Event Scale" OR "IES" OR "Impact of Event Scale – Revised" OR "IES-R" OR "Davidson Trauma Scale" OR "DTS" OR "Trauma Screening Questionnaire" OR "TSQ" OR "Posttraumatic Diagnostic Scale" OR "PDS-5" OR "PTSD Symptom Scale Interview" OR "PSS-I" OR "PSS-I-5" OR "Mississippi Scale for Combat-related PTSD" OR "MISS" or "M-PTSD" OR "Revised Civilian Mississippi Scale" OR "Structured Interview for PTSD" OR "SIP" OR "SI-PTSD" OR "Modified PTSD Symptom Scale" OR "MPSS-SR" OR "Short PTSD Rating Interview" OR "SPRINT" OR "Post Traumatic Symptom Scale" OR "PTSSs" OR "Post-Traumatic Stress Disorder Symptoms Questionnaire" OR "Severity of Symptoms of PTSD Scale" OR "Penn Inventory for Posttraumatic Stress Disorder" OR "Harvard Trauma Questionnaire--Modified Version" OR "Harvard Trauma Questionnaire" OR "HTQ" OR "Distressing Event Questionnaire" OR "DEQ" OR "Rumination and Thought Suppression Measure" OR "Battered Woman Syndrome Questionnaire--Posttraumatic Stress Checklist" OR "BWSQ-PTSC" OR "Beck Depression Inventory" OR "BDI" OR "Depression Anxiety Stress Scale-21" OR "DASS-21" OR "DASS-42" OR "Depression Adjective Check List" OR "DACL" OR "Hopelessness Depression Symptom Questionnaire" OR "HDSQ" OR "Hamilton Rating Scale for Depression" OR "HSRD" OR "MHRSD" OR "SIGH-D" OR "HAM-D" OR "Center for Epidemiological Studies Depression Scale" OR "CES-D" OR "Hospital Anxiety and Depression Scale" OR "HADS" OR "Structured Clinical Interview for DSM-5" OR "SCID-5" OR "Patient Health Questionnaire" OR "Patient Health Questionnaire" OR "PHQ-9" OR "Montgomery-Asberg Depression Rating Scale" OR "MADRS" OR "Beck Anxiety Inventory" OR "BAI" OR "Hamilton Anxiety Rating Scale" OR "HAM-A" OR "HAS" OR "Perceived Stress Scale" OR "PSS" OR "Generalized Anxiety Disorder 7" OR "GAD-7" OR "State Trait Anxiety Inventory" OR "STAI" OR "Beck Hopelessness Scale" OR "BHS" OR "Major Depression Inventory" OR "MDI" OR "mMDI")</p> | |
| #3 | <p>TS=("C-reactive protein" OR "CRP" OR "hs-CRP" OR "inflammation" OR "interleukin-6" OR "tumor necrosis factor alpha" OR "fibrinogen" OR "interleukin-1" OR "cytokines" OR "inflammatory" OR "interleukin-6" OR "IL-6" OR "TNF-α" OR "TNF-alpha" OR "Fibrinogen" OR "Coagulation Factor I" OR "interleukin-1" OR "il-1") NEAR/5 ("reactivity" OR "reacti*" OR "cascade*" OR "response*" OR "serum" OR "blood"))</p> | 11,496 |
| #4 | #1 AND #2 AND #3 | 337 |

Scopus (Elsevier) Database, last searched 2025-04-25, no limits, 85 results

| Search number | Search strategy | Results |
|---------------|---|------------|
| 1 | TITLE-ABS-KEY ("acute stress*" OR "acute stress induced" OR "stress* induc*" OR "acute stress induction" OR "acute stress response" OR "elicit acute stress" OR "acute stressor response" OR "acute mental stress" OR "acute psychological stress" OR "acute stress conditions" OR "Trier Social Stress Test" OR "Maastricht Acute Stress Test" OR "speech stressor*" OR "arithmetic stressor*" OR ("acute") W/5 ("stress test*" OR "laboratory task*" OR "anger recall" OR "Mental arithmetic" OR "learning task*" OR "recall task*" OR "frustration recall" OR "mirror trac*" OR "Cyberball" OR "ball toss*")) | 2,585 |
| 2 | TITLE-ABS-KEY ("anxiety" OR "depression" OR "major depression" OR "distress" OR "dysthymic disorder" OR "generalized anxiety disorder" OR "persistent depressive disorder" OR "anxiety disorders" OR "post traumatic stress disorder" OR "post traumatic stress" OR "emotional trauma" OR "psychological stress" OR "stress and trauma related disorders" OR "agitated depression" OR "dysphoria" OR "major depressive disorder" OR "major depressive episode" OR "melancholia" OR "neurotic depressive reaction" OR "psychotic depressive reaction" OR "unipolar depression" OR "anguish" OR "dysthymia" OR "chronic major depressive disorder" OR "persistent depression" OR "post traumatic stress disorder" OR "post traumatic stress" OR "psychological distress" OR "psychological trauma" OR "stress* disorder" OR "trauma* disorder" OR "traumatic stress" OR "unspecified anxiety disorder" OR "other specified anxiety disorder" OR "Kessler Psychological Distress Scale" OR "K10" OR "General Health Questionnaire 12" OR "Distress thermometer" OR "Brief Symptom Inventory" OR "PTSD Checklist for DSM-5" OR "PCL-5" OR "Clinician-Administered PTSD Scale for DSM-5" OR "CAPS-5" OR "Impact of Event Scale" OR "IES" OR "Impact of Event Scale – Revised" OR "IES-R" OR "Davidson Trauma Scale" OR "DTS" OR "Trauma Screening Questionnaire" OR "TSQ" OR "Posttraumatic Diagnostic Scale" OR "PDS-5" OR "PTSD Symptom Scale Interview" OR "PSS-I" OR "PSS-I-5" OR "Mississippi Scale for Combat-related PTSD" OR "MISS" or "M-PTSD" OR "Revised Civilian Mississippi Scale" OR "Structured Interview for PTSD" OR "SIP" OR "SI-PTSD" OR "Modified PTSD Symptom Scale" OR "MPSS-SR" OR "Short PTSD Rating Interview" OR "SPRINT" OR "Post Traumatic Symptom Scale" OR "PTSS" OR "Post-Traumatic Stress Disorder Symptoms Questionnaire" OR "Severity of Symptoms of PTSD Scale" OR "Penn Inventory for Posttraumatic Stress Disorder" OR "Harvard Trauma Questionnaire--Modified Version" OR "Harvard Trauma Questionnaire" OR "HTQ" OR "Distressing Event Questionnaire" OR "DEQ" OR "Rumination and Thought Suppression Measure" OR "Battered Woman Syndrome Questionnaire--Posttraumatic Stress Checklist" OR "BWSQ-PTSC" OR "Beck Depression Inventory" OR "BDI" OR "Depression Anxiety Stress Scale-21" OR "DASS-21" OR "DASS-42" OR "Depression Adjective Check List" OR "DACL" OR "Hopelessness Depression Symptom Questionnaire" OR "HDSQ" OR "Hamilton Rating Scale for Depression" OR "HSRD" OR "MHRSD" OR "SIGH-D" OR "HAM-D" OR "Center for Epidemiological Studies Depression Scale" OR "CES-D" OR | 21,682,310 |

| | | |
|---|--|---------|
| | "Hospital Anxiety and Depression Scale" OR "HADS" OR "Structured Clinical Interview for DSM-5" OR "SCID-5" OR "Patient Health Questionnaire" OR "Patient Health Questionnaire" OR "PHQ-9" OR "Montgomery-Asberg Depression Rating Scale" OR "MADRS" OR "Beck Anxiety Inventory" OR "BAI" OR "Hamilton Anxiety Rating Scale" OR "HAM-A" OR "HAS" OR "Perceived Stress Scale" OR "PSS" OR "Generalized Anxiety Disorder 7" OR "GAD-7" OR "State Trait Anxiety Inventory" OR "STAI" OR "Beck Hopelessness Scale" OR "BHS" OR "Major Depression Inventory" OR "MDI" OR "mMDI") | |
| 3 | TITLE-ABS-KEY ("C-reactive protein" OR "CRP" OR "hs-CRP" OR "inflammation" OR "interleukin-6" OR "tumor necrosis factor alpha" OR "fibrinogen" OR "interleukin-1" OR "cytokines" OR "inflammatory" OR "interleukin-6" OR "IL-6" OR "TNF- α " OR "TNF-alpha" OR "Fibrinogen" OR "Coagulation Factor I" OR "interleukin-1" OR "il-1") W/5 ("reactivity" OR "reacti*" OR "cascade*" OR "response*" OR "serum" OR "blood") | 697,517 |
| 4 | 1 AND 2 AND 3 | 85 |

Cochrane Central Register of Controlled Trials (Wiley), Database, last searched 2025-04-25, limit: Trials, 45 results

| Search number | Search strategy | Results |
|---------------|---|---------|
| #1 | "acute stress" OR "acute stress induced" OR "acute stress induction" OR "acute stress response" OR "elicit acute stress" OR "acute stressor response" OR "acute mental stress" OR "acute psychological stress" OR "acute stress conditions" OR "Trier Social Stress Test" OR "Maastricht Acute Stress Test" OR "speech stressor" OR "arithmetic stressor" OR ("acute" NEAR ("stress test" OR "laboratory task" OR "anger recall" OR "Mental arithmetic" OR "learning task" OR "recall task" OR "frustration recall" OR "mirror tracing" OR Cyberball OR "ball toss")):ti,ab,kw | 1,652 |
| #2 | "anxiety" OR "depression" OR "major depression" OR "distress" OR "dysthymic disorder" OR "generalized anxiety disorder" OR "persistent depressive disorder" OR "anxiety disorders" OR "post traumatic stress disorder" OR "post traumatic stress" OR "emotional trauma" OR "psychological stress" OR "stress and trauma related disorders" OR "major depressive disorder" OR "major depressive episode" OR "dysthymia" OR "chronic major depressive disorder" OR "persistent depression" OR "posttraumatic stress disorder" OR "posttraumatic stress" OR "psychological distress" OR "psychological trauma" OR "stress disorder" OR "trauma disorder" OR "traumatic stress" OR "unspecified anxiety disorder" OR "other specified anxiety disorder" OR "Kessler Psychological Distress Scale" OR "K10" OR "General Health | 529,038 |

| | | |
|----|--|--------|
| | Questionnaire 12" OR "Distress thermometer" OR "Brief Symptom Inventory" OR "PTSD Checklist for DSM 5" OR "PCL 5" OR "Clinician Administered PTSD Scale for DSM 5" OR "CAPS 5" OR "Impact of Event Scale" OR "IES" OR "Impact of Event Scale Revised" OR "IES R" OR "Davidson Trauma Scale" OR "DTS" OR "Trauma Screening Questionnaire" OR "TSQ" OR "Posttraumatic Diagnostic Scale" OR "PDS 5" OR "PTSD Symptom Scale Interview" OR "PSS I" OR "PSS I 5" OR "Mississippi Scale for Combat related PTSD" OR "MISS" OR "M PTSD" OR "Revised Civilian Mississippi Scale" OR "Structured Interview for PTSD" OR "SIP" OR "SI PTSD" OR "Modified PTSD Symptom Scale" OR "MPSS SR" OR "Short PTSD Rating Interview" OR SPRINT OR "Post Traumatic Symptom Scale" OR "PTs" OR "Post Traumatic Stress Disorder Symptoms Questionnaire" OR "Severity of Symptoms of PTSD Scale" OR "Penn Inventory for Posttraumatic Stress Disorder" OR "Harvard Trauma Questionnaire Modified Version" OR "Harvard Trauma Questionnaire" OR "HTQ" OR "Distressing Event Questionnaire" OR "DEQ" OR "Rumination and Thought Suppression Measure" OR "Battered Woman Syndrome Questionnaire Posttraumatic Stress Checklist" OR "BWSQ PTSC" OR "Beck Depression Inventory" OR "BDI" OR "Depression Anxiety Stress Scale 21" OR "DASS 21" OR "DASS 42" OR "Depression Adjective Check List" OR "DACL" OR "Hopelessness Depression Symptom Questionnaire" OR "HDSQ" OR "Hamilton Rating Scale for Depression" OR "HSRD" OR "MHRSD" OR "SIGH D" OR "HAM D" OR "Center for Epidemiological Studies Depression Scale" OR "CES D" OR "Hospital Anxiety and Depression Scale" OR "HADS" OR "Structured Clinical Interview for DSM 5" OR "SCID 5" OR "Patient Health Questionnaire" OR "Patient Health Questionnaire" OR "PHQ 9" OR "Montgomery Asberg Depression Rating Scale" OR "MADRS" OR "Beck Anxiety Inventory" OR "BAI" OR "Hamilton Anxiety Rating Scale" OR "HAM A" OR "HAS" OR "Perceived Stress Scale" OR "PSS" OR "Generalized Anxiety Disorder 7" OR "GAD 7" OR "State Trait Anxiety Inventory" OR "STAI" OR "Beck Hopelessness Scale" OR "BHS" OR "Major Depression Inventory" OR "MDI" OR "mMDI":ti,ab,kw | |
| #3 | ("C-reactive protein" OR "CRP" OR "hs-CRP" OR "inflammation" OR "interleukin-6" OR "tumor necrosis factor alpha" OR "fibrinogen" OR "interleukin-1" OR "cytokines" OR "inflammatory" OR IL-6 OR "TNF- α " OR "TNF-alpha" OR "Coagulation Factor I" OR "il-1") NEAR ("reactivity" OR "reaction" OR "cascade" OR "response" OR "serum" OR "blood") | 37,675 |
| #4 | #1 AND #2 AND #3 | 45 |
| #5 | Limit: Trials | 45 |

OAIster (OCLC) Database, last searched 2025-04-25, no limits, 52 results

kw:("acute stress" OR "acute psychological stress" OR "stress test") AND (anxiety OR depression OR distress) AND ("C-reactive protein" OR "CRP" OR "hs-CRP" OR "inflammation" OR "interleukin-6" OR

"tumor necrosis factor alpha" OR "fibrinogen" OR "interleukin-1" OR "cytokines" OR "inflammatory" OR IL-6 OR "TNF- α " OR "TNF-alpha" OR "Coagulation Factor I" OR "il-1")

ProQuest Dissertations & Theses Global (ProQuest), Database, last searched 2025-04-25, no limits, 24 results

noft(("acute stress" OR "acute stress induced" OR "acute stress induction" OR "acute stress response" OR "elicit acute stress" OR "acute stressor response" OR "acute mental stress" OR "acute psychological stress" OR "acute stress conditions" OR "Trier Social Stress Test" OR "Maastricht Acute Stress Test" OR "speech stressor" OR "arithmetic stressor" OR ("acute" NEAR/5 ("stress test" OR "laboratory task" OR "anger recall" OR "Mental arithmetic" OR "learning task" OR "recall task" OR "frustration recall" OR "mirror tracing" OR Cyberball OR "ball toss")))) AND noft("anxiety" OR "depression" OR "major depression" OR "distress" OR "dysthymic disorder" OR "generalized anxiety disorder" OR "persistent depressive disorder" OR "anxiety disorders" OR "posttraumatic stress disorder" OR "posttraumatic stress" OR "emotional trauma" OR "psychological stress" OR "stress and trauma related disorders" OR "major depressive disorder" OR "major depressive episode" OR "dysthymia" OR "chronic major depressive disorder" OR "persistent depression" OR "post traumatic stress disorder" OR "post traumatic stress" OR "psychological distress" OR "psychological trauma" OR "stress disorder" OR "trauma disorder" OR "traumatic stress" OR "unspecified anxiety disorder" OR "other specified anxiety disorder" OR "Kessler Psychological Distress Scale" OR "K10" OR "General Health Questionnaire 12" OR "Distress thermometer" OR "Brief Symptom Inventory" OR "PTSD Checklist for DSM 5" OR "PCL 5" OR "Clinician Administered PTSD Scale for DSM 5" OR "CAPS 5" OR "Impact of Event Scale" OR "IES" OR "Impact of Event Scale Revised" OR "IES R" OR "Davidson Trauma Scale" OR "DTS" OR "Trauma Screening Questionnaire" OR "TSQ" OR "Posttraumatic Diagnostic Scale" OR "PDS 5" OR "PTSD Symptom Scale Interview" OR "PSS I" OR "PSS I 5" OR "Mississippi Scale for Combat related PTSD" OR "MISS" OR "M PTSD" OR "Revised Civilian Mississippi Scale" OR "Structured Interview for PTSD" OR "SIP" OR "SI PTSD" OR "Modified PTSD Symptom Scale" OR "MPSS SR" OR "Short PTSD Rating Interview" OR SPRINT OR "Post Traumatic Symptom Scale" OR "PTSS" OR "Post Traumatic Stress Disorder Symptoms Questionnaire" OR "Severity of Symptoms of PTSD Scale" OR "Penn Inventory for Posttraumatic Stress Disorder" OR "Harvard Trauma Questionnaire Modified Version" OR "Harvard Trauma Questionnaire" OR "HTQ" OR "Distressing Event Questionnaire" OR "DEQ" OR "Rumination and Thought Suppression Measure" OR "Battered Woman Syndrome Questionnaire Posttraumatic Stress Checklist" OR "BWSQ PTSC" OR "Beck Depression Inventory" OR "BDI" OR "Depression Anxiety Stress Scale 21" OR "DASS 21" OR "DASS 42" OR "Depression Adjective Check List" OR "DACL" OR "Hopelessness Depression Symptom Questionnaire" OR "HDSQ" OR "Hamilton Rating Scale for Depression" OR "HSRD" OR "MHRSD" OR "SIGH D" OR "HAM D" OR "Center for Epidemiological Studies Depression Scale" OR "CES D" OR "Hospital Anxiety and Depression Scale" OR "HADS" OR "Structured Clinical Interview for DSM 5" OR "SCID 5" OR "Patient Health Questionnaire" OR "Patient Health Questionnaire" OR "PHQ 9" OR "Montgomery Asberg Depression Rating Scale" OR "MADRS" OR "Beck Anxiety Inventory" OR "BAI" OR "Hamilton Anxiety Rating Scale" OR "HAM A" OR "HAS" OR "Perceived Stress Scale" OR "PSS" OR "Generalized Anxiety Disorder 7" OR "GAD 7" OR "State Trait Anxiety Inventory" OR "STAI" OR "Beck Hopelessness Scale" OR

"BHS" OR "Major Depression Inventory" OR "MDI" OR "mMDI") AND NOT(((("C-reactive protein" OR "CRP" OR "hs-CRP" OR "inflammation" OR "interleukin-6" OR "tumor necrosis factor alpha" OR "fibrinogen" OR "interleukin-1" OR "cytokines" OR "inflammatory" OR IL-6 OR "TNF- α " OR "TNF-alpha" OR "Coagulation Factor I" OR "il-1") NEAR/5 ("reactivity" OR "reaction" OR "cascade" OR "response" OR "serum" OR "blood"))))