Determinants of mental health disorder among pregnant and post-partum women during the COVID-19 pandemic in Asian countries: a systematic review protocol

Citation

Review question

This review attempts to establish, through the available literature, the determinants that contribute to increased mental health disorders in pregnant and postpartum women. The review question would be focusing on "What are the determinant factors that increase mental health disorders in pregnant and post-partum women during the COVID-19 pandemic?

Searches

This systematic review will search for potential articles through the PubMed, PsycINFO CINAHL, MEDLINE and Scopus databases. Searches will be limited to original articles published in English from December 2019 to the end of March 2021. Our search strategy will be developed in consultation with academic librarians who are experienced in systematic review studies to ensure research accuracy. A manual search of the reference list of included studies will be carried out for additional eligible articles. We would search for potential eligible manuscripts cited through Google Scholar as part of the citation chaining process. We will also search the grey literature for identified unpublished material using the ProQuest Dissertation and Thesis Database, and the websites of health professionals such as European Psychiatric Association and mental health associations.

Types of study to be included

The review considered the types of observational and longitudinal studies related to mental health in pregnant and postpartum women during the COVID-19 pandemic. We also included qualitative studies to support the analysis.

The review will be conducted in two stages. The first stage, the literature will be screened by title and abstract according to the inclusion criteria and the exclusive criteria by the two reviewers. The second stage, all articles that pass the first stage will be reviewed including full text. Articles obtained will be classified as 'included ', excluded' and 'uncertain'. A third reviewer will be involved if there is no agreement between the two reviewers. Prior to study selection, we will conduct a test run to measure the reliability of the scores between the two reviewers, using Cohen's kappa coefficient of 40% of the articles obtained. Values from 0.61 to 0.8 indicate substantial agreement.

Condition or domain being studied

Depression, anxiety, psychological distress, post-traumatic stress disorder, and insomnia related to the COVID-19 pandemic among pregnant and post-partum women.

Participants/population

This review will consider all studies involving pregnant and post-partum women of all age groups.

Intervention(s), exposure(s)

There is no intervention. This systematic review will evaluate determinant factors that significantly increase depression, anxiety, psychological stress, post-traumatic stress disorder, and insomnia due to the COVID-19 pandemic.

Comparator(s)/control

There is no comparator or control.

Context

Inclusion criteria: Mental health disorder among Pregnant and postpartum women in Asia countries, Proposed determinants factor related to mental health disorder during COVID-19 pandemic, Articles written in English.

Exclusion criteria: Subject from general population, Publication in the term of letters to editor, editorials, comments, case report.

Main outcome(s)

Articles and studies will be reviewed if they report prevalence rates of depression, anxiety, insomnia, post-traumatic stress disorder (PTSD), and or determinants that increase mental health disorders in pregnant and post-partum women during the COVID-19 pandemic. Studies are also included if they report data from which prevalence rates can be calculated. Letters, comments, case reports or reviews are excluded.

Additional outcome(s)

Not applicable

Data extraction (selection and coding)

Data extraction will include several variables as follows: author, year of publication, research location, research design, research objectives, participant, outcome measurement, measurement scale used, data quality and author recommendation. Details of all variables will be provided.

Risk of bias (quality) assessment

The risk of bias of the research articles identified in this review will be assessed independently by four investigators. The review process will follow different critical assessment instruments depending on the type of study such as the CASP checklist for observational studies and Consolidated criteria for reporting qualitative research (COREQ) for qualitative studies.

Strategy for data synthesis

The extracted data will be used to produce a narrative synthesis of the results. The data will be categorized based on research questions, determinant factors, types of outcomes, and health impacts. The quantitative result data will be presented in a table, including the estimated effect and measurement time. The qualitative data will be summarized and will be analyzed using thematic analysis techniques, allowing clear identification of the themes emerging from the data. Data analysis will mainly be carried out by two reviewers (PHS, JP), then the findings will be discussed in a team meeting to confirm the results of the analysis. The quantitative and qualitative results will be described separately. The findings from the qualitative study will then be integrated to support the findings of the quantitative study.

Analysis of subgroups or subsets

Not applicable

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Type and method of review

Narrative synthesis, Systematic review

Anticipated or actual start date

01 May 2021

Anticipated completion date [1 change]

31 March 2022

Funding sources/sponsors

None available

Conflicts of interest

No conflict of interest
None known

Language

English

Country

Australia, Indonesia

Stage of review

Review Ongoing

Subject index terms status

Subject indexing assigned by CRD

Subject index terms

Asia; COVID-19; Female; Humans; Mental Disorders; Mental Health; Pandemics; Postpartum Period; Pregnancy; SARS-CoV-2

Date of registration in PROSPERO

13 April 2021

Date of first submission

13 April 2021

Stage of review at time of this submission [1 change]

Stage	Started	Completed
Preliminary searches	Yes	Yes
Piloting of the study selection process	Yes	Yes
Formal screening of search results against eligibility criteria	Yes	Yes
Data extraction	Yes	Yes
Risk of bias (quality) assessment	No	No
Data analysis	No	No

Revision note

The authors made any changes related to review process completed date

The record owner confirms that the information they have supplied for this submission is accurate and complete and they understand that deliberate provision of inaccurate information or omission of data may be construed as scientific misconduct.

The record owner confirms that they will update the status of the review when it is completed and will add publication details in due course.

Versions

13 April 2021

04 January 2022