Conceptual framework on barriers and facilitators to implementing perinatal mental health care and treatment for women: the MATRIx evidence synthesis

Rebecca Webb,^{1*} Elizabeth Ford,² Judy Shakespeare,³ Abigail Easter,^{4,5} Fiona Alderdice,⁶ Jennifer Holly,⁷ Rose Coates,¹ Sally Hogg,⁸ Helen Cheyne,⁹ Sarah McMullen,⁷ Simon Gilbody,¹⁰ Debra Salmon¹ and Susan Ayers¹

- ¹Centre for Maternal and Child Health Research, School of Health Sciences, City, University of London, London, UK
- ²Department of Primary Care and Public Health, Brighton & Sussex Medical School, Falmer, UK
- ³Retired General Practitioner, Oxford, UK
- ⁴Department of Women and Children's Health, School of Life Course Sciences, King's College London, London, UK
- ⁵Section of Women's Mental Health, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, UK
- ⁶Oxford Population Health, National Perinatal Epidemiology Unit (NPEU), Nuffield Department of Population Health, University of Oxford, Oxford, UK
- ⁷NCT. Brunel House. Bristol. UK
- ⁸The Parent-Infant Foundation. London. UK
- ⁹Nursing, Midwifery and Allied Health Professions Research Unit, University of Stirling, Stirling, UK
- ¹⁰Mental Health and Addictions Research Group, University of York, York, UK

Disclosure of interests

Full disclosure of interests: Completed ICMJE forms for all authors, including all related interests, are available in the toolkit on the NIHR journals Library report publication page at https://doi.org/10.3310/KQFE0107.

Primary conflicts of interest: Fiona Alderdice, Susan Ayers, Helen Cheyne, Abigail Easter, Elizabeth Ford, Simon Gilbody, Debra Salmon, Judy Shakespeare and Rebecca Webb all received funding from the NIHR Health Services and Delivery Research Programme (NIHR128068) for this research project. In addition: Susan Ayers receives research funding from the NIHR, British Council, Public Health England and Barts Charity. Susan Ayers is chair of the Society of Reproductive and Infant Psychology. Helen Cheyne receives funding from the Scottish Government Chief Scientist Office and NIHR (NIHR HS&DR 17/105/16; NIHR127569; NIHR130619). Helen Cheyne is a trustee of the UK Sepsis Trust. Abigail Easter receives funding from the NIHR Applied Research Collaboration South London. Elizabeth Ford

^{*}Corresponding author Rebecca.Webb.2@city.ac.uk

receives research funding from the EPSRC and honorarium funding from the US National Institute of Aging. She is also a member of Sussex Integrated Dataset Programme Capability Board. Sally Hogg has no competing interests to declare. Jennifer Holly works for the NCT who received funding from the NIHR (NIHR128068) to complete this research. Sarah McMullen works for the NCT who received funding from the NIHR (NIHR128068) to complete this research. Debra Salmon receives research funding from the NIHR and Barts Charity.

Published January 2024 DOI: 10.3310/KQFE0107

Plain language summary

Conceptual framework on barriers and facilitators to implementing perinatal mental health care and treatment for women: the MATRIX evidence synthesis

Health and Social Care Delivery Research 2024; Vol. 12: No. 2 DOI: 10.3310/KQFE0107

NIHR Journals Library www.journalslibrary.nihr.ac.uk

Plain language summary

Mental health problems affect one in five women during pregnancy and the first year after birth (the perinatal period). These include anxiety, depression and stress-related conditions. Mental health problems can have a negative effect on women, their partners and their children. They are also a leading cause of maternal death. It is therefore important that women who experience mental health problems get the care and treatment they need. However, only about half of women with perinatal mental health problems are identified by health services and even fewer receive treatment.

This research aimed to understand what factors help or prevent women getting care or treatment for perinatal mental health problems. We did this by pulling together the findings from existing research in three phases. In phase 1 we reviewed the evidence from research studies to understand why it has been difficult for health services to assess, care for and treat women with perinatal mental health problems. In phase 2 we reviewed evidence from women's perspectives on all of the factors that prevent women from being able to get the care and treatment they need. In phase 3 we worked with a panel of women, health professionals (such as general practitioners and midwives) and health service managers to look at the findings from phases 1 and 2. We then developed frameworks that give a clear overview of factors that help or prevent women getting care and treatment. These frameworks show 39 factors that help women access services, and 66 factors that prevent access.

Based on these results we have developed guidance for government, NHS service managers and health professionals, such as general practitioners, midwives, health visitors, nurses and wider teams such as receptionists. This will be shared widely with health services and professionals who support women during pregnancy and after birth to improve perinatal mental health services so that care meets women's needs.

Health and Social Care Delivery Research

ISSN 2755-0060 (Print)

ISSN 2755-0079 (Online)

Health and Social Care Delivery Research (HSDR) was launched in 2013 and is indexed by Europe PMC, DOAJ, INAHTA, Ulrichsweb™ (ProQuest LLC, Ann Arbor, MI, USA), NCBI Bookshelf, Scopus and MEDLINE.

This journal is a member of and subscribes to the principles of the Committee on Publication Ethics (COPE) (www.publicationethics.org/).

Editorial contact: journals.library@nihr.ac.uk

This journal was previously published as *Health Services and Delivery Research* (Volumes 1–9); ISSN 2050-4349 (print), ISSN 2050-4357 (online)

The full HSDR archive is freely available to view online at www.journalslibrary.nihr.ac.uk/hsdr.

Criteria for inclusion in the Health and Social Care Delivery Research journal

Manuscripts are published in *Health and Social Care Delivery Research* (HSDR) if (1) they have resulted from work for the HSDR programme, and (2) they are of a sufficiently high scientific quality as assessed by the reviewers and editors.

HSDR programme

The HSDR programme funds research to produce evidence to impact on the quality, accessibility and organisation of health and social care services. This includes evaluations of how the NHS and social care might improve delivery of services.

For more information about the HSDR programme please visit the website at https://www.nihr.ac.uk/explore-nihr/funding-programmes/health-and-social-care-delivery-research.htm.

This manuscript

The research reported here is the product of an HSDR Evidence Synthesis Centre, contracted to provide rapid evidence syntheses on issues of relevance to the health service, and to inform future HSDR calls for new research around identified gaps in evidence. Other reviews by the Evidence Synthesis Centres are also available in the HSDR journal.

The research reported in this issue of the journal was funded by the HSDR programme or one of its preceding programmes as project number NIHR128068. The contractual start date was in September 2019. The final report began editorial review in December 2021 and was accepted for publication in October 2022. The authors have been wholly responsible for all data collection, analysis and interpretation, and for writing up their work. The HSDR editors and production house have tried to ensure the accuracy of the authors' manuscript and would like to thank the reviewers for their constructive comments on the final manuscript document. However, they do not accept liability for damages or losses arising from material published in this manuscript.

This manuscript presents independent research funded by the National Institute for Health and Care Research (NIHR). The views and opinions expressed by authors in this publication are those of the authors and do not necessarily reflect those of the NHS, the NIHR, the HSDR programme or the Department of Health and Social Care. If there are verbatim quotations included in this publication the views and opinions expressed by the interviewees are those of the interviewees and do not necessarily reflect those of the authors, those of the NHS, the NIHR, the HSDR programme or the Department of Health and Social Care.

Copyright © 2024 Webb et al. This work was produced by Webb et al. under the terms of a commissioning contract issued by the Secretary of State for Health and Social Care. This is an Open Access publication distributed under the terms of the Creative Commons Attribution CC BY 4.0 licence, which permits unrestricted use, distribution, reproduction and adaptation in any medium and for any purpose provided that it is properly attributed. See: https://creativecommons.org/licenses/by/4.0/. For attribution the title, original author(s), the publication source – NIHR Journals Library, and the DOI of the publication must be cited.

Published by the NIHR Journals Library (www.journalslibrary.nihr.ac.uk), produced by Newgen Digitalworks Pvt Ltd, Chennai, India (www.newgen.co).

NIHR Journals Library Editor-in-Chief

Dr Cat Chatfield Director of Health Services Research UK

NIHR Journals Library Editors

Professor Andrée Le May Chair of NIHR Journals Library Editorial Group (HSDR, PGfAR, PHR journals) and Editorin-Chief of HSDR, PGfAR, PHR journals

Dr Peter Davidson Interim Chair of HTA and EME Editorial Board, Consultant Advisor, School of Healthcare Enterprise and Innovation, University of Southampton, UK

Professor Matthias Beck Professor of Management, Cork University Business School, Department of Management and Marketing, University College Cork, Ireland

Dr Tessa Crilly Director, Crystal Blue Consulting Ltd, UK

Dr Eugenia Cronin Consultant in Public Health, Delta Public Health Consulting Ltd, UK

Ms Tara Lamont Senior Adviser, School of Healthcare Enterprise and Innovation, University of Southampton, UK

Dr Catriona McDaid Reader in Trials, Department of Health Sciences, University of York, UK

Professor William McGuire Professor of Child Health, Hull York Medical School, University of York, UK

Professor Geoffrey Meads Emeritus Professor of Wellbeing Research, University of Winchester, UK

Professor James Raftery Professor of Health Technology Assessment, School of Healthcare Enterprise and Innovation, University of Southampton, UK

Dr Rob Riemsma Consultant Advisor, School of Healthcare Enterprise and Innovation, University of Southampton, UK

Professor Helen Roberts Professor of Child Health Research, Child and Adolescent Mental Health, Palliative Care and Paediatrics Unit, Population Policy and Practice Programme, UCL Great Ormond Street Institute of Child Health, London, UK

Professor Jonathan Ross Professor of Sexual Health and HIV, University Hospital Birmingham, UK

Professor Helen Snooks Professor of Health Services Research, Institute of Life Science, College of Medicine, Swansea University, UK

Please visit the website for a list of editors: www.journalslibrary.nihr.ac.uk/about/editors

Editorial contact: journals.library@nihr.ac.uk