



**LONG-TERM CONSEQUENCES OF MATERNAL MENTAL HEALTH  
FOLLOWING PREGNANCY AND CHILDBIRTH COMPLICATIONS**

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**Abstract**

Pregnancy and childbirth complications, such as preterm birth, miscarriage, and hypertensive disorders, pose significant risks to long-term maternal mental health, leading to elevated incidences of depression, anxiety, and PTSD persisting for years postpartum. This thesis synthesizes recent evidence from systematic reviews and cohort studies to examine these enduring effects, highlighting associations with reduced sexual satisfaction, impaired quality of life, and increased healthcare utilization. Utilizing meta-analytic approaches, the analysis reveals pooled odds ratios indicating heightened vulnerability, with interventions like targeted screening proposed to mitigate outcomes. Findings underscore the need for integrated mental health support in obstetric care, demonstrating potential reductions in chronic disorders through early identification and follow-up.

**Keywords:** maternal mental health, pregnancy complications, childbirth complications, postpartum depression, anxiety disorders, PTSD, long-term outcomes, sexual satisfaction, hypertensive disorders, preterm birth

**Introduction**

Complications during pregnancy and delivery, including preterm birth, gestational diabetes, and hypertensive disorders, not only impact immediate maternal and neonatal health but also exert profound long-term effects on maternal psychological well-being. Emerging research indicates that these events can trigger chronic mental health issues, such as persistent depression and anxiety, which may extend beyond the postpartum period into years of motherhood. Unlike acute responses, these long-term consequences can affect maternal role attainment, interpersonal relationships, and overall life satisfaction. This thesis reviews contemporary studies to elucidate the mechanisms linking obstetric complications to enduring mental health challenges, emphasizing the role of trauma and physiological stress. The aim is to outline evidence-



based strategies for prevention and management, addressing gaps in current obstetric protocols.

### **Materials and Methods**

This thesis is based on a systematic synthesis of peer-reviewed literature published between 2020 and 2025, sourced from databases like PubMed and DOI-linked journals. Inclusion criteria focused on studies examining long-term ( $\geq 1$  year postpartum) mental health outcomes in mothers exposed to pregnancy or birth complications, excluding those solely on child or paternal effects. Key search terms included "long-term maternal mental health," "pregnancy complications," and "postpartum psychological outcomes." Data extraction involved qualitative and quantitative metrics, such as odds ratios from meta-analyses and correlation coefficients from cohort studies. Statistical pooling used random-effects models for heterogeneity assessment, with quality appraisal via the Newcastle-Ottawa Scale. Ethical considerations prioritized studies with informed consent and data privacy compliance.

### **Results and Discussion**

Meta-analyses revealed that miscarriage and termination of pregnancy significantly elevate long-term depression (pooled aOR 1.97, 95% CI 1.38-2.82) and anxiety (pooled aOR 1.24, 95% CI 1.11-1.39), with preterm birth similarly associated with depression (pooled aOR 1.37, 95% CI 1.32-1.42). Hypertensive disorders and gestational diabetes were linked to increased PPD risk, with potential extensions to anxiety and PTSD, though evidence for the latter remains inconsistent. Prospective cohorts showed negative childbirth experiences correlating with poorer mental health ( $r = .17$ ,  $p < .001$ ) and sexual satisfaction ( $r = .31$ ,  $p < .001$ ) at 4 years postpartum, independent of sociodemographic factors. Discussion interprets these as stemming from unresolved trauma and hormonal disruptions, contrasting with weaker links in non-complicated pregnancies. Limitations include study heterogeneity and underrepresentation of diverse populations, suggesting broader implications for healthcare disparities.

### **Conclusion and Recommendations**

Obstetric complications profoundly influence long-term maternal mental health, necessitating proactive interventions to curb chronic disorders. The evidence supports enhanced screening for at-risk mothers to prevent escalation into severe outcomes. Recommendations include: (1) Implementing routine mental health assessments extending to 5 years postpartum; (2) Developing multidisciplinary care models integrating obstetrics and psychology; (3) Advocating for policy reforms to fund



extended follow-up programs; (4) Conducting longitudinal studies in underrepresented groups; (5) Promoting education on complication-related trauma to empower maternal resilience.

### **References**

1. Bodunde, E. O., et al. (2025). Pregnancy and birth complications and long-term maternal mental health outcomes: A systematic review and meta-analysis. *BJOG: An International Journal of Obstetrics & Gynaecology*, 132(2), 131-142. <https://doi.org/10.1111/1471-0528.17889>
2. Dubey, P., Dwivedi, A. K., Sharma, K., Martin, S. L., Thompson, P. M., & Reddy, S. Y. (2025). Associations of mental disorders with maternal health outcomes. *Communications Medicine*, 5, Article 350. <https://doi.org/10.1038/s43856-025-01062-8>
3. Nahae, J., Rezaie, M., Abdoli, E., Mirghafourvand, M., Ghanbari-Homaie, S., & Jafarzadeh, M. (2024). Association of childbirth experience with long-term psychological outcomes: A prospective cohort study. *Reproductive Health*, 21(1), Article 71. <https://doi.org/10.1186/s12978-024-01819-9>
4. Roberts, L. M., et al. (2025). Pregnancy disorders and maternal consequences: Postpartum mental health after medically complicated pregnancy. *Reproduction*, 170(5), e250092. <https://doi.org/10.1530/REP-25-0092>
5. Walker, A. L., Peters, P. H., de Rooij, S. R., Henrichs, J., Witteveen, A. B., Verhoeven, C. J. M., Vrijkotte, T. G. M., & de Jonge, A. (2020). The long-term impact of maternal anxiety and depression postpartum and in early childhood on child and paternal mental health at 11–12 years follow-up. *Frontiers in Psychiatry*, 11, Article 562237. <https://doi.org/10.3389/fpsy.2020.562237>