Interpersonal violence during pregnancy partially mediates the association between Adverse Childhood Experiences and postpartum depression (ND PRAMS 2017-2020)

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Research Question

Does IPV surrounding pregnancy mediate the association between ACEs and PPD?

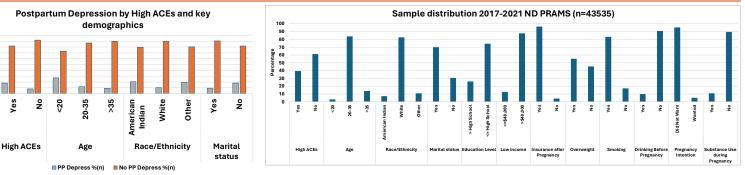
Background

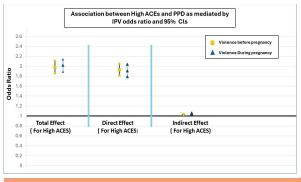
- -Postpartum depression (PPD) is a significant public health issue, impacting approximately 1 in 8 women across the United States.
- -Both IPV and ACES have been linked to adverse physical and mental health problems.
- -ACES also increases risk for IPV
- -However, little data regarding the relationship between ACEs, IPV, and PPD exist

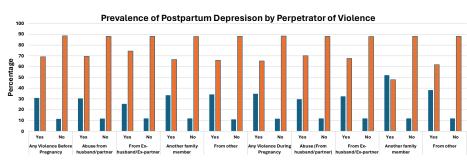
Methodology

- The sample includes women (weighted n = 43535) from the North Dakota Pregnancy Risk Assessment Monitoring System (2017-2020)
- PPD was self-reported to two questions regarding recent hopelessness and recent displeasure. Subjects identified as having PPD if they answered 'Yes' to either question.
- Participants self-reported yes/no to 10 Adverse childhood experiences regarding abuse, household challenges, and neglect. Those with >= 2 ACEs were identified as 'High ACEs'
- PROC CAUSALMED estimated odds ratio mediation effects and 95% confidence intervals to examine IPV as a potential mediator between ACEs and PPD.
- -All models were adjusted for maternal demographic and health factors and weighted for complex survey design.

Results







Discussion

- ACEs strongly predict PPD, yet IPV during pregnancy explains 10% of the effect of ACEs on PPD
- Interpersonal violence plays a meaningful role in the association between ACES and PPD
- Screening for ACEs and IPV in family planning and prenatal visits
- Case management-type services may be appropriate; need to identify at-risk people early on, and link them with services

Acknowledgments

This project was supported by funding from the North Dakota Department of Health and Human Services. For more information contact Nishat Sultana at

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