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No relationships to disclose.

Smoking During Pregnancy

- Smoking during pregnancy is a risk factor for poor birth
 - Low birth weight
 - Preterm births
- Smoking is also associated with pregnancy complications²:
 Placenta previa

 - Placental abruption
 Premature rupture of membranes

Stress During Pregnancy

- Studies of the association between stress during pregnancy and poor birth outcomes have been inconclusive.
 - Recent prospective studies appear to indicate a weak association between stress and preterm birth.³

Life Events During Pregnancy

- Major life events such as:
 - · Death in the family

 - Loss of a job
- Life events that occur during the perinatal period may increase maternal stress levels and complicate her attempts to quit

Objective

 Investigate whether stressful life events were associated with smoking during pregnancy.

Methods

- Data were obtained from a stratified random sample of 10,898 mothers who delivered live infants during the years 2001-2007 and completed the Maryland Pregnancy Risk Assessment Monitoring System (PRAMS) survey. Respondents were surveyed 2 to 9 months following delivery. The average response rate was 71%.
- - Results are reported with a 95% confidence interval. Percentages based on fewer than 10 responses are not displayed.
 - Reputs reported by race are for White non-Hispanic and Black non-Hispanic. Cell sizes were too small to present other race/ethnicities.

Methods

- Smoking during pregnancy was based on the number of cigarettes smoked daily during the last 3 months of pregnancy. The survey question was:
 - In the last 3 months of your pregnancy, how many cigarettes did you smoke on an average day? (a pack has 20 cigarettes).

Methods

- Stressful life events during pregnancy were based on
 responses to:

 This question is about things that may have happened during
 the 12 months before your new baby was born.

 A close family member was very sick and had to go into the hospital
 I got separated or divorced from my husband or partner
 I moved to a new address
 I was homeless
 My husband or partner lost his job
 I lost my job even though I wanted to go on working
 I argued with my husband or partner more than usual
 My husband or partner said he didn't want me to be pregnant
 I had a lot of bills I couldn't pay
 I was in a physical fight
 My husband or partner or I went to jail
 Someone very close to me had a bad problem with drinking or
 drugs

 - ugs meone very close to me died















Limitations

- PRAMS data are retrospective and therefore subject to recall bias.
 Survey data are based on the mother's perception of events and may not be completely accurate.
- Studies have shown that surveys of maternal smoking may underestimate the prevalence of smoking during pregnancy by a significant amount, due to factors related to social desirability.^{4,5}
- There is variation in the severity of the stressful life events that were surveyed.



Conclusions

- Smoking during pregnancy is associated with increased stressful life events during the perinatal period.
- Black heavier smokers were more likely to experience multiple stressful events than White heavier smokers.

Conclusions

- Smoking during pregnancy is associated with increased stressful life events during the perinatal period.
- Black heavier smokers were more likely to experience multiple stressful events than White heavier smokers.
- Knowledge about the multiple serious difficulties facing pregnant women that smoke may affect the design of smoking cessation programs.

References

- maternal smowing during pregnancy in the United States. Matern Child Heatth J 2003/7219-27. C. The health consequences of smoking: a report of the Surgeon General. Atlanta, GA: US Department of Health and Human Services. CCO: 2004. titute of Medicine, Board on Health Sciences Policy. Preterm Birth: Causes, Consequences, and Prevention. Behman, RE, Butler, AS, eds. Washington, D.C.: The National Academies Press, 2007.
- 2007. Dukic VM, Nessner M, et al. Calibrating self-reported measures of maternal smoking in pregnancy-via bioassays using a Monte Carlo approach. Int J Environ Res Public Health 2009, 6:1744-58 Pama K, Rahu M, et al. Self-reported and serum cotinine-validated smoking in pregnant women in Estona. Matern Child Health J 2009, 9:356-92.

Acknowledgements

from the Centers for Disease Control and Prevention (CDC), Pregnancy Risk Assessment Monitoring System (PRAMS). The Maryland PRAMS Project would like to acknowledge the CDC PRAMS Team for their assistance, guidance and support.

PRA

MARYLAND

Pregnancy Risk Assessment Monitoring System

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