

Whitney P. Witt, PhD, MPH (1) The following personal financial relationships with commercial interests relevant to this presentation existed during the past 12 months: No relationships to disclose

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Overview Background and Significance Aim and Hypotheses Methods Results Conclusions Next Steps

BACKGROUND AND SIGNIFICANCE

Background Mental health problems disproportionately affect women Inconsistent reports on the prevalence and risk factors of poor antepartum mental health

Significance

- Poor mental health during pregnancy has been associated with adverse birth outcomes
- □ Additional research is needed to:
 - 1) estimate the national prevalence of antepartum mental health problems
 - 2) identify risk factors

AIMS AND HYPOTHESES

Aim of the Present Study

- □ To identify the socio-demographic, health, and mental health-related risk factors associated with antepartum mental health problems
- □ Estimate prevalence

Hypotheses

- □ Pregnant women with mental health problems are more likely to be/have:
- □ Without a partner
- □ Living in poverty
- □ Health problems
- □ History of mental health problems

compared to pregnant women without mental health problems

METHODS

Sample and Data Source

- 2,935 pregnant women from eleven panels of the 1996-2006 Pregnancy Detail Files of the Medical Expenditure Panel Survey (MEPS)
- □ Data were collected from each household at 5 interviews over the 2-year panel

Dependent Variable: Poor Antepartum Mental Health

 Poor antepartum mental health was defined as a self-report of depression or anxiety, or an overall mental health rating of "fair" or "poor" on a 5-point scale during pregnancy

Independent Variables

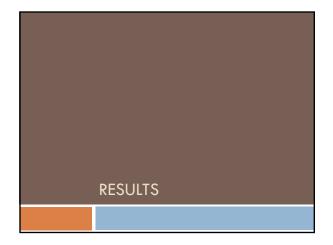
- □ Maternal and family socio-demographics
 - Age, race/ethnicity, education, marital/partner status, # of work hours per week, health insurance, family poverty threshold, household composition, region of US, and MSA
- □ Health-related risk factors
 - Physical health status, smoking status, pre-pregnancy BMI, chronic and acute medical conditions, substance abuse, and STDs
- □ Mental health-related risk factors
 - □ Pre-pregnancy mental health ("history")

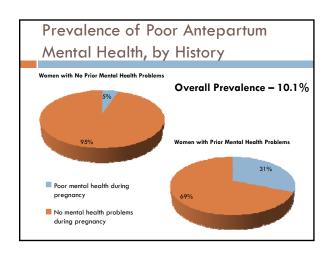
Analytic Approach

- □ Stratified analyses by history of poor mental health
 - due to the high correlation between history of mental health problems and antepartum mental health
- □ Chi-squared analyses

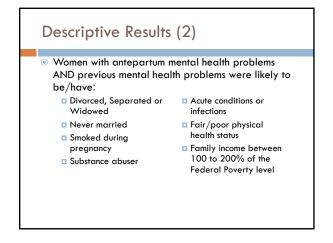
Analytic Approach

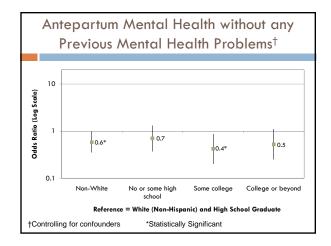
- □ Multivariate logistic regression
 - □ Included regardless of significance: age, race/ethnicity, marital status, education, income, health status, and mental health history (based on the literature)
 - Remaining variables were included if they were statistically significant or changed the point estimate of key predictors by 10% or more
 - Sensitivity analyses on smoking and BMI

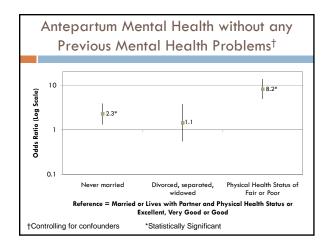


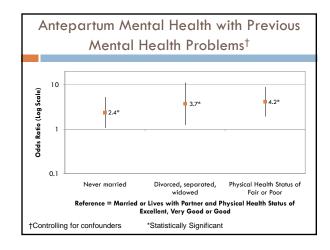


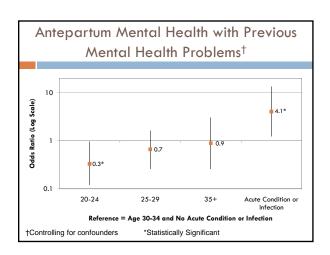
Descriptive Results Women with antepartum mental health problems but no previous mental health problems were likely to be/have: ■ Less educated 1 pregnancy during the MEPS ■ Never married □ One child (age 5-17) □ Chronic Medical condition □ Family income below 100% of the Federal □ Fair/poor physical Poverty level health status □ Publicly funded insurance

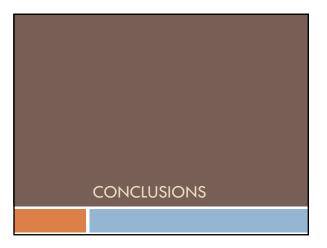












Conclusions

- As hypothesized, certain subgroups of pregnant women were more likely to report poor mental health
- Regardless of history of poor mental health, never having been married is a risk factor for poor antepartum mental health
- For women with a history of poor mental health, there was a very strong association between being divorced or separated and reporting poor mental health during pregnancy
 - no such association was found among women without a history of poor mental health

Implications

- Women with a history of poor mental health are at greater risk for poor antepartum mental health, and lack of social support increases this risk
 - These women in particular should be targeted for mental health screening before pregnancy
- Women in poor physical health, or those with an acute condition or infection, are more likely to experience poor antepartum mental health
 - · Prenatal care and screening

Limitations

- Symptoms were not assessed and various factors may affect a woman's self-assessment and disclosure of mental health status
- □ No data on quality of social support

NEXT STEPS

Next Steps

- Examine the associations between poor antepartum mental health and:
 - pregnancy complications
 - · birth weight
 - · postpartum mental health
 - health care expenditures

Thanks!

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