

Mother's Previous Birth Experience, Behavior during Pregnancy and Having Premature Birth: An Analysis of South Carolina PRAMS Survey, 2004-2013

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Introduction

- In 2016, 1 in 9 babies (11.1% of live births) was born preterm in South Carolina (SC).
- Mothers' behavior during pregnancy, previous birth experience, and neighborhood factors greatly influence birth outcomes.

Objectives

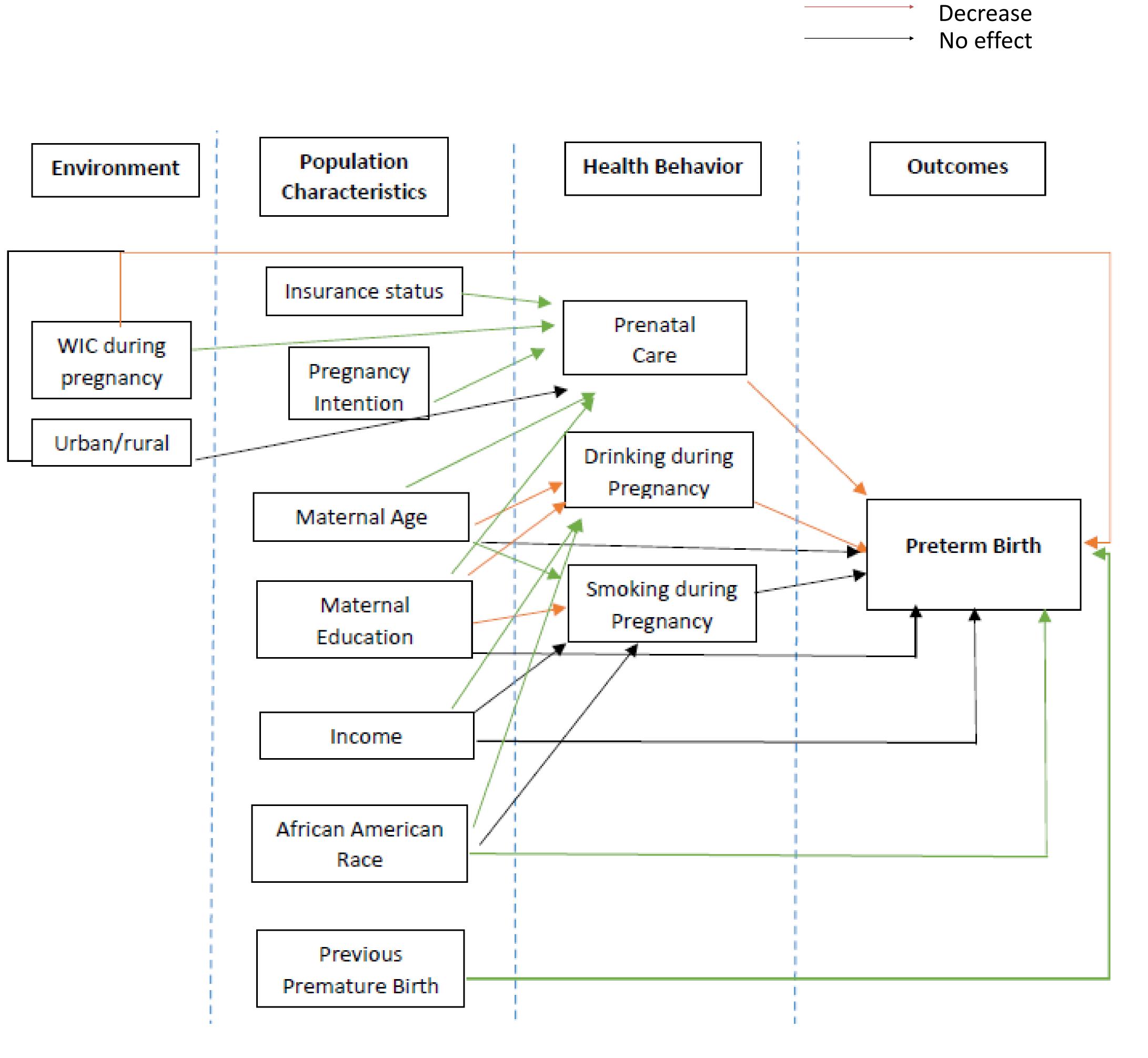
- ■To assess the factors affecting premature birth in SC.
- To explore the policy implications of study findings.

Methods

- ■SC Pregnancy Risk Assessment Monitoring System (PRAMS), 2004 through 2013 pooled data.
- Premature birth: <37 weeks of gestation
- Sample size: 12, 426 (weighted 550, 742) women who gave live birth in that year.
- ■Generalized Structural Equation Model (GSEM) using STATA 14.2.

Conceptual Framework and Findings

Andersen health care utilization model:



Results

- ***** Factors of Premature Birth in SC
- Previous premature birth:

AOR = 3.0 (2.3-3.9)

Increase

High blood pressure:

AOR=2.5(2.0-3.2)

African American vs. White:

AOR = 1.5 (1.2-1.8)

Insured before pregnancy:

AOR = 1.3 (1.1-1.5)

Adequate vs. Inadequate ANC:

AOR = 0.3 (0.2-0.4)

Drinking during pregnancy:

AOR = 0.5 (0.4-0.8)

■WIC vs. non-WIC: AOR=0.8 (0.6-0.9)

Conclusions

- •WIC during pregnancy helps mothers to avail prenatal care as well as decreases chance of having premature birth.
- Having insurance has an indirect negative effect on premature birth.
- •African American mothers should be given priority in pregnancy and childbirth related policy making.

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