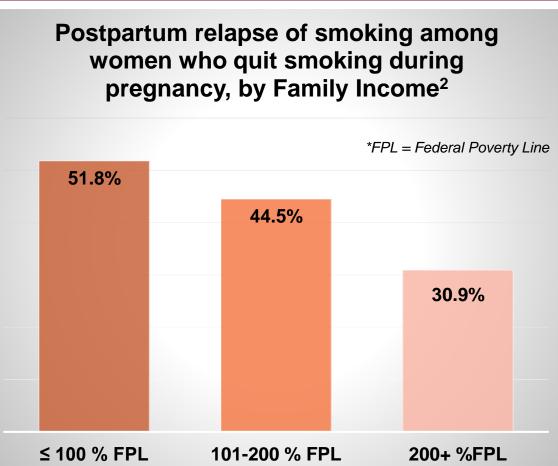


Postpartum Smoking Cessation and Its Related Factors Ashley M. Jones MSN-RN, CLC, CTTS¹; Carol Shieh, DNSc, MPH, RNC-OB¹; Lisa K. Staten, PhD²; Lisa Carter-Harris, PhD, APRN, ANP-C¹; Deborah Stiffler, PhD¹; Jon Macy, PhD³

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BACKGROUND AND GOALS



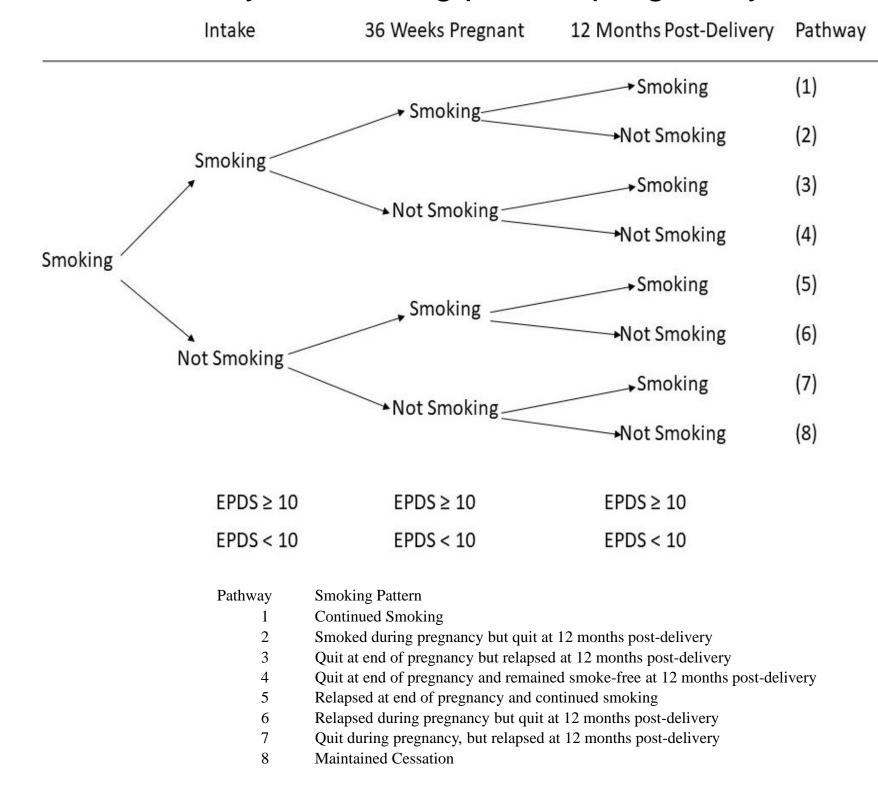
Smoking during and after pregnancy has negative health consequences for a mother who smokes as well as health and development of the child. Previous research has indicated behavioral interventions increase prenatal smoking cessation;¹ smoking relapse during postpartum, however, remains high especially among women with lower incomes.²

Depression is associated with smoking³ and lower levels of self-mastery.⁴ Self-mastery increases enactment of health behaviors.⁵ Little prior research has addressed changes in smoking during pregnancy and postpartum throughout the child's first year of life.

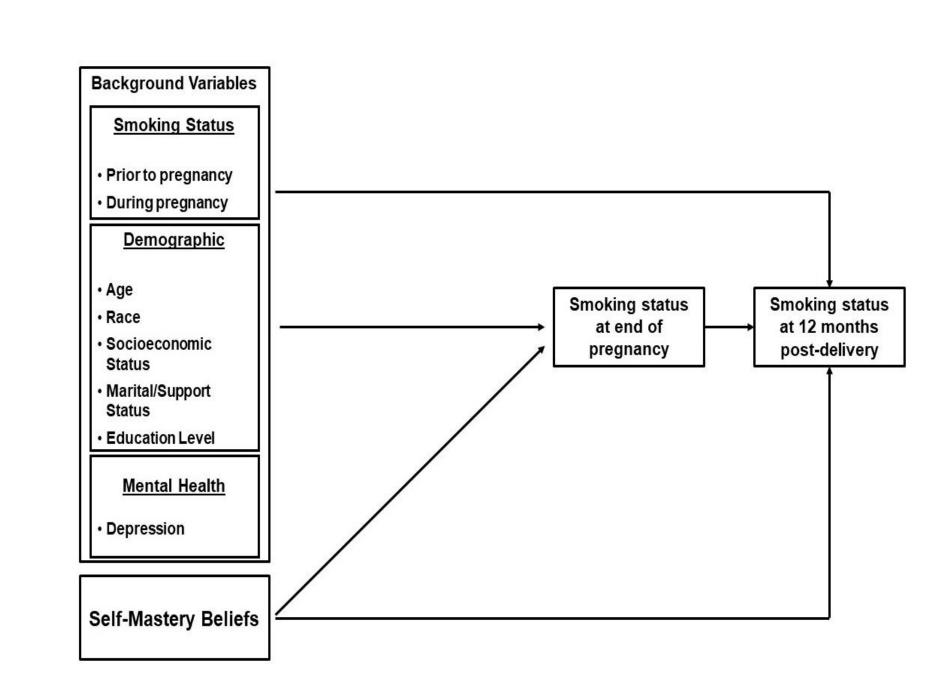
Purpose: This study examines postpartum smoking cessation and its related factors.

AIMS

Examine patterns of smoking status and its correlation with depression throughout pregnancy and up to 12 months postpartum among women with a history of smoking prior to pregnancy.



2. Test whether self-mastery moderates the effects of background variables (demographics, smoking history, and depressive symptoms) assessed at pregnancy intake on smoking status at end of pregnancy and 12 months postdelivery



METHODS

Design:

- Longitudinal Secondary Data Analysis
- Data from a national evidence-based home visitation program, 2010-2016

Inclusion Criteria:

- Singleton Births
- No previous live births
- Enrolled prior to 28 weeks gestation
- Participation in program for at least 12 months after birth
- Income eligibility (e.g. Medicaid eligible)
- Living within a service area

Data Collection and Measures:

(Completed by trained Nurse Home Visitors)

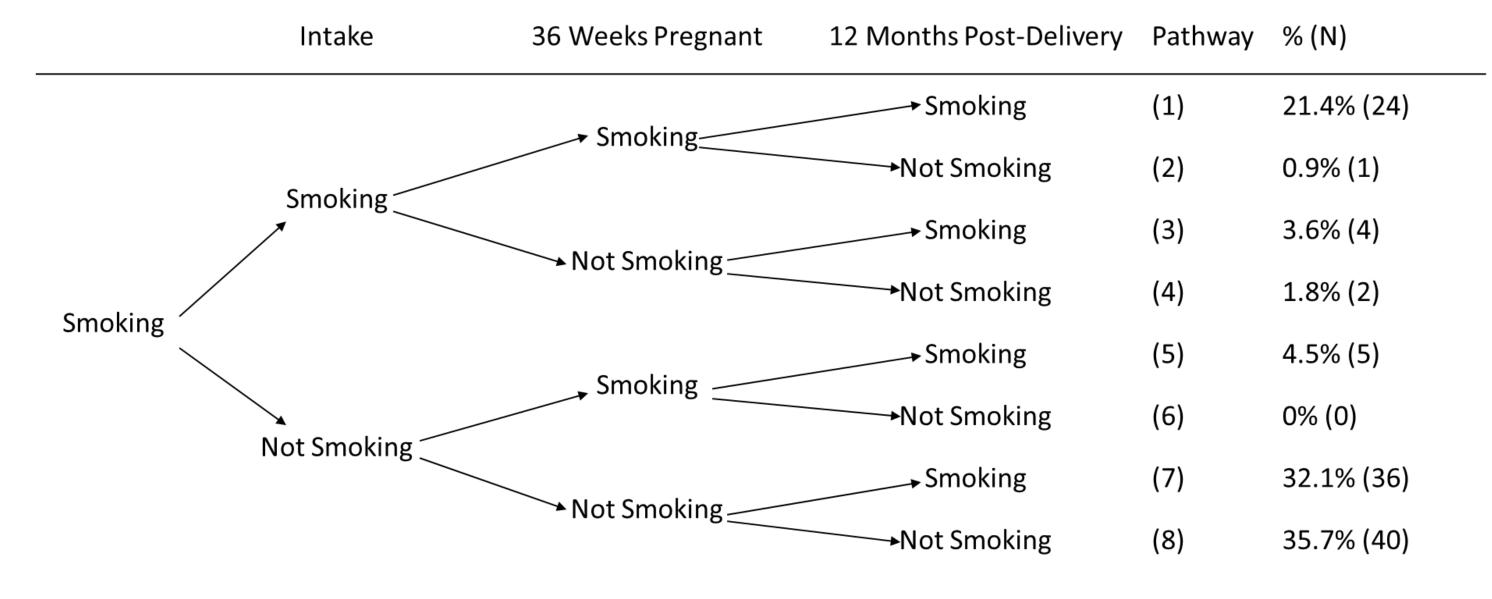
- **Demographics:** Program data forms to collect such data at intake.
- **Smoking:** Number of cigarettes smoked in the previous 48 hours assessed at: (1) program intake (0-28 weeks gestation), (2) 36 weeks gestation, and (3) 12 months post-delivery.
- **Depression:** Edinburgh Postnatal Depression Scale to indicate possible depression. Collected at intake, 36 weeks of gestation and 12 months post-delivery
- Self-mastery: Pearlin Mastery Scale to measure level of mastery, or the belief that a person is in control of life's circumstances. Collected at intake.

Analysis Plan:

- Regression models
- Structural equation modeling
- Correlation and Chi-square tests

PRELIMINARY FINDINGS

Results of this study will identify patterns of smoking relapse (aim #1), and identify predictive factors associated with smoking cessation at the end of pregnancy and at 12 months post-delivery (aim #2). Aim 1 preliminary analysis was completed with a local subset of the national data set (n=112).



Race	N	(%)	Marital Status	N	(%)	Education	N	(%)
White	36	(32.1%)	Single	98	(87.5%)	Completed High School	63	(56.3%)
Black or African American	31	(27.7%)	Married	4	(3.6%)	Completed GED	13	(11.6%)
Other	9	(8.0%)	Separated	3	(2.7%)	Completed Vocational/ Certification Program	1	(0.9%)
Declined to self-identify	36	(32.1%)	Divorced	7	(6.3%)	Did not complete High School	35	(31.3%)
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PRELIMINARY CONCLUSIONS

It is too early in data analysis to draw any conclusions, but this study will provide a foundation for future research regarding development of effective interventions to support smoking cessation and maintenance specific to the population of pregnant and postpartum women, by identifying possible correlations and predictive variables for women being smoke-free postpartum.

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