

Impact of Psychosocial Health on Pregnancy Intention

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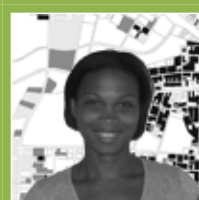
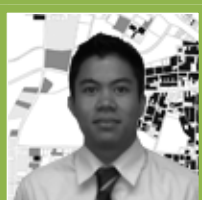
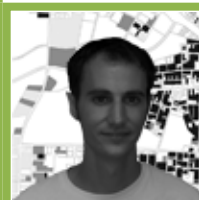
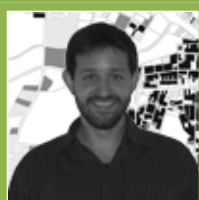


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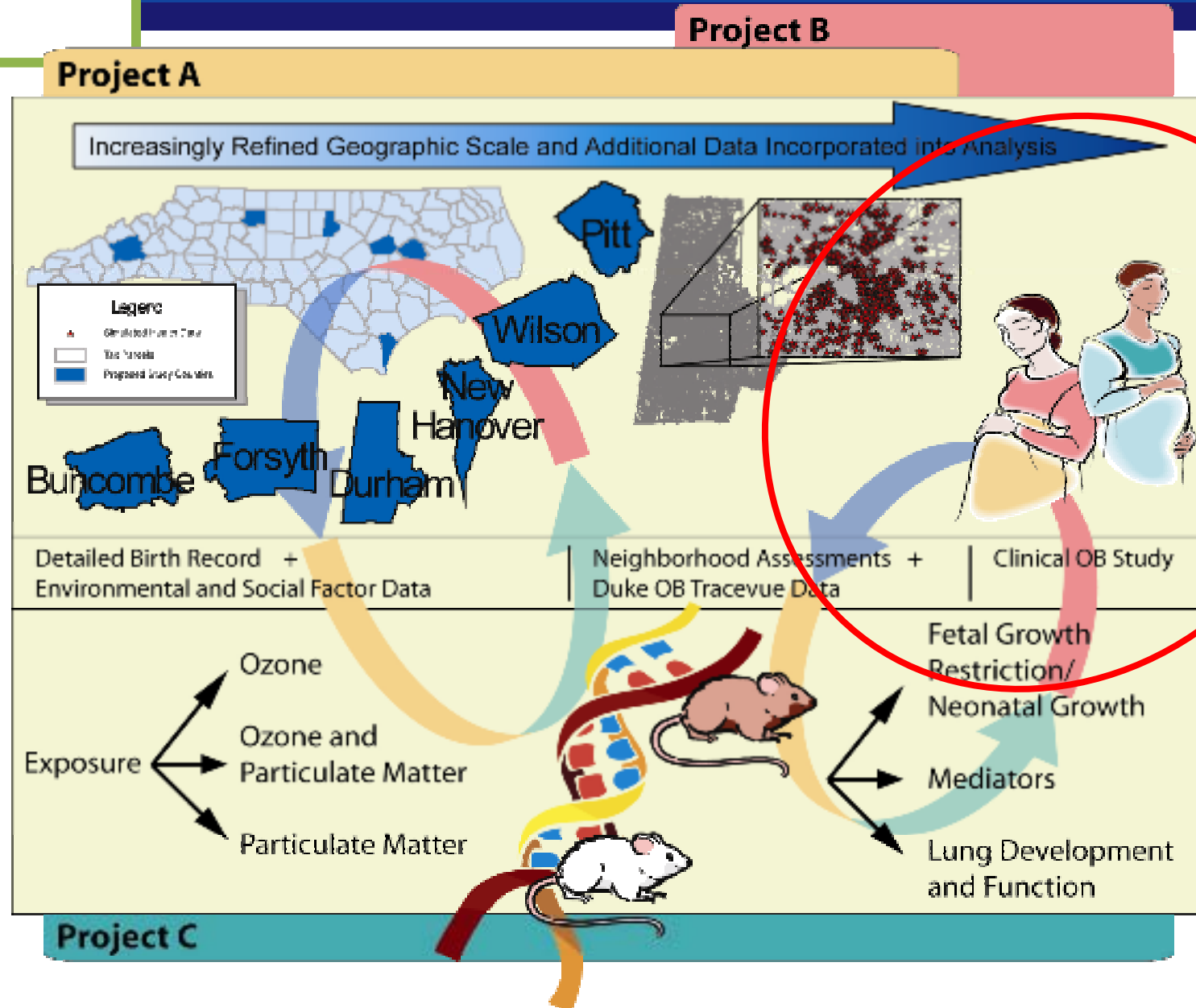


Children's Environmental Health Initiative

A research, education, and outreach program committed to fostering environments where all children can prosper.



Relationships among SCEDDBO Projects



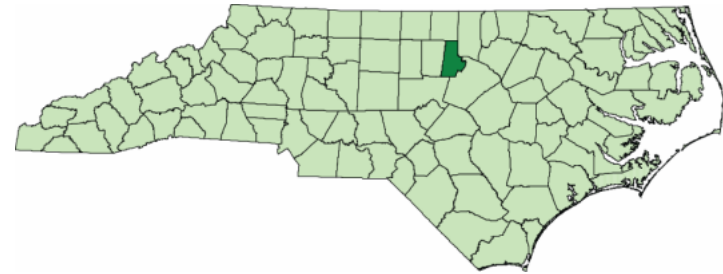


Study Design

- Prospective cohort study of pregnant women in Durham, NC
- Psychosocial assessment through surveys
- Maternal blood draws at 28 weeks (genetics) and at birth (environmental exposures)
- Delivery samples: placental tissue, cord segment, cord blood
- Pregnancy outcomes including:
 - Birth weight
 - Gestation
 - Maternal medical complications



Study Participants

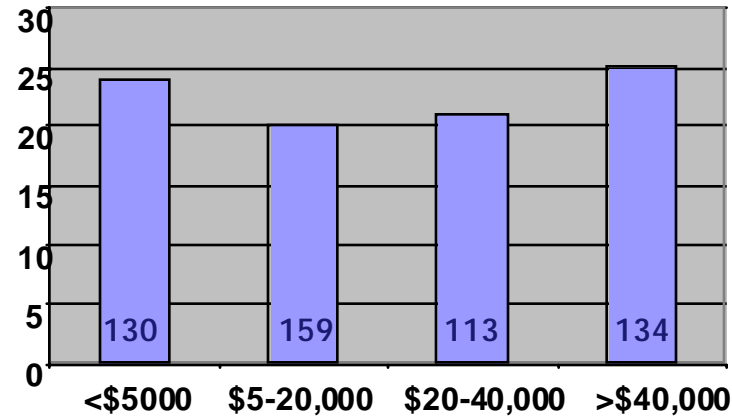


- Over 18 years of age
- Speak/read English
- Must live in Durham County (neighborhood assessment component)
- Singleton gestation, no known congenital abnormalities
- Between 18-28 weeks gestation at recruitment
- Recruitment (current=748; target=1500)
 - Duke OB clinic (409, 121 NHW, 249 NHB, 26 H)
 - Lincoln Community Health Center-Durham County Health Department (339, 20 NHW, 272 NHB, 33 H)

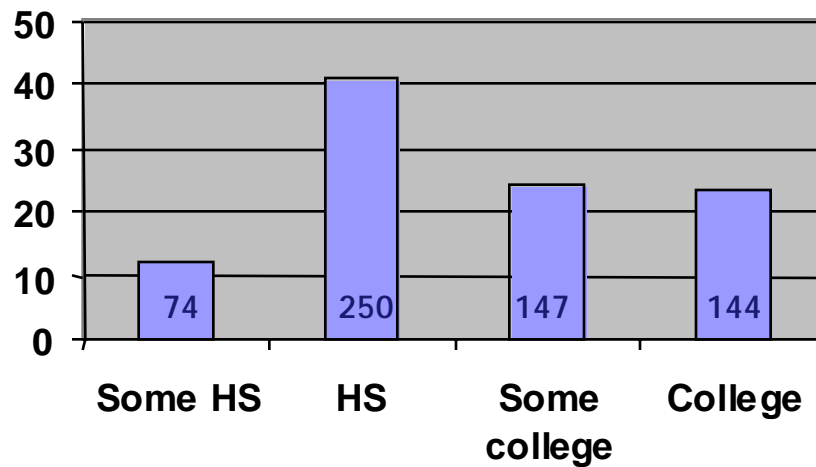


Demographics of Participants

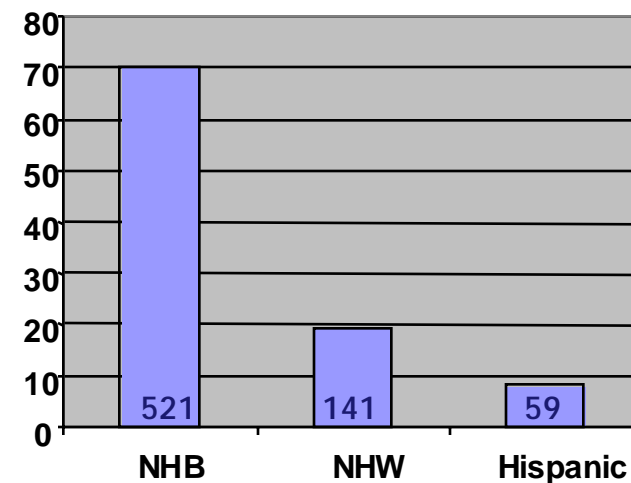
Income (%)



Education (%)



Racial Distribution (%)





Pregnancy Intention Survey Question

• Think back to just before you were pregnant with this child. How did you feel about becoming pregnant?

- I wanted to be pregnant at that time.
- I wanted to be pregnant sooner.
- I wanted to be pregnant later.
- I didn't want to be pregnant at that time or at any time in the future.

Now

Later

Never



Pregnancy Intention Status

- Now
 - N=240
 - 39% of participants
- Later
 - N=260
 - 42% of participants
- Never
 - N=113
 - 19% of participants

61% of the pregnancies are mistimed or unwanted



Psychosocial Instruments

- CES-D

- John Henryism

- ISEL

- Paternal Support

- Self-Efficacy

- Perceived Stress

- NEO



Significant differences across
intention status



Depression (CES-D)

Lowest depressive symptoms

Highest depressive symptoms

Now

Later

Never

$p < .08$

$p < .0001$

$p < .0001$



ISEL- Interpersonal Support

Most support

Least support

Now

Later

Never

$p < .08$

$p < .07$

$p < .01$



Paternal Support

Most support

Least support

Now

Later

Never

$p < .01$

$p < .0001$

$p < .0001$



Self-efficacy

Highest Self-efficacy

Lowest Self-efficacy

Now

Later

Never

$p < .05$

$p < .05$



Perceived Stress

Least perceived stress

Most perceived stress

Now

Later

Never

$p < .09$

$p < .0001$

$p < .0001$



Extraversion- NEO

Most extraverted

Least extraverted

Now

Later

Never

$p < .08$

$p < .07$

$p < .01$



Neuroticism- NEO

Least neurotic

Most neurotic

Now

Later

Never

$p < .001$

$p < .001$

$p < .001$



Personality- NEO

- Openness to Experience
- Agreeableness
- Conscientiousness

Highest

Lowest

Now

Later

Never

Significant

Significant



Maternal Behaviors

- No differences in tobacco usage between intention statuses.
- No differences in alcohol usage between intention statuses.



Pregnancy Outcomes

- Birth weight
- Gestational age at delivery
- Prevalence of gestational diabetes
- Pregnancy related hypertension

Intention	Gestational Age
Never*	37.6 weeks
Later	38.2 weeks
Now	38.4 weeks



Closing points

- Psychosocial indices differ by intention status with “Now” having a healthier psychosocial profile and “Never” having a less healthy psychosocial profile
 - Depression (CES-D)
 - Self-efficacy
 - Interpersonal Support
 - Paternal Support
 - Perceived Stress
 - Personality
- Pregnancy intention is a multifaceted construct.



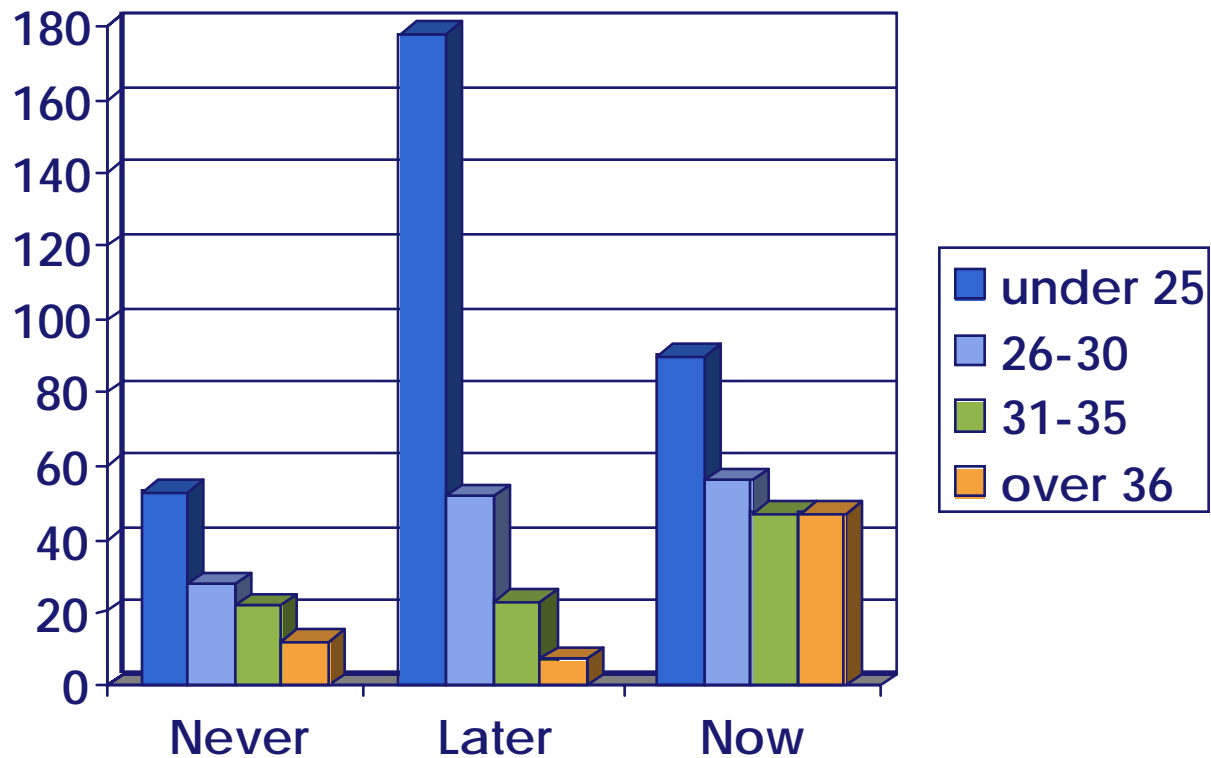
Acknowledgements

- National Institutes of Health
- U.S. Environmental Protection Agency
- Duke University and Medical Center
- Study participants
- Duke University Office of Research Support



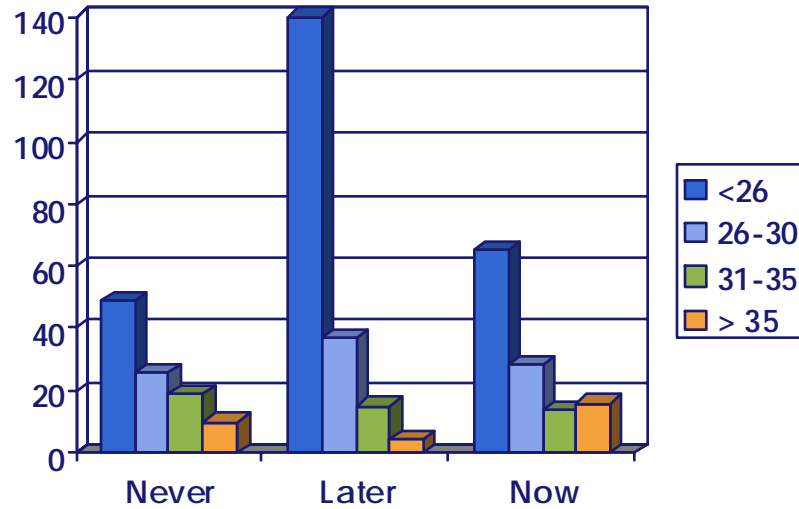


Pregnancy Intention and Maternal Age

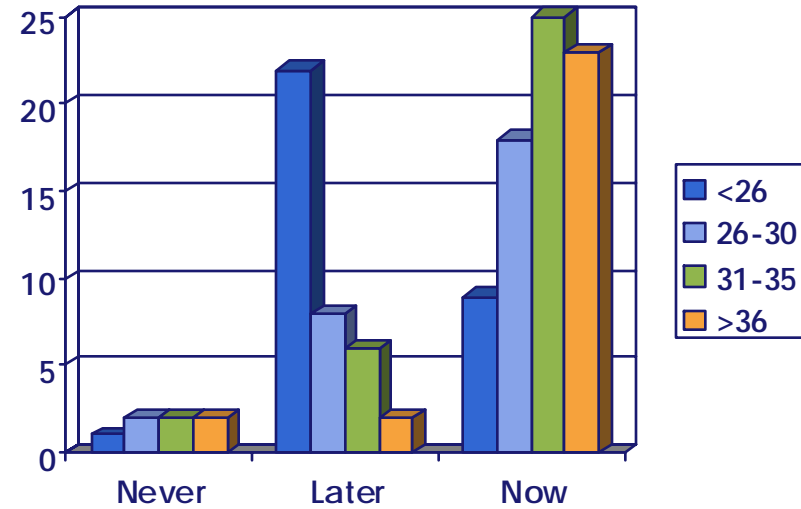




Race by Maternal Age



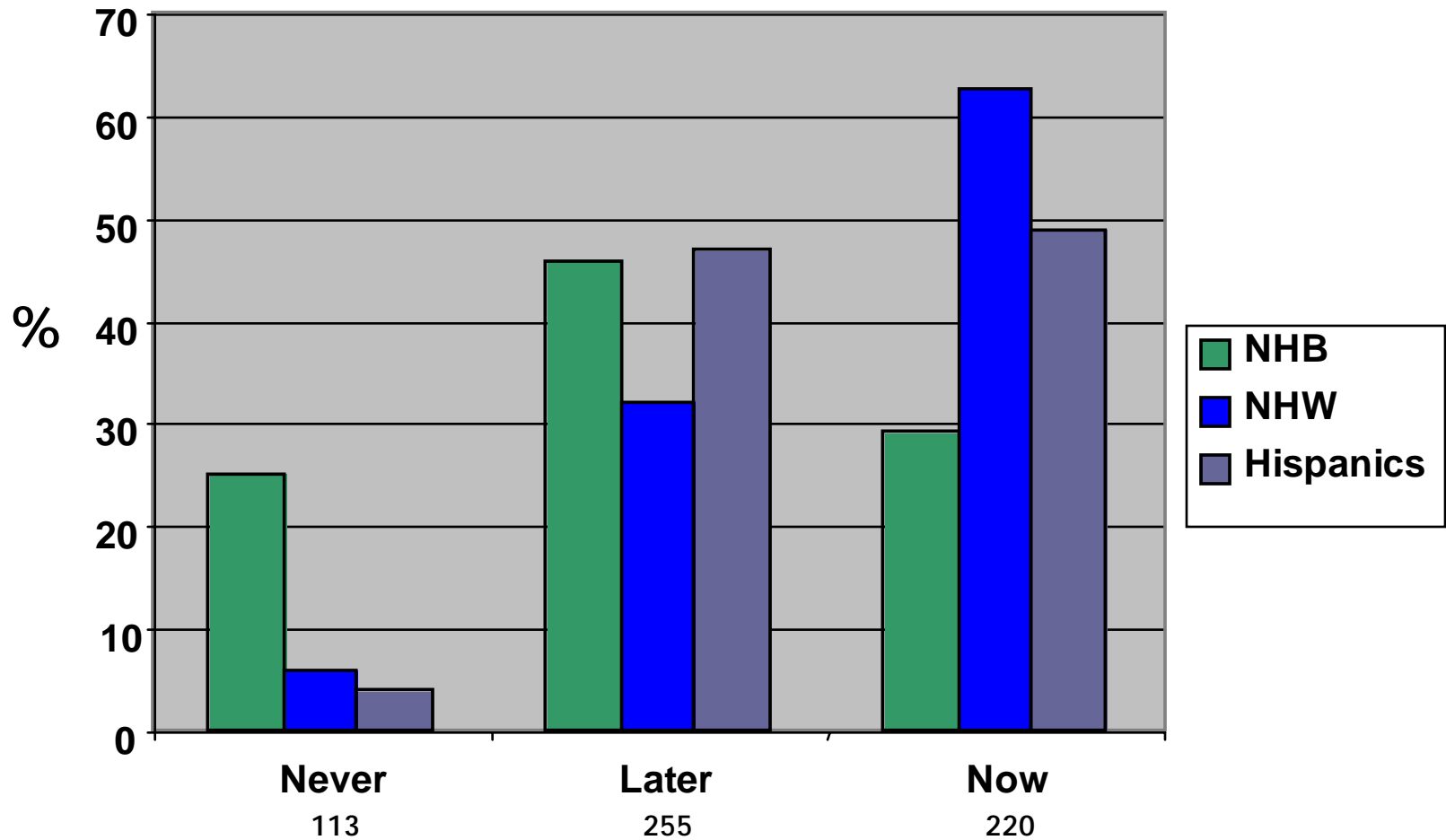
Non-Hispanic Blacks



Non-Hispanic Whites

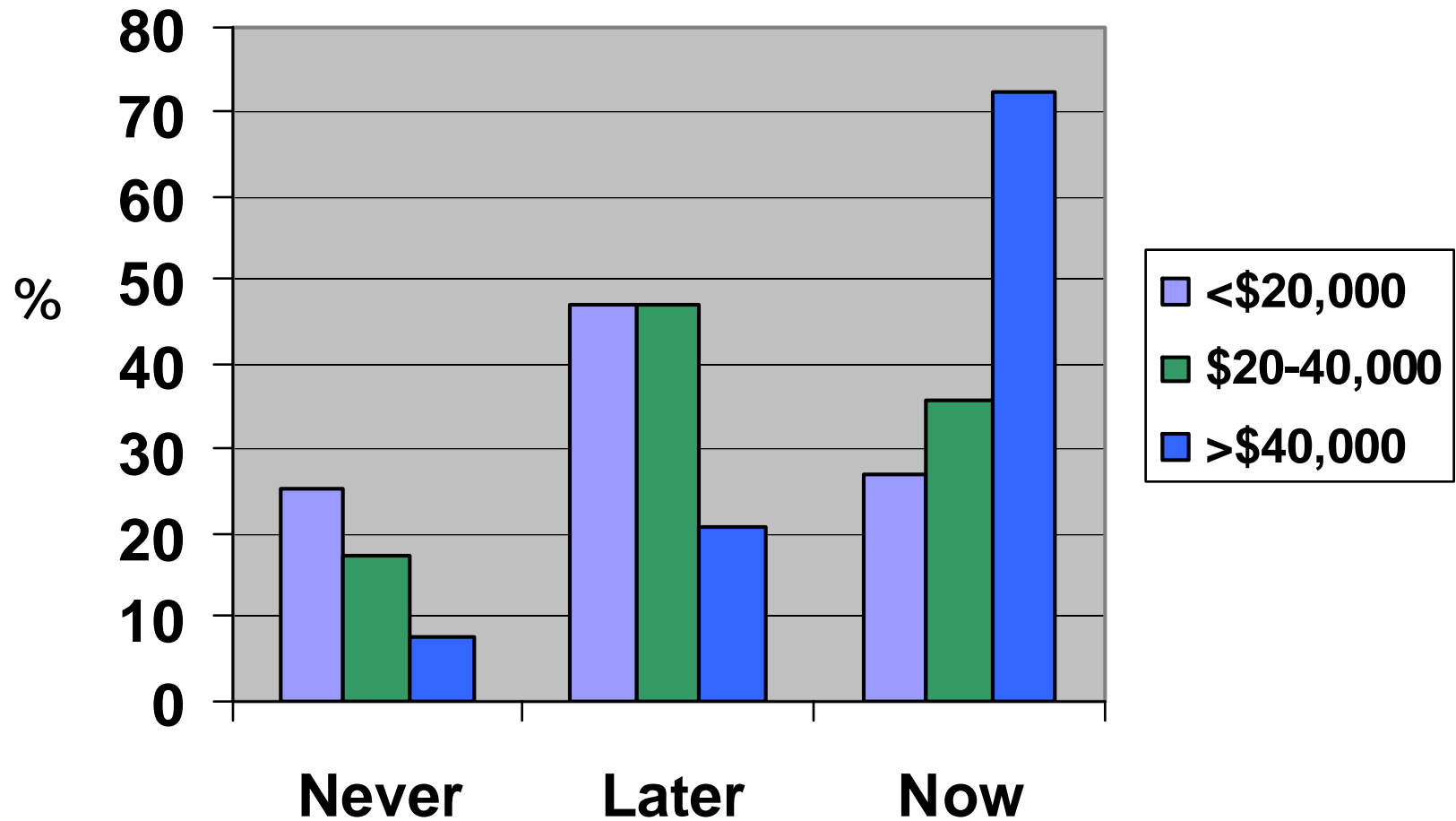


Pregnancy Intention by Race





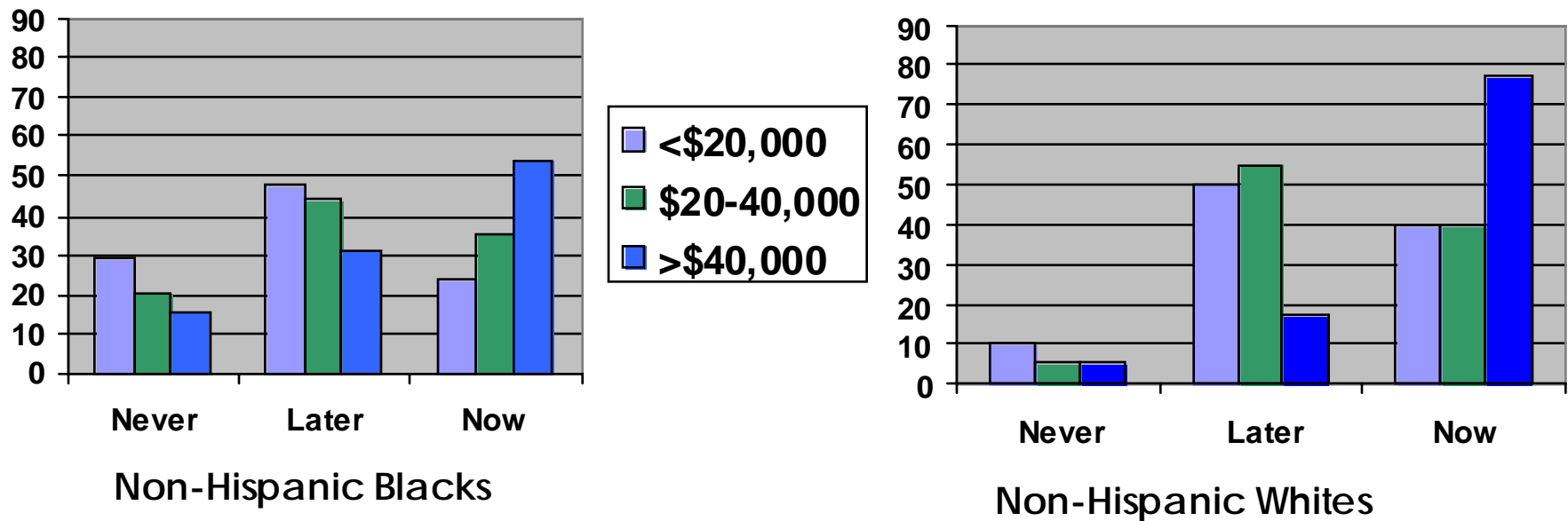
Pregnancy Intention and Income





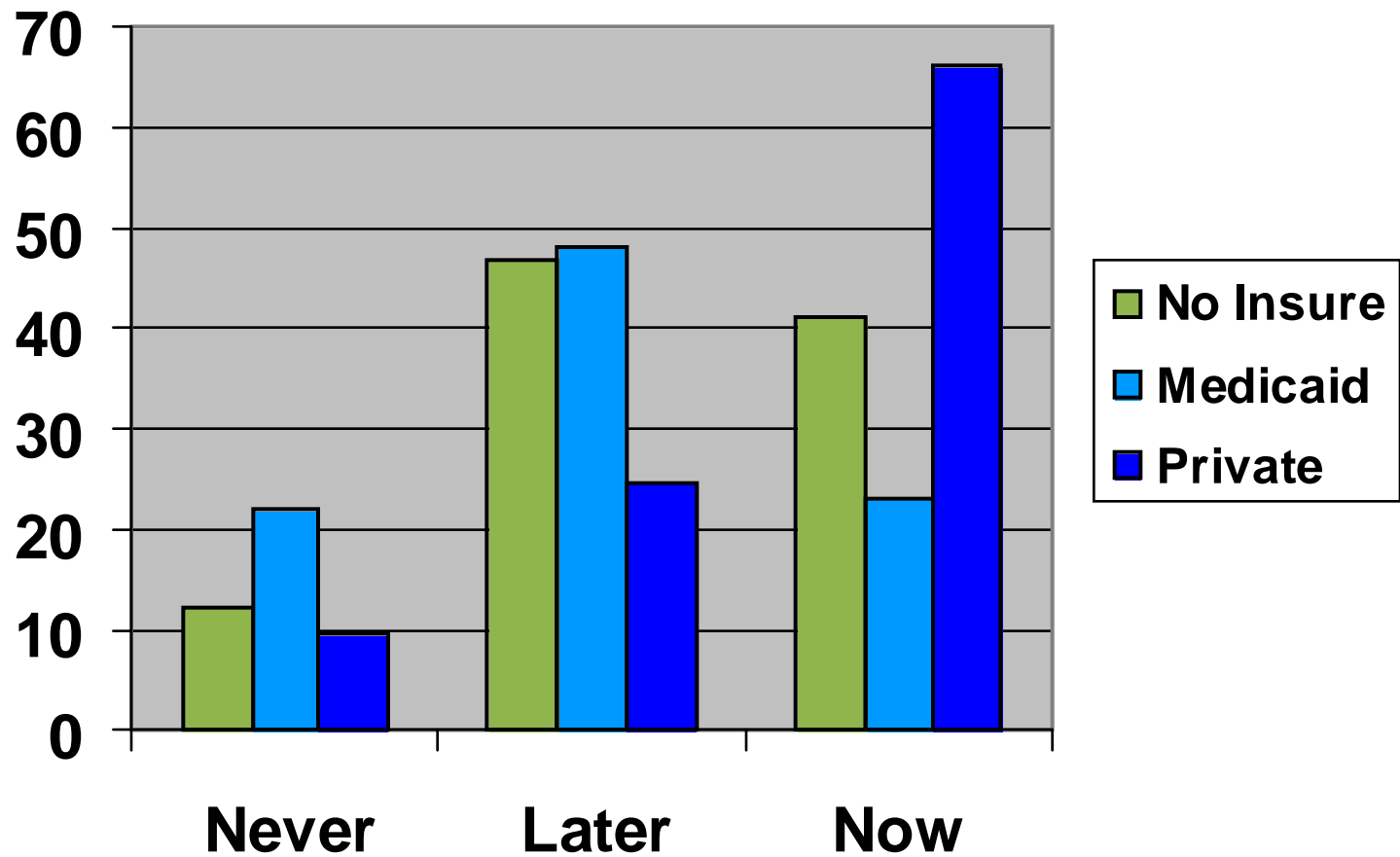
Pregnancy Intention and Income

Non-Hispanic Blacks versus Non-Hispanic Whites





Pregnancy Intention and Insurance





Paternal Relationship

