



Pregnancy Risk Assessment Monitoring System (PRAMS)

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Outline

- Introduction to PRAMS
- Process
- Use of data
- Sharing results
- Conclusion
- Discussion

Introduction

- Maternal and child health in Michigan is of concern
 - Significant racial disparities in low birth weight births, preterm births, early prenatal care, and infant mortality¹
 - Michigan women of childbearing age (18-44 years) have higher rates of obesity and smoking than the U.S. average²
- In order to monitor maternal and child health indicators, CDC implemented Pregnancy Risk Assessment Monitoring System (PRAMS)

1. National Center for Health Statistics, final natality data. Retrieved October 20, 2008 from www.marchofdimes.com/peristats

2. Behavioral Risk Factor Surveillance System, Center for Disease Control and Prevention. Retrieved October 20, 2008 from www.marchofdimes.com/peristats

What is PRAMS?

- A population-based survey of women in Michigan who recently had a live birth
- Purpose is to conduct surveillance on the health and behaviors of women before, during and shortly after pregnancy
- 38 states and New York City participate
- Michigan has been collecting data since 1988

Methods

- Sampling

- Birth certificates are drawn from vital records 2-4 months after delivery
- Stratified by race, geographic region and low birth weight

Selected Sample Stratification Cells

	All LBW	B-NLW	NB-NLW	TOTAL
All Regions	Cell 1			
SE Region		Cell 2	Cell 3	
Other Regions		Cell 4	Cell 5	

Methods

- Sampling allocation is 400 infants from each cell (in 2006)

Corresponding Sampling Rates from 2006

	All LBW	B-NLW	NB-NLW	TOTAL
All Regions	4.4%	4.1%	0.8%	1.6%
SE Region		2.9%	1.0%	
Other Regions		7.2%	0.7%	

- Adjustment is made for non-response
- Strive for a response rate of 70%

Methods

- PRAMTrac- tracks the mailings
 - Preletter } 8-10 days
 - Mail 1 } 7 days
 - Tickler } 10 days
 - Mail 2 } 10 days
 - Mail 3 } 7 days
 - Phone phase } 7 days

Methods

- Telephone interviews are performed with the WebCATI system
 - Contains script for the trained interviewers to read from each screen
 - Allows interviewers to key in respondent's answers and flip through screens quickly

Response Rates

- While the response rate of specific sub-populations are problematic, the overall response rate is very close to our 70% goal
 - USPS address database to locate correct addresses
 - WIC and Medicaid databases
 - Michigan Care Improvement Registry (MCIR)
 - Incentive recently changed to a \$10 Walmart gift card
 - Answering machine message will be standardized to include mentioning the gift card

Use of PRAMS

- Surveillance
 - Monitor changes in health status
 - Measure progress toward improving health
- Research
 - Cross-sectional studies by internal and external researchers
 - External researchers are required to submit a proposal, obtain IRB approval, and sign our data sharing agreement

Data Sharing Agreement

Assures compliance from the PI that

1. The data will only be used for statistical analyses and reporting
2. The data will only be analyzed for the proposed study
3. He/she will not release data to non-collaborators of the research
4. He/she will not try to identify any participants
5. Any products of the research will acknowledge MDCH PRAMS and CDC
6. Once the study is complete, all copies of the data will be destroyed

Use and Sharing

- Inform policy makers, medical professionals, and the public about issues and trends in maternal and infant health
 - PRAMS survey allows us to monitor our progress towards Healthy People 2010 goals
 - Identify specific populations in need
 - Monitor trends for many indicators

Dissemination

- Presentations at national meetings
- Annual Reports
- Quarterly Newsletters
- Fact Sheets
 - Mailed out and also available online

PRAMS Data to Action

- Family Planning Waiver
- Unintended Pregnancy Provider Task Force
- Back to Sleep and Infant Safe Sleep Initiatives by Tomorrow's Child/Michigan SIDS
- Newborn Screening
- HIV counseling and testing

Additional uses

- Qualitative analyses on the comments by PRAMS respondents
- Follow-up surveys using the same sampling frame
- Validity studies
 - PRAMS data, birth certificate data, discharge data
- Quality Assurance
 - OPAL Report

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Discussion