

Healthy Weight and Weight Gain during Pregnancy: Findings from the Los Angeles Mommy and Baby (LAMB) Project, 2005

Yvonne Y Lau, MPH RD, Chandra Higgins, MPH, Shin M Chao, PhD MPH, Marian Eldahaby, BA, Cynthia Harding, MPH

Background

- >Gestational weight gain is associated with pregnancy outcome >High weight gain during pregnancy is associated with maternal weight retention
- >Long-term child outcomes: such as childhood adiposity
- >Increasing rates of obesity among women of reproductive age
- > Higher weight gain among mothers now than in the past





Objectives

- >Appropriate weight gain during pregnancy can improve birth
- >We examined risk factors and racial disparity associated with gaining ideal weight according to the 1990 Institute of Medicine (IOM) recommendations.

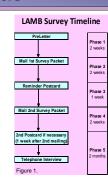
Methods

Participants: Women who recently gave birth in Los Angeles County in 2005

Design: Population-based stratified sampling; over sampling on low birth weight and pre-term births (LBW/PT) as well as African

American, Asian/Pacific Islander, and Native American births

Procedure: LAMB Project followed CDC PRAMS procedures as described in figure 1. Surveys were mailed to participants with telephone follow-up. The survey was administered in English, Spanish, and Chinese with translators available for other languages. To enhance the response rate, all respondents were given a \$20 gift certificate.



9 · · · · · · · · · · · · · · · · · · ·		
Pre-pregnancy BMI	Recommended total weight gain	
Low (<19.8)	28-40 lbs	
Normal (19.8-26.0)	25-35 lbs	
High (26.0-29.0)	15-25 lbs	4000 1014
Obese (>29.0)	15+ lbs	1990 IOM Guidelines

Results

Pre-Pregnancy BMI by Race

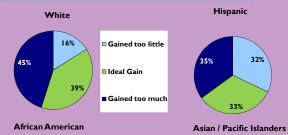






- ✓ Before becoming pregnant, 5% of women were underweight, 51% normal weight, 25% overweight, and 19% obese.
- √Gaining excessive weight is more common among mothers who are overweight/obese (46%) than mothers with normal BMI (34%) or mothers who are underweight (24%).
- ✓ It will be more effective if we encourage weight management for Latina and African American mothers before they get pregnant.
- ✓ More White and African American mothers gained too much weight during pregnancy, and we want to target these women during prenatal visits.

Weight Gain during Pregnancy by Race

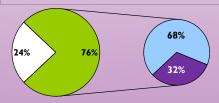






Factors Related to Weight Gain: Doctor's Recommendation

- □ Did not discussed with doctor
- Doctor's recommendation in range
- Recommendation not in range



- √The majority (76%) of women discussed the amount of weight they should gain during their pregnancy with their
- ✓ Among the women who reported their doctors recommended a specific weight gain, only 68% of the recommendations fell into the IOM ranges.
- ✓ Mothers who received recommendations that are not within range are more than two times as likely to fall outside recommended weight gain.
- ✓ Mothers who did not receive recommendations are almost two times as likely to fall outside recommended weight gain.

Conclusions

- ✓Only one in three women adhered to the ideal weight gain recommendations, and compliance varied among racial/ethnic
- ✓ Efforts need to be made to include accurate weight gain recommendations and address cultural concerns in prenatal care visits, particularly for mothers with high body mass index.

Contact Information: schao@ph.lacounty.gov

LAMB website: http://publichealth.lacounty.gov/mch/LAMB/LAMB.html

