

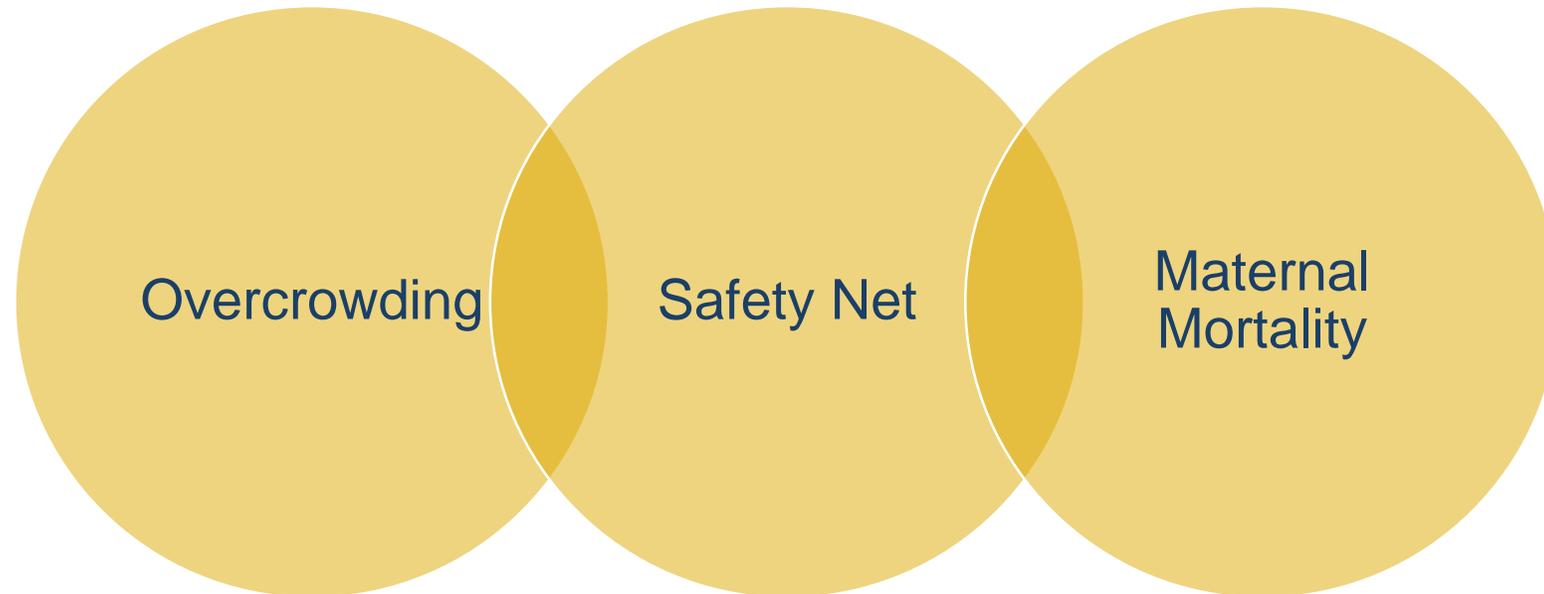
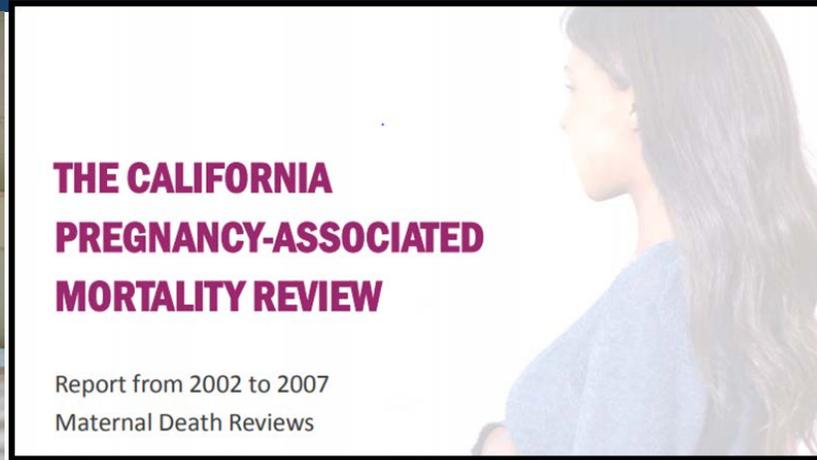
# Emergency Department Use During Pregnancy: Sociodemographic Factors, Health-Related Characteristics, and Health Behaviors

## BETTY IRENE MOORE SCHOOL OF NURSING

Brenda Achelpohl-Chagolla  
RN, MSN, CNS, PhDc



# Problem



# Current Literature

Rates of emergency department use during pregnancy 20% to 49%

## Sociodemographic Factors

- Young Maternal Age
- Region of US
- Single
- Public Insurance

## Health-Related Characteristics

- Asthma
- Obesity
- Hypertension
- Pre-pregnancy Diabetes
- Gestational Diabetes

## Health Behaviors

- Smoking
- Drug use
- Intermediate/Inadequate Prenatal Care
- Delayed Entry into Prenatal Care

# Purpose

To describe individual factors (i.e., sociodemographic factors, health-related characteristics, health behaviors) associated with emergency department use among pregnant women.



# Variables of Interest

## Sociodemographic Factors

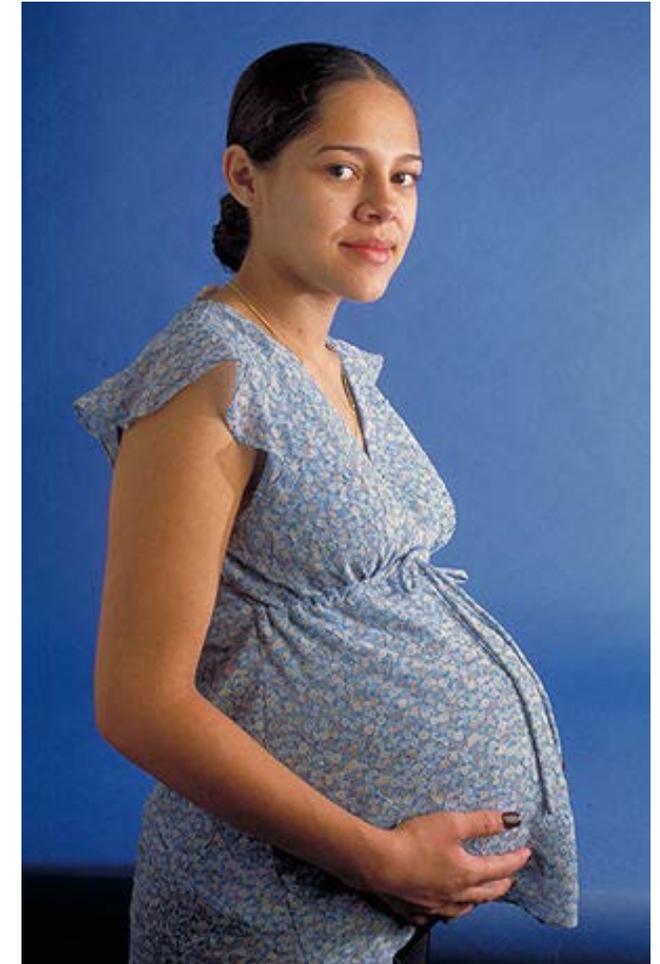
- Maternal Age
- Race/Ethnicity
- Insurance Status
- Marital Status

## Health-Related Characteristics

- Gravity and Parity
- Pre-pregnancy BMI
- Pre-pregnancy Diabetes
- Pre-pregnancy Hypertension

## Health Behaviors

- Smoking Status
- Illicit Drug Use
- Prenatal Care Adequacy



# Methodology

## Setting

- Academic health center in Northern California

## Sample

- Women, age 18 and over
- Live birth from January 2015 thru December 2018

## Data

- Secondary data analysis
  - Electronic Medical Record
  - CMQCC Maternal Data Center

## Analytical Approach

- Descriptive Statistics
- Bivariate Analysis
- Logistic Regression

# Results (N=3,882)

## Sociodemographic Factors

- Maternal Age (Younger)
- Race/Ethnicity (Minority)
- Marital Status (Not Married)
- Insurance Status (Public)

## Health-Related Characteristics

- ~~Gravidity Parity (Higher)~~
- ~~Pre-pregnancy BMI~~
- ~~Pre-pregnancy Diabetes~~
- ~~Pre-pregnancy Hypertension~~

## Health Behaviors

- Smoking Status (Current Smoker)
- Illicit Drug Screening (Positive)
- ~~Prenatal Care Adequacy~~

# Discussion



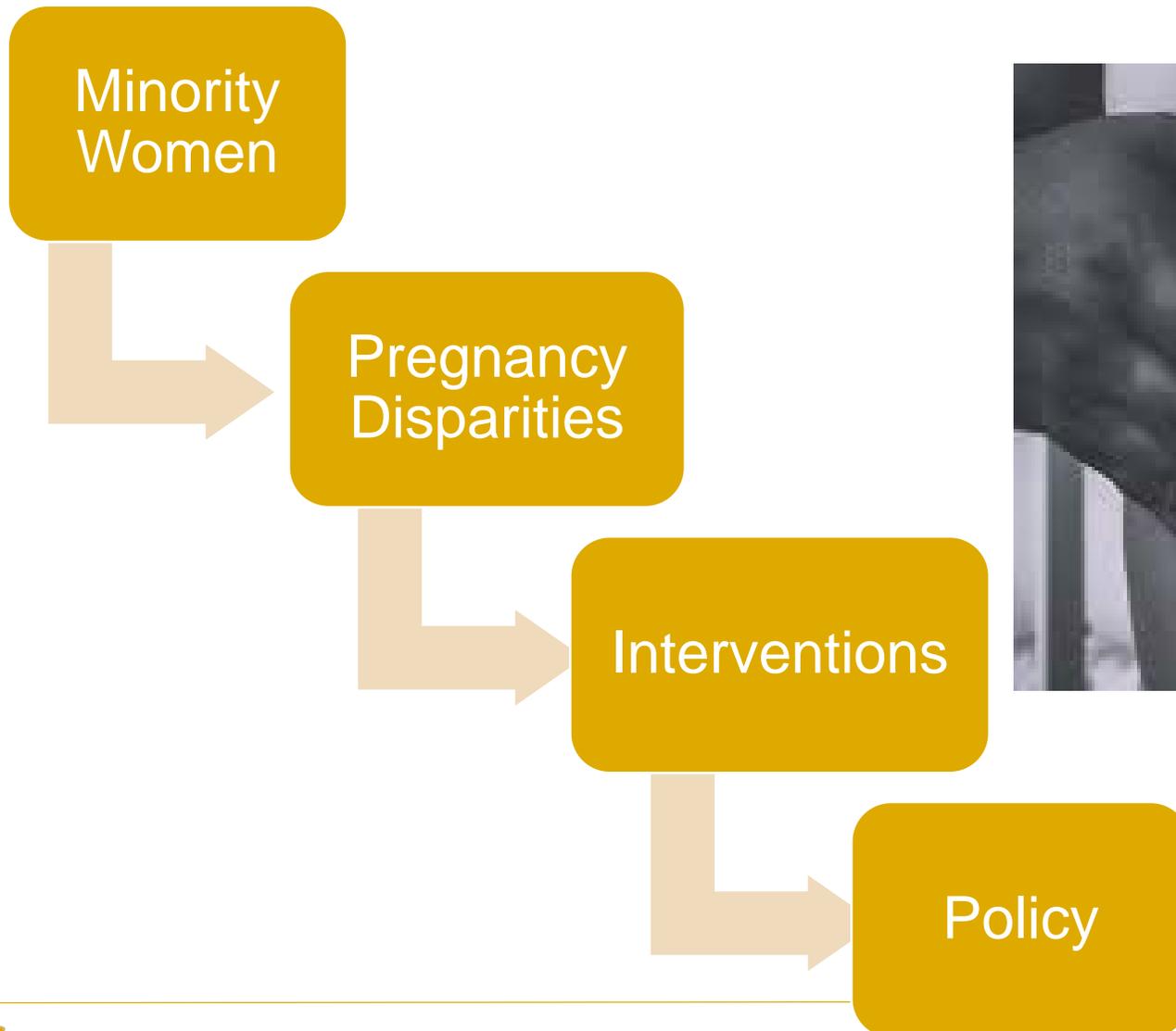
# Discussion-Emergency Department Use

Lower Rate

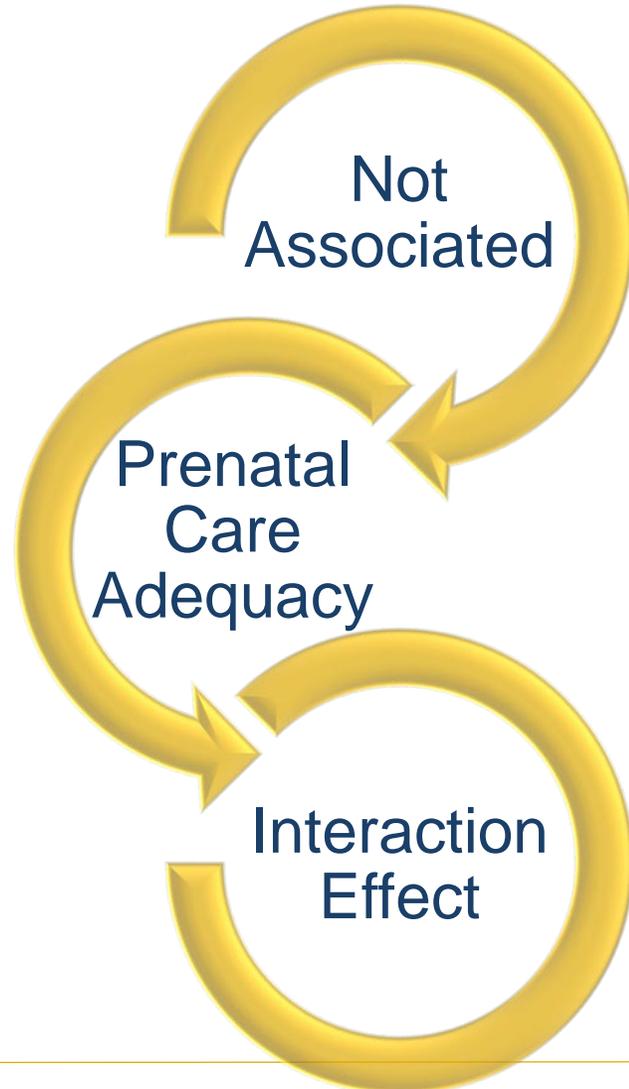
Setting

Patient flow

# Discussion- Race/Ethnicity



# Discussion-Prenatal Care



# Thank you-Family, Friends, Cohort

- Dissertation Committee Members:
  - Jill Joseph, M.D., Ph.D., M.P. H
  - Larissa May, M.D., M.S.P.H., M.S.H.S.
  - Christiana Drake, Ph.D.,
- Qualifying Exam Committee Members:
  - Jill Joseph, M.D., Ph.D., M.P. H
  - Janice Bell, Ph.D., M.P.H., M.N.,
  - Audrey Lyndon, Ph.D., R.N.-C., FAAN
  - Larissa May, M.D., M.S.P.H., M.S.H.S.
  - Christiana Drake, Ph.D.
- Gordon and Betty Moore Foundation





# Questions