

### Overview

Food Insecurity

HealthConsequences

NutritionAssistancePrograms

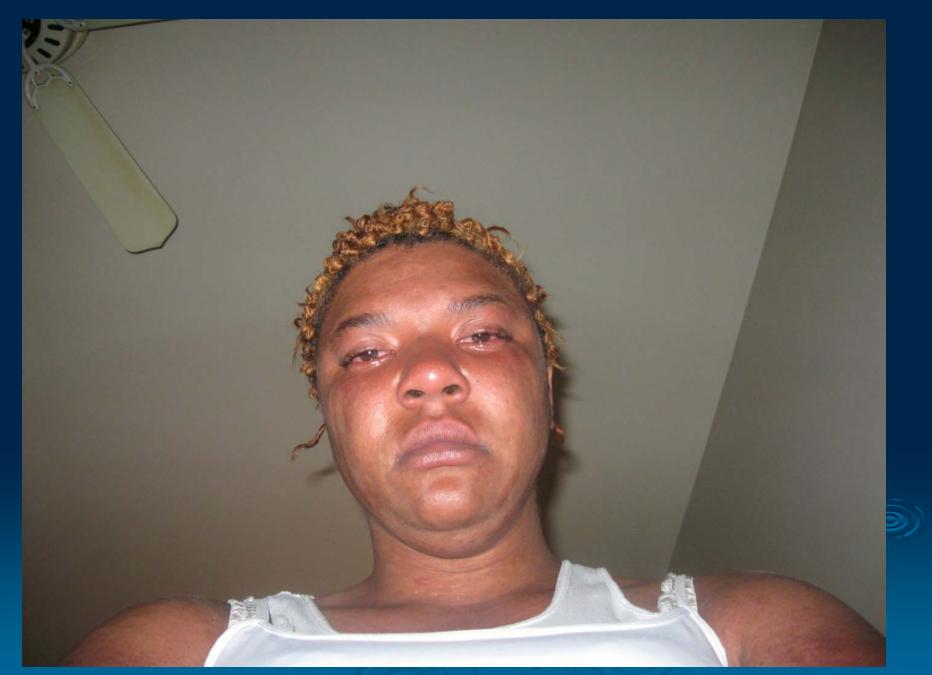
Farm Bill











Erica S.





### **Food Insecurity Definition**

 Lack of access to enough food for an active and healthy life

### Categories of Food Insecurity 1995-2005 2006-?

Food Secure

Food Secure

Food Insecure
 Food Insecure

• Without hunger —— • Low Food Security

With hunger
 Very Low Food

Security

#### Bush Administration No Longer Using the Word "Hunger"



## Witnesses to Hunger











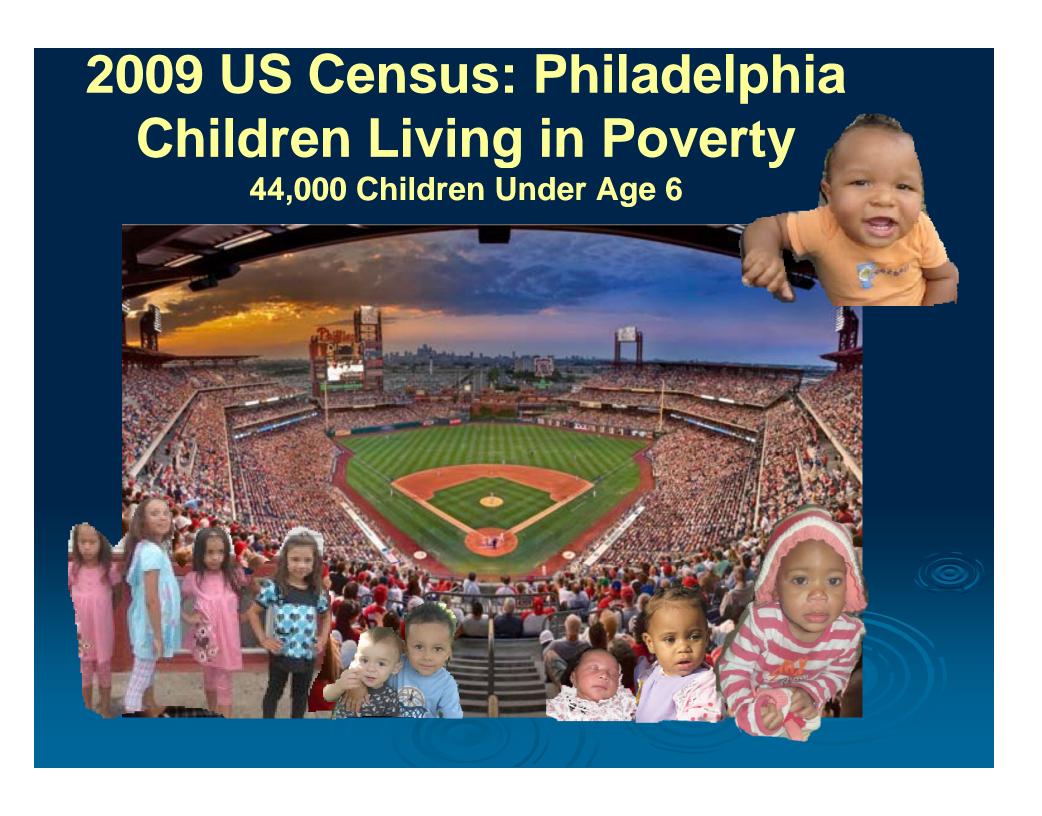




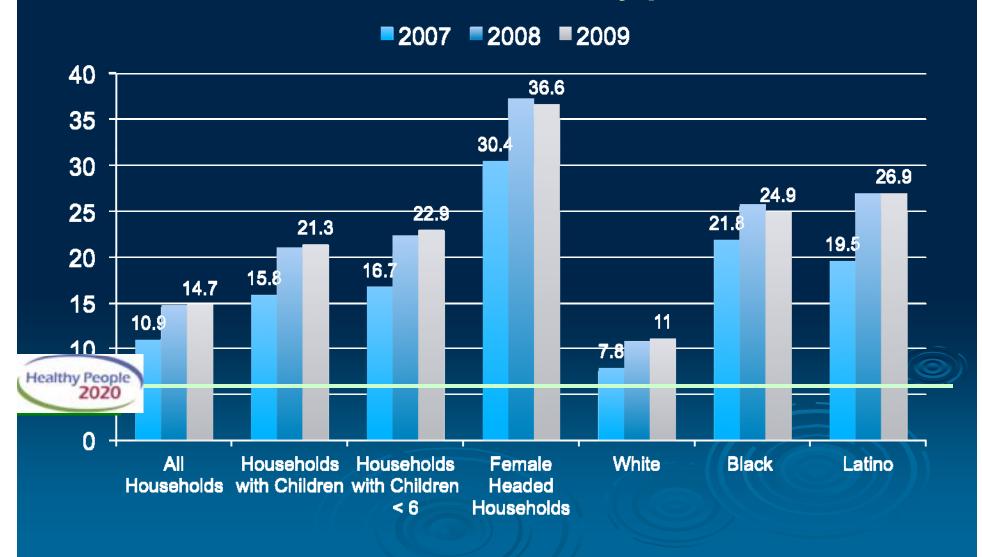


# US Rates Food Insecurity 2010

- General population
  - 49 Million (14%)
- Children (under age 18)
  - 17 Million (21%)
- Young Children (under 6)
  - 9 Million (24.9%)



# Disparities in Food Insecurity by Household Type





## Health & Social Impacts of Food Insecurity

- Food Insecure children suffer more health problems compared to food secure children
  - Poor development
  - Stomach aches, head aches, colds, ear infections
  - High hospitalization rates
- Food Insecure children suffer more psychosocial and behavioral problems
  - Aggression, hyperactivity, anxiety
  - Greater need for mental health services
- Food Insecure children have more trouble with learning and academic performance

### Cost of Hunger in the US



\$167.5 Billion per year

#### **Hunger in America**

Suffering We All Pay For

By Donald S. Shepard, Elizabeth Setren, and Donna Cooper October 2011

6 Billion in PA (one of the highest rates in the nation)

## CHILDREN'S HealthWatch Drexel Research









## Federal Assistance Programs--monitored by HealthWatch

- Food Stamps (SNAP)
- Temporary Assistance for Needy Families (TANF)
- Women, Infants and Children (WIC)
- Medicaid
- Federal Housing Subsidies

Energy Assistance



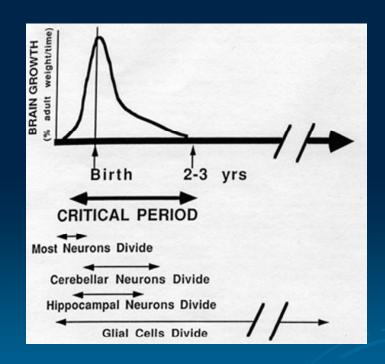
Health

- Food Insecurity
- Hospitalizations
- Child Wellbeing
- Maternal Depression
- Child Growth
- Child Development

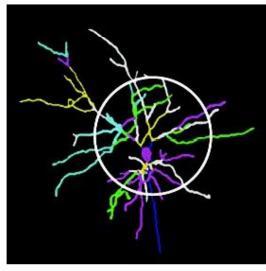
### Why children 0-3?



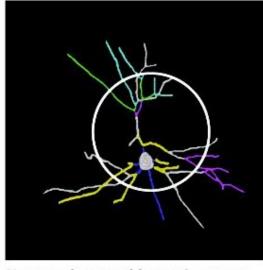
- Children 0-3 are in a period of rapid brain growth, essential for their cognitive, social and physical development
- Any interruption in good nutrition, or other hardship may have lasting effects later on on life



### Toxic Stress Damages Developing Brain Architecture



Typical neuron: many connections

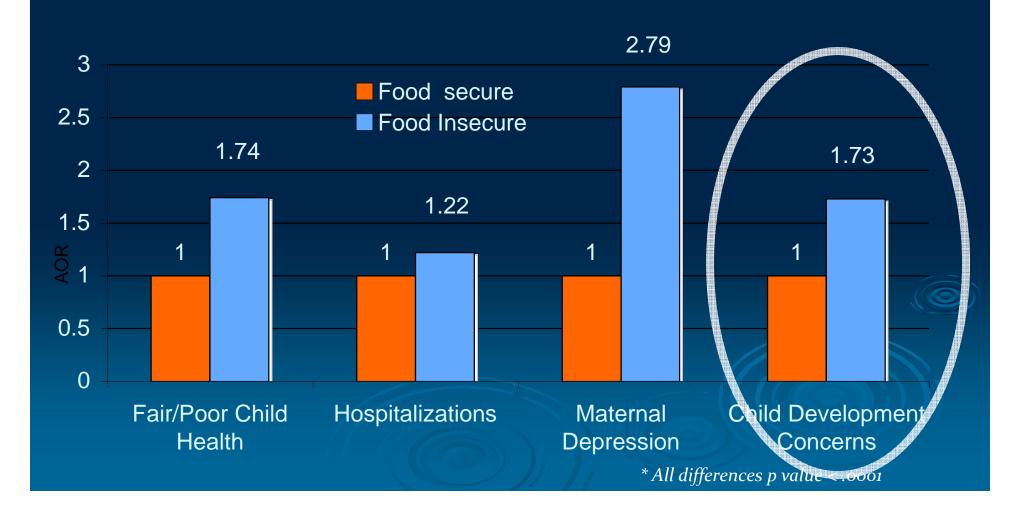


Neuron damaged by toxic stress: fewer connections



## Food Insecurity & Health Outcomes Adjusted Odds Ratios\*

Controlled for site, race, child age, caregiver age, marital status, education, birth weight, child breastfed



## Damage happens before school







### Translating Science Into Action



Cumulative Hardship and Wellness of Low-Income, Young Children: Multisite Surveillance Study
Deborah A. Frank, Patrick H. Casey, Maureen M. Black, Ruth Rose-Jacobs, Mariana
Chilton, Diana Cutts, Elizabeth March, Timothy Heeren, Sharon Coleman, Stephanie

Entrageth March, Timothy Heeren, Sharon Ettinger de Cuba and John T. Cook Pediatrics published online Apr 12, 2010; DOI: 10.1542/peds.2009-1078

The online version of this article, along with updated information and services, is located on the World Wide Web at:

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#### Research Article



**Policy Brief** 



Congressional Testimony

**Policy Change Improved Services** 







Energy



Food

Posted on Thu, Apr. 29, 2010

#### Poor childhood takes lifelong toll, study shows

By Alfred Lubrano

Sebastian burped and gurgled on his mother's lap Monday morning, three months into his Philadelphia

Because his family is poor, he's unlikely to get the food, housing and living conditions he'll need for his brain to develop properly over the next three years.

The circumstances of his just-begun journey could turn him into a bad student, an ineffective worker, and a poor man for the rest of his days, according to a new study on the cumulative effects of a deprived



Press

### Federal Food Assistance

- SNAP (Food Stamps)
  WIC
  50% babies born
- School Breakfast & 31 Million children
   Lunch
- Afterschool feeding Programs
- Summer food programs

# Women Infants and Children (WIC)

Improves birth outcomes & growth

Improves child development

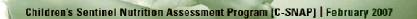
Reduces maternal depressive symptoms





### **Food Stamps as Medicine**

A New Perspective on Children's Health



## SNAP Improves Health and Wellbeing







- Food Stamps promotes child health and development
- Food Stamps reduces hospitalizations

**PEDIATRICS**°

SNAP improves math and reading scores

The Review of Economics and Statistics Vol. XCIII May 2011

 Food stamps improves birthweight, especially for the poorest families

# Cost of Thrifty Food Plan in Four Philadelphia Neighborhoods

