

### FOOD INSECURITY AMONG CHILDREN IN MASSACHUSETTS

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Family Impact Seminar 3/27/13

#### Children's HealthWatch



Collect data in five urban, safety-net hospitals on children < 4 years old



Produce scientific research that is original and timely



Share evidence with state and national partners to inform policy choices

#### What Have We Learned?



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Public Policies and Economic Conditions are Written on the Bodies and Brains of Babies

### Food Insecurity: 16% of Children in Many Massachusetts Counties

Because of insufficient \$, limited or uncertain availability of enough foods for all household members to live active and healthy lives

Source: USDA



\$4.2 billion to market fast food and \$10 billion to market food to children vs \$20 million for WIC Farmers Market Vouchers





### Real Cost of a Healthy Diet

Can parents afford to purchase healthy food?





\$0.79 880 calories

\$2.59 Stop and Shop Price Check March \$2.59

How do you feed them without giving them 2010 harmful things? Witnesses to Hunger Mother Drev

The cheap foods that make adults fat starve children of absolutely essential nutrients. Children who do not receive protein and other nutrients during early development are damaged for the rest of their lives.

Dr. Margaret Chan WHO

What are the Child Health Impacts of Food Insecurity?

Food Insecurity Associated with **Pregnancy Complications** 

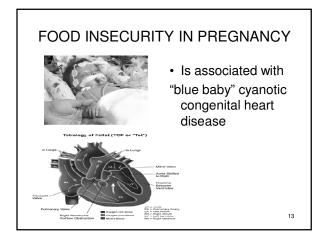


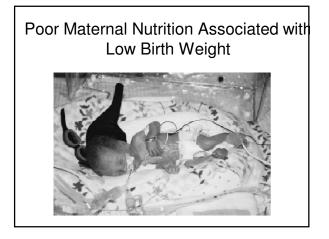
### FOOD INSECURITY IN PREGNANCY

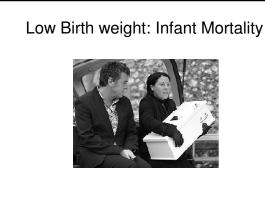
(Carmichael 2007)



· Is associated with anencephaly and other neural tube defects



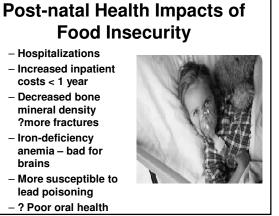




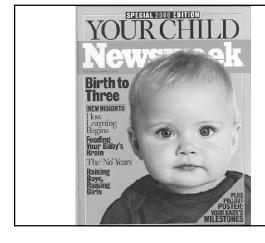


brains





What are the Child Developmental Impacts of Food Insecurity?



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#### Brain

- Brain <u>function</u> is sensitive to <u>quality</u> and <u>quantity</u> of foods consumed throughout live span
- throughout live span
   Brain structure most vulnerable to nutritional insults early in development
- Brains need constant energy and cannot store it

(Lyle et al, 1984)



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Young children from food insecure households are 40% more likely to be at developmental risk

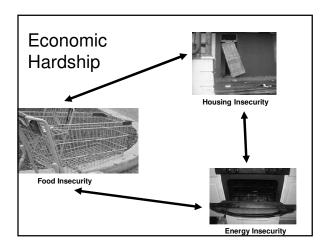
# Developmental Functions at Risk

Language Short Term Memory Attention Math Skills Modulation of Activity and Affect



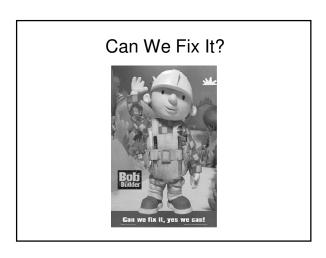
### FOOD INSECURE KIDS FIGHT MORE

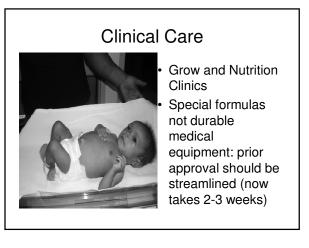














#### WIC WORKS: Good Investment State \$

- Young children who receive WIC more likely
  - Good/excellent health
  - Food secure
  - Healthy height/weight for age
  - Lower risk developmental delays

With Sequestration National WIC calculates: 8 thousand of Massachusetts participants at risk



#### WHAT IS SNAP?

Supplemental Nutrition Assistance Program – Formerly Known as Food Stamps

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### SNAP: Good Medicine for Children and the Local Economy

\$5.00 SNAP benefits Generates \$9.00 economic activity For young children SNAP decreases risk of underweight and developmental risk



Source: Children's HealthWatch, 2012

## How Did Massachusetts SNAP Overpayment happen?





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#### **SNAP**

- State needs to put in \$ for administrative costs for frontline workers
- Advocate with USDA re overpayment



Source: Children's HealthWatch, 2012

### SCHOOL BREAKFAST AFTER BELL IN CLASSROOM

 Massachusetts 42 in classroom breakfast



- In Lowell school breakfast
  - Decreased absenteism
  - Decreased tardiness
  - INCREASED TEST SCORES

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# Child and Adult Care Feeding Program (CACFP)



- Better health, growth
- Fewer hospitalizations
- Streamline paperwork ?online
- Improve meal reimbursement

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Forty Percent of Children's Health Watch Families in Emergency Food Network in Past 12 Months: MEFAP



#### WHY BOTHER?



### How Much Does Food Insecurity Cost Massachusetts?

\$ 2.72 BILLION In 2010

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#### Can We Fix It?





Thank You! www.childrenshealthwatch.org

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