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Addressing Childhood Obesity in Early Head Start Population in Philadelphia through Early Intervention and Food Buying Clubs

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Introduction

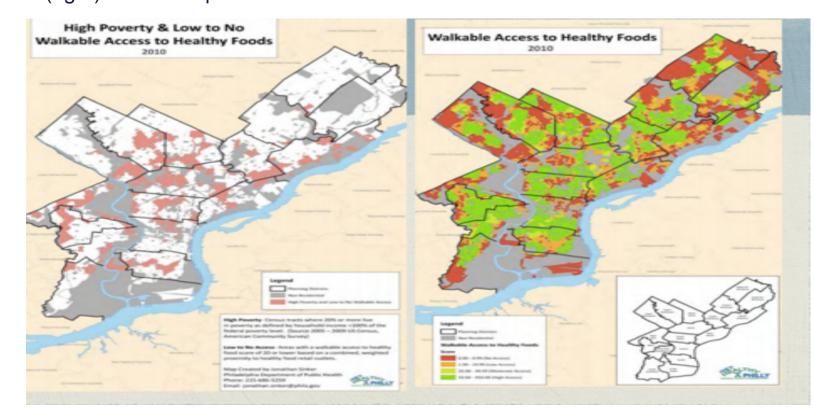
- Obesity is the second leading cause of preventable death
- Obesity costs \$147 billion in health care towards treatment.
- Philadelphia ranked first in incidence of overweight and obese children.
- Children who are at an unhealthy weight [above 85th percentile in weight adjusted for height] at the age of five years old are four times more likely to remain overweight or obese as adults.
- Maternal eating habits and diet in first 1,000 days of life can predispose a child to obesity
- Food desert areas lack access to affordable, fresh, healthy foods.

Aims

- To implement a food buying club model to increase access to fresh and healthy foods for families whose children (ages 2-5) participate in Early Head Start and the Maternity Care Coalition
- Compare four potential food distributors: Philadelphia SHARE, Asociacion
 Puertorriquenos in Marcha (APM), The Common Market, and JETRO to find the
 organization that can best implement a feasible food buying club run through
 Early Head Start to fit the families needs.

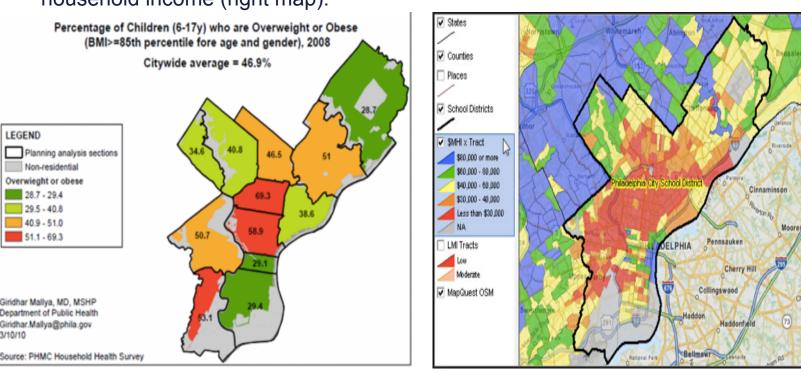
Food Deserts

- Areas of relative exclusion where individuals face physical, geographical, and economic barriers in access to healthy foods
- 46 locations Pathmark and Superfresh grocery stores that supplied Philadelphia closed in 2014-15.
- Corner stores replaced larger supermarkets as primary food source
- In Philadelphia, map of high poverty (left) and walkable access to healthy foods (right) has overlap



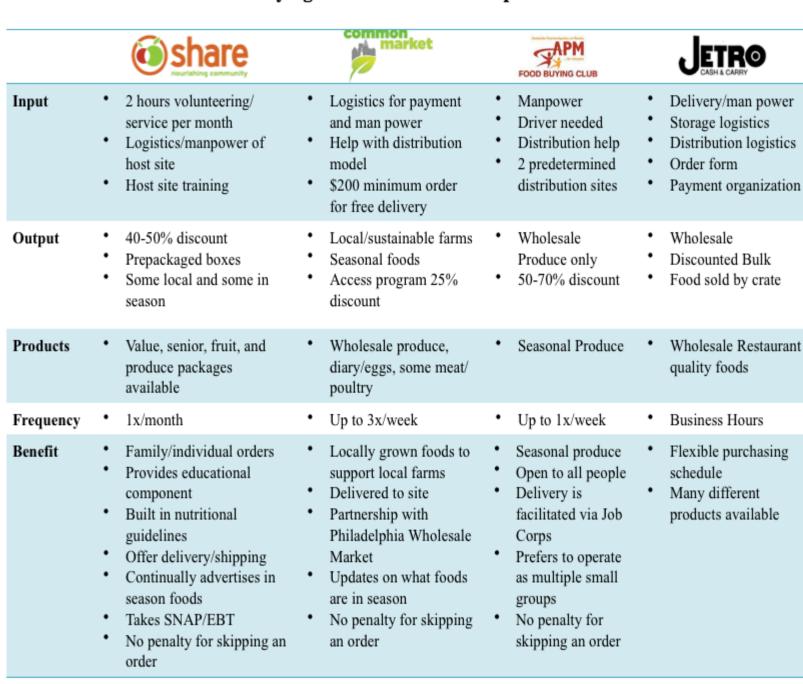
Risk Factors

 Childhood overweight and obesity incidence is not uniform throughout Philadelphia. Overweight and obesity rate (left graph) has overlap with household income (right map).



Comparison of Food Suppliers

Food Buying Club and Model Comparison Table



Discussion

- Initial meeting with the Maternity Care Coalition and Early Head Start suggested Philadelphia Share to be the organization to partner with for the food buying club.
 - Prepackaged boxes suited for families' needs
 - Individual orders
 - Low delivery cost (\$1 per package ordered)
 - Accepts SNAP/EBT for payment

Limitations

- Food buying club increases fresh food options but does not fully substitute options available at a large grocery store
- Requires high level of grocery and food needs pre-planning from the family
- Requires storage due to Philadelphia Share's single delivery per month
- Improving diet is only one arm of obesity intervention. Health education and physical activity also needed to effectively target childhood obesity.

Future Steps

- Formalize agreement between Philadelphia SHARE and Early Head Start
- Arrange information and education sessions for families to learn about food buying clubs and Philadelphia SHARE.
- Bring in representatives from Philadelphia SHARE to show examples of packages, pricing, and foods.
- Arrange system for families to purchase food boxes and packages.
- Begin cooking lessons, recipe exchanges, and "taste test" sessions for families to see cooking possibilities with Philadelphia SHARE food options

References

- 1. "Childhood Obesity Facts." Centers for Disease Control and Prevention. Centers for Disease Control and Prevention, 19 June 2015. Web. 05 Oct. 2016.
- 2. Trasande, L; Chatterjee, S. (2009). The Impact of Obesity on Health Service Utilization and Costs in Childhood. Obesity, 17(9): 1749-54.
- 3. 2015, May, and Philadelphia Department Of Public Health. "Data Brief Obesity and Severe Obesity among Philadelphia." Data Brief Obesity and Severe Obesity among Philadelphia(n.d.): n. pag. Department of Public Health, May 2015. Web. 14 Sept. 2016.
- 4. Ogden CL, Carroll MD, Kit BK, Flegal KM. Prevalence of obesity in the United States, 2009-2010. NCHS Data Brief. 2012;(82):1-8
- 5. Segal, Levi J., and R. St. Laurent. "The State of Obesity." Robert Wood Johnson Foundation, 21 Sept. 2015. Web. 05 Oct. 2016
- 6. "Food Fit Philly." Obesity in Philadelphia. Philadelphia Department of Public Health, n.d. Web. 05 Oct. 2016
- 7. Philadelphia Mapping Project." Solidarity Economy Resources. Haverford College, 2012. Web. 05 Oct. 2016.
- 8. "Largest 100 U.S. School Districts: Philadelphia." Proximity One. N.p., 2016. Web. 1 Oct.2016
- Nemet, D., S. Barkan, Y. Epstein, O. Friedland, G. Kowen, and A. Eliakim. 2005. Shortandlong-term beneficial effects of a combined dietary-behavioral- physical activityintervention for the treatment of childhood obesity. Pediatrics 115 (4): e443-9 (accessed6August 2016).