

# DEANNA OLNEY

## **Contact Information**

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## **Education**

**Ph.D., Nutritional Biology** with a designated emphasis in International Nutrition and minors in Statistics and Epidemiology, University of California Davis (December 2006)

Dissertation title: Modeling the effects of anemia, malaria, growth and micronutrient supplementation on development of young Zanzibari children.

**B.A., Political Science** with an emphasis in International Relations and minors in Nutrition and Spanish, Cal Poly San Luis Obispo (June 1999)

## **Professional Experience**

- 2009- **Research Fellow**  
International Food Policy Research Institute, Washington, DC
- 2008-09 **Consultant**  
International Food Policy Research Institute, Washington, DC
- 2006-08 **Research Nutritionist**  
USDA-ARS-WHNRC, Davis, CA
- 2005-06 **Consultant**  
UNICEF, London, UK
- 2003-05 **Collaborating Researcher**  
Division of Nutritional Sciences, Cornell University, Ithaca, NY
- 2001-03 **Post-graduate Researcher**  
University of California Davis, based in Pemba, Tanzania

## **Awards**

Marie Weldon Taubeneck Research Award for best paper by a pre-doctoral fellow (UC Davis), 2007.

Finalist for the student prize for the Society for International Research, 2005.

## **Publications**

1. Olney DK, Kariger PK, Stoltzfus RJ, Khlafan SS, Ali NS, Tielsch JM, Sazawal S, Black R, Allen LH, Pollitt E. Developmental effects of micronutrient supplementation and malaria in Zanzibari children (under review).
2. Kariger PK, Stoltzfus RJ, Olney DK, Sazawal S, Black R, Tielsch JM, Frongillo EA, Ali NS, Khalfan SS, Pollitt E, Kvalsvig J. The validity of a parent report motor scale for use with infants and toddlers (submitted for publication).
3. Olney D.K., Rawat R., Ruel M.T. Selecting programs and delivery systems for multiple micronutrient interventions. *Journal of Nutrition*, 2012;142:178S-85S.
4. Olney DK, Talukder A, Iannotti L, Ruel MT, Quinn V. Helen Keller International's homestead food production program in Cambodia improves production, consumption and intake of micronutrient-rich foods among mothers and children but the effects on health and nutrition are limited. *Food and Nutrition Bulletin*, 2009;30:355-369.
5. Leroy JL, Ruel M, Verhofstadt E, Olney D. The micronutrient impact of programs addressing both direct and underlying determinants of malnutrition (presented at the Innocenti Micronutrient Program Meeting: Strengthening the Evidence-base for Programs that Reduce Micronutrient Deficiencies and Improve Health and Development, 22–25 September 2008, Florence, Italy).
6. Allen LH, Peerson JM, Olney DK. Provision of multiple rather than two or fewer micronutrients more effectively improves growth and other outcomes in micronutrient deficient children and adults. *Journal of Nutrition*, 2009;139:1022-1030.
7. Olney DK, Kariger PK, Stoltzfus RJ, Khlafan SS, Ali NS, Tielsch JM, Sazawal S, Black R, Allen LH, Pollitt E. Development of nutritionally at-risk children is predicted by malaria, anemia and stunting in Pemba, Zanzibar. *Journal of Nutrition*, 2009;139:763-772.
8. Kordas K, Siegel EH, Olney DK, Katz J, Tielsch JM, Kariger PK, Kalfan SS, LeClerq SC, Khatri SK, Stoltzfus RJ. The effects of iron and/or zinc supplementation on maternal reports of sleep in infants from Nepal and Zanzibar. *J Dev Behav Pediatr* 2009; 30:131-9.
9. Olney DK, Pollitt E, Kariger PK, Khlafan SS, Ali NS, Tielsch JM, Sazawal S, Black R, Mast D, Allen LH, Stoltzfus RJ. Young Zanzibari children with iron deficiency, iron deficiency anemia, stunting or malaria have lower motor activity scores and spend less time in locomotion. *Journal of Nutrition*, 2007;137:2756-2762.
10. Kordas K, Siegel E, Olney D, Katz J, Tielsch J, Kariger P, LeClerq S, Khatri S, Stoltzfus RJ. Maternal reports of sleep in young children: association with anemia and stunting in 4-23 month-old children from Nepal and Zanzibar. *Early Human Development*. *In Press, Corrected Proof, Available online 26 November 2007*

11. Grantham-McGregor S, Olney DK. School feeding, cognition, and school achievement. *Current Medical Literature: Clinical Nutrition*, 2006; 15(1):5-11.
12. Olney DK, Pollitt E, Kariger PK, Khlafan SS, Ali NS, Tielsch JM, Sazawal S, Black R, Allen LH, Stoltzfus RJ. Combined iron and folic acid supplementation with or without zinc reduces time to walking unassisted among Zanzibari infants 5-11 months old. *Journal of Nutrition*, 2006; 136:2427-2434.
13. Kariger PK, Stoltzfus RJ, Olney DK, Sazawal S, Black R, Tielsch JM, Frongillo EA, Khalfan SS, Pollitt E. Iron deficiency and physical growth predict attainment of walking but not crawling in poorly nourished Zanzibari infants. *Journal of Nutrition*, 2005; 135:814-19.

### **Recent Reports**

1. Parker M, Leroy J, Olney D, Harris J, Ruel M. Strengthening and Evaluating the “Preventing Malnutrition in Children Under Two Years of Age Approach” (PM2A) in Burundi. Report submitted to FANTA-2. 2011.
2. Behrman J, Dillon A, Moreira V, Olney D, Pedehombga A. Helen Keller International’s Enhanced-Home Food Production Program in Burkina Faso: Baseline Report. Report submitted to Helen Keller International. 2011.
3. Richter S, Harris J, Leroy J, Olney D, Ruel M. Strengthening and Evaluating the “Preventing Malnutrition in Children Under Two Years of Age Approach” (PM2A) in Guatemala. Report submitted to FANTA-2 and Mercy Corps. 2011.
4. Olney DK, Vicheka S, Kro M, Chakriya C, Taludker Z, Quinn V, Iannotti L, Becker E, Roopnaraine T. Helen Keller International’s Homestead Food Program in Cambodia: Results from and Operations Research Study. Report submitted to International Development Research Center and Helen Keller International. 2011.
5. Olney D, Arriola M, Carranza R, Leroy J, Richter S, Harris J, Ruel M, Becker E. Report of formative research conducted in Alta Verapaz, Guatemala, to help inform the health strengthening activities and the social and behavior change communication strategy that will be implemented through Mercy Corps’ PM2A program – *PROCOMIDA*. Report submitted to FANTA-2. 2011.

### **Presentations and Abstracts**

1. Olney DK. Nutrition and Health Effects of Homestead Food Production in Cambodia. Measuring Effects of Agri-Health Interventions, London, England, May 2011.

2. Olney DK, Leroy JL. Opportunities and Challenges of Conducting Research in Large Scale Programs. CORE Group Spring Meeting (Food Security and Nutrition Network Meeting). Baltimore, United States, May 2011.
3. Olney DK. Nutrition and Health Effects of Homestead Food Production in Cambodia. Invited presentation, George Washington University, February 2011.
4. Olney DK, Sao V. Results from an operations research study of HKI's homestead food production program in Cambodia. Dissemination Workshop on Homestead Food Production Programs for Better Health and Nutrition. Phnom Penh, Cambodia, December 2010.
5. Olney DK, Peerson JM, Allen LH. Multiple micronutrients improve growth, nutritional status and child development outcomes in micronutrient deficient children. International Congress of Nutrition, Bangkok, Thailand, October 2009.
6. Menon P, Designing rigorous evaluations for complex, multi-faceted nutrition programs: an example from the Integrated Child Development Services (ICDS) program in India. Micronutrient Forum, Beijing, China, May 2009.
7. Olney DK, Talukder A, Iannotti L, Ruel MT, Quinn V. Helen Keller International's homestead food production program in Cambodia improves production, consumption and intake of micronutrient-rich foods among mothers and children but the effects on health and nutrition are limited. Micronutrient Forum, Beijing, China, May 2009.
8. Olney DK. The effects of anemia, stunting, malaria and micronutrient supplementation on the development of young Zanzibari children. Invited presentation, Johns Hopkins University, October 2008.
9. Olney DK, Talukder A, Iannotti L, Ruel MT, Quinn V. HKI's homestead food production program in Cambodia. Innocenti Micronutrient Program Meeting: Strengthening the Evidence-base for Programs that Reduce Micronutrient Deficiencies and Improve Health and Development, 22–25 September 2008, Florence, Italy.
10. Witbracht MG, Olney DK, Horn WF, Adams SH, Keim NL, Laugero K, Van Loan M. Cortisol changes with weight loss and affects food intake from a buffet. Experimental Biology, San Diego, CA, April 2008.
11. Olney DK, Pollitt E, Kariger PK, Khalfan SS, Tielsch JM, Sazawal S, Black R, Allen LH, Stoltzfus R. Iron+folic acid and zinc supplementation and malaria infection affect the development of Zanzibari children 5-9 months old. Experimental Biology, Washington DC, April 2007.
12. Olney DK, Kariger PK, Stoltzfus R, Khalfan SS, Ali NS, Tielsch JM, Sazawal S, Black R, Allen LH, Pollitt E. Development of nutritionally at-risk young Zanzibari children is predicted by malaria, anemia and stunting. Micronutrient Forum, Istanbul, Turkey, April 2007.

13. Allen LH, Olney DK. Gap Analysis: Multiple Micronutrients. Micronutrient Forum, Istanbul, Turkey, April 2007.
14. Kariger P, Stoltzfus R, Olney D, Sazawal S, Black R, Tielsch J, Frongillo EA, Khalfan S, Pollitt E, Kvalsvig J. The validity of a parent report motor scale for infants. *Faseb Journal*. 2006:A1051.
15. Olney DK, Pollitt E, Kariger PK, Black R, Sazawal S, Tielsch JM, Allen LH, Khalfan SS, Stoltzfus R. Supplementation with iron and/or zinc had differential effects on the time to walking among Zanzibari infants 5-11 months old. *Faseb Journal*. 2005:A1490.
16. Kariger PK, Stoltzfus R, Olney D, Sazawal S, Black R, Tielsch J, Frongillo EA, Khalfan S, Pollitt E. Positive effects of Zn and Fe plus folic acid supplementation on behavior among Zanzibari infants. *Faseb Journal*. 2005:A1491.
17. Kordas K, Olney D, Khalfan S, Kariger P, Sazawal S, Black R, Tielsch J, Stoltzfus RJ. Differences in hemoglobin are not associated with sleep patterns among Zanzibari infants. *Faseb Journal*. 2005:A1493.
18. Kariger PK, Olney D, Stoltzfus RJ, Sazawal S, Black R, Tielsch J, Frongillo E, Allen L, Khalfan S, Ali N, Pollitt E. Positive effects of zinc and iron-folic acid supplementation on time to walking and infant behavior among 5-18 mo old Zanzibari infants. International Nutritional Anemias Consultative Group, Lima, Peru, November 2004.
19. Dellis AM, Kvalsvig JD, Cowley SJ, Abdallah IR, Ali NS, Kariger PK, Olney D, Stoltzfus RJ. The effects of iron-deficiency anemia on caregiver infant interaction: A coding system. International Nutritional Anemias Consultative Group, Lima, Peru, November 2004.
20. Kordas K, Black R, Katz J, Lopez P, Olney D, Rosado JL, Sazawal S, Siegel EH, Stoltzfus RJ, Tielsch J. The evidence for Fe-Zn antagonisms is inconsistent in three randomized, placebo controlled trials. International Zinc Nutrition Consultative Group, Lima, Peru November 2004.
21. Olney D, Pollitt E, Allen L, Kariger P, Sazawal S, Black R, Tielsch J, Khalfan S, Stoltzfus R, et al. Anemia and stunting are associated with locomotor and resting activities in Zanzibari children 6-19 months old. *Faseb Journal*. 2004:A511.
22. Olney DK, Stoltzfus RJ, Chwya HM, Ramsan M, Pollitt E. The association between iron supplementation and grade repetition in a population of Pembian schoolchildren. (Abstract) *Ann Nutr Metab* 2001; 45(suppl 1): 17.