

January 7, 2016

**Barry M. Popkin, Professor of Nutrition**  
**W. R. Kenan, Jr. Distinguished Professor**  
104 Mill Run Dr.  
Chapel Hill, NC 27514-3134

Office Address: Carolina Population Center  
CB# 8120  
137 E. Franklin St.  
Chapel Hill, NC 27516-3997  
Phone: (919) 962-6139  
Fax: (919) 966-9159/919-445-0740  
Email: Popkin@unc.edu  
Website: www.nutrans.org

EDUCATION:

Ph.D., Cornell University, Agricultural Economics (73-74)  
M.S., University of Wisconsin, Economics (68-69)  
Other graduate work, University of Pennsylvania (67-68)  
B.S., University of Wisconsin, Honors in Economics (62-65, 66-67)  
Other undergraduate work, University of New Delhi (65-66)

FIELDS OF  
INTEREST:

Program and policy research to arrest and prevent excessive energy imbalance and diabetes. The nutrition transition: Patterns and Determinants of Dietary Trends and body composition trends (United States and many low and middle income countries); obesity dynamics and their environmental causes; dietary and physical activity patterns, trends, and determinants; the creation of large-scale program and policy initiatives to address nutrition-related noncommunicable diseases.

PRESENT  
POSITION:

Professor, Department of Nutrition  
Fellow, Carolina Population Center  
Director: The Nutrition Transition Research Program  
Adjunct Professor, Department of Economics  
Member, The Lineberger Comprehensive Cancer Center  
Editorial Board: Economics and Human Biology, Appetite, Risk Management and Healthcare Policy. The Lancet Diabetes & Endocrinology, Lifestyle Medicine - Research, Prevention & Treatment of Noncommunicable Diseases,

MAJOR HONORS:

**2015 Chinese government's first award for significant foreign contributions to Chinese Nutrition;**  
**2015 Conrad A. Elvehjem Award for Public Service in Nutrition; The Gopalan Oration Award,**  
**2011 winner of the top nutrition prize from India and the Mickey Stunkard Lifetime Achievement**

**Award, The Obesity Society, 2011. Also voted Fellow for The Obesity Society in 2010, United Kingdom Rank Prize for Science, 2010 and Fellow, American Society of Nutritional Sciences, 2010. Recipient of the 1998 Society for International Nutrition Research Kellogg Prize for outstanding International Nutrition; 1992 Bernard G. Greenberg Alumni Leadership Endowment Award of the School of Public Health; Woodrow Wilson Foundation Fellow; Wisconsin King Christian IV Award for Civil Rights contribution (1965);**

PREVIOUS PRINCIPAL INVESTIGATOR

RESEARCH GRANT EXPERIENCE (direct costs): *Barry Popkin has been PI of so many grants that he just summarizes briefly the major grants. In total direct costs he has brought to UNC for which he has been or is currently the PI, a dollar value of \$60,229,785(thru 2008). Grants below \$100,000 and those in process are not listed. They exclude any contracts or gifts to the University from private industry, the World Bank, other international organizations which add up to over \$11 million extra.*

He has acted at UNC-CH as **Principal Investigator** of these past and current research projects noted in order from the past to the present: (1) evaluation of program participation and dietary impact of school lunch and breakfast program, USDA (1979-83 for \$676,000); (2) a review and case study on the Demand for Primary Health Services, AID (1981-82, \$55,000); (3) The Patterns and Determinants of Breast-feeding and Infant Mortality in the Near East, AID (1980-83, \$262,000); (4) The Nutrition of the Elderly, a national study of elderly eating patterns, food program participation, and nutrient intake determinants, USDA (1982-84, \$314,636); (5) The Patterns, Determinants and Consequences of Infant Feeding in a Low-Income Country, gifts to UNC-CH from foundations/industries (1982-88, \$835,000); (6) Use of Prenatal Medical Services and the Effects of Usage on Pregnancy Outcome, AID (1985-86, \$89,000); (7) Epidemiology of Infant Feeding Dynamics, NIH (1986-88, \$245,000); and (8) Determinants of Infant Mortality: Underlying and Intermediate Determinants, NIH (1986-89, \$375,000) (1989-92, \$495,244); (9) Determinants of Food Group Consumption Patterns, USDA (1986-88, \$159,325); (10) A Longitudinal Analysis of NFP Use in the Philippines, AID (1987-88, \$57,461); (11) Epidemiology of Infant-Feeding Dynamics, Determinants, NIH (1987-90, \$238,050); (12) a Longitudinal Analysis of the Patterns and Determinants of Women=s Nutrition in the Philippines, ICRW (1987-89 \$265,000); (13) Infant Feeding, Women=s Nutrition and Birth Spacing, NIH (1989-92, \$383,473); (14) Health and Reproduction Dynamics and Social Change, NIH (1991-96, \$3,054,093) program project PI and PI of two cores and one grant, co-investigator of 3 others; (15) Understanding Child Nutrition in the Year 2000: Dynamic Shifts and their Determinants (1999-2002: USDA, \$200,000); (16) The Welfare Effects of Economic and Social Change in China. The Henry Luce Foundation, Inc. (1996-98: \$170,000); (17) Does Seasonality Matter? Effects of Seasonality on the US Diet. USDA ARS (1998-00, \$300,684); (18) Changing Patterns of Diet, Morbidity, and Mortality in Selected Countries. World Cancer Research Fund/Am. Inst. Can Res (phase I-1998-99, \$65,000; Phase II, 1999-2001- \$180,000 or more; Phase III-international conference Bellagio, 2001, \$23,950); (19) Environmental impact on obesity/activity: Beyond Race (2000-2002; CDC: \$300,000); (20) Beyond Race: Explaining Inequality Manifested as Obesity (2000-2004: NICHD, \$540,000); (21) Bellagio conference and proceedings: Rockefeller Foundation (2000-01), also WCRF; (22) Child Health Effects of Rapid Socio-demographic Change (2000-05:NIH, \$1,551,427); (23) International Training and Research Program in Population and Health.(2000-05: NIH Fogarty International Center \$1,122,510); (24) Information Technology and Distance learning advancement of population research (2002-2004: Mellon Foundation, \$400,000); (25) Monitoring the Social Safety Net in Russia: the Russian Longitudinal Monitoring Survey, PI (1992-1994, \$640,000,World Bank); AID; (1994-98: \$2,199,289; 2000-07: \$4,156,868; (26) Monitoring Social Change: Health, Reproduction, Aging, NICHD; PI (1992-2014, past \$15,100,847; 6,958,020; **current 2014-19: \$11,666,304;**); (27) Physical Environment Dynamics, Inequality and Obesity, 2003-2007: NICHD \$1,283,990); (28) Young Adult Environmental and Physical Activity Dynamics (2004-2009): NICHD \$1,124,738; (29) UNC-CH Interdisciplinary Center for Obesity (Directors Office, NIH Roadmap

center) (2004-), initial funding \$1,200,000; (30) UNC-CH Interdisciplinary Obesity Training (NIH Roadmap grant) (2005-2010), \$1,380,000; (31-32) 2 R01's: Diet, Activity, Obesity & The Built Environment Dynamics (2005-2010) NCI \$1,501,696 and \$925,640;(33)NIH-FIC: Nutrition-Related NCD Prevention Training in China (2006-2011) \$799,694 (34) Interdisciplinary Training in Maternal and Child Obesity NICHD (2008-2013) 1,259,160; (35) Understanding dietary and obesity-related factors in the UAE (Environmental Agency: \$3 million-2008-10); (36) 3 random controlled trials on water and health( food industry: only organization and analysis funding--\$7 million); (37) Evaluating Dietary Change in the US: RWJF UNC food research program (\$4.5 million-2010-2012; (\$3.2 million-2012-2014); \$1,021,000-2014-2015); (38) Obesity and Metabolic Risk Disparities: Underlying Food Environment Factors (NIH-NHLBI, **\$1.8 million 2010-2015**); (39) Rockefeller Foundation: Preempting The Epidemic Obesity In Developing Countries During The Global Nutrition Transition (\$100,000); (40) SES and race-ethnic disparities in food purchasing and dietary intake:2000-2015 (NIH-NIDDK) **funding 2013-18: \$2.2 million**; (41) Evaluating the impact of Mexico's SSB and junk food taxes (RWJF) 2014-15 \$486,000; (42) Evaluating the impact of Mexico's SSB (Bloomberg Phil) **2014-17: \$848,941;NIH\$2.3million** (43) Evaluating the Berkeley SSB tax (Bloomberg Phil) **2014-16: \$971,717**;(44) new joint INTA Univ of Chile-UNC evaluation of the Chilean SSB tax, marketing ban, FOP profiling(**IDRC, Conaciyt, Blookmberg**); (46) new initiative to link civil society, scholars, governments to generate large scale regulatory efforts and then to evaluate them plus a \$10 million grant program(**Bloomberg Phil 2016-2020, \$24.1 million**) ( *All funding is direct costs only*).

He has also been co-investigator on a number of research projects funded by NIH, NSF, NAS, USDA, the Population Council, and AID. At earlier periods before he came to UNC-CH, Dr. Popkin has acted as a co-investigator of the CIM-Cornell Vitamin A Research project on the Philippines, a 3-year pilot design, the survey design, data base management, and statistical analysis, (1973-76); a principal investigator of the Laguna, Philippine rural households survey in which he handled much of the survey development and data base management and half of the funding (1975-77, \$150,000); the principal investigator of two Filipino research projects on the functional implications of malnutrition on school achievement and on work performance (local currency grants from the Philippines government and also \$20,000 from Rockefeller Foundation); and was the primary consultant and coordinator of the design and implementation of the Bicol Multipurpose Survey (Philippines 1976-84). Additional research experience has been gained with the Rural Negative Income Tax Project, University of Wisconsin Institute for Research on Poverty, (1970-71); with the Population Center, University of Pennsylvania (summer, 1968); with a University of North Carolina at Chapel Hill (UNC-CH) soybean consumption promotion and marketing study in Bolivia (1977-78); and with the Business Research Division of AT&T on human resource analysis of location and hiring policies.

PREVIOUS  
WORK  
EXPERIENCE:

Dr. Popkin=s previous position was as a Visiting Associate Professor, School of Economics and Social Science Staff special member, Rockefeller Foundation in Manila, Philippines for 2 years (1974-76). At the end of 1976 (3 months), he served as a consultant to the Bicol River Basin Development Program and USAID Regional Development Office (Manila AD/RD). Dr. Popkin has served as Associate Director of the International Nutrition and Development Policy with Dr. Michael Latham (1972-74). He has helped the Office of Nutrition/TAB, Agency for International Development, prepare a conference on the Economics of Nutrition (1972); worked as a Research Economist with the Institute for Research on Poverty, University of Wisconsin (1971-72); worked as an Economist-Human Resource Planner with the

Management Science Division, Wisconsin Telephone Co., AT&T (1970-71); consulted with the Afro-Urban Institute, Milwaukee, Wisconsin (1970); and has done short-term work at the Poverty Institute, the Research, Planning, Program and Evaluation Section of the Office of Economic Opportunity, and the Population Studies Center of the University of Pennsylvania. His overseas experience has included: a 1-year field research and university experience in India in 1965-66; work in the Philippines for his Ph.D. and later in the Philippines and other Southeast Asian countries with the Rockefeller Foundation; and extensive research experiences also in Bolivia, Guatemala, Kyrgyzstan, Russia, and China. He also served several years as a full-time community organizer with a variety of organizations, mainly in large urban poor areas in the North but also in the South in 1969-71.

PREVIOUS  
CONSULTING/  
SERVICE  
EXPERIENCE:

Dr. Popkin has consulted with the Afro-Urban Institute, Milwaukee (1969-70); USAID Office of Nutrition/Washington, DC (1972) and Office of Regional Development/Philippines (1976-83); the American Dietetic Association (1978-79); the Select Committee on Nutrition, US Senate (1969-70); the UNC-CH Laboratories for Population Analysis (UNC-CH, 1979), the UNC-INCAP Food Wastage/Sanitation Benefit-Cost Methodology Project (1977-78); Select Panel for the Promotion of Child Health, DHEW Office of the Secretary (1979-80) for which he headed a group addressing food and nutrition problems and programs in the US; Panel on Factors Affecting Food Selection, National Academy of Sciences (1980-81); Tropical Disease Research Program (UNDP/WHO/IBRD) (1980-82); The World Bank, Office of Population, Health, and Nutrition and various program offices (1981-); Family Health International (1986-88); the UN Coordinating Committee on Nutrition (ACC/SCN) (1986-92); UNICEF (1988-92); Committee on International Nutrition Programs, National Academy of Sciences (1988-91); Research Triangle Institute (1991-present); The World Bank (1991-present); Republic of South Africa Medical Research Council and Government (1994-1999); Pan American Health Organization (1995-); member, Board of Trustees of Pan American Health Education Foundation (1994-); member, Scientific Advisory Committee, Caribbean Food and Nutrition Institute (1996-); Micronutrient Initiative (1995-1999); member of the Board of Trustees, Danone Foundation (1997-); member NAS Committee for Leveraging Longitudinal Data in Developing Countries, Committee on Population (2001-02); WHO Noncommunicable Disease Cluster (2000-); Board of Directors, Society for International Nutrition Research (2002-); NAS Panel on Enhancing the Data Infrastructure in Support of Food and Nutrition Programs, Research, and Decision Making (2004-5). In addition he currently he assists the governments of China, India, and Mexico on program and policy issues related to obesity; is chair of the global scientific committee for Choices International Foundation for front of the pack labeling, Chaired an IOM-NAS committee on food deserts-the availability of affordable, quality food for low income urban and rural areas; chaired several Mexican committees linked with obesity prevention, among others. .

TRAINEES:

Dr. Popkin has been chair of the doctoral committee for 47 completed doctoral students. Nine of these were from other UNC departments for individuals he actually co-chaired with the person from that department (Economics, Epidemiology, Maternal and Child Health, Health Behavior and Health Education, Health Policy and Management). He has been the advisor for nine postdoctoral fellows, of

whom 2 are UNC tenured faculty and one will join UNC this fall. In addition, he has been the senior mentor for 8 faculty with past or current K01 mentored young faculty awards and is working with 3 faculty (Anthropology, Nutrition, Epidemiology) as the lead mentor for their proposed K awards now. He has also been the mentor for 9 young fellows from the UNC Medical School.

JOURNAL EXTERNAL REVIEWER (at least 5 reviews for the journal to be listed)

Member of editorial board of a number of US and international journals of nutrition, executive editor of one.

Journal of the American Medical Association, Circulation, British Medical Journal, Lancet, PLoS Medicine, Diabetes Care, Annals of Internal Medicine, Medscape Journal of Medicine

American Journal of Epidemiology, International Journal of Epidemiology, Epidemiology

Journal of Nutrition, American Journal of Clinical Nutrition, European Journal of Clinical Nutrition, British Journal of Nutrition, American Journal of Preventive Medicine, Public Health Nutrition, Appetite, International Journal of Behavioral Nutrition and Physical Activity

Obesity, International Journal of Obesity, Obesity Reviews

American Economic Review, World Development, Social Science and Medicine, Demography, Economic Development and Cultural Change, Journal of Development Studies, Food Policy, Economics and Human Biology, Demography

JOURNAL PUBLICATIONS:

1. Popkin, Barry M. (1972) Economic benefits from the elimination of hunger in America. Public Policy 20:133-53.
2. Popkin, Barry M. and R. Lidman (1972). Economics as an aid to nutritional change. American Journal of Clinical Nutrition 25:331-44. [View as PDF](#)
3. Popkin, Barry M. and M. C. Latham (1973). The limitations and dangers of commerciogenic nutritious foods. American Journal of Clinical Nutrition 26:1015-23. [View as PDF](#)
4. Popkin, Barry M. (1975) Economics and nutritional change. Archivos Latinoamericanos de Nutricion 25:7-30.
5. Popkin, Barry M. (1975) An Application of cost-benefit analysis to nutrition program planning. Philippine Review of Business and Economics 12:223-52.
6. Popkin, Barry M. and F.S. Solon (1976). Income, time, the working mother, and child nutriture. Journal of Tropical Pediatrics and Environmental Child Health 11:156-66.
7. Popkin, Barry M. (1976) Human resource development and productivity: the role of nutrition. Economics and Finance in Indonesia xxiv:275-91.

8. Solon, F.S., B.M. Popkin, T.L. Fernandez, and M.C. Latham (1978a). Vitamin A deficiency in the Philippines: a study of Xerophthalmia in Cebu. American Journal of Clinical Nutrition 31:360-68.
9. Popkin, Barry M. (1978b) Nutrition and labor productivity. Social Science and Medicine 12:117-26. [View as PDF](#)
10. Popkin, Barry M. (1978c) Some economic aspects of planning health interventions among malnourished populations. American Journal of Clinical Nutrition 31:2314-23.
11. Solon, F.S., T.L. Fernandez, M.C. Latham, and B.M. Popkin (1979a). Planning, implementation, and evaluation of a fortification program. Journal of the American Dietetic Association 74:112-18.
12. Solon, F.S., T.L. Fernandez, M.C. Latham, and B.M. Popkin (1979b). An evaluation of strategies to control vitamin A deficiency in the Philippines. American Journal of Clinical Nutrition 32:1445-53.
13. Popkin, Barry M. (1980a) Time allocation of the mother and child nutrition. Ecology of Food and Nutrition 9:1-14.
14. Popkin, Barry M., F.S. Solon, T.L. Fernandez, and M.C. Latham (1980b). Benefit-cost analysis in the nutrition area: a pilot project in the Philippines. Social Science and Medicine 14c:207-16. (Translated into Spanish and published in Boletin de la Oficina Sanctari Pan Americana). [View as PDF](#)
15. Solon, F.S., B.M. Popkin, T.L. Fernandez, and M.C. Latham (1980c). Vitamin A deficiency in the Philippines: a pilot project part I baseline analysis and program design; Part II evaluation and benefit-cost analysis. Food and Nutrition 6:27-36, 43.
16. Akin, John S., D.K. Guilkey, and B.M. Popkin (1981a). The demand for child health services in the Philippines. Social Science and Medicine 15c:249-57. [View as PDF](#)
17. Popkin, Barry M. (1981b) Community-level considerations in nutrition planning in low-income countries. Ecology of Food and Nutrition 10:227-36.
18. Akin, John S., R.E. Bilsborrow, D.K. Guilkey, B.M. Popkin, with D. Benoit, P. Cantrelle, M. Garenne, and P. Levi (1981c). The determinants of breast-feeding in Sri Lanka. Demography 18:287-307 (and Response to Comment, 21(4), November, 1984:687-88).
19. Popkin, Barry M. and P.S. Haines (1981d). Factors affecting food selection: the role of economics. Journal of the American Dietetic Association 74(4):419-425.
20. Akin, John S., D.K. Guilkey, B.M. Popkin, J. Bass, P.S. Haines (1981e). Who benefits from school feeding: an analysis of participation in the national school breakfast and lunch programs. Food Technology 35(9):70-79.
21. Popkin, Barry M. and M. Lim-Ybanez (1982a). Nutrition and school achievement. Social Science and Medicine 16:53-61. [View as PDF](#)
22. Popkin, Barry M. (1982b) A household framework for examining the social and economic consequences of tropical diseases. Social Science and Medicine 16:533-543. [View as PDF](#)

23. Popkin, Barry M., R.E. Bilborrow, and J.S. Akin (1982e). Patterns of breast-feeding in low-income countries. Science 218(10):1088-1093.
24. Akin, John S., D.K. Guilkey, B.M. Popkin, and J. Wyckoff (1983a). The demand for school lunches: an analysis of individual participation in the school lunch program. Journal of Human Resources XVII (2):213-230.
25. Akin, John S., D.K. Guilkey, P.S. Haines, and B.M. Popkin (1983b). The Impact of the school lunch program on nutrient intake. School Food Service Research Review 7(1):13-18.
26. Akin, John S., D.K. Guilkey, and B.M. Popkin (1983c). The school lunch program and nutrient intake: a switching regression analysis. American Journal of Agricultural Economics 65(3):477-485 [and reply to comment, 66(4), 1984:513-514]. (Reprinted in a review volume on School Feeding Programs).
27. Popkin, Barry M., R.E. Bilborrow, J.S. Akin, and M.E. Yamamoto (1983). Breast-feeding practices in low-income countries. Medical Anthropology 7(1):1-31.
28. Popkin, Barry M., and M.E. Yamamoto, C.C. Griffin (1984). Traditional and modern health professionals and breast-feeding in the Philippines. Journal of Pediatric Gastroenterology and Nutrition 3:765-776.
29. Griffin, Charles C., B.M. Popkin, and D. Spicer (1984). Infant formula promotion and infant feeding practices. American Journal of Public Health 74:992-997. PMID: PMC1651775.
30. Popkin, Barry M., M.E. Yamamoto, and C.C. Griffin (1985). Breast-feeding in the Philippines: the role of the health sector. Journal of Biosocial Sciences, Suppl. 9:99-126. [View as PDF](#)
31. Popkin, Barry M. and M.E. Yamamoto (1985). A comparison of anthropometric classifications for nutritional status determination: a case study in the Philippines. Journal of Tropical Pediatrics 31:311-319.
32. Akin, John S., D.K. Guilkey, B.M. Popkin, and K.M. Smith (1985a). The impact of federal transfer programs on the nutrient intake of elderly individuals. Journal of Human Resources 20(3):383-404.
33. Akin, John S., D.K. Guilkey, and B.M. Popkin (1985b). Changes in elderly household participation in the food stamp program. Journal of Nutrition of the Elderly 4(3):25-51.
34. Akin, John S., C.C. Griffin, D.K. Guilkey, and B.M. Popkin (1985c). Determinants of infant feeding: a household production model. Economic Development and Cultural Change 34(1):57-81.
35. Akin, John S., C.C. Griffin, D.K. Guilkey, and B.M. Popkin (1986a). The demand for adult outpatient service in the bicol region of the Philippines. Social Science and Medicine 22(3):321-328. [View as PDF](#)

36. Akin, John S., C.C. Griffin, D.K. Guilkey, and B.M. Popkin (1986b). The demand for primary health care in the bicol region of the Philippines. Economic Development and Cultural Change 34(4):755-782.
37. Akin, John S., D.K. Guilkey, B.M. Popkin, and M. Fanelli (1986c). Cluster analysis of food consumption patterns of older Americans. Journal of the American Dietetic Association 86(5):616-624.
38. Akin, John S., R.E. Bilsborrow, D.K. Guilkey, and B.M. Popkin (1986d). Breast-feeding Patterns and determinants in the Near East: an analysis for four countries. Population Studies 40:247-262.
39. Akin, John S., R.E. Bilsborrow, D.K. Guilkey, and B.M. Popkin (1986e). Breast-feeding patterns and determinants in Jordan. Population Bulletin of ESCWA (28):5-41.
40. Haines, Pamela S. and B.M. Popkin (1987). The role of cereal products in the school lunch program. Cereal Foods World 32(2):197-201.
41. Wong, Emelita, B.M. Popkin, J.S. Akin, and D.K. Guilkey (1987). Accessibility, quality of care and prenatal care use in the Philippines. Social Science and Medicine 24(11):927-944. [View as PDF](#)
42. Akin, John S., D.K. Guilkey, B.M. Popkin, and K. Smith (1987). Determinants of elderly nutrient intake. Journal of Applied Gerontology 6(3):227-258.
43. Popkin, Barry M. and E. Bisgrove (1988). Urbanization and nutrition in low-income countries. Food and Nutrition Bulletin 10(1):3-23. This paper was summarized and translated to Spanish and published as Urbanizacion y Nutricion (1988) Boletin De La Oficina Sanitaria Pan Americana 104(i):85-94. It was also translated into French and Arabic by WHO.
44. Adair, Linda S. and B.M. Popkin (1988). Birth weight, maturity, and proportionality in Filipino infants. Human Biology 60(2):319-339.
45. Guilkey, David K., R.R. Rindfuss, B.M. Popkin, J.S. Akin, and V. Paqueo (1988). Child spacing in the Philippines: the effect of current characteristics and rural development. Population Studies 42:259-273.
46. Schwartz, J. Brad, J.S. Akin, and B.M. Popkin (1988). Price and income elasticities of demand for modern health care: the case of infant delivery in the Philippines. World Bank Economic Review 2(1):49-76.
47. Fernandez, Maria Theresa and B.M. Popkin (1988). Prolactal feeding patterns in the Philippines. Ecology of Food and Nutrition 21(4):303-314.
48. Haines, Pamela S., D.K. Guilkey, and B.M. Popkin (1988). Modeling food consumption decisions as a two-step process. American Journal of Agricultural Economics 70(3):543-552. [View as PDF](#)
49. Deang, Lionel, R.M. Doan, and B.M. Popkin (1988). Influence of household structure and composition on breast-feeding. Philippine Population Journal 4(1-4):38-52.



50. Guilkey, David K., B.M. Popkin, J.S. Akin, and E. Wong (1989). Prenatal care and pregnancy outcome in the Philippines. Journal of Development Economics 30:214-272.
51. Popkin, Barry M., P.S. Haines, and K. Reidy (1989a). Food consumption trends of U.S. Women: patterns and determinants between 1977 and 1985. American Journal of Clinical Nutrition 49:1307-1319.
52. Popkin, Barry M., J.S. Akin, E. Wong, and W. Flieger (1989b). Breast-feeding trends in the Philippines, 1973 and 1983. American Journal of Public Health 79(1):32-35. PMID: PMC1349463.
53. Popkin, Barry M., P.S. Haines, and D.K. Guilkey (1989b). Food consumption changes between 1977 and 1985. American Journal of Agricultural Economics 71(4):949-959.
54. Bisgrove, Eilene, B.M. Popkin, and C. Barba (1989). Infant-feeding patterns in the Philippines: a cluster analysis approach. Ecology of Food and Nutrition 23(2):75-90.
55. Popkin, Barry M., M.T. Fernandez, and J. Avila (1990a). Infant formula promotion and the health sector in the Philippines. American Journal of Public Health 80(1):74-75. PMID: PMC1404538.
56. McGuire, Judith and B.M. Popkin (1990). Beating the zero sum game: women and nutrition in the third world. Food and Nutrition Bulletin 11(4):38-63; Part II 12(1):3-11. Printed also as Beating the zero sum game: women and nutrition in the third world (Geneva, WHO: UN Coordinating Committee for Nutrition, 1989) and Helping women improve nutrition in the developing world: beating the zero sum game. World Bank Technical Paper Number 114.
57. Guilkey, David K., B.M. Popkin, W. Flieger, and J.S. Akin (1990). Changes in breast-feeding in the Philippines. Social Science and Medicine 31(12):1365-1375. [View as PDF](#)
58. Haines, Pamela S., B.M. Popkin, and D.K. Guilkey (1990). Methods of patterning eating behaviors of American women. Journal of Nutrition Education 22(3):124-132.
59. Barnes, Deborah, L.S. Adair, and B.M. Popkin (1990). Women's physical activity and pregnancy outcome: a longitudinal analysis from the Philippines. International Journal of Epidemiology 20(1):1-11.
60. Guilkey, David K., P.S. Haines, and B.M. Popkin (1990). The distribution of food consumption over a year: a longitudinal analysis. American Journal of Agricultural Economics 72(4):891-900. [View as PDF](#)
61. Popkin, Barry M., L.S. Adair, J.S. Akin, R. Black, J. Briscoe, and W. Flieger (1990). Breast-feeding and diarrheal morbidity. Pediatrics 86(6):874-882.
62. Cebu Study Team (1991). Underlying and proximate determinants of child health: The Cebu Longitudinal Health and Nutrition Study. American Journal of Epidemiology, 133(2):185-201.
63. Popkin, Barry M., J. Canahuati, P. Bailey, and C. O'Gara (1991). An evaluation of a national breast-feeding promotion program in Honduras. Journal of Biosocial Science 23(1):5-21. [View as PDF](#)

64. Stewart, John, B.M. Popkin, D.K. Guilkey, L.S. Adair, J.S. Akin, and W. Flieger (1991). Influences on the extent of breast-feeding: a prospective study in the Philippines. Demography 28(2):181-199.
65. Bisgrove, Eilene S., B.M. Popkin, and C. Barba (1991). Profiling infant-feeding patterns in the Philippines. Ecology of Food and Nutrition 26:291-302.
66. Haines, Pamela S., D.W. Hungerford, B.M. Popkin, and D.K. Guilkey (1992). Eating patterns and energy and nutrient intake of US women. Journal of the American Dietetic Association 92:698-704 & 707.
67. Cebu Study Team (1992). A child health production function estimated from longitudinal data. Journal of Development Economics 38:323-351. [View as PDF](#)
68. Popkin, Barry M., P.S. Haines, and R. Patterson (1992). Dietary changes among older Americans, 1977-78. American Journal of Clinical Nutrition 55:823-830.
69. Adair, Linda S. and B.M. Popkin (1992). Prolonged lactation contributes to depletion of maternal energy reserves in Filipino women. Journal of Nutrition 122:1643-1655.
70. Zohoori, Namvar, B.M. Popkin and M. Fernandez (1993). Breast-feeding patterns in the Philippines: a prospective analysis. Journal of Biosocial Science 25:127-138. [View as PDF](#)
71. Adair, Linda S., B.M. Popkin, and D.K. Guilkey (1993). The duration of breast-feeding: how is it affected by biological, sociodemographic, health sector, and food industry practices? Demography 30(1):63-80.
72. Adair, Linda S., B.M. Popkin, J. VanDerslice, J.S. Akin, D.K. Guilkey, R. Black, J. Briscoe, and W. Flieger (1993). Growth dynamics during the first two years: a prospective study in the Philippines. European Journal of Clinical Nutrition 47:42-51.
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