

NOTARIZATION. I have read the following and certify that this Curriculum Vitae is a current and accurate statement of my professional record.

Signature  Date July 2011

I. PERSONAL DATA

Name

Robert Thaddeus Jackson

Department Address

Nutrition and Food Science
0119A Skinner Hall
University of Maryland
College Park, MD 20742
USA
(301) 405-4533,
(301) 314-3313 (FAX)
bojack@umd.edu

Current rank: Professor

Year of Appointment at University of Maryland, College Park: December 1989

Educational Background:

1970	B.A.	Government	Cornell University, Ithaca, New York
1970-1972		Nutrition Sciences	M.Sc. coursework at Cornell Univ.
1977	M.Sc.	Nutrition Sciences	University of Dar-es-Salaam, Morogoro, TANZANIA, East Africa
1977	STUDY TOUR	International Agriculture	MEXICO
1981	Ph.D.	Nutrition	Cornell University, Ithaca, New York
1981	Post-doc	Nutrition	Division of Nutritional Sciences, Cornell University, Ithaca, NY 14853

- 1981-1982 **Postgraduate Research Nutritionist**, USDA Western Human Nutrition Research Center, Presidio of San Francisco, CA
- 1982-1983 **Post-doctoral Fellow and Lecturer**, Chancellor's Faculty Development Fellow Program, Department of Nutritional Sciences, University of California, Berkeley, CA 94570
- 1984 Diploma Computer Programming, (Honors) COBOL, RPGII, ALC (BAL) Languages, Computer Learning Center, San Francisco, CA
- 1988 Courses in Food Chemistry and Food Microbiology, University of Florida, Gainesville, FL (Taken in support of Registered Dietitian Registration), **(RD ID # 721554, 1988).**
- 1997 Gender Analysis Training at the University of Florida, Gainesville. A part of the United States Agency for International Development World Women-In-Development Fellowship conducted at the Egyptian Mission in Cairo, EGYPT
- 2000 Certificates in Beginning & Elementary Arabic Language Training, British Council, Ajuza, Cairo, EGYPT

Additional Academic Expertise

Language Competency

English; Fluent in Kiswahili; Courtesy Arabic
 Computer Languages: Basic Assembly Language, COBOL, RPGII

Computer Programs Competency

Statistical Analysis System (SAS), Statistical Package for the Social Sciences (SPSS), Word Perfect, MSWORD, EPIINFO

International Field Research and Teaching Experiences

Kenya (1970)

Worked on various rural development, self-help projects, including building a four-classroom primary school in Mackakos.

Tanzania (1972-75)

Conducted research on lactose malabsorption, contributed to 5-year Development Plan, taught nutrition and biochemistry courses to Rural Medical Health workers.

Liberia (1978-79, 1982)

Conducted research on the epidemiology of nutrition during pregnancy. Also gave lectures and workshops on both assessing and reducing iron deficiency.

1982, did research on cassava nutrition and human health, anti-nutritional factors in cassava and relationship of cyanogenic glycosides to sickle cell anemia severity and expression.

Egypt (1991-1997, 1998, 2000, 2003, 2007)

Visited Egypt as a United States Agency for International Development consultant in 1994 and 1998. In 1991-93, visited various Universities or the National Nutrition Institute to lecture or cooperate with scientists on various research projects.

In 1997, I was a World Women in Development Fellow which involved assessing research on anemia among adolescent girls and also in developing a major nutrition intervention project for 10 million adolescent girls in Upper Egypt.

In 2000, 2003 enrolled in a language Institute and gave lectures to pediatricians and nutritionists at the National Nutrition Institute.

In 2007, visited National Nutrition Institute to discuss and plan collaborative research project on child nutritional status comparisons 1995 to 2005.

Jamaica (1993)

Conducted a research project to define anemia and iron status of affluent post-partum women.

Mexico (1994)

Studied problems of Mexican agriculture in feeding its growing population

In 2000, studied the health and nutrition problems as well as indigenous remedies to health and nutrition problems among the Maya of the Yucatan.

Ghana (1994)

Invited to give lectures on micronutrient malnutrition on the campus of the University of Legon, Department of Nutrition.

Guinea (1994)

Invited by the Conakry World Bank Office to provide technical assistance on developing a Nutrition Department at the University of Conakry.

Cameroon (1995)

A member of an international delegation invited by First Vice President of Cameroon to assess cassava use as a food for people and animals.

Kuwait (1997-98, 1999, 2000, 2001, 2003, 2010-2011)

Conducted research among children and adolescents regarding the etiology and distribution of anemia in Kuwait. Consulted for the World Health Organization (WHO) and the Kuwait Ministry of Health to develop programs and projects to reduce micronutrient malnutrition. Was supported by Kellogg Foundation to give keynote speech on anemia and its causes to the Kuwait health establishment, including Kuwait Medical Association, Kuwait Nursing Association, Kuwait policymakers in the Ministry of Health. **Visiting Professor** 2010-2011 in College for Women of Kuwait University.

Senegal (2002, 2005)

Conducted research on obstacles to compliance to taking nutritional supplements by low income pregnant women attending antenatal clinics. Changing method of dispensing hematinics may overcome obstacles. Also studied prevalence and etiological factors associated with anemia of pregnancy.

China (2006)

Consultancy on micronutrient supplements for the Star Company, a Shanghai-based nutritional supplements company, China.

Employment Background

2010-2011	Visiting Professor , Department of Family Science, Kuwait College For Women, Adaliya, KUWAIT
2009 to present	Professor . Department Nutrition and Food Science, University of Maryland, College Park, MD 20742 <i>Responsibilities:</i> applied research and service in international nutrition, teaching and mentoring
1989-2009	Associate Professor , Department Nutrition and Food Science, University of Maryland, College Park, MD 20742 <i>Responsibilities:</i> applied research and service in international nutrition, teaching and mentoring
1989-1990	Interim Associate Dean of the Graduate School, Director , Office Graduate Minority Affairs, University of Florida Gainesville, FL 32611 <i>Responsibilities:</i> Write grants and administer grant funds to maintain program to recruit, retain, and graduate ethnic minority graduate students; Administered program valued in excess of \$1.5 million.
1989-1990	Associate Professor , Health Science Education, College of Health and Human Performance, University of Florida, Gainesville, FL 32611 <i>Responsibilities:</i> research into ethnic variation in hemoglobin levels, teaching, service

- 1986-1989 **Assistant Professor**, Health Science Education, Clinical and Community Dietetics Program, University of Florida, Gainesville, FL 32610
Responsibilities: research, teaching, service
- 1986-1989 **Affiliate Assistant Professor**, African Studies Program, University of Florida, Gainesville, FL 32611
Responsibilities: participation in research on Africa and the teaching program
- 1984-1986 **Director of Nutrition**, Community Child Care and Health Care Council of Alameda Co. Services, Hayward, CA 94541
Responsibilities: Administered \$2 million Child Care Food Program; Integrate Nutrition Component in Teen Parenting Project, General Agency Administration. Had responsibilities for budgeting, personnel, and overall agency strategic planning. Gave lectures to area Expanded Food and Nutrition Education Program and Cooperative Extension Program personnel.
- 1984-1986 **Teacher (Adult)**, Oakland Unified School District, Oakland, CA
Responsibilities: Taught introductory computer science and programming (COBOL). Part-time, evening program.
- 1982-83 **Postdoctoral Fellow**, Chancellor's Faculty Development Program, Dept. of Nutritional Sciences, University of California, Berkeley, CA 94570
Responsibilities: conducted research on nutritional status, growth, and acculturation of newly arrived immigrant school children (K to 6th Grade) from Central America, the Philippines, and Peoples' Republic of China to the San Francisco Unified School District.
- 1982-83 **Adjunct Lecturer**, Dept. Nutritional Sciences, University of California, Berkeley, CA 94570
Responsibilities: research on ethnic differences in hemoglobin status, taught upper and lower division undergraduate nutrition courses.
- 1981-82 **Postgraduate Research Nutritionist**, USDA Western Human Nutrition Research Center, Presidio of San Francisco, CA
Responsibilities: conducted research on hemoglobin variations in military personnel due to ethnicity
- 1981 (3mo) **Postdoctoral Associate**, Division of Nutritional Sciences, Cornell University, Ithaca, NY 14853
Responsibilities: assisted in writing World Health Organization document entitled, *Nutritional Surveillance*

- 1980-81, 1977 **Teaching Associate**, Division of Biological Sciences and Learning Skills Center, Cornell University, Ithaca, NY
Responsibilities: teach biology and study skills to ethnic minority students.
- 1975 **Teaching Assistant**, Division of Nutritional Sciences, Cornell University, Ithaca, NY 14853
Responsibilities: assist professor with lectures, grading, etc.
- 1972-1975 **Nutrition Research Officer**, Ministry of Agriculture, Republic of Tanzania, Ilonga, Kilosa District, TANZANIA
Responsibilities: Setup applied nutritional research programs, e.g., Under Fives Clinics, maternity clinics, etc.; Conduct district-wide nutritional assessment surveys; Conduct research on lactose malabsorption among the Maasai ethnic group; Taught nutrition to rural medical aids and public health nurses; Helped to plan the Nutrition Component of the Kilosa District Five-year Development Plan.
- 1970-1972 **Research Assistant**, Graduate School of Nutrition, Cornell University, Ithaca, NY
Responsibilities: conducted research to ascertain the feasibility of integrating nutrition services into family planning clinics.
- 1970 **Rural Development Volunteer**, Operation Crossroads Africa, Machakos District, Republic of Kenya
Responsibilities: assisted in construction of classrooms for a primary school in a rural area of Kenya.

II. RESEARCH, SCHOLARLY, AND CREATIVE ACTIVITIES

A. Books

ii. Chapters in books.

Al-Mousa Z, **Jackson RT**, Al-Raqua M, Prakash P. *The epidemiology of Anemia in Kuwait*, edited by A. Musaiger, Bahrain Center for Studies Research, First Edition, 2000.

Jackson FLC and **Jackson RT**: "The Role of Cassava in African Famine Prevention" *In African Food Systems in Crisis, Part II: Contending with Change*, ed. by R. Huss-Ashmore and S. Katz, Gordon and Breach Science Publishers, S.A.; vol. 7, 207-225; 1990. (Revised and Re-Issued in 1995).

B. Articles in Refereed Journals. (* = corresponding author)

1. **Jackson RT***, Kreuter B, and Moshi SH: *Nutrition research and extension program in Kilosa District (Tanzania)*, Postgrad Medical Seminars, Kilimanjaro Christian Medical Centre, 1-13, Moshi, Tanzania, 1974.
2. **Jackson RT*** and Latham MC: Lactose and milk intolerance in Tanzania. *East African Medical Journal*; **55**(7):298-302, 1978.
3. **Jackson RT*** and Latham MC: Lactose malabsorption among Masaai children in East Africa. *American Journal of Clinical Nutrition*; **32**:779-782, 1979.
4. Roe DA*, Campbell C, Sheu CC, Hale-Wickham A, and **Jackson RT**: Nutritional status of women attending family planning clinics. *Journal of the American Dietetic Association*; **81**:682-687, 1982.
5. **Jackson RT*** and Latham MC: Anemia of pregnancy in Liberia, West Africa: a therapeutic trial. *American Journal of Clinical Nutrition*; **35**:710-714, 1982.
6. **Jackson RT***, Sauberlich HE, Skala J, Kretch MB, and Nelson R: Comparison of hemoglobin values in black and white male U.S. military personnel. *Journal of Nutrition*; **113**:165-171, 1983.
7. Jackson FLC*, Bloch EF, **Jackson RT**, Chandler JP, Kim YL and Malveaux F: Influence of dietary cyanide on immunoglobulin and thiocyanate levels in the serum of Liberian adults. *Journal of the National Medical Association*; **77**(10):777-782, 1985.
8. Jackson FLC*, Chandler JP, and **Jackson RT**: Inhibition and adaptation of red cell glucose-6-phosphate dehydrogenase (G-6-PD) *in vivo* to chronic dietary cyanide in an animal model. *Human Biology*; **58**(1):67-77, 1986.
9. **Jackson RT*** and Jackson FLC: Biological and behavioral contributors to anemia during pregnancy in Liberia, West Africa. *Human Biology*; **59**(4): 585-597, 1987.
10. **Jackson RT***. Black and white hemoglobin and hematocrit differences. *Directions in Applied Nutrition*, **1**(11): 6-7, 1987. **Jackson RT**. Review of Nutrition and Dietetic Software: A Salty Dog! a Software Review, *Directions in Applied Nutrition*, **1**(11):5-6, 1987.
11. **Jackson RT**. Review of Nutrition and Dietetic Software: Jumping Jack Flash a Software Review, *Directions in Applied Nutrition*, **1**(11):8, 1987.

12. **Jackson RT*** and Haynes-Johnson V. Nutritional management of patients undergoing long-term antipsychotic and antidepressant therapies. *Archives of Psychiatric Nursing*; **2**(3):146-152, 1988. **Jackson, RT**: Nutrition and Helminthic Infection. *News and Research Update Review*. WHO Collaborating Center, International Centre for Health Sciences at Meharry Medical College, June 1988.
13. **Jackson RT**. Book Review. *Improving Young Child Feeding in Eastern and Southern Africa: Household Level Food Technology, Proceedings of a Workshop held in Nairobi, Kenya 12-16 October 1987*. Edited by Alnwick D, Moses S, and Schmidt OG, IDRC/UNICEF. 1988. *Journal of the American Dietetic Association*; **89** (8): 1184-85, 1989.
14. **Jackson RT***. Separate hemoglobin standards for blacks and whites: a critical review of the case for separate and unequal hemoglobin standards. *Medical Hypotheses* **32**(3):181-189, 1990.
15. **Jackson RT*** and Jackson FLC: Reassessing "hereditary" population differences in anemia status, *Ethnicity and Disease* **1**(1):26-41, 1991.
16. Jackson FLC*, **Jackson RT**, Denkins L, Muhammad A, and Sio, F: Cassava in Liberia: History, contemporary distribution, traditional processing methods, residual cyanide levels, and cyanide ingestion loads. *Ecology of Food and Nutrition*; **28**(3):227-242, 1992.
17. **Jackson RT***. Food For Thought: Relationship between Hb levels and anemia- related symptoms in pregnant Liberian women. *Nutrition: An International Journal of Basic and Applied Nutrition*; **8**(6): 430-433, 1992.
18. Armotrading DC*, Probart C and **Jackson RT**. Impact of WIC Utilization rate on breast-feeding among international students at a large university. *Journal of the American Dietetic Association*; **92**(3):352-353, 1992.
19. **Jackson RT***. Hemoglobin comparisons between African American and European American males with hemoglobin values in the normal range. *American Journal of Human Biology*; **4**(3):313-318, 1992.
20. **Jackson RT***. Hemoglobin comparisons in a sample of European and African American children. *Ecology of Food and Nutrition*; **29**:139-146, 1993.
21. **Jackson RT***, Jackson, FLC, and Yu SM. The relationship between third trimester maternal weight gain, hematological status, and infant birthweight in Liberian mothers. *Ecology of Food and Nutrition*; **30**:309-319, 1993.
22. James DC*, **Jackson RT**, and Probart C. Factors associated with breastfeeding prevalence and duration among international students. *Journal of the American Dietetic Association*; **94**(2):194-196, 1994.

23. **Jackson RT***, Dorah JN, Simmons WK, and Thomas M. A comparative study of transferrin receptor, plasma ferritin, and other indices in assessing iron stores in a sample of postpartum women in Jamaica, West Indies. *Ecology of Food and Nutrition*; **34**:105-115, 1995.
24. Yu SM*, and **Jackson RT**. Need for nutrition advice in prenatal care. *Journal of the American Dietetic Association*; **95**(9):1027-1029, 1995.
25. Vega F* and **Jackson RT**. Dietary habits of bodybuilders and other regular exercisers. *Nutrition Research* **16**(1):3-10, 1996.
26. **Jackson, RT**. Nutrition Made Simple. *Journal of Nutrition Education*. 28: (6): 361:361, 1996.
27. Roberts CA* and **Jackson RT**. Accuracy of self-measurement of waist and hip circumference in a sample of health fair participants and relationship to serum lipids. *Journal of the American Dietetic Association*; **97**(5):534-536, 1997.
28. **Jackson RT***, Al-Mousa Z, Adekile AD, Mughal HA and Nkansa-Dwamena DK. The prevalence and etiology of anemia in Kuwaiti preschoolers and adolescents, *Kuwait Medical Journal*; **31**(1):33-39, 1999.
29. **Jackson RT*** and Al-Mousa Z. Iron deficiency is a more important cause of anemia than hemoglobinopathies in Kuwaiti adolescent girls. *Journal of Nutrition*; **130**(5):1212-6, 2000.
30. **Jackson RT***, Al-Mousa Z, Al-Raqua M, Prakash P and Muthanna A. Prevalence of coronary risk factors in healthy adult Kuwaitis. *The International Journal of Food Science and Nutrition*; **52**:301-311, 2001.
31. **Jackson RT***, Al-Mousa Z, Al-Raqua M and Prakash P. Multiple coronary risk factors in healthy older Kuwaiti males. *European Journal of Clinical Nutrition*; **56**(8): 709-714, 2002.
32. Chung CS*, Nagey DA, Veillon C, Patterson KY, **Jackson RT** and Moser-Veillon PB. A single 60 mg iron dose decreases zinc absorption during early lactation. *Journal of Nutrition*; **132**(7): 1903-5, 2002.
33. **Jackson RT***, Rashed M and Saad-Eldin R. Rural-urban differences in weight, body image, and dieting behavior among adolescent Egyptian school girls. *International Journal of Food Science and Nutrition*; **54**(1): 1-11, 2003.
34. Rashed M*, **Jackson RT**, Younis R, Anwar M, Awad H and Zeedan N. Food frequency in overweight and obese adolescent girls and its relationship to socio-economic conditions. *Egyptian Journal of Nutrition*; **18**(1): 63-76, 2003.

35. Rashed M* and **Jackson RT**. Age of menarche as a predictor of adult obesity. *Alexandria Journal of Pediatrics*; **17**(1): 85-88, 2003.
36. Al-Mousa Z, Prakash P, **Jackson RT*** and Al-Raqua M. A comparison of selected nutrient intakes in anemic and nonanemic adolescent girls in Kuwait. *Nutrition Research*; **23**(4): 425-433, 2003.
37. **Jackson RT***. Some factors influencing variation in nutritional needs and requirements of children. *Journal of Children's Health*; **1**(2):173-180, 2003. **Invited**.
38. **Jackson RT***, Al-Mousa Z, Al-Raqua M, and Prakash P. Effect of short-term weekly supplementation on anemia and symptoms in adolescent Kuwaiti girls. *Kuwait Medical Journal*; **35**(4): 275-280, 2003.
39. Hwalla N*, **Jackson RT** and Nada N. Determinants of anemia and iron deficiency in reproductive age women in Lebanon. *Ecology of Food and Nutrition*; **43**: 77-92, 2004.
40. **Jackson RT***, Al Hamad N, Al-Somaie M and Prakash P. Gender and age differences in anemia prevalence during the life cycle in Kuwait. *Ecology of Food and Nutrition*, **43**: 61-75, 2004.
41. Rashed M and **Jackson RT***. Overweight adolescent girls and family history of chronic non-communicable diseases. *Ecology of Food and Nutrition*; **43**:17-27, 2004.
42. **Jackson RT*** and Pellett PL. Introductory observations: The region, nutrition, and health. *Ecology of Food and Nutrition*; **43** (1): 3-6, 2004.
43. Pellett P* and **Jackson RT**. Preface to Special Supplement Issue: Over-nutrition and under-nutrition in the Middle East. *Ecology of Food and Nutrition*; **43**(1): 1-2, 2004.
44. **Jackson RT***, Rashed M, Al-Hamad N, Hwalla N and Al-Somaie M. A Comparison of BMI-for-Age References and Energy Intakes among Adolescents in three Middle Eastern Countries. *Eastern Mediterranean Health Journal*, Mar-Apr;**13**(2):430-40, 2007.
45. Pan Y* and Jackson RT. Ethnic difference in the relationship between acute inflammation and serum ferritin. *Epidemiology and Infection*, **136**(3):421-31, 2008.
46. Seck BC* and **Jackson RT**. Determinants of Compliance with Iron Supplementation among Pregnant Women in Senegal. *Public Health Nutrition*. **11**(6):596-605, 2008.
47. Pan Y* and **Jackson RT**. Insights into the ethnic differences in serum ferritin between black and white US adult men. *American Journal of Human Biology*, **20**:406-416, 2008.

48. Seck BC* and **Jackson RT**. Providing iron/folic acid tablets free of charge improves compliance in pregnant women in Senegal. *Transactions of the Royal Society of Tropical Medicine and Hygiene*. 103:485-492; 2009.
49. Seck BC* and Jackson RT. Multiple contributors to iron deficiency and anemia in Senegal. *International Journal of Food Science and Nutrition*. Mar; 61(2):204-16, 2010
50. Pan Y, **Jackson RT***. Dietary phylloquinone intakes and metabolic syndrome in U.S. young adults. *Journal of the American College of Nutrition*. 28: 369-379, 2009.
51. **Jackson RT***, Al-Hamad N, Prakash P, Al-Somaie M. Age and Gender-Specific Smoothed Waist Circumference Percentiles for Kuwaiti Adolescents. *Medical Principles and Practice*. 19(4): 269-274, 2010.
52. **Jackson RT***, Al-Hamad N, Prakash P, Al-Somaie M. Waist Circumference Percentiles for Kuwaiti Children and Adolescents. *Public Health Nutrition*. 2011 Jan;14(1):70-6. 2010.
53. Engel J, Siewerdt F, **Jackson RT**, Ukabondu U, Wait C, Sahyoun N. Hardiness, Depression and Emotional Well-Being and Their Association With Appetite In Older Adults. *Journal of the American Geriatrics Society (JAGS)*. 2011 Mar;59(3):482-7.
54. Seck BC, **Jackson RT**. Iron Deficiency is a major risk factor for anemia among Pregnant women in Senegal. *African Journal Health Sciences*, 2011, 18 (1) : 96-104.
55. Anyanwua UO, Sharkeyb JR, **Jackson RT**, Sahyoun NR. Home Food Environment of Older Adults Transitioning From Hospital to Home. *Journal of Nutrition in Gerontology and Geriatrics*, 30: 2, 105 — 121.
56. Rockwell LC, Rowe EJ, Arnson K, Jackson F, Froment A, Ndumbe P, Seck B, **Jackson R**, Lorenz JG. Worldwide Distribution of Allelic Variation at the Progesterone Receptor Locus and the Incidence of Female Reproductive Cancers. *American Journal of Human Biology*. 2012 Jan;24(1):42-51.

C. Monographs, Reports, and Extension Publications

1. **Jackson RT**, Jackson FLC, Beard R, and Land T. *Parenting Information for Pregnant Teens and Teen Parents*. Published by Community Child Care Council of Alameda County under Teen Parenting contract with the Alameda County Social Services Agency. Oakland, CA., 12 pp., 1985.

2. **Jackson RT** and Kelly D. *Teen Services Directory*. Published by Community Child Care Council of Alameda County under Teen Parenting contract with the Alameda County Social Services Agency. Oakland, CA., 20 pp.,1985.
3. **Jackson RT**. *Nutrition Information for Pregnant Teens and Teen Parents*, Published by Community Child Care Council of Alameda County under Teen Parenting contract with the Alameda County Social Services Agency. Oakland, CA, 12 pp, 1985.
4. **Jackson RT**. Planning to End Micronutrient Malnutrition in Kuwait: with Special Reference to Iron Deficiency and Anemia. 23 pp., Eastern Mediterranean Regional Office, World Health Organization, August 13, 2003.
5. **Jackson RT**. Guest Faculty Editorial: “Human Biodiversity and Obesity and Overweight”. *Maryland Essays in Human Biodiversity*, 3(1), 2004.

D. Consulting Reports (USAID, World Health Organization, World Bank)

1. Reily B, **Jackson RT**, and Nelson J. *Assessing Micronutrient Malnutrition in Egypt*, John Snow, Inc. (for United States Agency for International Development), OMNI Program, December, 25 pp., 1994.
2. Cunningham J, **Jackson RT**, Grubb and Pellett P. *Assessing the Need for a Department of Nutrition, Food Science, and Hotel and Restaurant Administration within the University of Conakry, Guinea*, The World Bank Office, Conakry Guinea, 18 pp., 1995.
3. **Jackson RT**. *Position Paper on Breastfeeding for the Americas*. Pan American Health Organization, Washington, D.C., November, 15 pp., 1995.
4. **Jackson RT**. Adolescent Anemia Prevention Program for the Health Insurance Organization: Final Draft Report. United States Agency for International Development, World Women-in-Development Program, Final Report. 13 pp., 1997.
5. **Jackson RT**. *Report on Micronutrient situation in Egypt: Prospects for Establishment of a Pilot Adolescent Supplementation Project in Upper Egypt, Opportunities for Micronutrient Intervention* (for United States Agency for International Development), Washington, DC, 27 pp., 1998.
6. **Jackson RT**. The Current Micronutrient Situation in Kuwait: with Special Reference to Iron, Vitamins A & D, and Iodine. Eastern Mediterranean Regional Organization, World Health Organization Report, 23 pp., EM/NFS/029/E/R/02.00/18, 1999.

7. **Jackson RT.** Micronutrients: executive summary short term consultancy; 1999 Nov 12-26; Kuwait. Kuwait, Ministry of Health, Community Nutrition Unit, 1999.
8. Al-Mousa Z, **Jackson RT**, Al-Raqua M, Prakash P and Muthanna A. *Kuwait Preventative Supplementation Study with Iron and Folic Acid: Results of a Randomized Trial to Determine the Cause and Solution to Anemia in Kuwait: with Policy Implications*, Ministry of Health, Kuwait; February, 15 pp., 2001.
9. **Jackson RT.** *Preparations for Adolescent Supplementation Trial: a Practical Checklist for Administrators*. Kuwait Ministry of Health, 10 pp., July 2001.
10. **Jackson RT.** *Some suggestions of Nutrition Research and Interventions Programs* for the Nutrition Department of the Ministry of Health, Kuwait July, 4 pp., 2001.
11. Al-Hamad N and **Jackson RT.** *A Plan of Action to Eliminate Micronutrient Malnutrition in Kuwait: with Initial Focus on Iron Deficiency and Anemia*, July 2001. (For the World Health Organization Regional Micronutrient Programme), 5 pp.
(**Note:** subsequent to this report, the Nutrition Unit was designated the “Micronutrient Focal Point” of the Ministry of Health with responsibility for all micronutrient reduction research and programming), 2001.

E. Book Reviews, Other Professional Publications, and Theses.

Jackson RT. Master’s Thesis: *Lactose Intolerance in the Kilosa District of Tanzania: A Prevalence Study*, University of Dar es Salaam, 1977.

Jackson RT. Ph.D. Dissertation: *Anemias of Pregnancy in Liberia, West Africa: A Therapeutic Supplementation Trial*, Cornell University, 1981.

F. Talks, Abstracts, and Other Professional Papers Presented (Selected)

i. Invited Talks

- | | |
|------|--|
| 1981 | “Nutritional anemias during pregnancy in West Africa”, Presented in the Department of Nutrition, University of California, Berkeley, 1981. |
| 1982 | "Racial variation in hemoglobin: evidence of genetic or nutritional differences", Presented at the Human Biology Program, Stanford University, 1982. |
| 1983 | “Black/White hemoglobin differences in US military populations”, Presented at |

School of Public Health, University of California, Berkeley, 1983.

- 1984 “Role of Nutrition in Building Quality Childcare Programs”, held at BANANAS Child Care Organization Conference for Alameda, County, CA, 1984.
- 1985 “Why the Child Care Food Program is important to successful Family Day Care”, Family Day Care Conference, held at Oakland Marriot Hotel, CA, 1985.
- 1987 “The Role of Nutrition in Building Quality Day Care for the Future” KEYNOTE speech at California State University at Hayward, Hayward, California, October 10, 1987.
- 1988 “Nutrition, Agriculture and Women in Development”, Presented at the African Studies Program Panel, University of Florida, 1988.
- 1988 "Nutritional anemias: hemoglobin variations due to ethnicity and physiologic state", Presented at University of Maryland, Department of Human Nutrition, December 1988.
- 1991 "Adolescent Nutrition Problems of Minority Children" Presented at the 4th Annual Adolescent Health Workshop in Tampa, FL.
- 1992 “Barriers to Good Nutrition” Presented to: U.S.D.A. Food and Nutrition Service, Contracts Management Branch, Room 914, 3101 Park Center Drive, Alexandria, VA 22302, June 22, 1992.
- 1992 "A critical analysis of the need for separate hemoglobin standards for black and white Americans". An Invited talk to Scientific Personnel at the Pan American Health Organization, Caribbean Food and Nutrition Institute, Kingston, Jamaica, June 9, 1992.
- 1993 "Comparison of pregnancy outcome in successful and unsuccessful black women studied in the 1988 Maternal and Infant Health Survey", Presented at Howard University, Department of Nutrition, April 1993.
- 1994 "The effect of simultaneous Vitamin A and Iron Supplementation on Hematological Values in Pregnant Women in Ghana: Considerations for Planning Research", University of Ghana, Legon, Ghana, July, 1994.
- 1994 "Iron deficiency and its assessment", Presented at the International Food Policy Research Institute Workshop on "Food Policy and Agricultural Technology to Improve Diet Quality and Nutrition" in Annapolis MD, January 10-12, 1994.
- 1994 “Assessing micronutrient malnutrition in populations with multiple contributing factors”, Institut Polytechnic, University of Conakry, Republic of Guinea, August, 1994.

- 1995 “Cassava in human nutrition and health”, Presented at Kumba Health Center, Republic of Cameroon, May 1995.
- 1995 “Assessing iron status during infection”, Presented at Seminars in Nutrition at Johns Hopkins University, Department of International Health, September 25, 1995.
- 1995 “Breastfeeding in the PAHO Region and what should be done to increase it”, Washington, DC, PAHO Main Offices, 1995.
- 1995 “Social and cultural antecedents and their Influence on minority chronic disease patterns”, Presented to the Maryland Department of Health and Mental hygiene, Local and Family Health Administration, April, 1995.
- 1995 "Nutritional anemia: A public health problem and its assessment in field studies", Presented for Science Faculty and Students at Prince Georges Community College, MD, April 19, 1995.
- 1999 "Nutritional anemia prevalence and etiology in Kuwaiti young children and adolescents", Presented at the Medical Association of Kuwait, Jabriya, Kuwait, March 22, 1999.
- 1999 “The epidemiology of micronutrient malnutrition worldwide”. Presented to the Faculty and Student Body of College of Health Sciences at Kuwait University, Shuwaikh Campus, 1999.
- 1999 “The measurement and management of iron deficiency and anemia in Kuwaiti children, the role of the nursing staffs” Presented to the Annual Conference of the Kuwait Nursing Association, March 1999.
- 2000 "Analyzing nutrition surveillance data using SPSS", Presented to Nutrition Field Workers and Biometrician at the Community Nutrition Unit, Ministry of Health, Kuwait, July 29-Aug 12, 2000.
- 2001 “Why it is necessary to develop a national strategy to combat micronutrient malnutrition for Kuwait: the case for preventive supplementation”, Presented to Senior Policymakers in the Ministry of Health, Kuwait, August 2001.
- 2001 “Prevalence of coronary risk factors in healthy adult Kuwaitis: is there a cause for concern?”, Presented to physicians and Administrators in The Nutrition Unit, Ministry of Health, Kuwait, August 2001.
- 2002 “Does infant birthweight affect later development of chronic disease morbidity and mortality in blacks?, Howard University, Child Development in the African American Community: Issues and Prospects, Howard University, March 8, 2002.

- 2003 “What needs to be done to end iron deficiency anemia in the State of Kuwait: a review of prospects and problems”, Presented for Nutrition and Dietetics Faculty and Students at Sabah Hospital, Kuwait, July 12, 2003.
- 2003 “Adolescent overweight and obesity and its possible relationship to familial chronic diseases”, Presented to Nutrition Professionals and Graduate Students at The National Nutrition Institute, Cairo, Egypt, July 20, 2003.
- 2007 “Comparison of nutrition progress in young children: analysis of representative samples of DHS survey data 1995 and 2005”, The National Nutrition Institute, Cairo, Jan 16.
- 2007 “Evaluation of the 2001 Kuwait fortification of wheat flour program on hemoglobin values of Kuwaiti men and women”, First International Nutrition Conference, Kuwait City, Nov. 18-20, 2007. **Invited presentation.**
- 2007 “Update on the nutrition anemia situation in Kuwait: a synopsis of ten years of published research”, First International Nutrition Conference, Kuwait City, Nov. 18-20, 2007. **Invited presentation.**
- 2008 “Need for research on Metabolic Syndrome in UAE and the Gulf”, UAE University, **Invited** Presentation at UAE University, Dept of Nutrition, July 2008.

ii. Refereed Conference Proceedings

- 1981 Anemia of pregnancy in Liberia. Federation of American Societies of Experimental Biology, Federation Proceedings, 40(3):851, 1981 Atlanta, GA. **Jackson RT.**
- 1982 Hemoglobin similarities in black and white male soldiers. Federation Proceedings, 41(3):534, 1982. **Jackson RT** and Sauberlich HE:
- 1984 Health implications of dietary cyanide. American Journal of Physical Anthropology, 65(2): 174, 1984. Jackson FLC and **Jackson RT.**
- 1984 Nutritional status and growth in new-immigrant Children (K-6) Pediatric Research, 18(4):182A, 1984. Echenberg DF, Freimer NB, **Jackson RT**, Castillo RO, and Kretchmer N.
- 1984 “Health implications of dietary cyanide”. American Physical Anthropology Meetings; Detroit, MI, 1984. Jackson FL and **Jackson RT.**
- 1991 Mean Hemoglobin differences in hematologically normal African-American and

- European-American Males. Federation of American Societies of Experimental Biology; FASEB J 5(4):A590, 1991. **Jackson RT**.
- 1992 The relationship of food hypersensitivities to blood types. FASEB J 6(4):A1214, 1992. Power L and **Jackson RT**. (Student was my advisee).
- 1992 Maternal residence, early prenatal care and infant anthropometrics. American Dietetic Association, Washington, D.C. Journal of the American Dietetic Association, 92(9):A- 83; 1992. **Jackson RT** and Yu SM.
1992. Nutritional advice received in prenatal care. American Dietetic Association; Washington, D.C. Journal of the American Dietetic Association, A-62; 1992. Yu SM and **Jackson RT**.
- 1992 A comparative study of transferrin receptor, plasma ferritin, and other indices in assessing iron stores in a sample of postpartum women in Jamaica, West Indies. Federation of American Societies of Experimental Biology, 1992. Dorah JN and **Jackson RT**. (Student was my advisee).
- 1992 Accuracy of self-measurement of waist and hip circumference in a sample of health fair participants and relationship to serum lipids. American Journal of Clinical Nutrition, 56(4):764, 1992. Roberts C and **Jackson RT**. (Student was my advisee).
- 1995 Assessment of coronary heart disease risk in a Central and South American sample living in Washington, D.C. American Dietetic Association; Chicago, October, 1995. Miner A and **Jackson RT**. (Student was my advisee).
- 1996 Malnutrition in low income Central American children residing in Washington DC. Federation of American Societies of Experimental Biology, 1996. Neira L, Souza C, **Jackson RT**, Welman S and Gomez M. (Souza was my advisee).
- 2000 A single 60-Mg iron dose decreases Zinc absorption in lactating women. Federation of American Societies of Experimental Biology, 14(4):A476, 2000. Chung CS, Nagey DA, Veillon C, Patterson K, Sgambat K, **Jackson RT**, and Moser-Veillon PB. (Student was my co-advisee).
- 2001 Prevalence of coronary risk factors in healthy adult Kuwaitis. 17th Intl Congress of Nutrition, Vienna 27-31, August, 2001. **Jackson RT** and Rashed M.
- 2001 The role of maternal socialization: influence on weight, body image, and dieting in adolescent Egyptian school girls. 17th Intl Congress of Nutrition, Vienna 27-31, August, 2001. **Jackson RT** and Rashed M.
- 2002 Fractional zinc absorption (fza) in lactating women as measured in breast milk compared to urine. Federation of American Societies of Experimental Biology. 2002. Chung CS,

- Nagey DA, Veillon C, Patterson KY, Sgambat K, **Jackson RT** and Moser-Veillon PB. (Student was my co-advisee).
- 2002 The effect of iron supplementation on urinary zinc excretion during early lactation. Federation of American Societies of Experimental Biology, 2002. Sgambat K, Chung CS, Douglas L, Nagey DA, **Jackson RT**, Bryden N, Patterson K, Veillon C and Moser-Veillon PB. (Student was my co-advisee).
- 2003 Prevalence and determinants of anemia in Senegal. Federation of American Societies of Experimental Biology, 2003. Seck B and **Jackson RT**. (Student was my advisee).
- 2006 Prevalence and risk factors for anemia in US elderly population: Analysis of NHANES 1999-2002. 2nd North American Congress of Epidemiology. Yang Pan and **Jackson RT**.
- 2007 Dietary vitamin K intakes and their relationship with metabolic syndrome in US young adults. Federation of American Societies of Experimental Biology, 2008. Pan Y and **Jackson RT**. (Student was my advisee).
- 2011 Age and gender-specific smoothed waist circumference percentiles for Kuwaiti adolescents. 4th International Congress on Prediabetes and the Metabolic Syndrome. Madrid, Spain, April 6-9, 2011. **Jackson RT**.
- 2011 Prevalence of the Metabolic Syndrome in Central and South American Immigrant Residents of the Washington, DC area. . 4th International Congress on Prediabetes and the Metabolic Syndrome. Madrid, Spain, April 6-9, 2011. **Jackson RT**.

Other Professional Papers Presented –

- 1990 “Nutritional anemias in pregnant women”. Presented to Omicron Nu Honor Society, University of Maryland, College Park.
- 1991 “Iron supplementation during Pregnancy”. Department of Nutrition. Guest Lecture, NUTR 615.
- 1991 “International Nutritional Problems”, Presented at University of Maryland, Department of Nutrition. Guest lecturer in NUTR 635.
- 1992 “Women, iron and the RDA”, Presented in La Plata Hall at University of Maryland, College Park, MD
- 1992 “Nutrition and Weight Control in College”, Presented in Undergraduate dorms (LaPlata Hall)

at University of Maryland, College Park.

- 1992 “Lactose malabsorption among the Masaai: genetic or acquire deficiency?”, Presented in Department of Anthropology, University of Maryland, ANTH 200.
- 1993 “Nutritional Assessment and iron deficiency anemia”, Presented at University of Maryland, Department of Nutrition. Guest lecturer in NFSC 680 (Nutritional Assessment).
- 1993 “Careers in International Nutrition: How to prepare yourself”, presented at Cherokee Lane Elementary School during Careers Week, Adelphi, MD 20783.
- 1995 “Hemoglobin variation and hemoglobin standards”, Presented at University of Maryland, Department of Nutrition. Guest lecturer in NFSC 680 (Nutritional Assessment).
- 1997 “The relationship between type of contraceptive use and iron deficiency and anemia in reproductive age women” Presented to Population and Health Staff of the USAID Mission in Cairo, EGYPT

i. Contracts and Grants

- 1972 Center for International Studies, Cornell University, Study of lactose malabsorption in Tanzania, Amount: \$6,000.
- 1978 National Fellowships Fund. Dissertation Award. Ford Foundation. Amount: \$10,000.
- 1982 University Research Expeditions Program of the University of California, Co-principal investigator with Dr. L. Jackson, Research on diet and disease in Liberia, West Africa, Amount: \$7,300.
- 1988 University of Florida Foundation, Computer analysis of research data. Amount: \$3009.
- 1990 Patricia Roberts-Harris Fellowships, United States Department of Education. To stimulate science and to support minority graduate student education in nutrition and biological sciences at the University of Florida, Gainesville. Amount: \$80,000.
- 1991 American Egyptian Channel Program, Research on nutrition and poverty among rural Maryland residents, with Egyptian counter-part. Amount: \$2,000.
- 1991 International Travel Award, UMCP. Grant to stimulate interchange between University of Alexandria in Egypt and University of Maryland, College Park. (Co-investigator: Fatimah Jackson). Amount: \$3,000.

- 1991 International Affairs Program Grant, Travel Fund Award., UMCP. For Travel to plan research in Republic of Egypt. Amount: \$1,100.
- 1991 International Affairs Program Grant, Travel Fund Award, UMCP to present Poster at Federation of American Societies of Experimental Biology Meetings, Atlanta, GA April 22-26, 1991. Amount: \$300.
- 1992 Africa and Africa in the Americas Committee. Research Award to conduct research on evaluation of hemoglobin methods in Jamaica, WI. Amount: \$1750.
- 1992 Rockefeller Foundation, Demographic and Health Surveys, "Relationship between women's work and employment status and the health and growth of their children in Egypt" Amount: \$8,500.
- 1992 Africa and Africa in the Americas Committee. Research Award to conduct research on evaluation of Hemoglobin methods in Jamaica, WI. Amount: \$1750.
- 1993 International Travel Award, UMCP. Grant to stimulate interchange between University of Ghana and UMCP. Amount: \$1200.
- 1993 Department of Nutrition and Food Science, Travel Award, Travel grant to present paper at Ghana Studies Association in Accra, Ghana. Amount: \$300.
- 1993 International Affairs Program Grant, Travel Fund Award. Travel grant to present paper at Ghana Studies Association in Accra, Ghana. Africa and Africa in the Americas Committee, University of Maryland, College Park, MD. Amount: \$500.
- 1994 HATCH Project, USDA, Laboratory Assessment of Relationship to Iron Status of Infection in low-income Maryland residents. Amount: \$4,500.
- 1995 Hatch Project, USDA, Laboratory Influence of type of infection on Iron Assessment Indices in Maryland residents. Amount: \$4,100.
- 1997 Center for International Exchange of Scholars. Research Fulbright Fellow, Research on child anemia in Kuwait. Amount: \$57, 045.
- 1997 United States Agency for International Development, Women in Development Scholar, Egypt.. Development of Micronutrient Intervention for adolescent schoolgirls. Amount: \$ 30,000.
- 1998 Joint Institute for Food Safety and Applied Nutrition, Food and Drug Administration, Impact of iron supplementation on zinc absorption in lactating women, Amount: \$42,000. (PI)
- 1998 Member of the National Planning Committee of the Maternal and Child Health Bureau

- funded project "Continuing Education in Maternal Nutrition", University of Minnesota.
- 1999 Hatch Award. Effect of high dose iron supplementation on Zinc absorption in Lactating women. Amount: \$3900.
- 2000 International Travel Award, UMCP. Grant to investigate adolescent obesity and body image in Cairo, Egypt. Amount: \$1700.
- 2000 Hatch Award. Effect of High Dose iron supplementation on Zinc absorption in Lactation in women. Amount: \$3500.
- 2001 Africa and Africa in the Americas. Travel grants for Dr. Jackson and Ms. Binetou Seck (M Sc. thesis support) to travel and conduct anemia research in Dakar, SENEGAL, West Africa. Amount: \$2200.
- 2001 Hatch Award. Nutritional Anemias in Senegal. One year project duration. These funds were primarily used as adjunctive support for Binetou Seck's masters project. Amount: \$3500.
- 2002 Hatch Award. Persistent anemia in African Preschool children in the District of Columbia. Amount: \$3500.
- 2003 Hatch Award. Anemia in African children in the Senegal: causes and consequences. Amount: \$3000.
- 2003 Islamic Development Bank Fellowship for dissertation research in sub-Saharan Africa for my student. Amount: \$46,600.
- 2004 Hatch Award. Evaluation of The Supplementation Program in the Ministry of Health in Dakar Senegal. Amount: \$1800.
- 2005 Hatch Award Evaluation of The Supplementation Program in the Ministry of Health in Dakar Senegal. Amount: \$1800.
- 2005 Department Award for research on anemia in Senegal. Amount: \$10,000.
- 2006 Hatch Award, Assessment of Metabolic Syndrome in Central Americans resident in DC Metropolitan Areas. Amount: \$1800.
- 2006 International Travel Fund Award. Travel to examine difference in Nutrition Status of Egyptian Children between 1995 and 2005. Amount: \$1411.
- 2007 Graduate Research Board Award, Anemia in Senegal, Amount: \$3500.
- 2008 Graduate Research Interaction Day Award to my graduate student for our poster presented

in University-wide competition. Amount: \$600.

2008 Hatch Award, Toward the Development of Smoothed Waist Circumference Percentiles for Kuwait. Amount \$1500.

2009 Hatch Award, Toward the Development of Smoothed Waist Circumference Percentiles for Kuwait. Amount \$1500.

j. Fellowships, Prizes, and Awards

1997-98 Senior **Research Fulbright Scholar**, USIS, **CIES**; To study the Etiology and Prevalence of anemia in Kuwait. Amount: \$57,045

1997 Women-in-Development Fellow, **United States Agency for International Development**. To develop a gender sensitive anemia reduction program for adolescent girls in the Republic of Egypt. Amount: \$30,000.

1982-83 Chancellor's Faculty Development Post-doctoral Fellow, **University of California** Berkeley, Department of Nutrition, Berkeley, CA. Amount: \$30,000.

1979-81 Research Fellow **Borden Foundation**. Amount: \$15,000.

1978 **National Fellowships Foundation (Ford Foundation)** , Dissertation grant for study of anemias of pregnancy in Liberia, Amount: \$12,000.

1970-72 Nutrition Traineeship, **National Institutes of Health**, Cornell University
Amount: \$12,000

Awards and Prizes -

1981 Graduated with Honors and Distinction in Programming, Computer Learning Center, San Francisco, CA.

1985 Exceptional Professional Merit Award, Board of Directors, Community Child Care Council of Alameda, County, Oakland, CA

1988 Certificate of Completion, American Society of Leadership Workshops Allied Professions Health Professions, Sponsored by Kellogg Foundation.

1998 Plaque of Appreciation from the Community Nutrition Unit, Ministry of Health, Safat, KUWAIT

2000 Plaque of Appreciation from the Nutrition Administration, Ministry of Health, KUWAIT

- 2003 Academic Keys Who's Who in Agriculture Higher Education (WWAHE).
- 2004 Elected Full Member of Sigma Xi, National Scientific Honor Society.
- 2005 Awarded Alumni Excellence in Teaching Award, College of Agriculture and Natural Resources, University of Maryland.
- 2006 Awarded the Paul R. Poffenberg Award for Excellence in Teaching and Advising, College of Agriculture and Natural Resources, University of Maryland
- 2007-08 Awarded Center for Teaching Excellence Lily Fellowship, University of Maryland, College Park

k. Editorships, Editorial Boards, and Reviewing Activities for Journals and Other Learned Publications

Editorships

CO-EDITOR, of International Scientific Journal “*The Ecology of Food and Nutrition*”

REGIONAL ASSOCIATE EDITOR (for Eastern region). The American Society for Nutritional Sciences, A Constituent Society of the Federation of American Societies for Experimental Biology (FASEB). *Nutrition NOTES*. Also a member of the **Editorial Advisory Committee** for American Society for Nutrition Sciences. *Nutrition NOTES*.

Editorial Boards:

Member, Nutrients, an online International Journal

Member, International Journal of Public Health, Food Science and Nutrition

Co-Editor, Ecology of Food and Nutrition, 1999-2009

Reviewer Activities (listed alphabetically)

Journals:

American Journal of Clinical Nutrition

American Journal of Human Biology

Ecology of Food and Nutrition (1981- present); 2000 – present Co-Editor

Egyptian Journal of Food Science
Ethnicity and Disease
International Journal of Food Sciences and Nutrition
International Journal of Obesity
Journal of Nutrition
Journal of Nutritional Biochemistry
Journal of Nutrition Education
Journal of the American Dietetic Association
Nutrition: International Journal of Basic and Applied Research
Food and Nutrition Bulletin
Public Health Nutrition

Nutrients

International Journal of Public Health, Food Science and Nutrition

1. Professional memberships

American Dietetic Association, Member
American Society for Clinical Nutrition, Member
Fellow, Human Biology Association
American Society for Nutritional Sciences, Member
National Center for Minority Health, Charter Member
Society for International Nutrition Research, Member
New York Academy of Sciences, Member

3. TEACHING, MENTORING, AND ADVISING

a. Courses taught in the last 5 years

NFSC 100. Elements of Nutrition. 1997- present

I have contributed 7-8 lectures to this course over several years (1997-2001). I have also been the main faculty coordinator of this course, first in 1998 and then again for the Fall and

Spring semesters of the last seven years (2002-2008). As coordinator, I give 7-8 lectures, make up all of the examinations, coordinate weekly meetings with the 6-7 Teaching Assistants, assign Early Warning and Final grades, organize and give all review sessions, handle all student complaints and questions, and perform other administrative matters pertaining to course. I also wrote the last 5-year Review of the course for the CORE committee, since NFSC 100 is a CORE non-lab science course. NFSC 100 enrolls between 450 and 500 students each semester.

In 2007-2008, I gave 20 NFSC 100 lectures, in addition to my role as course coordinator.
Over the last 10 years I have taught basic nutritional science to over 10,000 students.

NFSC 315. Nutrition during the Lifecycle. 1997-present

This course deals with nutrition and dietary changes as a function of changes in the stage of the life cycle. It enrolls between 70 and 100 students each year. I am solely responsible for all aspects of this course. The enrollment and popularity of this course has increased.

NFSC 425. International Nutrition. 1990-present

I totally revised this course. Its content now reflects current nutritional problems and the programs to solve those problems. This course is offered to between 10 and 37 students. The course is taught in alternate Fall semesters. This course has attracted several excellent doctoral and masters students to the Department of Nutrition and Food Science.

NFSC 675. Nutrition Epidemiology and Research Methods for Community and International Nutrition. 1999--present

This course was recently developed to take advantage of the growing number of graduate students interested in nutrition epidemiology and interested in pursuing research in community or international settings. The course enrolls about 5-8 students and is taught in alternate Fall semesters, rotating with NFSC 425.

NFSC 678I. Graduate Course in International Nutrition, emphasizing policy perspectives in International Nutrition 1992-present

This course is similar to NFSC 425. However, it offers some perspective on international nutrition policy, using case studies of programs and projects that work to demonstrate the policy making context.

NFSC 489. Nutritional Anthropology. 2004, 2008

This course integrates the sciences of nutrition and anthropology, with an emphasis on

cross-cultural data relevant to specific nutritional conditions. (Co-taught and cross-listed with the Anthropology Department at University of Maryland).

b. Courses or Curriculum Development

Courses - Year Developed

1991	NFSC 425 International Nutrition
1992	NFSC 475 Nutritional Epidemiology
1993	NFSC 678I Graduate International Nutrition
1994	NFSC 675 Introduction to Nutritional Epidemiology
1998	NFSC 315 Nutrition during the Lifecycle
2004	NFSC 498/ANTH 489 Nutritional Anthropology (in collaboration with an Anthropology Dept. professor)

I have also served as a member of the curriculum committee to totally revise the undergraduate curriculum in nutrition and dietetics in the Department of Nutrition and Food Science.

c. Manuals, Notes, and Other Contributions to Teaching

Helped to develop NFSC 100 as a high tech, Web-based non-lab science CORE course using WebCT and Blackboard. Over 1000 University of Maryland students enroll in this course every year. Currently I am responsible for the yearly revision of the NFSC 100 workbook. Workbook is 250 pages.

d. Teaching Awards & Other Special Recognition

- 1994 Certificate of Appreciation in Mentoring, Office of Multi-Ethnic Student Education, University of Maryland
- 1995 Outstanding Mentor Award, Ronald E. McNair Post-Baccalaureate Achievement Program, University of Maryland
- 2005 Outstanding Instructor Award, College of Agriculture Alumni Awards, University of Maryland
- 2006 Paul R. Poffenberg Excellence in Teaching and Advising Award, College of Agriculture and Natural Resources, University of Maryland
- 2006 Certificate of Recognition for Outstanding Teaching by the United States Department of Agriculture, National Awards Program for Excellence in College and University Teaching in the Food and Agricultural Sciences
- 2007 Center for Teaching Excellence Lily Fellow, University of Maryland

e. Advising: Other than Research Direction

- 1990 **Mentor**, Summer NIH Scientist Development Program. I arranged for students to rotate among various faculty labs in the Department to observe different nutrition research approaches.
- 1993 **Mentor**, Office of Multi-Ethnic Student Education
The Office of Multi-Ethnic Student Education (OMSE) is an academic support unit that offers a variety of services and programs to enhance the academic experience of undergraduate students of various underrepresented ethnic backgrounds at the University of Maryland. I introduced students to laboratory assessment of iron nutritional status, using ELIZA techniques.
- 1997, 2004 **Mentor**, Ronald E. McNair Academic Achievement Program The mission of the University of Maryland Ronald E. McNair Post-Baccalaureate Achievement Program is to increase the number of undergraduates enrolling in graduate school to pursue doctoral degrees. McNair scholars are a unique group of students who receive advising, academic skill enhancement, research experiences, counseling, tutoring and other assistance in preparing for enrollment in graduate school. I mentored students to develop and present poster sessions and scholarly reports on nutrition in Africa and the Middle East.
- 2000-2002 **Mentor** to students in the elite University of Maryland GEMSTONE Program.
The Gemstone Program at the University of Maryland is a unique multidisciplinary four-year research program for selected undergraduate honors students of all majors. Under guidance of faculty mentors and Gemstone staff, teams of students design, direct and conduct significant research exploring the interdependence of science and technology with society. I helped students to develop and present a research project comparing the Mayan Indians of the Yucatan's use of traditional versus modern medicine in solving nutrition and health problems.
- 2002-2005 **Faculty Advisor**, Food and Nutrition Graduate Student Association. I respond to student requests for assistance with various projects they initiate.
- 2004 **Mentor and Adviser**, National Society for Minorities in Agriculture, Natural Resource Related Sciences. The National Society for Minorities in Agriculture, Natural Resources and Related Sciences supports endeavors that will always foster and promote the

agricultural sciences and related fields in a positive manner among ethnic minorities. This is a new Society formed to encourage minorities to study agriculture. I filled out all paper work to get the chapter started, helped to formulate organizational rules, and given considerable amount of time to the new officers.

f. Advising: Research Direction

Masters Students (completed)

- 1990 **Delores C. Armotrading.** Cultural and Socioeconomic Factors that Influence Infant Feeding Practices among International Students at a Large University. **Completed.** 1990. (University of Florida, Gainesville).
Current Status: She is now an **Associate Professor** at the University of Florida, Gainesville. In 2000, James was named Teacher of the Year for HHP, and has received the Faculty Research Award from HEB four times in the past 10 years.
- 1991 **Seema Bhagwat.** Age at Initiation of Alcohol Intake as a Risk Factor for Breast Cancer. **Completed.** 1991. **Current Status:** She now works as an Agricultural Officer at the Beltsville Human Nutrition Center.
- 1991 **Laura Power.** The Relationship of Food Hypersensitivities to Blood Types. **Completed.** 1991. **Current Status:** Started own successful nutrition assessment business.
- 1991 **Cindy A. Roberts.** Accuracy of Self-measurement of Waist and Hip Circumference in a Sample of Health Fair Participants and the Relationship of Waist-to-Hip Ratio to Serum Lipids. **Completed.** 1991. **Current Status:** Works for the Human Nutrition Information Center of the United States Department of Agriculture.
- 1993 **Janice N. Dorah.** Iron and Anemia Status of Women Attending the Six Week Postpartum Clinic at the University Hospital, Jamaica. **Completed.** 1993.
Current Status: Works in private sector research company.
- 1995 **Alison Miner.** Assessment of Coronary Heart Disease Risk in a Central and South American Sample Living in the Washington, D.C. Area. **Completed.** 1995.
Current Status: Is an Associate Professor at Prince Georges County Community College in Maryland.
- 1999 **Jatinder Dora.** Sensitivity and Specificity of Iron Assessment Methods in Women with and without Infections during Pregnancy. **Completed.** 1999.
Current Status: Works with nutrition consulting firm.

- 2001 **Ning Wu.** Thyroid Dysfunction and Lipid Abnormalities. **Completed.** 2001. **Current Status:** Matriculated at Brown University for a PhD.
- 2002 **Binetou Seck.** Prevalence and Etiology of Anemia in Pregnant Women in Senegal. **Completed.** 2002. Subsequently entered the PhD Program at the University of Maryland.
- 2002 **Sue Thorsland.** The Contribution of Infection Presence, a Measured by C-Reactive Protein, to the Hemoglobin Difference between Black and White Males, Aged 20-50 Years. **Completed** 2002. **Current Status:** Employed by Women Infants and Children's (WIC) program in New Jersey.
- 2008 **Reem Al Shamsi.** The Prevalence and Selected Determinants of Children and Adolescent Overweight and Obesity in the City of Al Ain, UAE. **Completed** 2008. **Current Status:** Research Assistant at University in UAE.

Other Master's students advised (as committee member).

- 1996 **Mercedeh Deyhim.** The Effect of Beta-carotene Supplementation on Lymphocyte Proliferation and Cytokine Production. **Completed.** 1996.
- 1996 **Roshini Ponnampereuma.** Development and Testing of an Alternative Method for Assessing Vitamin A Status in Field Studies. 1996. Conducts research at NIH on Vitamin A metabolism. Did not complete MSc.
- 1996 **Sonali Kumar.** The Impact of Viral and Bacterial Infections on Serum Ferritin Levels in Pregnant Women. 1996. Married and husband transferred to another location, did not complete MSc.
- 1998 **Julie Hettinger.** Nutritional Evaluation of a Super Pantry Program. **Completed.** 1998.
- 2001 **Kirsten Sgambat.** The Effect of Iron Supplementation on Urinary Zinc Excretion in Early Lactation. **Completed.** 2001.

Doctoral Students

i. Students Completed

- 1999 **Pamela Pehrson.**
 Dissertation: "Postpartum Iron Status in Nonlactating Participants and Nonparticipants in the Special Supplemental Nutrition Program for Women, Infants, and Children".
Completed 1999. **I was a committee member.**

2002 **Carolyn Chung.**

Dissertation: “Impact of Chronic Iron Supplementation on Zinc Absorption and Utilization in Lactating Women”. PhD **Completed** December, 2002. Co-Chair. Post-doctoral Fellow, Department of Nutrition, University of California, Davis, CA. **I was co-chair.**

2002 **Lorna Pardo.**

Dissertation: “Determinants of Pregnancy Outcome in European and African- American Women.” Studies from the National Maternal and Infant Health Survey. PhD **Completed** August, 2002. Works for an epidemiological company. **I was the chair.**

2003 **Monica Jackson.**

Dissertation: “A Comparison of Estimation Methods for Spatial Data Analysis with Discrete Data on A Lattice.” She completed her PhD in Applied Mathematics and Scientific Computation Program. (**Completed** December 2003). Accepted post doctoral fellowship in Applied Math at Emory University, Atlanta Georgia. **I was a committee member.**

2006 **Lili Yao**

Dissertation: “Do Adrenergic Receptor (ADR) Polymorphisms Influence the Effects of Strength Training on Mid-thigh Inter-Muscular Adipose Tissue (IMAT) and Low Density Muscle (LDM) in Older Adults? **Completed** June, 2006. **I was a committee member**

2006 **Regina Phillips.**

Dissertation: “Social Network and Dietary Intake in Community Dwelling Elderly Women: A Secondary Analysis of the Third National Health and Nutrition Examination Survey”. **Completed** May,2006. **I was co-adviser.**

Student was a doctoral candidate in Public & Community Health in the College of Health and Human Behavior. She is now an **Associate Professor** at Villanova University, Baltimore, MD.

2006 **Yang Pan.**

Dissertation: “Why Do African Americans Have Higher Serum Ferritin than European Americans, Despite Lower Hemoglobin?” **Completed** December, 2006. **I was the chair.**

Yang won the Graduate School and Center for Teaching Excellence Distinguished Teaching Assistant Award for 2003-2004. She was awarded the College of Agriculture and Natural Resources Outstanding Teaching Assistant Award in 2004. Yan Pan won the Graduate Student Poster Competition for Doctoral Students in 2005. She won the Summer Internship Program Fellowship and is now employed as a Research Scientist with the **Coke Cola Company** in Houston, Texas

2006 **John Parry.**

Dissertation: “Fatty Acid, Tocopherol, Carotenoid, and Antioxidant Properties of Cold-pressed Edible Seed Oils and Meals”. **I was a committee member. Completed** December 2006. John is currently an Assistant Professor at Virginia State University.

2006 **Steven Honkit.**

Dissertation: “Modulation of p21 Human Tumor Suppressor Gene Expression by Zinc Status in Human Hepatoblastoma and Normal Human Bronchial Epithelial Cells. **Completed** Dec 2006. **I was a committee member.**

2007 **Binetou Seck.**

Dissertation: “The Effectiveness of the Iron Supplementation Program for Pregnant Women in Senegal Can Be Improved” **Completed** August 2007. **I was the chair.**

Binetou was awarded the College of Agriculture Outstanding Teaching Assistant Award in 2004. She won a Graduate Research Initiation Day Award and \$600 Travel Grant in 2007 and the 2007 Center for Teaching Excellence Distinguished Graduate Teaching Assistant Award.

2008 **Amy Anderson.** PhD student.

Dissertation Topic: Dietary patterns, Body Fat Distribution and Insulin Sensitivity In Older Adults. She is expected to complete her studies in Aug 2008. **I am a committee member**

2007 **Jun Jun Zhang.** PhD student.

Dissertation Topic: The Influence of Resveratrol and Zinc on Cell Cycle Progression in Normal Human Prostate Epithelial Cells. He is expected to complete his studies in Dec 2008. **I am a committee member.**

2006 **Uche Ukabundu.** PhD student.
Dissertation Topic: Metabolic Syndrome, Plasma Lipid, Lipoproteins, and Glucose Levels and Breast Cancer Risk Among Premenopausal African American Women. Expected to complete in Dec 2008. **I am a committee member.**

Uche won the 2007 Center for Teaching Excellence Distinguished Graduate Teaching Assistant Award.

2009 **Neda Sarafrazi.** PhD student.
Dissertation Topic: Appropriate Cut-off Values for the Diagnosis of the Metabolic Syndrome in Mexican American Adults. **I am the chair.**

Neda won the 2008 Center for Teaching Excellence Distinguished Graduate Teaching Assistant Award. She is expected to complete her studies by Dec 2008. Neda also won second place and a monetary prize in the Graduate School Graduate Research Initiation Day Competition in Biology and Health

ii. Current Masters/ Doctoral Students

2008 **Omayra Rodriquez.** Ms/PhD student.
Dissertation Topic: Coronary Heart Disease Risk and Obesity among Central Americans in the Washington Area. She completed her studies in 2009. **I am the chair.**

2007 **Junhao Ma.** PhD student.
Dissertation Topic: Stroke Belt in the Carolina Coastal Region, Diet, and the Relationship with West Central Africa. Completed his studies in Dec 2009. **I am a committee member.**

2007 **Margaret Udahogoora.** PhD student.
Dissertation Topic: Metabolic Syndrome, plasma lipoproteins, glucose levels and breast cancer risk among premenopausal African American women. She is expected to complete her studies in 2011. **I am the chair.**

2008 **Min Wu.** PhD student.
Dissertation Topic: Novel selenium functions in DNA damage response and senescence. She completed her studies in 2011. **I am a committee member.**

2009 **Muneera AlHarbi.** PhD student from Saudi Arabia. Expected to complete in 2013.

2009 **Tahani Al Zareef.** PhD student from Saudi Arabia. Expected to complete in 2013/

iii. Other Doctoral Students Advised

1991 **Doreen Liou.**

I was the advisor for this student who subsequently left the University of Maryland for personal reasons. 1991. Doreen is currently an Associate Professor at Montclair State University, Upper Montclair, New Jersey.

1993 **Maryanne Mihok.**

I gave informal statistical and research design dissertation advice to this student during her doctoral process. She has now graduated and is an Assistant Professor of Dietetics, Messiah College, Pennsylvania.

1994 **Florence Chanetsa.**

I was this student's doctoral advisor. This student left the University of Maryland for personal reasons. Subsequently completed PhD and is an Epidemiologist with the Centers for Disease Control in Columbia, Missouri.

iv. Doctoral Students Mentored from Outside UMCP

1992 **Fatima Vega.**

Dietary Practices, Intake, and Attitudes among Bodybuilders and other Athletes attending a gym in Metropolitan Maryland. 1992. Fatima is from Universidad Complutense de Madrid, Spain. Fatimah finished her Ph.D. there in 1994 and assumed a faculty position at Universidad Complutense de Madrid, Spain. **Completed** in Madrid.

2004 **Fahhad Alajmi.**

Study of Dietary Intake in Kuwait. Griffith University, Nathan Campus Queensland Australia. I was asked by his Griffith University doctoral Chair to be the External Examiner for Mr. Alajmi's dissertation. Mr. Alajmi **completed** his PhD in July, 2004. He is an Assoc Professor of Nutrition at College of Health Sciences, Kuwait.

2007 **Sonali Maheswari.**

Nutritional assessment of adolescents attending Anganwadi of Tamil State, India. I was asked by her University doctoral Chair to be the External Examiner for Ms. Mahaeswari's dissertation. Gandigram Rural University, Tamil Nadu State, India

2008 **Safaa Kamel Hassan**

Biochemical Impact of Micronutrients on Special patient Status. Chemistry, Department, Cairo University, Egypt.

g. Extension Activities/Consultancies

I have developed several programs and projects in Egypt and Kuwait to improve the micronutrient status of children and adolescent girls. One of the awards (plaques) that I received from the Kuwait Ministry of Health was for this reason.

I have also received funding from **USAID** (1997 World Women in Development Program/ Global WID Office, Washington DC) and been a consultant for both the United States Agency for International Development (in Egypt in 1994 and 1998) and the **World Health Organization** (Kuwait 1999, 2003) to help set up applied nutrition programs to eliminate national level micronutrient malnutrition and to evaluate their effectiveness. **These programs have helped millions of people.**

“In-Service Training on Iron Deficiency and Anemia”, Presented to Cooperative Extension Agents in Maryland. 12 Field Agents were present, 1996.

4. SERVICE

a) Professional

- 1992 Review Panel for **National Research Council** - Proposals for research in developing countries developed by faculty of the Historically Black Colleges and Universities.
- 1993 Review Panel for University Development Linkages Program Sponsored by **United States Agency for International Development**.
- 1996 Review Panel for **United States Department of Agriculture**, National Needs Fellowships Program.
- 1977 Member of the United States Department of Health and Human Services, **Maternal and Child Health Bureau** Panel of Experts for Maternal Nutrition and Pregnancy Outcome.
- 1998 Review Panel for **NIH Program Grant** (PO1) Pregnancy and Nutritional Status, Howard University.
- 1998-2000 Review Panel for Research and Scientific Exchange Division, International Cooperation and Development, Foreign Agricultural Service, **United States Department of Agriculture**.
- 2000-2003 Member, Review Panel for **Center for the International Exchange of Scholars**, Senior Fulbright Fellows Program.
- 2004 Review Panel for **Maternal and Child Health Bureau** – Maternal and Child Health Bureau Awards Panel. June and October Panels. Each member reviews 6 proposals; 3 as primary reviewer and three others as secondary reviewer.
- 1999-2009 **Co-Editor**, Journal Ecology of Food and Nutrition
- 2009-present **Member**, Editorial Board, International Journal Nutrients
- 2010-present **Member**, Editorial Board, International Journal of Food Safety, Nutrition, and Public Health

b) Campus

Departmental

- 1990 **Member**, Promotion and Tenure Committee, Department of Human Nutrition and Food Systems.
- 1991 **Member**, Chair Search Committee, Department of Human Nutrition and Food Systems.
- 1993 **Member**, Executive Committee of the Department of Human Nutrition and Food Systems.
- 1994 **Chair**, Search Committee, Clinical Nutritionist, Department of Human Nutrition and Food Systems.
- 1997 **Chair**, Graduate Admissions Committee, Department of Nutrition and Food Science.
- 2000 **Chair**, Search Committee, Nutritional Epidemiologist, Department of Nutrition and Food Science.
- 2002 **Chair**, Graduate Teaching Assistant Selection Committee, UMCP.
- 2002 **Member**, Graduate Admissions Committee, 2002-2004
- 2002 **Chair**, Institutional Review Board of the Department of Nutrition and Food Science, 1997, 2002.
- 2003 **Member**, Human Subjects Committee, Department of Nutrition and Food Science, (Also served as Chair several years, most recent 2004).
- 2004 **Member**, Chair Search Committee, Department of Nutrition and Food Sciences.
- 2004 **Member**, Scholarship Committee, Department of Nutrition and Food Science, 2003, 2004
- 2004 **Chair**, Merit Pay Distribution Committee, Department of Nutrition and Food Science, 1997, 2004
- 2005 **Chair**, Appointment, Promotion and Tenure Committee, Department Chair, NFSC (Drs. Yu and Dr. Sahyoun)
- 2006 **Chair**, Institutional Review Board of the Department of Nutrition and Food Science, University of Maryland. 1997, 2002.

- 2006 **Chair**, Assistant Professor Search Committee, Department of Nutrition and Food Science.
- 2006 **Member**, Scholarship and Awards Committee
- 2007 **Chair**, Scholarship and Awards Committee
- 2008 **Member**, Merit Pay Distribution Committee, Department of Nutrition and Food Science.
- 2008 **Chair**, Merit Pay Distribution Committee, Department of Nutrition and Food Science.
- 2008 **Member**, Teaching Assistant Selection Committee, Department of Nutrition and Food Science.
- 2009 **Member**, Admissions Committee, Department of Nutrition and Food Science
- 2009 Member, Dept. Chair Search Committee, Department of Nutrition and Food Sciences
- 2011 **Chair**, Associate Professor Search Committee, Department of Nutrition and Food Science.

College

- 1993 **Vice President**, Executive Committee of the College Assembly, College of Human Ecology.
- 1993 **President, Executive Committee** of the College Assembly, College of Human Ecology.
- 1993 **Member**, Budget Committee, College of Human Ecology.
- 1997 **Member**, Search Committee, Veterinary Epidemiologist, College of Veterinary Medicine.
- 2001-2003 **Member**, College of Agriculture and Natural Resources Appointment, Promotions, and Tenure Committee.

- 2005 **Member**, College Mary Shorb Committee
- 2006 **Member**, College Mary Shorb Committee
- 2006-7 **Member**, College PCC Committee
- 2007 **Chair**, Mary Shorb Committee

University

- 1990-1992 **Member**, Campus-wide Recruitment Committee, Graduate School.
- 1990-2003 **Coordinator**, Public Health Data Tapes Program of the National Center for Health Statistics.
- 1993 **Member**, Committee to Develop Implementation Strategy to integrate the Nutritional Science Program into the Department of Human Nutrition and Food Systems of the College of Human Ecology.
- 1994 **Member**, Search Committee for the Dean, College of Agriculture,
- 1995 **Senator**, University Senate, Faculty Affairs Committee.
- 1995-1997 **Member**, President's Commission on Ethnic Minority Issues.
- 1996 **Member**, Review Committee to Recommend Professor for Emeritus Standing in College of Agriculture.
- 1995-1997 **Member**, Executive Committee of the University of Maryland, Faculty Senate.
- 1997 **Member**, Search Committee, Veterinary Epidemiologist, College of Veterinary Medicine.
- 2000-2008 **Building Coordinator**, Marie Mount Hall.
- 2000-2008 **Coordinator**, OWL Lab, Marie Mount Hall, College of Agriculture and Natural Resources. 2000-present.
- 2009-2010 **Member**, Advisory Group to Dean School of Public Health on Programs and Organization of the Madieu Williams Center for Global Health
- 2010 **Member**, Presidents Commission on Merit Pay Distribution Committee, University of Maryland

2011 **Chair**, Appeals Committee for Appointments, Promotion, Tenure Committee, University of Maryland

c) Community, State, National

1994 **Member**, Council of Trend Advisors for the Department of Home Economics, Hood College, Frederick, MD.

d) Service Awards and Honors

1998 “Outstanding Service Contributions” to the Ministry of Health, Nutrition Unit, Kuwait City, **Plaque of Appreciation.**

2001 “Outstanding Service to the Research Mission of the Nutrition Unit of the Ministry of Health, Kuwait”, **Plaque of Appreciation.**

2004 **Research Mentor Award** Ronald E. McNair Post-Baccalaureate Achievement Program, University of Maryland..

2004 Member **Sigma Xi**, International Scientific Research Society

i. International Service and Consultancies

1994, 1998 **United States Agency for International Development** (in Egypt). I consulted for USAID twice, both times in Egypt. I assessed the micronutrient situation in that country and the institutional capability of that country to mount a large scale program to eliminate micronutrient malnutrition.

1995 **Pan American Health Organization** (Washington, DC). 1995. I helped to develop a Situation Analysis and Position Paper on Breastfeeding for the English and Speaking Americas.

1999 **World Health Organization** (in Kuwait). This involved assessment of the micronutrient situation, writing a WHO Report, training Kuwaiti personnel in data collection and analysis and report writing. I also gave seminars on new nutrition work and wrote a trip report of findings to the Ministry of Health.

- 2000-2001 **Ministry of Health, Nutrition Administration, Government of Kuwait.**
Assisted with assessment and planning to eliminate micronutrient malnutrition in Kuwait. I also assisted with Report writing to Principal Secretary of the Minister of Health.
- 2003 **World Health Organization/Ministry of Health (Kuwait) January 2003.**
This involved developing a strategy to overcome Micronutrient malnutrition for the whole of the Kuwaiti population. Here I recommended the involvement of industry in fortifying drinks commonly consumed by schoolchildren in Kuwait. I also helped to develop guidelines and protocols for assessing and managing pregnant women when they visit antenatal clinics in Kuwait.
- 2006 **Kuwait Institute for Scientific Research.** I consulted in Maryland with one of KISR's senior scientists to develop plans and a strategy to conduct the first Kuwait National Health and Nutrition Examination Survey, which is modeled after our National Health and Nutrition Examination Surveys.
- 2010 **Kuwait Institute for Scientific Research.** I consulted in Maryland with one of KISR's senior scientists to develop a strategy for developing sampling weights for the analysis of data from the first Kuwait National Health and Nutrition Examination Survey.