

CURRICULUM VITAE
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Biographical and Personal Information

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Academic History

- Ph.D.:** Nutritional Sciences, University of Wisconsin-Madison.
Minor: Applied Statistics. 1982
- M.S.:** Preventive Medicine-Epidemiology, University of Wisconsin-Madison. 1982.
- M.S.:** Nutritional Sciences, University of Wisconsin-Madison. 1979.
- B.A.:** Anthropology, University of Wisconsin-Milwaukee. 1973.

Scholarships and Fellowships

NIH Postdoctoral Fellowship in Biostatistics, Nutrition, Preventive Cardiology and Cardiovascular Epidemiology, Northwestern University Medical School, Department of Community Health and Preventive Medicine, Chicago, IL. 1982-83.

Honors and Appointments

Member, DEQAS Advisory Panel, 2013-Present (<http://www.deqas.org/>)

Philip M. Farrell Population Health Distinguished Alumni Lecture 2012. Department of Population Health, Madison, WI. March 26, 2012.

Adjunct Professor, Department of Population Health Sciences, School of Medicine and Public Health, University of Wisconsin, Madison, WI, USA. 2015-2018

Chair, International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) Working Group on *Vitamin D Standardization Program* (WG-Vit D). 2018-2019
<http://www.ifcc.org/ifcc-scientific-division/sd-working-groups/wg-vit-d/>

Professional Areas

Vitamin D Laboratory Standardization, Public Health Surveillance, Nutritional & Cardiovascular Epidemiology, and Epidemiological Methods.

Employment Record

- 2019 – Present Consultant, International Federation of Clinical Chemistry and Laboratory Medicine (IFCC), Committee on Bone Metabolism (C-BM)
- 2018 – Present Coordinator, Vitamin D Standardization Program (VDSP) LLC
- 2010 – 2018 Coordinator, Vitamin D Standardization Program (VDSP) and Consultant, Office of Dietary Supplements, National Institutes of Health (NIH)
- 2008 – 2015 Director, Population Studies Program, Office of Dietary Supplements, National Institutes of Health (NIH), Bethesda, MD, USA (GS 15). (Retired from Federal Service on 7/28/2015)
- 2004 - 2008 Scientific Review Administrator, Center for Scientific Review, National Institutes of Health (NIH), Bethesda, MD, USA (GS 14).
- 1999 - 2004 Professor and Director of Graduate Studies, Department of Social and Preventive Medicine, State University of New York at Buffalo, USA.
- 1998 - 1999 Health Statistician, Office of the Director, Office of Research on Minority Health, NIH. Bethesda, MD, USA.
- 1996 - 1998 Health Statistician, Epidemiology and Biometry Program National Heart, Lung, and Blood Institute, NIH. Bethesda, MD, USA.
- 1992 - 1995 Assistant to the Head, World Health Organization Collaborating Centre for Health Examination Surveys. Division of Health Examination Statistics (DHES), National Center for Health Statistics (NCHS). Hyattsville, MD, USA.
- 1989 - 1995 Chief, Longitudinal Studies Branch, Division of Health Examination Statistics (DHES), National Center for Health Statistics (NCHS). Hyattsville, MD, USA.
- 1985 - 1989 Health Statistician, DHES, NCHS. Hyattsville, MD, USA.
- 1983 - 1985 Junior Staff Fellow, Food and Drug Administration. Washington, D.C, USA.
- 1982 - 1983 NIH Postdoctoral Fellow. Department of Community Health and Preventive Medicine. Northwestern University. Chicago, Il, USA

Publications in Peer Reviewed Journals

1. Slavin JL, Sempos CT, Marlett JA, and Brauer PM. Predicting gastrointestinal transit time from other measures of bowel function. *Am. J. Clin. Nutr.* 1981; 34:2111-2116.
2. Johnson NE, Sempos CT, Elmer PE, Allington JK, and Mathews ME. Development of a dietary intake monitoring system for nursing homes. *J Am Diet Assoc* 1982; 80:549-57.
3. Sempos CT, Johnson NE, Elmer PE, Allington JK, and Mathews ME. A dietary survey of 14 Wisconsin nursing homes. *J. Am. Dietet. Assoc.* 1982; 81:35-40.
4. Cooper R, Miller K, Trevisan M, Sempos CT, et al. Family History of hypertension and red cell cation transport in high school students. *J. Hypertension.* 1983; 1:145-149.
5. Trevisan M, Cooper R, Ostrow D, Sempos C, et al. Red cell cation transport: racial differences between black and white school children. *J. Hypertension.* 1983; 1:245-249.
6. Sempos C, and Cooper R. Passive euthanasia of patients of Down's syndrome (Letter). *Arch. Int. Med.* 1983; 143:1492.
7. Cooper R, and Sempos C. Recent mortality patterns associated with economic development in Eastern Europe and the USSR. *J. Natl. Med. Assoc.* 1984; 76:163-166.
8. Sempos CT, Johnson NE, Smith EL, and Gilligan C. A two-year dietary survey of women. *J. Am. Dietet. Assoc.* 1984; 84:1008-1013.
9. Cooper RS, Schatzkin AG, and Sempos CT. Rising death rates among Polish men. *Int. J. Health Services.* 1984; 14:289-302.
10. Cooper R, Van Horn L, Liu K, Trevisan M, Nanas S, Ueshima H, Larbi E, Yu C, Sempos C, et al. A randomized trial on the effect of sodium restriction on blood pressure in adolescents. *J. Hypertension.* 1984; 2:361-368.
11. Trevisan M, Ostrow D, Cooper R, Sempos C, and Stamler J. Sex and race differences in sodium-lithium countertransport and red cell sodium concentration. *Am. J. Epidemiol.* 1984; 120:537-41.
12. Cooper R, Trevisan M, Van Horn L, Larbi E, Liu K, Nanas S, Ueshima H, Sempos C, et al. The effect of moderate sodium reduction on red cell sodium concentration and sodium-lithium countertransport. *Hypertension* 1984; 6:731-735.

13. Sempos C, Cooper R, Trevisan M, Ostrow D, and Stamler J. Family history of hypertension and rates of sodium transport: Absence of an association in population based studies. Clin. Exper. Hyper.-Theory Prac. 1984; A6:1379-1393.
14. Cooper R, Trevisan M, Ostrow D, Sempos C, and Stamler J. Blood pressure and sodium-lithium countertransport: Findings in population-based surveys. J. Hypertension 1984;2:467-471.
15. Sempos CT, Johnson NE, Smith EL, and Gilligan C. Effect of intraindividual and interindividual variation in repeated diet records. Am. J. Epidemiol. 1985;121:120-130.
16. Cooper R, Ferlinz J, and Sempos C. Lipoproteins and angiographic coronary artery disease in blacks. Am. Heart J. 1985; 110-1006-1011.
17. Thomas I, Gupta S, Sempos C, and Cooper R. Serum lipids of Indian physicians living in the U.S. compared to U.S.-born physicians. Atherosclerosis 1986; 61:99-106.
18. Sempos C, Cooper R, Johnson C, Drizd T, and Yetley E. Dietary calcium and blood pressure in NHANES I and NHANES II. Hypertension 1986; 8:1067-1074.
19. Fulwood R, Rifkind B, Havlik R, Russell-Briefel R, Lippel K, and Sempos C. Trends in serum cholesterol levels among United States adults ages 20-74 years, from the National Health and Nutrition Examination Surveys, 1960-80. JAMA. 1987; 257:937-942.
20. Woteki C., Russell-Briefel R, and Sempos C. Epidemiologic studies in nutrition: Utility and limitations. J. Nutr. 1987; 117:401-402.
21. Looker AC, Sempos CT, Johnson CL, et al. Dietary intakes and iron status of vitamin-mineral supplement users and nonusers, age 1-19 years. Am J Clin Nutr 1987;46:665-72.
22. Sempos C, Johnson C, Kovar MG, Cooper R, and Yetley EA. Dietary calcium intake in hypertension. Author's response to letter to the editor. Hypertension 1987; 10:352-353.
23. Looker A, Sempos CT, Johnson C, and Yetley EA. Vitamin-mineral supplement use: Association with dietary intake and iron status of adults. J Am Diet Assoc 1988;88:808-14.
24. Sempos CT, Cooper RS. Preliminary Report: Findings from the aspirin component of the Ongoing Physician's Health Study (Letter) N. Engl. J. Med. 1988; 318:924-925.
25. Sempos CT, Cooper R, Kovar MG, and McMillen M. Divergence of recent U.S. trends in coronary mortality in the four major race-sex groups. Am J Pub Hlth 1988;78:1422-7.

26. Looker A, Underwood B, Wiley J, Fulwood R, & Sempos C. Serum alpha-tocopherol levels of persons aged 4-74 years from three Hispanic groups. *Am J Clin Nutr* 1989;50:491-6.
27. Sempos C, Fulwood R, Haines C, Carroll M, Anda R, Williamson DF, Remington P, Cleeman J. Prevalence of high blood cholesterol levels among adults in the United States. *JAMA* 1989; 262:45-52.
28. Smith EL, Gilligan C, Smith PE, and Sempos C. Calcium supplementation and bone loss in middle-age women. *Am. J. Clin. Nutr.*, 1989; 50:833-42.
29. Looker A, Sempos C, Liu K, Johnson CI, Gunter EW. Within-person variance in biochemical indicators of iron status: Effects on prevalence estimates. *Am J Clin Nutr* 1990; 52:541-547.
30. Cooper R, Sempos C, Heih SC, and Kovar MG. Slowdown in the decline in stroke mortality in the United States, 1978-1986. *Stroke* 1990;21:1274-1279.
31. Lewis CJ, McDowell MA, Sempos C, Lewis K, Yetley EA. Relationship between age and serum vitamin A in children aged 4-11 y. *Am J Clin Nutr* 1990; 52:353-60.
32. Sempos CT. Invited Commentary: Some limitations of semiquantitative food frequency questionnaires. *Am. J. Epidemiol.* 1992;135:1127-1132.
33. Briefel RR, Flegal KM, Winn DM, Loria CL, Johnson CL, and Sempos CT. Assessing the nation's diet: Limitations of the food frequency questionnaire. *J. Am. Diet. Assoc.* 1992;92:959-962.
34. Sempos C, Briefel R, Flegal KM, Johnson CL, Murphy RS and Woteki C. Factors involved in selecting a dietary survey methodology for national nutrition surveys. *Australian J. Nutr. & Dietet.* 1992;49:96-101.
35. Sempos C, Briefel R, Flegal KM, Johnson CL, Murphy RS and Woteki C. Factors involved in selecting a dietary survey methodology for national nutrition surveys - Reply to Dr. Baghurst's Commentary. *Australian J. Nutr. & Dietet.* 1992;49:103-104.
36. Sempos CT, Flegal KM, Johnson CL, Loria CM, Woteki CE, Briefel RR. Issues in the long-term evaluation of diet in longitudinal studies. *J Nutr* 1993;123:406-412.
37. Denke M, Sempos C and Grundy S. Excess body weight: An under-recognized cause of high blood cholesterol in American men. *Arch Int Med* 1993;153:1093-1103.

38. Johnson CL, Rifkind BM, Sempos CT, Carroll MD, Bachorik PS, Briefel RR, Gordon DJ, Burt VL, Brown CD, Lippel K, Cleeman JI. Declining serum cholesterol levels among U.S. adults. The National Health Examination Surveys. *JAMA* 1993;269:3002-8.
39. Sempos CT, Cleeman JI, Carroll MD, Johnson CL, Bachorik PS, Gordon DJ, Burt VL, Briefel RR, Brown CD, Lippel, Rifkind BM. The prevalence of high blood cholesterol among US adults: An update based on the National Cholesterol Education Program (NCEP) revised adult treatment panel guidelines (ATP II). *JAMA* 1993;269:3009-3014.
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41. Looker AC, Harris TB, Madans JH, and Sempos CT. Dietary calcium and hip fracture. The NHANES I Epidemiologic Follow-up Study. *Osteoporosis Inter* 1993;3:177-184.
42. Feinleib M, Rifkind B, Sempos C, Johnson C, Bachorik P, Lippel K, Carroll M, Ingster-Moore L, Murphy R. Methodological issues in the measurement of CVD risk factors: Within-person variability in selected lipid measures - results from the Third National Health and Nutrition Examination Survey. *Can J Card* 1993;9(Suppl D):87D-88D.
43. Denke M, Sempos C and Grundy S. Excess body weight: An under-recognized cause of high blood cholesterol in White American women. *Arch Int Med*, 1994;154:401-410.
44. Sempos CT, Looker AC, Gillum RF, Makuc DM. Body iron stores and the risk of coronary heart disease. *New Engl J Med* 1994;330:1119-1124.
45. Sempos CT, Looker AC, Gillum RF, Makuc DM. Body iron stores and the risk of coronary heart disease. Authors reply to letters to the Editor. *New Engl J Med* 1994;331:1160.
46. Rehm J, Sempos CT. Alcohol consumption and all cause mortality. *Addiction* 1995;90:471-80.
47. Rehm J, Sempos CT. Alcohol consumption and mortality: Questions about causality, confounding and methodology. *Addiction* 1995;90:493-498.
48. Loria CM, Bush TL, Carroll MD, Looker AC, McDowell MA, Johnson CL, Sempos CT. Macronutrient intakes among adult Hispanics: A comparison of Mexican Americans, Cuban Americans and Mainland Puerto Ricans. *Am J Pub Hlth* 1995;85:684-689.

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50. Sempos CT, Looker AC, Gillum RF. Iron and heart disease: The epidemiologic data. *Nutrition Reviews*. 1996;54 (3):73-84.
51. Gillum RF, Sempos CT, Looker AC, Chien CY. Serum transferrin saturation and stroke incidence and mortality in men and women: The NHANES I Epidemiologic Follow-up Study. *Am J Epidemiol* 1996;144:59-68.
52. Gillum RF, Sempos CT. Hemoglobin, Hematocrit, and stroke incidence in women and men. *Stroke* 1996;27(2):1910.
53. Namekata T, Moore D, Knopp R, Marcovina S, Perrin E, Hughes D, Suzuki K, Mori M, Sempos C, Hatano S, Hayashi C, Hasegawa M. Cholesterol levels among Japanese Americans and other populations: Seattle Nikkei Health Study. *J Atherosclerosis and Thrombosis*. 1996;3:105-113.
54. Briefel R, Sempos CT, McDowell M, Chien S, Alaimo K. Dietary methods research in the NHANES III: Underreporting of energy intake. *Am J Clin Nutr* 1997;65(suppl):1203s-9s.
55. Ernst ND, Sempos CT, Briefel RR, Clark MB. Consistency between US dietary fat and serum total cholesterol concentrations: The National Health and Nutrition Examination Surveys. *Am J Clin Nutr* 1997;66(suppl):965s-972s.
56. Gillum RF, Sempos CT. The end of the long-term decline in stroke mortality in the United States. *Stroke* 1997;28:1527-1529.
57. Rehm J, Bondy SJ, Sempos CT, Vuong CV. Alcohol consumption and coronary heart disease morbidity and mortality. *Am J Epidemiol* 1997;146:495-501.
58. Notzon FC, Komarov YM, Ermakov SP, Sempos CT, Marks JS, Sempos EV. Causes of declining life expectancy in Russia. *JAMA* 1998;279:793-800.
59. Gillum RF, Mussolino ME, Sempos CT. Baseline serum total cholesterol and coronary heart disease incidence in African American women (The NHANES I Epidemiologic Follow-up Study). *Am J Cardiol* 1998;81:1246-9.
60. Sempos CT, Durazo-Arvizu R, McGee DL, Cooper RS, Prewitt TE. The influence of cigarette smoking on the association between body weight and mortality. The Framingham Heart Study revisited. *Ann Epidemiology* 1998;8:289-300.

61. Iribarren C, Sempos CT, Eckfeldt JH, Folsom AR. Lack of association between ferritin level and measures of LDL oxidation: The ARIC Study. *Atherosclerosis* 1998;139:189-95.
62. Herrington DM, Fong J, Sempos CT, Black DM, Schrott H, Rautaharju P, Bachorik P, Blumenthal R, Khan S, Wenger NK. Comparison of the Heart and Estrogen/Progestin Replacement Study (HERS) cohort with coronary heart disease from the Third National Health and Nutrition Examination Survey (NHANES III). *Am Heart J* 1998;136:115-24.
63. Sempos CT, Bild DE, Manolio T. The Jackson Heart Study. A study of cardiovascular disease in African Americans. *Am J Med Sci* 1999;317:142-146.
64. Sempos CT, Liu K, Ernst ND. Food and Nutrient Exposures: What to consider when evaluating epidemiologic evidence. *Am J Clin Nutr* 1999;69(suppl):1330s-1338s.
65. Rehm JT, Bondy SJ, Sempos CT, Vuong CV. Alcohol consumption and coronary heart disease morbidity and mortality [Author's reply]. *Am J Epidemiol* 1999;149:683.
66. The BMI in Diverse Populations Collaborative Group. Effect of Smoking on the Body Mass Index-Mortality Relation: Empirical Evidence from 15 Studies. *Am J Epidemiol* 1999;150:1297-1308.
67. Sempos, CT, Looker AC. Iron Status and the Risk of Coronary Heart Disease. *Nutrition, Metabolism and Cardiovascular Disease* 1999;9:294-303.
68. Jones DW, Sempos CT, Thom TJ, Harrington AM, Taylor H, Fletcher BW, Mehrotra BD. Rising levels of cardiovascular mortality in Mississippi, 1979-95. *Am J Med Sci* 2000;319:131-7.
69. Park YK, Sempos CT, Barton CN, Vanderveen JE, Yetley EA. Effectiveness of food fortification in the United States - the case of pellagra. *Am J Pub Hlth.* 2000;90:727-38.
70. Sempos CT, Looker AC, Gillum RF, McGee D, Vuong CV, Johnson CL. Serum ferritin and risk of death from all causes, and cardiovascular disease. The NHANES II Mortality Study. *Ann Epidemiology* 2000;10:441-448.
71. Wu T, Trevisan M, Grenco RJ, Falkner KL, Dorn, JP, Sempos CT. Examination of the relation between periodontal health status and cardiovascular risk factors: Serum total and high density lipoprotein cholesterol, C-reactive protein and plasma fibrinogen. *Am J Epidemiol* 2000;151:273-83.

72. Rehm J, Sempos CT, Kohlmeier L, Myers G, Thefeld W, Gunter E, Thamm, Dortschy R, Murphy R, Feinleib M, Hoffmeister H. A comparison of serum total cholesterol and their determinants between the Federal Republic of Germany and Berlin (West) and in the United States and their determinants. *Eur J Epi* 2000;16:669-75.
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74. Gergen PJ, Turkeltaub PC, Sempos CT. Does atopy influence mortality? Allergen skin test reactivity as a predictor of mortality in a national cohort. *Clinical & Experimental Allergy* 2000;30: 1717-1723.
75. Sempos CT, Looker AC. Iron Status and the risk of Coronary Heart Disease: An example of the use of nutritional epidemiology in chronic disease research. *J Nutr Biochem* 2001;12:170-182.
76. Executive Summary of The Third Report of the National Cholesterol Education Program (NCEP) Expert Panel on the Detection, Evaluation and Treatment of High Blood Cholesterol in Adults (Adult Treatment Panel III). *JAMA* 2001;285:2486-2497.
77. Sempos CT. Iron and colorectal cancer risk: Human studies [Letter to the editor]. *Nutr Rev* 2001;59(10);344.
78. Wu T, Dorn J, Donahue RP, Sempos CT, Trevisan M. Associations of serum c-reactive protein with fasting insulin, glucose, and glycolated hemoglobin: The Third National Health and Nutrition Examination Survey, 1988-84. *Am J Epidemiol* 2002;155:65-71.
79. Sempos CT. Do Body Iron Stores Increase the Risk of Developing Coronary Heart Disease? Invited Commentary. *Am J Clin Nutr* 2002;76:501-503 .
80. Crespo CJ, Smit E, Snelling E, Sempos CT and Anderson RE. Hormone Replacement Therapy and its Relationship to Lipid and Glucose Metabolism in Diabetic and Non-Diabetic Postmenopausal Women. Results from the Third National Health and Nutrition Examination Survey. *Diabetes Care* 2002;25:1675-1680.
81. Crespo CJ, Garcia Palmieri MR, Perez Perdomo R, McGee DL, Smit E, Sempos CT, Lee IM, Sorlie PD. The relationship of physical activity and body weight with all-cause mortality: Results from the Puerto Rico Heart Health Program. *Ann Epidemiol* 2002;12:543-552.

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101. Liu J, Sempos CT, Grundy SM, Dorn J, Donahue R, Trevisan M. Non-High-Density-Lipoprotein and Very-Low-Density-Lipoprotein Cholesterol and Their Risk Predictive Values in Coronary Heart Disease. *Am J Cardiol* 2006;98:1363-1368.
102. Liu J, Sempos. CT. Fetal Nutritional Status and Cardiovascular Risk Profile among Children. *Public Health Nutrition*, 2007;10:1067-1075.

103. Williams EM, Tayo BO, McLean B, Smit E, Sempos CT, Crespo CJ. Where's the kale? Environmental availability of fruits and vegetables in two racially dissimilar communities. *Environmental Justice* 2008;1:35-43.
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198. Rehm J, Room R, Monteiro M, Gmel G, Graham K, Rehn N, Sempos CT, Frich U, Jernigan D, Chapter 12 Alcohol Use. In: Comparative Quantification of Health Risks. Global and Regional Burden of Disease Attributable to Selected major Risk Factors., Volume 1. Edited by, Ezzati M, Lopez AD, Rogers A and Murray CJL. World Health Organization. 2004.
199. Looker AC, Johnson CL, Lacher DA, Pfeiffer CM, Schleicher RL, Sempos CT. Vitamin D Status: United States, 2001-2006. NCHS Data Brief 2011;59:1-8.
200. Gahche JJ, Bailey RL, Burt VL, Hughes J, Yetley EA, Dwyer J, McDowell M, Sempos CT. Dietary Supplement Use Among U.S. Adults Has Increased Since NHANES III (1988–1994). NCHS Data Brief 2011;61:1-8.
201. Schleicher RL, Sternberg MR, Lacher DA, Sempos CT, Looker AC, Durazo-Arvizu RA, Yetley EA, Chaudhary-Webb M, Maw KL, Pfeiffer CM, Johnson CL. A Method-bridging Study for Serum 25-hydroxyvitamin D to Standardize Historical Radioimmunoassay Data to Liquid Chromatography–Tandem Mass Spectrometry. National Health Statistics Reports, Number 93, April 25, 2016.

Non-Peer Reviewed Journal Publications

202. Sempos CT, Greger JL, Johnson NE, Smith EL, and Seyedabadi FM. Levels of serum copper and magnesium in normotensives and untreated and treated hypertensives. Nutr. Rept. Int. 1983; 27:1013-1020.
203. Sempos CT, Johnson NE, Smith EL, and Gilligan C. Estimated ratios of intra-individual to inter-individual variation for food groups. Nutr. Rept. Int. 1986; 34:1121-1127.
204. Sempos CT, Looker AC. Iron and Cardiovascular Disease. Nutrition & the M.D. 1995;21(5):1-3.
205. Joseph, ML, Carriquiry, AL, Fuller, WA, Sempos, CT. "Threshold modeling in the presence of measurement error: Application to serum vitamin D," Submitted 2012 for publication in Proceedings: Joint Statistical Meetings, Miami Beach, FL, August 2011.
206. Camara J, Hoofnagle A, Carter G, Sempos C. Take two: Gearing up for the next vitamin D commutability study. Clin Lab News February 1, 2015.

207. Sempos CT. Standardization of Vitamin D Assays: The past and present dilemma for vitamin D research. *Standardy Medycne* 2015;12:805-809.

Book Chapters

208. Smith EL, Sempos CT, and Purvis RW. Bone mass and strength decline with age. In: *Exercise and Aging: The Scientific Basis*. EL Smith and RC Serfas (Editors). Enslow Publishers, Hillside, New Jersey, 1981.
209. Cooper R, and Sempos C. Social factors and hypertension in blacks. In: R. Williams (Ed.), *Hypertension and Black Americans*, McGraw-Hill Baltimore, Maryland. 1985.
210. Murphy RS, and Sempos C. Design Considerations and Dimensions of Diet in the Third National Health and Nutrition Examination Survey (NHANES III). In: *Epidemiology, Nutrition and Health*. L. Kohlmeier and E. Helsing (Eds.), Smith-Gordon and Company Limited. London. 1989.
211. Looker A, Woteki C, Sempos C, and Johnson C. Chapter 7. Limitations in existing nutrition survey methods. In: Livingston, G. (Ed.) *Nutritional Status Assessment of the Individual*. Food and Nutrition Press, Inc. Trumbull, CT. 1989.
212. Sempos C, Looker A, Johnson C, and Woteki C. The importance of within-person variability in estimating prevalence. In: "Monitoring Dietary Intakes". MacDonald I. (ed.) Springer-Verlag, New York 1991, pp 99-109.
213. Sempos CT, Johnson CL, Carroll MA, Briefel R. Current levels and trends in serum cholesterol and cholesterol lipoproteins in adults 65 years of age and older. The National Health and Nutrition Examination Surveys. In *Nutritional Assessment of Elderly Populations*. Irwin H. Rosenberg (ed). Bristol-Myers Squibb/Mead Johnson Nutrition Research Symposium. Volume 13. Raven Press. New York. 1995.
214. Sempos CT, Gillum RF, Looker AC. Iron and heart disease: A Review of the epidemiologic data. In: *Preventive Nutrition: The Comprehensive Guide for Health Professionals*. A Bendich and RJ Deckelbaum (eds). Humana Press Inc. Totowa 1997.
215. Sempos CT, Gillum RF, Looker AC. Iron and heart disease: A Review of the epidemiologic data. In Press, in: *Preventive Nutrition: The Comprehensive Guide for Health Professionals*. Second edition. A Bendich and RJ Deckelbaum (eds). Humana Press Inc. Totowa, NJ. 2001.
216. Dyer AR, Liu K, Sempos CT. Nutrient Data Analysis Techniques and Strategies. In: Berdanier CD [Editor]. *Handbook of Food and Nutrition*. CRC Press. Boca Raton. 2002.

217. Sempos CT, Gillum RF, Looker AC. Iron and heart disease: A Review of the epidemiologic data. In: Preventive Nutrition: The Comprehensive Guide for Health Professionals. Third edition. A Bendich and RJ Deckelbaum (eds). Humana Press Inc. Totowa, NJ. 2005.
218. Sempos CT, Carter GD, Binkley N. Chapter 52. Vitamin D Metabolite Assay Standardization, Guidelines, Problems and Interpretation. In Vitamin D, 4th Ed. Edited by Feldman D, Pike W, Bouillon R, Giovannucci E, Goltzman D, and Hewison M. Elsevier. 2017

Vitamin D Standardization Program (VDSP) Presentations (2008 – Present):

Sempos CT. VDSP Performance Criteria: Re-Evaluation and Extension. International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) Committee on Bone Markers (C-BM). Invited Presentation. Euromedlab Meeting. May 20, 2019. Barcelona, Spain.

Sempos CT, Durazo-Arvizu, Fischer PR, Munns CF, Pettifor JM, Thacher TD. 25(OH)D Requirements to Prevent Rickets in Nigerian Children. Invited Presentation. Vitamin D Workshop. May 31, 2019. New York, NY, USA.

Free 25(OH)D Working Group (F25D-WG). INTERLABORATORY COMPARISON STUDY: FUTURE DIAGNOSTICS' KIT FOR THE DIRECT MEASUREMENT OF FREE 25-HYDROXYVITAMIN D. Invited Poster. Vitamin D Workshop. May 30, 2019. New York, NY, USA.

Sempos CT. Randomized Controlled Trails vs. Observational Epidemiology: A False Dichotomy. Invited Presentation. 2nd International Conference on Controversies in Vitamin D. 11-14 September 2018, Siena, Italy.

Sempos CT. Vitamin D Assays: An Update. Invited Presentation. 2nd International Conference on Controversies in Vitamin D. 11-14 September 2018, Siena, Italy.

Sempos CT. VDSP: How Far Have We Come and Where Are We Going? Invited Presentation. Vitamin D Standardization Program (VDSP): The Road Ahead. Bethesda, MD, USA. November 28-30, 2017.

Sempos CT. Centers for Disease Control and Prevention (CDC) Vitamin D Standardization Certification Program – Contributions to Vitamin D Standardization. Invited Presentation. Vitamin D Standardization Program (VDSP): The Road Ahead. Bethesda, MD, USA. November 28-30, 2017.

Sempos, CT. VDSP Performance Criteria: Re-Evaluation and Extension. Invited Presentation. Vitamin D Standardization Program (VDSP): The Road Ahead. Bethesda, MD, USA. November 28-30, 2017.

Sempos CT. VDSP Rickets Registry: Why? Invited Presentation. Vitamin D Standardization Program (VDSP): The Road Ahead. Bethesda, MD, USA. November 28-30, 2017.

Sempos CT. VDSP: The Road Ahead. Invited Presentation. Vitamin D Standardization Program (VDSP): The Road Ahead. Bethesda, MD, USA. November 28-30, 2017.

Sempos CT. Vitamin D Standardization Program (VDSP): Going into the Future. Invited Presentation. DEQAS Advisory Board Meeting. September 20, 2017. Charing Cross Hospital. London, UK.

Durazo RA, Sempos CT. Estimation of Uncertainty of Assigned 25(OH)D2 and 25(OH)D3 Values. Invited Presentation. DEQAS Advisory Board Meeting. September 20, 2017. Charing Cross Hospital. London, UK.

Sempos CT. The Continued Need for Standardisation of Serum 25-hydroxyvitamin D in the Post ODIN Era. Invited Presentation. Vitamin D and Health in Europe: Current and Future Perspectives. September 6, 2017. University College Cork, Cork, Ireland.

Sempos CT. Vitamin D Standardization Program (VDSP): An Overview. Invited Presentation. Nutrition Research Division, Food Directorate, Health Products and Food Branch, Health Canada. July 6, 2017, Ottawa, Ontario, Canada.

Sempos CT. Vitamin D Standardization Program (VDSP) Overview. Invited Presentation. Office of Dietary Supplements, Staff Meeting. June 21, 2017, Rockville, MD, USA.

Sempos CT. Optimal 25(OH)D Assay Methodology. Invited Presentation. 1st International Conference on Controversies in Vitamin D. 14-16 June 2017, Pisa, Italy.

Sempos CT. *Vitamin D and the Limits of Assay Standardization*. Population Sciences Program Grand Rounds Seminar Series. Roswell Park Cancer Institute, Buffalo, NY. September 26, 2016.

Sempos CT. *VDSP – Standardization Issues with 25-OHD. Vitamin D: Analytical and Clinical Stories*. Invited Presentation. The Association for Clinical Chemistry and Laboratory Medicine. Imperial College, London, UK. July 7, 2016.

Sempos CT. *Vitamin D Standardization: The Ever-Present Past*. Department of Epidemiology and Environmental Health, University at Buffalo, Buffalo, NY. April 15, 2016

Sempos CT. *Vitamin D Standardization Program (VDSP): Progress and New Opportunities*. EB. San Diego, CA. April 5, 2015.

Neil Binkley N, B Dawson-Hughes B, Durazo-Arvizu R; Thamm M, Merkel J, and Sempos CT. *Vitamin D Measurement Standardization: The Way Out of the Chaos*. Invited Presentation. 19th Workshop on Vitamin D. Boston, MA. March 30, 2016.

Sempos CT. *Standardization of Vitamin D Assays*. Invited Presentation. EVIDAS 2015. 2nd International Conference: Vitamin D – Minimum, Maximum, Optimum. Warsaw, Poland. October 16-17, 2015.

Sempos CT. *Standardizing Vitamin D Assays: Importance to Research*. 18th Workshop on Vitamin D. Delft, The Netherlands. April 21-23, 2015. [Presentation withdrawn as NIH did not provide permission to attend the meeting.]

Sempos CT. Vitamin D Standardization at the Crossroads. VDSP Planning Group Meeting, #5. Cambridge, UK 29-30 June 2015.

Sempos CT, Durazo-Arvizu RA, Merkel J, Carter G. VDSP Performance Measures. VDSP Planning Group Meeting, #5. Cambridge, UK 29-30 June 2015.

Sempos CT. Importance of Standardizing Old Research. VDSP 8th Webcam Meeting. May 21, 2015.

Sempos CT. Workpackage 1 Workshop: Update on Tasks 1.1-1.4. ODIN Study Meeting. Helsinki, Finland. 17 February 2015.

Sempos CT. Ensuring comparable vitamin D measurement with different assays. Invited Presentation. International Federation of Clinical Chemistry and Laboratory Medicine (IFCC)-WorldLab Istanbul 2014. June 25, 2014. Istanbul, Turkey.

Sempos CT. VDSP: So Far and Plans for the Future. VDSP Symposium: Tools to Improve Laboratory Standardization. November 14, 2013. Gaithersburg, MD.

Sempos CT. *Vitamin D Standardization Program*. WP1 Workshop [Vitamin D status]. Food-based solutions for Optimal vitamin D Nutrition and health through the life cycle or ODIN (613977). KICK--OFF Meeting. November 6, 2013. Budapest, Hungary.

Sempos CT. *Vitamin D Standardization Program*. Invited Presentation. Session: Approaches to Improving and Demonstrating Method and Laboratory Performance 127th AOAC INTERNATIONAL ANNUAL MEETING & EXPOSITION, August 26, 2013, Chicago, IL

Sempos CT. *Vitamin D Standardization Program*. Invited Presentation. 2013 AACC Industry Workshop #1 Vitamin D: Next Steps in Standardization. Sponsored by Siemens Healthcare Diagnostics Inc. July 30, 2013. Houston, TX

Sempos CT. *Vitamin D Standardization Program*. Invited Presentation. Symposium entitled "Measurement and Standardization of Vitamin D Metabolites using LC-Mass Spectrometry" American Association for Clinical Chemistry (AACC) meeting. July 29, 2013. Houston, TX

Sempos CT and Phinney KW. *The Vitamin D Standardization Program (VDSP)*. DEQAS Advisory Board Meeting. July 4, 2013. London, UK. (Presentation given by Dr. Phinney).

Sempos CT. *The Vitamin D Standardization Program (VDSP)*. Federal Working Group on Dietary Supplements. April 25, 2013. NIH/ODS. Bethesda, MD.

Sempos CT. *Standardization of Vitamin D Measurements*. Invited Presentation. IOF-ESCEO 3rd Pre-Clinical Symposium. April 20, 2013. Rome, Italy. (Presentation given by Dr. Binkley)

Sempos CT. *The Vitamin D Standardization Program (VDSP)*. Federal Working Group on Vitamin D. March 14, 2013. NIH/ODS. Bethesda, MD.

Durazo-Arvizu RA, Phinney KW, Sempos C. *Vitamin D in national surveys: The problem of standardization*. Invited presentation. March 7, 2013. National Congress of Public Health at INSP in Cuernavaca, Mexico. National Institute of Public Health in Cuernavaca, Mexico.

Betz JM, Phinney KW, Vesper HW, Carter G, Saldanha LG, Sempos CT for the Vitamin D Standardization Program. *Vitamin D Standardization Program*. SCRIPS. 2013

Sempos CT. *Vitamin D Standardization Program*. Invited Presentation. Division of Nutrition, Physical Activity, and Obesity, CDC. Atlanta, GA. 12/18/2012.

Sempos CT, Phinney KW, Vesper HW, Carter GD, Thienpont LM, Betz, JM, Coates PM for the VDSP. *Vitamin D Standardization Program*. Invited Presentation. Endocrine Society Meetings ENDO 2012. June 27, 2012.

Sempos CT. *VDSP: Where are we and what do we want to accomplish in Berlin?* Vitamin D Standardization Program (VDSP) Meeting. Monday 7 May – Tuesday 8 May 2012 Robert Koch Institute. Berlin, Germany.

Sempos CT. *Standardizing past survey data. Overview*. Vitamin D Standardization Program (VDSP) Meeting. 7 May – 8 May 2012. Robert Koch Institute. Berlin, Germany.

Sempos CT, Vesper HW, Phinney KW. *VDSP Commutability study update*. Vitamin D Standardization Program (VDSP) Meeting. Monday 7 May – Tuesday 8 May 2012 Robert Koch Institute. Berlin, Germany.

Sempos CT. *3-epi-25(OH)D and 24,25(OH)₂D₃ importance to VDSP effort*. Vitamin D Standardization Program (VDSP) Meeting. Monday 7 May – Tuesday 8 May 2012 Robert Koch Institute. Berlin, Germany.

Sempos CT. *VDSP: Where do we go from here? Ideas for VDSP journal supplement*. Vitamin D Standardization Program (VDSP) Meeting. Monday 7 May – Tuesday 8 May 2012 Robert Koch Institute. Berlin, Germany.

Sempos CT, Vesper HW, Phinney KW. *Vitamin D Standardization Program (VDSP)*. Experimental Biology. April 21, 2012

Sempos CT. Diet-Heart and Nutritional Epidemiology: Lessons not learned. Philip M. Farrell Population Health Distinguished Alumni Lecture 2012: Department of Population Health Sciences. University of Wisconsin-Madison, Madison, Wisconsin. March 26, 2012.

Sempos CT, Vesper HW, Phinney KW, Thienpont L, Coates PM et al. 13th Bergmeyer Conference – Vitamin D in Health & Disease. *Vitamin D status as an international issue: national surveys and the problem of standardization*. Invited Presentation. March 5 – 7, 2012, Grainau, Germany.

Sempos CT. *An overview of the Vitamin D Standardization Program (VDSP)*. Invited Presentation. Vitamin D: USA-Germany Meeting. Robert Koch Institute. Berlin, Germany. March 1, 2012.

Sempos CT. *Serum 25-Hydroxyvitamin D and Mortality – Results from the NHANES III Follow-up Study*. Seminar: Department of Physiology. University of Mississippi Medical Center, Jackson, Mississippi. October 19, 2011.

Sempos CT, Durazo Arvizu, R. *Serum 25-Hydroxyvitamin D and Mortality – Results from the NHANES III Follow-up Study*. Seminar: Department of Population Health Sciences. University of Wisconsin-Madison, Madison, Wisconsin. April 25, 2011.

Sempos C, Vesper HW. Vitamin D Standardization Program. CDC. Atlanta, GA April 19, 2011.

Sempos CT. *Summary of the 15-16 November 2010 meeting and goals for this meeting*. International Standardization of 25-Hydroxyvitamin D Levels in National Health Surveys protocol Development Sub-Committee Meeting. 21-22 February 2011. School of Food and Nutritional Sciences, University College Cork (UCC), Ireland.

Sempos CT, Vesper HW. *Pilot Study II: Standardizing Values from Past Surveys*. International Standardization of 25-Hydroxyvitamin D Levels in National Health Surveys Protocol Development Sub-Committee Meeting. 21-22 February 2011. School of Food and Nutritional Sciences, University College Cork (UCC), Ireland.

Sempos CT. *Analytical Performance and Design Considerations for standardizing 25(OH)D values from past surveys*. International Standardization of 25-Hydroxyvitamin D Levels in National Health Surveys Protocol Development Sub-Committee Meeting. 21-22 February 2011. School of Food and Nutritional Sciences, University College Cork (UCC), Ireland.

Sempos CT, Vesper HW. *Meeting summary, timelines and next steps*. International Standardization of 25-Hydroxyvitamin D Levels in National Health Surveys Protocol Development Sub-Committee Meeting. 21-22 February 2011. School of Food and Nutritional Sciences, University College Cork (UCC), Ireland.

Sempos CT. *Vitamin D, PTH Suppression and Mortality: Estimating Optimal Levels of 25(OH)D*. Seminar: Division of Endocrinology, Diabetes and Metabolism. Tufts University. Boston, MA. December 7, 2010.

Sempos CT. *Vitamin D and All-Causes Mortality. An Introduction to Nutritional Epidemiology*. Morgan State University. Baltimore, MD. December 1, 2010.

Sempos CT. *Summary, Formation of Committees, Developing Timelines, and Identifying Potential Partners and Collaborators*. International Standardization of 25-Hydroxyvitamin D Levels in National Health Surveys. Bethesda, Maryland. November 16, 2010.

Vesper HW, Sempos CT. *Refining Action Plan, Specifying Priorities, and Other Activities*. International Standardization of 25-Hydroxyvitamin D Levels in National Health Surveys. Bethesda, Maryland. November 16, 2010.

Sempos CT. *International Effort to Evaluate 25-Hydroxyvitamin D Levels in National Health Surveys*. International Standardization of 25-Hydroxyvitamin D Levels in National Health Surveys. Bethesda, Maryland. November 15, 2010.

Sempos CT, et al. *Adjusting Serum Biomarker of Vitamin D Status for Within-person Variation*. Experimental Biology. April 25, 2010.

Sempos C. *Current Research on Vitamin D in the NIH Office of Dietary supplements*. Vitamin D: USA-Germany Meeting. Robert Koch Institute. Berlin, Germany. March 21, 2010.

Sempos C. *Laboratory Methods used for assessing serum 25(OH)D in the USA's NHANES*. Vitamin D: USA-Germany Meeting. Robert Koch Institute. Berlin, Germany. March 21, 2010. Invited Presentation.

Sempos CT. PTH and 25(OH)Vitamin D: The Search for an Inflection Point. Beltsville Human Nutrition Research Center, USDA Seminar. Beltsville, MD. December 9, 2008. Invited Presentation.

Sempos CT. PTH and 25(OH)Vitamin D: The Search for an Inflection Point. Office of Dietary Supplements Seminar. Bethesda, MD. December 3, 2008. Invited Presentation.

Sempos CT. The calculation of adjusted odds and prevalence using the logistic model. National Center for Health Statistics. Division of Health and Nutrition Examination Surveys (DHANES) Monthly Seminar. Hyattsville, MD. September 10, 2008.

Invited Presentations - National and International Meetings (Selected 1988-2004)

Sempos CT. Introduction to Biostatistics. Am. Acad. Allergy Asthma & Immunology meeting. San Francisco, CA. 3/19/04.

Sempos CT, Schünemann HJ. The Power Game: Clinical Relevance or Statistical Significance. Am. Acad. Allergy Asthma & Immunology meeting. San Francisco, CA. 3/22/04.

Sempos CT. The Treatment of High Blood Cholesterol in the US, Australia and Europe. International Convention. Public Health 2000. Havana, Cuba. 5/1/02.

Sempos CT. The Treatment of High Blood Cholesterol in the US, Australia and Europe. Nutrition Unit. University of Sydney. Sydney, Australia. 1/14/02.

Sempos CT. Nutritional epidemiology - Basis for nutrition and health claims. 11th World Food Conference of Food Science and Technology. Seoul, South Korea. 4/22-27/01.

Sempos CT, Durazo-Arvizu R, McGee DL, Cooper RS, Prewitt TE. The Influence of Cigarette Smoking on the Association Between Body Mass Index and Mortality. The Framingham Heart Study Revisited. North American Association for the Study of Obesity. Charleston, SC. 11/14-18/99.

Sempos CT. Nutritional Terminology. Issues at the Cross-Roads of Nutritional Science. 10th World Food Conference of Food Science and Technology. Sydney, Australia. 10/6/99.

Sempos CT, Carroll M. Serum Lipid and Lipid Fractions. National Conference on CVD Prevention. Bethesda, MD. 9/27-29/99.

Sempos CT, Looker AC, Gillum RF. Relationship Between Iron Status and cardiovascular Disease. Food and Nutrition Board Forum. Dietary Reference Intakes for Iron and Zinc. Washington, D.C. 4/20/99.

Sempos CT. Worksite Cohort, NANES I, and the Scottish Heart Health Study. National Heart, Lung, and Blood Institute Workshop on Sodium and Blood Pressure. Bethesda, MD. 1/28/99.

Sempos CT, Liu K, Ernst N. Food and Nutrient Exposures: What to Consider When Evaluating the Epidemiologic Evidence. Workshop: Evaluating the Adequacy of Population Intakes Using the DRIs. Subcommittee on the Interpretation and Uses of Dietary Reference Intakes (DRIs). Food and Nutrition Board. National Academy of Sciences. 3/30/98.

Sempos CT. The Use of Dietary Survey Data in Setting Nutrient Requirements. The Impact of Measurement Error. Workshop: Evaluating the Adequacy of Population Intakes Using the DRIs. Subcommittee on the Interpretation and Uses of Dietary Reference Intakes (DRIs). Food and Nutrition Board. Institute of Medicine. National Academy of Sciences. 3/30/98.

Sempos CT, Bild DE, Manolio T. The Jackson Heart Study. A study of cardiovascular disease in African Americans. The Jackson Heart Study. Scientific Symposium. Jackson State University. 11/17/97.

Sempos CT, Liu K, Ernst N. Food and Nutrient Exposures: What to Consider When Evaluating the Epidemiologic Evidence. International Life Sciences Institute (ILSI) North America meeting on The Role of Epidemiology in Determining When Evidence Is Sufficient to Support Nutrition Recommendations. Washington, DC. 10/7/97.

Sempos CT, Rehm J, Walsh G. Alcohol consumption and mortality in African-Americans. Presentations made at the International Conference on Social and Health Effects of Different Drinking Patterns. Toronto, Ontario, Canada 11/13-17/95

Sempos CT, Looker AC, Gillum RF. Iron and Heart Disease: The epidemiologic data. Presented at the Conference on Iron in Health & Disease: A balanced Perspective. Sponsored by International Life Sciences Institute (ILSI) North America. Wash, DC 6/14/95

Sempos CT. Body Iron Stores and the Risk of Disease. A summary of research results to date. Presentation to International Life Sciences Institute (ILSI) study group looking into the effects of replete body iron stores on health and disease. 12/14/94. Wash, D.C.

Sempos CT. Issues in the evaluation of diet for Nutritional Epidemiology. DHHS/CDC/NCHS and USDA/URS Workshop on Dietary Survey Data Requirements of Federal Users. College Park, MD. 8/3/94.

Sempos CT. The influence of within-person variability on estimates of prevalence and correlations with disease. Experimental Biology Meetings. 4/24-28/94. Anaheim, CA.

Sempos CT. Recent trends in serum total cholesterol and prevalence of high blood cholesterol in Black Americans. Presentation to African American Lipid Council. San Antonio, Texas 8/7/93.

Sempos CT, Cleeman JI, Carroll MD, Johnson CL, Bachorik PS, Gordon DJ, Burt VL, Briefel RR, Brown CD, Lippel K, Rifkind BM. The prevalence of high blood cholesterol among U.S. adults. An update based on guidelines from the second report of the National Cholesterol Education Program (NCEP) Adult Treatment Panel (ATP II). Presentation to National Cholesterol Education Program Coordinating Committee. Bethesda, MD. 7/15/93.

Feinleib M, Rifkind B, Sempos C, Johnson C, Bachorik P, Lippel K, Ingster-Moore L, Murphy R. Within-Person Variability in Selected Serum Measures. Results from the Third National Health and Nutrition Examination Survey. International Heart Health Conference. Victoria, British Columbia, Canada. 5/24-28/92.

Sempos CT, Flegal KM, Johnson CL, et al. Issues in the long-term evaluation of diet in longitudinal studies. FASEB. Anaheim, CA. 4/9/92.

Sempos C and Flegal KM. Dietary Methods Comparison. NCHS Seminar 2/13/1992

Sempos C, Briefel R, Johnson C, Flegal, K and Murphy R. National Dietary Surveys. Factors involved in selecting a dietary survey methodology. Sixth national Conference on Chronic Disease Prevention and Control. 10/22/91. Washington, D.C.

Sempos CT. The Prevalence of High Blood Cholesterol Levels Among Adults in the United States. IBC Conference. Serum Cholesterol Reduction. Drug and dietary Approaches. Philadelphia, PA. 12/12/91.

Sempos C, Briefel R, Johnson C, Flegal K, Murphy R. National Dietary Surveys: Factors Involved in Selecting a Dietary Survey Methodology. Sixth Conference on Chronic Disease Prevention and Control. Washington, D.C. 10/22/91.

Sempos C. The Prevalence of High Blood Cholesterol Among Adults in the United States. Conference on the Cost and Health Implications of Cholesterol Lowering. Bethesda, MD. 9/17/90.

Sempos C, Carroll M, Looker A. Is One Measurement of Serum Cholesterol from an Individual Enough? FASEB. Washington, D.C. 4/ 1990.

Sempos C, Looker AC, Johnson C, Woteki CE. The Importance of Within-Person Variability in Estimating Prevalence. Symposium on Monitoring Dietary Intakes. Helsinki, Finland. 6/13/89.

Sempos CT, Fulwood R, Haines C, Carroll M, Anda R, Williamson D, Remington P, Cleeman J. The Prevalence of High Blood Cholesterol in Adults. The Coordinating Committee of the National Cholesterol Education Program. Bethesda, MD. 5/17/88.

Sempos C, Briefel R, Johnson C, Woteki C. National Dietary Surveys: Factors Involved in Selecting a Dietary Survey Methodology. FASEB. New Orleans, LA. 3/21/89.

Sempos C, Briefel R, Woteki C. National Dietary Surveys: What are the Most Appropriate Methods for Monitoring Trends in Intake. The National Cholesterol Conference. Crystal City, VA. 11/11/88.

Sempos C. The Prevalence of High Blood Cholesterol. National Center for Health Statistics Seminar. 6/24/88.

Sempos C, Looker A, Liu K, Johnson C, Woteki C. Effects of Within-Person Variability on Prevalence Estimates from Biochemical Indicators of Nutritional Status. FASEB. Las Vegas, NV. 5/2/88.

Invited Presentations - Universities and Other Academic Institutions (1989 - Present).

Sempos CT. *Diet-Heart and Nutritional Epidemiology: Lessons not learned*. Invited Presentation. School of Food and Nutritional Sciences. University College Cork, Cork, Ireland. 10/03/2014.

Sempos CT. *Diet-Heart and Nutritional Epidemiology: Lessons not learned*. Invited Presentation. Division of Nutrition, Physical Activity, and Obesity, CDC. Atlanta, GA. 12/18/2012.

Sempos CT. *Diet-Heart and Nutritional Epidemiology: Lessons not learned*. Department of Preventive Medicine, Northwestern University, Chicago, IL. October 29, 2012.

Sempos CT. *Diet-Heart and Nutritional Epidemiology: Lessons not learned*. NIH, National Institutes of Heart, Lung, and Blood Institute, Journal Club. June 12, 2012.

Sempos CT. The Use of Risk Prediction Models in Clinical Decision Making and Public Health Surveillance. Jackson Heart Study. University of Mississippi Medical Center. Jackson, MS. July 12, 2007.

Sempos CT. The Use of Risk Prediction Models in Clinical Decision Making and Public Health Surveillance. Department of Population Health Sciences. University of Wisconsin Medical School. Madison, WI. Oct. 27, 2003.

Sempos CT. The Use of Risk Prediction Models in Clinical Decision Making. Grand Rounds. Department of Medicine. Millard Fillmore Hospital, Buffalo, NY. March 31, 2003.

Sempos CT. The Third Report of the National Cholesterol Education Program (NCEP) Expert Panel on the Detection, Evaluation and Treatment of High Blood Cholesterol in Adults. (Adult Treatment Panel III or ATP III). Departments of Medicine: Verteran's Hospital, Erie County Community Hospital, Sister's Hospital, Millard Filmore Hospital, Nov. 15, 18, 20 & 22nd., 2002, respectively

Sempos CT. Recent Trends in Cardiovascular Mortality in Mississippi. The Importance of the Jackson Heart Study. Jackson Heart Study Headquarters. Jackson, MS. March 4, 2002.

Sempos CT. Use of absolute risk prediction in clinical decision making. The new US guidelines for the treatment of high blood cholesterol. Grand Rounds. Department of Medicine. University of Mississippi Medical Center. Jackson, MS. March 5, 2002.

Sempos CT. The Third Report of the National Cholesterol Education Program (NCEP) Expert Panel on the Detection, Evaluation and Treatment of High Blood Cholesterol in Adults. (Adult Treatment Panel III or ATP III). Department of Social and Preventive Medicine. University at Buffalo. The State University of New York. Sept. 14, 2001.

Sempos CT. Methods for studying nutritional epidemiology. Nutrition Program. Department of Physical Therapy, Exercise and Nutritional Sciences. University at Buffalo. The State University of New York. May 12, 2000.

Sempos CT. Positive body iron stores and the risk of heart disease: The epidemiological data. Department of Physical Therapy, Exercise and Nutritional Sciences. University at Buffalo. The State University of New York. 4/14/2000.

Sempos CT. Iron and heart disease: The epidemiologic data. Department of Nutritional Sciences. The Pennsylvania State University. 4/4/00.

Sempos CT. Diet and disease how do we go about studying it? Nutrition, Hospitality and Fashion Department. Buffalo State University. 3/28/2000

Sempos CT. What to Consider When Evaluating the Evidence from Nutritional Epidemiology: The Example of Iron and Heart Disease. Department of Foods and Nutrition. The University of Georgia. 12/1/99.

Sempos CT. Body iron stores and heart disease: Are there three possible hypotheses based on the epidemiologic data? Department of Physiology. University of Mississippi Medical Center. 9/8/97.

Sempos CT. Iron and heart disease: The epidemiologic data. Presented at the SUNY Buffalo Department of Social and Preventive Medicine. Buffalo, NY. 6/11/96.

Sempos CT. Iron and heart disease: The epidemiologic data. Presented at the Department of Preventive Medicine and Epidemiology. Loyola Stritch School of Medicine . 1/12/96.

Sempos CT. The NHANES. An Overview. Division of Nutritional Sciences. University of Illinois-Urbana/Champaign. 9/13/95.

Sempos CT. The effects of within-person variation on prevalence estimates. Presented to the Food and Nutrition Board of the National Academy of Sciences. 12/14/95.

Sempos CT. Effects of within-person variation on the design and analysis of epidemiologic studies. Seminar, Departments of Epidemiology and Nutrition, Univ. North Carolina at Chapel Hill. 1/27/94.

Sempos CT. Some limitations of semiquantitative food frequency questionnaires. Seminar, Departments of Epidemiology and Nutrition, Univ. North Carolina at Chapel Hill. 1/27/94.

Sempos CT. Recent trends in serum total cholesterol and prevalence of high blood cholesterol in US Adults. Presentation to Division of Epidemiology. University of Minnesota. Minneapolis, Minnesota. 4/13/94.

Sempos CT. Limitations of semiquantitative food frequency questionnaires. Seminar, Department Nutrition, University of Minnesota. Minneapolis, Minnesota. 4/14/94.

Sempos CT. Some limitations of semiquantitative food frequency questionnaires. Department of Epidemiology and Preventive Medicine. University of Maryland. Baltimore, MD. 7/14/94.

Sempos CT, Looker AC, Gillum RF, Makuc DM. Body iron stores, coronary heart disease incidence and mortality from selected causes. The NHANES I Epidemiologic Followup Study. Department of Social and Preventive Medicine. SUNY at Buffalo. University Visitation Program Presentation. 11/12/93.

Sempos C. Conceptual Approaches to the Analysis of Cross-Sectional Surveys. Analyzing HANES Data: A Beginner's How-To Workshop. College of Public Health, University of South Florida. 5/2-4/89.

Sempos C. A Case Study In the Analysis of Non-Response Bias: Prevalence of High Blood Cholesterol. Analyzing HANES Data: A Beginner's How-To Workshop. College of Public Health, University of South Florida. 5/2-4/89.

Sempos C. The NHANES I Epidemiologic Follow-up Study. Analyzing HANES Data: A Beginner's How-To Workshop. College of Public Health, U. South Florida. 5/2-4/89.

Invited Presentations at International Sites and Seminars (1988 – 2000)

Sempos C. Body Iron Stores and Heart Disease. Is there an association? National Cattleman's Beef Association. Chicago, Il., 9/27/00.

Sempos C. Food labeling, health claims, and nutritional epidemiology. Australia /New Zealand Food Authority (ANZFA). Canberra, ACT, Australia. 10/7/99.

Sempos CT. The National HANES: Experience with Incorporating biologic markers. Presentation to the National Population Health Survey (NPHS) Workshop: Potential Biological Markers for the NPHS. Toronto, Ontario, Canada, 8/31/94 - 9/1/94.

Sempos C. Within-Person Variability: Implications for Cardiovascular Epidemiology. Center for Nutrition and Toxicology. Novum Research Park. Stockholm, Sweden. 5/1991.

Sempos C, Briefel R, Murphy R, Woteki C. National Dietary Surveys: What are the Most Appropriate Methods for Monitoring Trends in Intake. Sydney University Nutrition Research Foundation Workshop on Dietary Methodology. Sydney, Australia. 9/20/88.

NHANES Overview Presentations

Sempos C. Presentations to International Visitors considering initiating a NHANES like survey in their country. Presentations made to representatives from the following countries: 1) Australia; 2) Canada; 3) Denmark; 4) Germany; 5) Hungary; 6) New Zealand; 7) Philippines; 8) Romania; 9) Russian Federation; 10) Soviet Union; 11) South Korea; 12) Spain; 13) Sweden; 14) Switzerland; 15) Taiwan; & 16) United Kingdom and 17) WHO.

Reviews for National and International Journals

American Journal of Epidemiology, American Journal of Clinical Nutrition, American Journal of Public Health, Annals of Epidemiology, Circulation, Ethnicity & Disease, Hypertension, Journal of the American Medical Association, Journal of the American Dietetics Association, International Journal of Epidemiology, Journal of Nutrition, New England Journal of Medicine.

Editorial Boards

Editorial Board - Hypertension, 2003-2005.

Editorial Board - Trends in Food Science and Technology, 2002-2005.

Associate Editor - American Journal of Epidemiology 1989-1998.
Editorial Board - Calcified Tissue International, 1987-94.

Professional Organizations

American Heart Association (AHA), 1983-2014.
AHA Council on Epidemiology and Prevention, 1987-2014.
American Heart Association/Nation's Capital Affiliate 1983-1990.
AHA/Nations Capital Affiliate (NCA) - Board of Directors 1988-1990.
AHA/NCA Chair-person, Nutrition Sub-Committee 1985, 1986.
AHA/NCA Chair-person, Symposium Planning Committee 1984, 1985.
American Institute of Nutrition, 1988-2014.

Service on National Committees and Study Sections

Member - Special Study Section. Frequent Hemodialysis Clinical Trials. National Institute of Diabetes and Digestive and Kidney Diseases. NIH. 7/30/03.

Member - Special Study Section. The Whitehall II Study. National Heart, Lung, and Blood Institute. NIH. 2/28/02.

Member - Special Study Section. New Therapies for Diabetic Foot Disease. National Institute of Diabetes and Digestive and Kidney Diseases. NIH. 8/9-10/00.

Member Scientific Steering Committee. "Dietary Supplement Use in Children: Who, What, Why, and Where Do We Go From Here." National Institute of Child Health and Human Development, NIH. 6/00 - 2/01.

Consultant - National Cholesterol Education Program's (NCEP) Third Expert Panel on Detection, Evaluation and Treatment of High Blood Cholesterol in Adults (Adult Treatment Panel III or ATP III), July 1999 - 2004.

Member - Department of Health and Human Services Data Council's Working Group on Racial and Ethnic Data, September 1998 - December 1999.

Member - Department of Health and Human Services Data Work Group, 9/98 - 12/99.

Chair - National Heart, Lung, and Blood Institute/National Center for Health Statistics CHD Prevalence Working Group, May 1992 - July 1995.

NHLBI Project Officer - Jackson Heart Study, August 1996 - July 1998.

NHLBI Project Officer - Framingham Heart Study, August 1996 - September 1997

Member, Planning Committee for NHLBI/NIH Symposium on Socioeconomic status and cardiovascular diseases. 1994-95.

Member - American Heart Association (AHA) Task Force on AHA Statistics, 1992 -95.

Planning Committee - National Osteoporosis Risk Factor Survey, 1987-1995.

Member - National Heart, Lung, and Blood Institute/National Center for Health Statistics Lipid Group. 1986-95.

Ex-Officio Member - National Cholesterol Education Program's Second Expert Panel on Detection, Evaluation and Treatment of High Blood Cholesterol in Adults, 1992 - 1993.

Consultant - Department of Health and Human Services' Year 2000 Objectives: Developed definition of Coronary Heart Disease mortality for monitoring trends in achieving Year 2000 Objectives. Provided updated mortality data for evaluating trends. Updated trends in Coronary Heart Disease mortality for an NHLBI briefing for Assistant Secretary of Health Dr. Mason on the Chapter on Heart Disease and Stroke of the Year 2000 Health Objectives for the Nation. 1989-95.

NIH Special Review Group for the NIH Announcement for Programs of Excellence of Research on Osteoporosis. 1987.

NHANES III Dietary Survey Methodology Workshop March 16-18, 1986. -
Chairperson, Workshop Planning Committee.

Service on International Committees

Consultant, International Federation of Clinical Chemistry and Laboratory Medicine (IFCC), Committee on Bone Metabolism (C-BM), January 2019 - Present

Chair, International Federation of Clinical Chemistry and Laboratory Medicine (IFCC), Working Group – Vitamin D Standardization (WG-Vit D) . January 2018 – December 2018. [Working Group merged into IFCC C-BM.]

Advisory Board. Vitamin D External Quality Assessment Scheme (DEQAS), 2012 - Present

Coordinator – Vitamin D Standardization Program (VDSP). November 2009 – present.

Member - Committee 1/1 on Food Standards and Technology, a joint committee of the International Union of Nutritional Scientists (IUNS) and International Union of Food Science and Technology (IUFOST), October 1998 - 2002.

Co-Chair - National Center for Health Statistics (NCHS), MedSocEconInform (Ministry of Health, Russian Federation) Working Group to examine trends in vital statistics between the Russian Federation and the U.S. 1980-93. 1994-1995.

Assistant to the Head, World Health Organization Collaborating Centre for Health Examination Surveys. Located at the National Center for Health Statistics. 1992-95.

Member - Nutrition Working Group, INTERMAP Study. 1994 -1995.

Member - NCHS/World Health Organization (WHO) Committee to Investigate Current Vital and Health Statistics Systems in the Russian Federation. (Moscow 6-9 July 1993).

Participant - National Academy of Sciences/Institute of Medicine and WHO Planning Meeting: Cardiovascular Disease in Developing and Industrializing Countries. 27-29 October 1992.

Member -Data Review Committee for the Nova Scotia Nutrition Survey, Halifax, Nova Scotia, Canada. February, 1992.

US Coordinator, joint project between the National Center for Health Statistics (NCHS) and the Institute for Social Medicine and Epidemiology, Federal Health Office, Federal Republic of Germany (Berlin) entitled: "Comparison of serum total cholesterol and cholesterol lipoprotein levels between the US and the FRG." , 1990-95.

Consultant, Hungarian Statistical unit in the Ministry of Health on the planning for a national health survey in Hungary, 1992-95.

US Coordinator, collaborative project with the Swiss Institute for Prevention of Alcohol and Drug Problems on alcohol and risk of death. 1992-96.

Consultant, USA-USSR Lipid Research Clinics collaborative meetings in Leningrad (St. Petersburg) October 1991.

Consultant - Institute of Rheumatology, Academy of Medical Sciences, Moscow, USSR, July 1990.

Lecturer – Statistical methods in Epidemiology. WHO Sponsored course entitled *The Epidemiology of Rheumatic Disease*. Institute of Rheumatology, Academy of Medical Sciences, Moscow, USSR, 11-18 November 1989.

Consultant - Dr. Ruth English, then Director of nutrition programs for the Australian Government, on designing the dietary survey methods for a national dietary survey in Australia and on various topics related to nutritional epidemiology, 1988-95.

UNIVERSITY AT BUFFALO

University Service

Member, Health Sciences Divisional Committee, 12/99 - 3/04.

Member, MSTP Steering Committee, 1/01 - 3/04.

Departmental Service

Chair, Education Committee Department of Social and Preventive Medicine. 12/99-10/03.

Chair, Departmental Seminar Organizing Committee, 2000/2001.

Chair, Preliminary Examination Organizing Committee, August 2001

Member, Preliminary Examination Organizing Committee, January 2002.

Chair, Preliminary Examination Organizing Committee, May 2002

Teaching

COURSES AND LECTURES: (past and present)

Courses in Epidemiology Graduate Program

SPM 501 Principles of Epidemiology. Fall 2000. Co-Instructor with Dr. Jo Freudenheim. (20+ students).

SPM 506 Application of Statistics to Epidemiology, Spring 2001, 2002, 2003 & Fall 2003. (10-20 students).

Lectures in other courses in Epidemiology Graduate Program

SPM 511 Nutrition and Cardiovascular Diseases, Spring 2001, Spring 2002 (5-10 students)

SPM 511 Nutrition and Cardiovascular Diseases, Spring 2003, Spring 2002 (5-10 students)

Lectures in other schools of the University

NTR 523 Dietary Survey Methods used in the National Health and Nutrition Examination Surveys (NHANES), Fall 2000.

NTR 602 Research Methods in Epidemiology, Spring 2001,

Summer Internships:

Jana Davis, Tougaloo College. June -August 2002

Graduate Student Committees

Master's Degree

Committee Chair:

Pankaj Patel, MD. Relation between red cell distribution width (RDW) and lung function in a sample of the US population. Final Exam passed April 18, 2002

Committee Member

Ms. Barbara Fuhrman. "Validation of a food frequency questionnaire using erythrocyte membrane fatty acid composition as a biomarker of dietary fat". Final Exam passed 9/21/02

Dr. Alex Ho. "Analysis of Lead Exposure and Periodontal Disease". Final Exam Passed December 2002.

Ms. Edith Williams. MS Thesis. Environmental Racism and Consumption of Fruit and Vegetables. Final Exam Passed 3/28/03.

Dr. Anil George. MS. Thesis: Reliability and Validity of Self-reported Reasons for Hospitalization. 3/02- [Never completed].

Dr. Geroncio Cagigas Fajardo. A Study of the Relationship Between Blood Lead Levels Among Children Who Live Near Franklin Slag Pile Site and the Distance of the Child's Residence from the Site. September 2002 - 2004.

Ph.D. Degree

Committee Chair

Jian Liu, M.D., Non-HDL Cholesterol and Coronary Heart Disease. Department of Social and Preventive Medicine. Ph.D. Final Exam passed on January 17, 2002.

Committee Member:

Kelly Sue Marcynski, Ph.D., Comparison of selected characteristics of alcohol abstainers with drinkers: Who is healthier. Final Exam passed on October 12, 2001.

OTHER UNIVERSITIES

Teaching

Lectured on Nutritional Epidemiology at the University of Illinois-Urbana/Champaign 1995-1996. Lectures given on:

- a. The National Health and Nutrition Examination Surveys - An Overview
- b. Nutritional Epidemiology - An Overview
- c. Dietary Survey Methods in Nutritional Epidemiology
- d. Nutritional Epidemiology and the Study of Chronic Diseases

Lecturer – WHO Course on Epidemiology of Rheumatic Diseases. Lectured on Statistical Methods in Epidemiology. Moscow, USSR, 11-18 November 1989.

Co-Instructor for course STAT317 - Introduction to Epidemiology along with Dr. Deborah Winn, at The Foundation for Advanced Education in the Sciences Graduate School, National Institutes of Health, Bethesda, Maryland. 1986-89.

Instructor for course STAT 322M - Intermediate Epidemiology, at The Foundation for Advanced Education in the Sciences Graduate School, National Institutes of Health, Bethesda, Maryland. Spring 2007, 2008, 2010. Department Chair, Dr. Paul Sorlie, NHLBI.

Lectured on Epidemiology: Nursing School, Catholic University of America 1984-85

Designed computer assisted teaching module on epidemiology for the Nursing School, Catholic University of America - 1985.

Graduate Student Committees

Master's in Public Health (MPH) Degree

Preceptor

Anita Harrington, "A comparison between the Current Trends of Cardiovascular Disease in African Americans in the United States and the State of Mississippi". George Washington University, Washington, D.C. Graduated 1997.

Ph.D. Degree

Outside Reviewer

Tiejian Wu, "The Role of Periodontal Disease as a Risk Factor for Cardiovascular Disease". PhD. Department of Social and Preventive Medicine, University at Buffalo, Buffalo, NY. Graduated, 1999.

Research Support (as of March 2004)

Ongoing Research Support

DAMD17-02-1-0252 (Crespo, PI)	02/01/02-01/31/05	5%
USAMRDC	\$225,000 (total direct costs)	
Prostate Cancer Mortality in Puerto Rican Men: The Effect of Body Habitus and Physical Activity		
Objective: This proposal will study prospectively the effect of excess body weight, body fat and physical inactivity on prostate cancer mortality in Puerto Rican Men from the Puerto Rico Heart Health Program Study.		
Role: Co-Investigator to assist for evaluation of National Death Index matching results.		
DAMD 17-03-1-0315 (Muti PI)	05/01/03-04/30/06	5%
USAMRDC	\$372,023 total direct costs	

Estrogen Metabolism and Prostate Cancer Risk: A Prospective Study

Objective: This is a prospective study on estrogen metabolites and prostate cancer risk.

Role: Co-Investigator assist with statistical analyses.

Erie County Health Department (Sempos, PI)	12/1/02-11/31/03	2%
Community Health Assessment	\$40,000 (total costs)	

Objective: Prepare data analyses for health department's community health assessment report to the NY State Dept. of Health.

Role: PI and Supervise all data analyses for the report.

1 R03 CA103475-01 Crespo (PI)	09/01/03-08/30/05	4%
NIH/NCI	\$100,000 (total direct costs)	

Diet and Cancer in Puerto Rican Men

Objective: This proposal will study the unique pattern of the Puerto Rican diet.

Role: Co-investigator

USAMRDC Muti (PI)	09/01/03-8/31/06	5%
Department of Defense	\$300,000 total direct costs	

Endogenous 6-hydroxymelatonin excretion and subsequent risk of breast cancer: a prospective study

Objective: This is a study on endogenous production of melatonin in relation to breast cancer risk in premenopausal and postmenopausal women.

Role: Co-Investigator to assist with statistical analyses.

NHLBI/NIH Canti (PI)	09/01/03-8/31/06	
10%		
Hibernating Myocardium and Sudden Cardiac Death	\$2,500,000 total direct costs	

Objective: Objective is to develop better clinical criteria for identifying those patients with coronary artery disease which are at highest risk of sudden death.

Role: Co-Investigator to assist with statistical analyses.

Pending Research Support

Erie County Health Department (Sempos, PI)	10/01/03-9/31/04	15%
Syndromic Surveillance – Bioterrorism	\$75,000 (total costs)	

Objective: Assist county health department in developing a syndromic surveillance system designed to detect abnormal levels of reported infectious disease symptoms.

Role: Administer database coordinating center for the project and conduct research on statistical methods for evaluating small "outbreaks".

NIAAA/NIH Sempos (PI)		25%
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Objective: To study the association of alcohol intake and all causes & cause specific mortality using data from the National Health Interview Surveys

Role: PI and Supervision all aspects of research.

NB: Grant given to Dr. Carlos Crespo March 2004 and it was later funded.

Completed Research Support

NIH	Crespo (PI)	09/01/99-08/30/00	5%
Puerto Rico Cancer Mortality Feasibility Study		\$50,000 (total direct costs)	

Objective: To assess the feasibility of obtaining cancer mortality using the Puerto Rico Demographic Registry, Puerto Rico Cancer Registry, and the US National Death Index in men from the Puerto Rico Heart Health Program.

Role: Co-Investigator assist with the design of the study and the evaluation of National Death Index matching results.