

Curriculum Vitae Cyril F. Chang

The Fogelman College of Business and Economics
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9341 Grove Park Cove
Germantown, TN 38139
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- Current Positions** Professor of Economics and Director of The Methodist and Le Bonheur Center for Healthcare Economics, The University of Memphis; Adjunct Professor, Department of Preventive Medicine, College of Medicine, the University of Tennessee Health Science Center
- Citizenship** U. S. A.
- Personal Data** Married with two grown children
- Education** University of Virginia, Ph.D., Economics, 1979
Memphis State University, MA, Economics, 1972
National Chengchi University, Economics, 1969
- Awards and Honors**
- 2009 Fogelman College of Business and Economics Suzanne Downs Palmer Professorship for Research (Cash Award \$10,000)
 - 2006 Fogelman College of Business and Economics Suzanne Downs Palmer Professorship for Service (Cash Award \$12,500)
 - 2004 The University of Memphis Board of Visitors Eminent Faculty Award (Cash Award \$20,000), the highest distinction given annually to one faculty member who has made sustained contributions to scholarly/creative activity, teaching, and service
 - 2004 The University of Tennessee Health Science Center Research Fellow of the Center for Health Services Research
 - 2002 Fogelman College of Business and Economics Suzanne Downs Palmer Professorship for Teaching (Cash Award \$12,500)
 - 2001 The University of Memphis Alumni Association Distinguished Teaching Award (Cash Award \$2,000)
 - 1999 Fogelman College of Business and Economics First Place Award for a Refereed Article, The University of Memphis
 - 1996 The University of Memphis Distinguished Research Award (Cash Award \$2,000)
 - 1995 Memphis State University Spur Award for Research Excellence
 - 1993 Memphis State University Spur Award for Research Excellence
 - 1992 Fogelman College of Business and Economics First Place Award for a Referred Article, Memphis State University
 - 1991 Memphis State University Spur Award for Research Excellence
 - 1991 Fogelman College of Business and Economics Second Place Award for a Refereed Article, Memphis State University

- 1989 Fogelman College of Business and Economics Merit of Excellence Award for Exceptional Achievements, Memphis State University
- 1987 Best Research Article Award, Fogelman College of Business and Economics, Memphis State University
- 1984 Best Research Paper Award, Mid-South Association of Business Economists

Experience

- 2003 – Director, Methodist Le Bonheur Center for Healthcare Economics, Fogelman College of Business and Economics
- 1998-03 Co-Director, Memphis Alliance for Public Health Research (MAP), Memphis, Tennessee
- 1989- Professor of Economics, The University of Memphis
- 1990- Voluntary Professor of Economics, Department of Preventive Medicine, College of Medicine, University of Tennessee Health Science Center.
- 1984-89 Associate Professor of Economics, Memphis State University; tenured, September 1986
- 1981-83 Assistant Professor of Economics, Memphis State University
- 1978-81 Assistant Professor of Economics, State University College of New York at Fredonia
- 1977-78 Instructor of Economics, University of Virginia

Research Grants

Funded

2013, “Analysis of ED Utilization of TennCare Enrollees Under the UnitedHealthCare Community Plan,” \$40,000, UnitedHealthCare.

2011-2013, “Aligning Forces for Quality,” a \$60,000 subcontract grant received from the Healthy Memphis Common Table for cost analysis under a \$1.3 million grant awarded by the Robert Wood Johnson Foundation for the Aligning Forces for Quality Project.

2011-2013, “Cost Analysis of the Nurse-Family Partnership Program,” \$41,625, a subcontract grant awarded by the Le Bonheur Children’s Hospital under a principal grant funded by the Health Resource and Services Administration, the U.S. Department of Health and Human Services.

2011-2012, “Impact of Health Reform on Health System in Tennessee,” \$20,000, The Assisi Foundation of Memphis, Tennessee

2011-2012, “Impact of Health Reform on Health System in Tennessee,” \$50,000, Blue Cross/Blue Shield of Tennessee

2010-2011, “Economic Impact of University of Tennessee Health Science Center,” \$45,000 funded by the University of Tennessee Health Science Center.

2010-2011, "Impact of Health Reform in Shelby County, Tennessee," \$44,944 funded by the Assisi Foundation of Memphis, Tennessee

2007-08, "Impact of Consumer-Drive High-Deductable Health Plan," funded at \$112,708 by the Pfizer Pharmaceutical Economics & Policy Council of Pfizer, Inc.

2006-07, "Logistic Analysis of the Role of Race and Insurance on Potentially Preventable Hospitalizations in Tennessee," funded by the BlueCross BlueShield of Tennessee Health Foundation, \$75,473. In-kind contribution of \$24,000 of Tennessee Hospital Discharge Data for 2003 and 2004

2005-06, "Potentially Preventable Hospitalizations in Tennessee: A Descriptive Study," funded at \$25,000 by the BlueCross BlueShield of Tennessee to study the impact of potentially avoidable hospitalizations in Tennessee. The funding agency also provided in-kind contribution worth over \$12,000 of hospital discharge data for the period of 1997-2002 for the awarded study.

2005, Subcontract grant with University of Tennessee, Health Science Center under a federal State Planning Grant from the Health Resources and Service Administration of the U.S. Department of Health and Human Services, \$12,028.

2004-05, "The Economic Impact of the Child Care Industry in Memphis and Shelby County Area," a project funded by the Community Institute of Early Childhood through the UoM Child Health Consortium to study the economic impact of child care on the economy of Memphis and Shelby County area, \$52,525.

2004, "The Comparative Efficiency of State Health Systems," Fogelman College of Business and Economics Summer Research Grant, \$7,000, with Rose Rubin

2004-2008, "Cost Effectiveness of Telehealth Intervention to Improve Clinical Nursing Care," Investigator responsible for cost effectiveness analysis and with RP Winsett as PI, NINR 1 RO1 NR08917-01, \$2,330,032

2001-2004, "Providers and Alzheimer's Caregivers Together," Investigator responsible for cost effectiveness analysis, with Linda Nichols as PI, NIA/NINR, RO1 AG16328-01A2, \$388,894

1997-2002, "Post-Transplant Quality of Life Intervention," Co-PI (responsible for cost effectiveness analysis) with D. Hathaway as PI, NINR, R01 NR04687-02, \$1,744,599.

1999-2000, "NRT and Behavioral Therapy in Primary Health Care Setting" as Co-PI with Robert Klesges (PI), NIH/NCI, RO1 CA71348-04, \$366,452.

1998-99, "NRT and Behavioral Therapy in Primary Health Care Setting," Co-PI with Robert Klesges (PI), NIH/NCI, RO1 CA71348-03, \$432,865.

1998-99, "Prenatal and obstetrical care barriers encountered by undocumented immigrant and refugee women in Shelby County, Tennessee" as Co-PI with Isabel C. Scarinci (PI), and Robert C. Klesges (Co-PI), \$20,100, the Assisi Foundation of Memphis, Inc.

1998-99, "NRT and Behavioral Therapy in Primary Health Care Setting," Co-PI with Robert Klesges (PI), NIH/NCI, RO1 CA71348-03, \$432,865.

1997-98, "NRT and Behavioral Therapy in Primary Health Care Setting," Co-PI with Robert Klesges (PI), NIH/NCI, RO1 CA71348-02, \$588,677.

1997-98, Subcontract grant from the Methodist Foundation, "Methodist Primary Care Scholars Program," \$7,400.

1996-97, "NRT and Behavioral Therapy in Primary Health Care Setting," Project Economist and Co-PI with Robert Klesges as PI, NIH/NCI, RO1 CA71348-01, \$349,797.

1996-97, The University of Memphis Faculty Research Grant, \$4,000.

1994-95, The Aspen Institute Nonprofit Sector Research Grant #92-NSRF-31, \$28,000 (with H. P. Tuckman)

1995, Fogelman College of Business and Economics Summer Research Grant, The Univ. of Memphis, \$750.

1993-94, The Durham Foundation, "Funding Research for Church Health Center," Fiscal Agent of Summer Fellowship, funded at \$4,860

1990-92, National Institute of Mental Health research grant #MH46889, "Baseline Psychiatric Hospital Profits," funded at \$150,000, Co-PI

1988, The Avron B. and Robert F. Fogelman Academic Excellence Fund Summer Research Grant, Memphis State University, \$6,333

1987, The Avron B. and Robert F. Fogelman Academic Excellence Fund Summer Research Grant, Memphis State University, \$2,880

1987, Faculty Development Grant, full salary 1/2 year, Memphis State University

1986, National Science Foundation Contract, No. 41 USC 253(G)(1), for studying goals of universities and colleges

1983, Memphis State Faculty Research Grant, \$3,000

1983, Memphis State University, the Fogelman College of Business and Economics Summer Research Grant, \$4,500

1982, Memphis State University, the Fogelman College of Business and Economics Summer Research Grant, \$4,000

Ph.D. Dissertation Committees

Major Professor Stephanie S. Steinberg, "Two Essays on Prescription Drug Utilization Using Pharmacy Claims Data," The University of Memphis, Expected May 2014.

Moon Moon Haque, "Three Essays on Applied Microeconomics," The University of Memphis, Expected December 2013.

May 2013, Riham Ishak, "Does Prenatal Care Prevent Potentially Avoidable Maternal Complication? An Empirical Investigation with an Emphasis of Racial Disparities in Access and Outcome," The University of Memphis

May 2006, Sharon Bush, "Determinants of the Demand for Complementary and Alternative Medicine in the United States," The University of Memphis

May 1995, Dennis Wilson, "The Effect of Debt Prioritization on the Determination of health Expense Liability by Individuals Filing for Personal Bankruptcy," The Univ. of Memphis

August 1994, Udomsak Seenprachawong, "An Analysis of Winning and Losing Hospitals Under Medicare's Prospective Payment System," The Univ. of Memphis

Dissertation

Committee Member August 2013, Weiwei Chen, "Four Essays on Health Care Economics," The University of Memphis

May 2012, Greg Lubiani, "Five Essays on Health Care Economics," The University of Memphis

Mustafa Hussein, "Exploring Racial/Ethnic Disparities in Cardiovascular Medication Adherence and Health Outcomes among Elderly Medicare

Beneficiaries,” The University of Tennessee Health Science Center,
Expected May 2013

May 2009, Carol Warren-Blakemore, “Cost Burden of the ‘*Presenteeism*’
Health Outcome in a Diverse Nursing and Pharmacy Workforce: Practice
Models and Health Policy Implications,” The University of Tennessee Health
Science Center

December 2006, Paul Getaz, MD, “Factors Influencing the Timely
Discharge of Patients to Nursing Facilities,” The University of Tennessee,
the Health Science Center

June 2004, Karen Fox, “Telemedicine as an Alternative to Improving
Health Care Services to Youth in State Custody,” The University of
Tennessee, the Health Science Center

June 2001, Lucie Kutikova, "The Impact of Political Pressure on Pharmacy
Cognitive Services-Related Regulations," The University of Tennessee, the
Health Science Center.

1996 - William Robert Bartlett, "A Cost and Benefit Study of
Transplantation," College of Nursing, The University of Tennessee-
Memphis

1996 - Chutina Suraratdecha, "Three Essays in Pharmaceutical Care
Economics," The Univ. of Memphis

1995, Hisashi Imai, "Production of Health in Japan and the U.S.
Compared," The Univ. of Memphis

1995, Joella Waddell (Accountancy), "A Descriptive Analysis of Tax
Exempt Not-for-Profits' Financial Data for Use in Accounting Research,"
The Univ. of Memphis

1994, Claudia Beverly-Leath, "Consumer Preference for Community-Based
Long-Term Care," College of Nursing, The Univ. of Tennessee-Memphis

1993, June Larrabee, "Hospital Patients' and Nurses' Perceptions of
Quality," The University of Tennessee-Memphis

1987, Marilyn Michelle Helms (Management), "Strategy and the Impact of
Environmental Pressures: An Analysis of the Small Package Industry,"
Memphis State University

1985, John Timothy Zietlow (Finance), "Asset Management of Independent Mission Agencies," Memphis State Univ.

**Professional
Organization
Membership**

American Society of Health Economists
AcademyHealth
International Healthcare Economics Assn (iHEA)

Consulting Positions 2011-date, Healthy Memphis Common Table, a Robert Wood Johnson Foundation funded Align Forces for Quality (A4FQ) organization

2009-11, Pennsylvania Department of Health, External Reviewer of County Health Department Models and other Health Services Research Projects.

2010, University of Tennessee Health Science Center

2009, Chinese Ministry of Health under the China Rural Health Project funded jointly by the World Bank and the U.K. Department of International Development

2008, Medical Education and Research Institute (MERI), Memphis, TN

2006, Medical Education and Research Institute (MERI), Memphis, TN

2005-06, The Regional Medical Center at Memphis (The MED), Memphis, Tennessee

2000-date, The Memphis Area Mental Health Summit/The Memphis Medical Society

2000-date, The Memphis and Shelby County Medical Society

2000 and 2005, The University of Tennessee Health Science Center

1999-2000, The Memphis and Shelby County Community Service Agency

1999-2000, The Regional Medical Center at Memphis

1999-2000, The Memphis and Shelby County Medical Society

1999-2000, The Regional Medical Center at Memphis, Memphis, Tennessee

1998, The Shelby County Health Department, Memphis, Tennessee

1992-96, Contract consultant to Federal Express Corporation

1989-92, Research consultant to a Kellogg Foundation funded research project, "The North Little Rock Community Seniors Health Services Project," co-directed by Rozanne Thatcher and Claudia Leath, the University of Arkansas for Medical Sciences

1985-88, Contract consultant to the Equal Employment Opportunity Commission, U. S. Department of Justice

1985, Contract consultant to Health Resources Development Corporation, Memphis, Tennessee

Teaching Areas Health Care Economics, Managerial Economics, and Executive MBA Economics

Ad Hoc Reviewer Health Services Research, Medical Care Research and Review, Health Economics, Public Finance Quarterly, Medical Care, The Journal of American Gerontological Society, Southern Economic Journal, Nonprofit Management and Leadership, Applied Economics, Public Budgeting and Financial Management, Southern Business and Economic Journal, Applied Gerontology, Review of Voluntary Sector Quarterly

Professional and Public Service
(Last 10 years)

2010, Scientific Review Committee, The 34d Biannual Conference of American Society of Health Economists

2007-08, Scientific Review Committee, The International Health Care Economics Association (iHEA)

2004 to date, Board of Directors, The Urban Child Institute, a philanthropy dedicated to the promotion of health and welfare of children in Memphis and Mid-South.

2003 to date, Board of Directors, The Center for Healthcare Quality, an independent, non-profit, healthcare quality improvement organization operated under a contract with the Centers for Medicare & Medicaid Services ([CMS](#)) to ensure that people covered by [Medicare](#) in Tennessee receive quality healthcare.

2003 to 2004, Member of the Professional and Technical Advisory Committee, Joint Commission on Accreditation of Health Care Organizations (JCAHO)

PUBLICATIONS

Book:

Chang, Cyril F., Price, Sylvia, and Pfoufz, Susan, Economic and Nursing: Critical Professional Issues, FA Davis Publishing Co., 2001

- Received the 2001 American Journal of Nursing Book of the Year Award
- Reviewed by Mary Anne Schutz, PhD, MBA, RN, Director of Online Educational Development, UCLA School of Nursing, in Journal of Nursing Administration, 2001, 31(6):332, and by Alison P. Smith, BSN, RN, Assistant Editor, Nursing Economics, in Nursing Economics, Jan 2001, 19(1):33-34.

Book Chapters:

Chang, Cyril F. and Tuckman, Howard P. "Chapter 1, Income Diversification," in Bruce Season and Dennis Y. Young (eds.), Nonprofit Economics and Management: The State of Research, Edward Elgar, 2010.

Chang, Cyril F., Price, Sylvia, and Pfoufz, Susan. "Health Care Economics," in Rose Kearney (ed.), Advancing Your Practice: Concepts of Professional Nursing, 4th ed., FA Davis Publishing Co., 2008.

Tuckman, Howard P. and Chang, Cyril F. "Commercial Activity, Technological change, and Nonprofit Mission," in WW Powell and Richard Steinberg (eds.), The Nonprofit Sector: A Research Handbook, 2nd Edition, The Yale University Press, 2006.

Chang, Cyril F. and Stephanie C. Steinberg. "The Cost and Cost Effectiveness of Kidney Transplantation: A Systematic Review and Economic Evaluation" in Dominick W. Mancuso (ed.), Progress in Kidney Transplantation, Hauppauge, NY: Nova Science Publishers, Inc., 2006.

Pfoufz, Susan, Price, Sylvia, and Chang, Cyril. "Health Economics," in Diana J. Mason, Judith K. Leavitt, and Mary w. Chaffee (eds.), Policy and Politics in Nursing and Health Care, 4th ed., Elsevier Science, 2002.

Tuckman, HP and Chang, CF. "Who Bears then Burden of Uncompensated Hospital Care?" in Health and Poverty, ed. Michael J. Holosko and Marvin D. Feit, New York: The Haworth Press, 1997.

Chang, Cyril F. and Howard P. Tuckman. "Financial Vulnerability and Attrition as Measures of Nonprofit Performance," in The Nonprofit Sector in the Mixed Economy, ed. by Avner Ben-Ner and Benedetto Gui, The University of Michigan Press, 1993, pp. 163-180.

Tuckman, Howard P. and Chang, Cyril F. "The Challenges to Creating and Maintaining Nonprofits in Newly Emerging Market Economies," in Societal Change Between Market and Organization. ed. by J. Child, M. Crozier, R. Mayntz et al. Brookfield, Vermont: Ashgate Publishing Company, 1993, pp. 101-124.

Chang, Cyril F. "Chapter 5 - Cost Analysis," in Community-Based Long-Term Care, The North Little Model, 1988-1992 (Monograph), ed. by Claudia Beverly-Leath, College of Nursing, University of Arkansas for Medical Sciences, Dec. 1992. (**)

Tuckman, Howard P. and Chang, Cyril F. "Accumulating Financial Surplus in Nonprofit Organizations," in Governing, Leading, and Managing Nonprofit Organizations, ed. by Dennis Young, Virginia Hodgkinson, and Robert Hollister, The Jossey-Bass Press, 1992, pp.253-278.

Tuckman, H. P. and Chang, Cyril F. "The Role of Goals in University Resource Allocation Decisions," in Stephen A. Hoenack, ed., The Economics, Management, and Fiscal Environment of American Universities, SUNY Press, 1990.

Refereed Journals:

Mirvis DM and Chang CF, "Tennessee's Option to Expand Medicaid Coverage: What are the Issues?" Tennessee Medicine (The Official Journal of the Tennessee Medical Association), November/December 2012:27-31.

Waters TM, Chang CF, Cecil WT, Kasteridis P, Mirvis D. "Impact of Consumer Directed Health Plans on Healthcare Utilization and Costs," Health Services Research, 2011; 46(1Pt1):155-172.

Warren CL, White-Means SI, Wicks MN, Chang CF, Gourley D, and Rice M "Cost Burden of the Presenteeism Health Outcome: Diverse Workforce of Nurses and Pharmacists," Journal of Occupational and Environmental Medicine, 2011; 53(1):90-99.

Chang CF and Troyer JL. "Trends in Potentially Avoidable Hospitalizations Among Adults in Tennessee, 1998-2006," Tennessee Medicine (The Official Journal of the Tennessee Medical Association), November/December 2011:35-45.

Wang J, Mullins CD, Chang CF et al. "Comparison of Changes Over Time in Health Expenditures Per Capita Across Racial and Ethnic Groups," Journal of Public Policy, 2010;6(3/4):172-189.

Steinberg SC, Faris RJ, Chang CF et al. "Impact of Adherence to Interferons in the Treatment of Multiple Sclerosis," Clinical Drug Investigation, 2010; 30(2):89-100.

Herrod HG and Chang CF. "Variations in Charges for the Care of Low Birth Weight Infants among Academic Hospitals," Clinical Pediatrics, 2010; 49(5):443-449.

Chang, CF and Troyer, JL. "The Impact of TennCare on Hospital Efficiency," Health Care Management Science 2009; 12(3):201-216.

Chang, CF, Herrod, HG and Steinberg, SS. "Prevalence and Costs of Acute and Chronic Potentially Avoidable Pediatric Hospitalizations in Tennessee," Tennessee Medicine (The Official Journal of the Tennessee Medical Association), 2009; 102(11):35-39.

Chang, CF and Pope, RA. "Potentially Avoidable Hospitalizations: An Analysis of Prevalence Disparities associated with Gender, Race and Insurance," Public Health Reports 2009; 124(1):127-37.

Chang, CF, Mirvis, DM and Waters, TW. "The Effects of Race and Insurance on the Likelihood of Potentially Avoidable Hospitalizations in Tennessee," Medical Care Research and Review 2008; 65(5):596-616.

Nichols, LO, Chang, CF, Lummus, A et al. "The Cost Effectiveness of a Behavior Intervention with Caregivers of Alzheimer's Patients," Journal of American Geriatric Society 2008; 56(3):413-420.

Mirvis, DM, Chang, CF, and Cosby, A. "Health is an Economic Engine: Evidence for the Importance of Health in Economic Development," Journal of Health and Human Services Administration 2008; 31(1):30-57.

Herrod, GH and Chang, CF. "Potentially Avoidable Pediatric Hospitalizations as Defined by the Agency for Healthcare Research and Quality: What Do They Tell Us About Disparities in Child Health?" Clinical Pediatrics 2008; 47(2):128-136.

Chang, CF. "From TennCare to Cover Tennessee: Providing Health Care to Low-Income Individuals and the Uninsured in Tennessee," Managed Care (Peer Reviewed) 2007; 16(11):45-49.

Chang, CF and Mirvis, DM. "Health Care Utilization Data in Tennessee: Inpatient Discharges, 2005," Tennessee Medicine (The Official Journal of the Tennessee Medical Association), 2008, 101:31-33.

Chang, CF and Steinberg, SC. "Influence of Hospice Use on Hospital Inpatient Mortality: A State-Level Analysis," Hospital Topics 2006;84(2):2-10.

Chang, CF and Jain, Manoj. "Tennessee Has Too Many Potentially Avoidable Hospitalizations," Tennessee Medicine (The Official Journal of the Tennessee Medical Association), December 2006, 99:41-45.

Chang, CF, Rubin, RM, and Nocetti, D. "Healthy Life Expectancy for Selected Race and Gender Subgroups: The Case of Tennessee," Southern Medical Journal 2005; 98(10):977-984.

Chang, CF, Waters, TA, and Mirvis, DM. "Economics of Preventive Services in a Post-Managed Care Environment," Journal of Applied Health Economics and Health Policy 2004; 3(2): 67-70.

Rockett, Ian R.H. Putnam, SL., Jia, H, Chang, CF, and Smith, GS. "Substance Abuse Treatment Need, Health Services Utilization, and Cost: A Population-Based Emergency Department Study," Ann Emerg Med 2004; 45(2):118-127.

Chang, CF, Winsett, RP, Gaber, AO, and Hathaway, DK. "Cost Effectiveness of Posttransplantation Quality of Life Intervention among Kidney Recipients," Clinical Transplantation 2004; 18:407-414.

Retzlaff-Roberts, Donna, Chang, CF, and Rubin, RM. "Technical Efficiency in the Use of Health Care Resources: A Comparison of OECD Countries," Health Policy 2004; 69(1):55-72

Rubin, RM and Chang, CF. "A Bibliographical Analysis of Journal Publications by Prolific Authors in Health Economics," Health Economics 2003; 12(5):403-14.

Mirvis, DM and Chang, CF. "TennCare Myths and Realities: Are We Spending Too Much on TennCare?" Tennessee Medicine (The Official Journal of the Tennessee Medical Association),, March 2003, 96:129-31.

Mirvis, DM and Chang, CF. "The Relationship between Health and Development: Health as an Economic Engine." Tennessee Medicine (The Official Journal of the Tennessee Medical Association), January 2003, 96:29-31.

Kutikova, L, Reed, PJ, Bradberry, JC, Chang, CF, Gourley, DR. and Hak, LJ. "Comparison of the Political Contributions of Pharmacists with Other Health care Professionals," American Journal of Health-System Pharmacy 2003; 60(2):185-88.

Smith, William and Chang, Cyril F. "Shipping the good apples out: a note on contributions of time and money," Economics Bulletin, 2002, 10(1):1-14.

Mirvis, DM, Bailey, JE, and Chang, CF, "TennCare – Medicaid Managed Care in Tennessee in Jeopardy," The American Journal of Managed Care, January 2002, 8(1):57-68.

Chang, Cyril F. "A critical Review of the Arguments for Insurance Coverage for Smoking-Cessation Therapies," Managed Care, May 2001, 10(5):62-65.

Klesges, RC, Haddock, CK, Chang, CF, Talcottm GW and Lando, HA. "Smoking and Its Relationship to the Cost of Military Training," Tobacco Control, 2001, 10(Spring):43-47.

Rubin, RM and Chang, CF. "The Uninsured under TennCare: A Case Study of Public Health Clinic Users," Southern Medical Journal, 2000, 93(10): 989-995.

Chang, Cyril F., Okunade, Albert, and Kumar, Ned. "The Motives Behind Charitable Bequests," Journal of Nonprofit and Public Sector Marketing, 1999, 6(4): 69-85.

Tuckman, HP, Chang, CF, and Okunade, A. "A Transform-Both-Sides Modulus Power Model: An Application to Health Care," Applied Economics Letters, 1999, 6(11): 741-45.

Tuckman, HP and Chang, CF. "Commentary," Nonprofit Management & Leadership, 1999, 10(1): 117-119.

Bailey, JE, Chang, CF et al. "Academic Managed Care Organizations and Adverse Selection Under Medicaid Managed Care in Tennessee," Journal of American Medical Association, 1999, 282: 1067-1072.

Chang, CF. "Caring for Vulnerable Older Adults in Urban Academic Medical Centers in a Managed Care Environment," Journal of the American Geriatrics Society, 1998, 46: 1478-1479. [Editorial]

Chang, CF. "Health Economics and Sexual Dysfunction," The American Journal of Managed Care, 1999, 5(1), Supplement: S15-S22.

Winsett, RP, Chang, CF et al. "Posttransplant Quality of Life: A Decade of Descriptive Studies Leading to Practice Intervention," Journal of Transplant Coordination, 1998, 8: 236-240.

Tuckman, HP and Chang, CF. "The Fundraising Activities of Nonprofit Organizations," Nonprofit Management and Leadership, Vol. 9(2), Winter 1998: 211-221

Chang, CF et al., Reply to Letters to the Editor on 'TennCare Partners: Tennessee's Failed Managed Care Program for Mental Health and Substance Abuse Services,' JAMA, 1998, 280(10): 885.

Chang, CF et al. "TennCare Partners: Tennessee's Failed Managed Care Program for Mental Health and Substance Abuse Services," JAMA, 1998, 279(11): 864-69.

Okunade, Albert and Chang, CF. "Relative Success of State Managed Behavioral Healthcare: Does the Financing Structure Play a Role?" Journal of Health Care Finance, 1998, 24(3): 27-40.

Wilson, Dennis, Smith, William, Rogers, John, and Chang, Cyril F. "The Treatment of Medical Indebtedness in Bankruptcy Cases," The Journal of Economics, 1997, 23(1): 73-82.

Mirvis, DM, Chang, CF, and Morreim, EH. "Protecting the Elderly While Managing Their Care," Journal of the American Geriatrics Society, 1997, 45: 645-46. [Editorial]

Mirvis, D. M. and C. F. Chang, "Managed Care, Managing Uncertainty," The Archives of Internal Medicine, February 1997.

Chang, C. F. and Wilson, Dennis. "Last in Line: How Much Can Physicians Collect When Their Patients File for Bankruptcy?" Journal of Medical Practice Management, July/August 1996, 12(1): 27-31.

Mirvis, D. M., C. F. Chang, and W. B. Applegate, Reply to Letters to the Editor on 'Tennessee's Answer for Health Care Reform,' JAMA, March 6, 1996, 275(9): 683-84.

Mirvis, D. M., C. F. Chang, C. J. Hall, G. T. Zaar, W. B. Applegate, "TennCare: Tennessee's Answer for Health Care Reform," JAMA, Vol. 274(15), October 18, 1995: 1177-1250.

Chang, Cyril F. and Tuckman, Howard P. "The Goods Produced by Nonprofit Organizations," Public Finance Quarterly, Vol. 24(1), Jan. 1996: 25-43.

Chang, Cyril F. "TennCare: An Experiment That Created a Monster," Best's Review, September 1995: 64-65

Chang, Cyril F. "The Evolving Changes in Health Care Reform," the Journal of Intravenous Nursing, Vol. 18(5), Sept./Oct. 1995: 241-244.

Chang, Cyril F. and White-Means, Shelley I. "The Labor Supply of Informal Caregivers," forthcoming in International Review of Applied Economics, Vol. 9(2), 1995: 192-205.

White-Means, Shelley and Chang, Cyril F. "Informal Caregiver's Leisure Time and Stress," forthcoming in Journal of Family and Economic Issues, Vol. 15(2), 1994: 117-36.

Chang, Cyril F. and Tuckman, Howard P. "Revenue Diversification Among Nonprofit Organizations," Voluntas, Vol. 5(3), 1994: 273-90.

Chang, Cyril F. "The Influence of Church and Synagogue Attendance on the Probability of Giving and Volunteering," Journal of Nonprofit and Public Sector Marketing, 2(4), 1994.

Chang, Cyril F. "TennCare: Tennessee's Answer for Health Care Reform," The Journal of Medical Practice Management, June/July 1994, pp. 259-262.

Chang, Cyril F. and Tuckman, Howard P. "The Hospital Characteristics Associated With The Likelihood of An Audit," Hospital and Health Services Administration (The official journal of the Foundation of the American College of Healthcare Executives), Vol. 38(4), Winter 1993, pp. 523-536.

Okunade, Albert, Chang, Cyril F. and Evans. "SAS and Beyond: Regression Problems in Common Statistical Packages," The American Statistician, Vol. 47(4), November 1993, pp. 298-303.

Chang, Cyril F., Steinbart, Paul J. and Tuckman, Howard P. "Can the Probability of a Medicare Hospital Audit be Predicted," Journal of Accounting and Public Policy, Vol. 12(2), Summer 1993, 1993, pp. 135-154.

Tuckman, Howard P. and Chang, Cyril F. "How Well is Debt Managed by Nonprofit Organizations?" (Lead Article), Nonprofit Management and Leadership, Vol. 3(4) (June 1993), pp. 347-361.

Leath, Claudia, Rozanne Thatcher, and Chang, Cyril F. "Cost Analysis of Comprehensive Community-Based Managed Care," Perspective on Aging (Published by the National Council on Aging), Vol. XXI(4/5), July-October 1992, pp. 31-35.

Tuckman, Howard P. and Chang, Cyril F. "Nonprofit Equity: A Behavioral Model and Its Policy Implications," Journal of Policy Analysis and Management (Univ. of Calif. at Berkeley), Vol. 11(1), Winter 1992, pp. 76-87. Abstracted in Journal of Economic Literature, Vol. 30 (2), June 1992, p. 1261.

Chang, Cyril F. and Tuckman, Howard P. "Financial Vulnerability and Attrition as Measures of Nonprofit Performance," Annals of Public and Cooperative Economics, Vol. 62(4), 1991, pp. 655-672.

Chang, Cyril F. and White-Means, Shelley I. "The Men Who Care: An Analysis of Male Primary Caregivers Who Care for Frail Elderly at Home," Journal of Applied Gerontology, Vol. 10(3), September 1991, pp. 343-358.

Tuckman, Howard P. and Chang, Cyril F. "A Methodology for Measuring Charitable Nonprofit Organization Financial Vulnerability," Nonprofit and Voluntary Sector Quarterly, Vol. 20(4), December 1991, pp. 445-460.

Shelley I. White-Means and Chang, Cyril F. "Family Choice and Informal Caregiving to the Home Bound Elderly," Southern Economic Journal, Vol. 58(1), July 1991, pp. 203-224. Abstracted in Journal of Economic Literature, Vol. 30 (1), March 1992, p. 558.

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Recent Newspaper Columns:

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- “Health Care Sure to Polarize Elections,” *The Memphis Commercial Appeal*, July 6, 2012.
- “Four Provisions Underpin Health Reform,” *The Memphis Commercial Appeal*, April 6, 2012.
- “Health Reform Taking Shape” (with David Mirvis), *The Tennessean*, January 26, 2012
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- “Tort Reform: Cost Savings are Exaggerated,” *The Memphis Commercial Appeal*, September 17, 2010.
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Recent Media Interviews and Exposure:

- Quoted in a *Memphis Commercial* article dated, December 19, 2012, on the ongoing health care construction boom that sustained the Memphis economy.
- Featured and quoted extensively in a *American Medical News* article, dated September 24, 2012, and titled, “Will Health Coverage Cost Trends Blunt the Rebound in Physician Office Visits?”
- Quoted extensively in a *Memphis Commercial* article dated, June 29, 2012, on the Supreme Court ruling on constitutionality of Medicaid expansion.
- Quoted in a *Memphis Commercial Appeal* article dated, Feb. 21, 2012, on the merger of Stern Cardiovascular Group with the Memphis Heart Clinic.
- Appeared in a 4-part TV documentary, “Southern Remedy: Mississippi’s Big Problem,” that focused on the state’s obesity epidemic to discuss the economics of obesity and effective strategies. The series were aired throughout Mississippi and other parts of the county in the summer and fall of 2011.
- Interviewed by reporter Aisling Maki and was quoted extensively in an article on Smith & Nephew and the medical device industry in the Dec. 22, 2011, edition of *The Memphis Daily News*.

- Interviewed and quoted extensively by reporter Toby Sells in an article on the merger of Memphis area hospitals and medical clinics in the Nov. 26, 2011, edition of *The Memphis Commercial Appeal*.
- Interviewed by reporter Toby Sells and quoted extensively in an article on health care and recession in the Nov. 14, 2011, edition of *The Memphis Commercial Appeal*.
- Quoted extensively in the Oct. 10, 2011, edition of *American Medical News* (The official newspaper of the American Medical Association) by staff writer Victoria Stagg Elliott in a story on the slowing down in health care utilization by both the insured and uninsured Americans.
- Guest appearance on an AM990 Talk Show Program “AM Memphis” to discuss health care reform with program host Chris Wade and answered call-in questions from the listeners on July 29, 2011.
- Interviewed by reporter Toby Sells and quoted extensively in an article on health care reform’s impacts on job growth and the economy in the Feb. 24, 2011, edition of *The Memphis Commercial Appeal*.
- Interviewed by reporter Christopher Sheffield and quoted extensively in an article “Compensation divide: Gulf is growing between numbers for primary care, specialist practices,” in *Memphis Business Journal*, Feb. 11-17, 2011.
- Guest appearance in a Memphis WKNO “The Best Times” story aired on Sept. 16, 2010, on the future of Medicare.
- Featured in an “In the Spotlight” article in the Feb. 13, 2009 edition of the Memphis Business Journal (<http://memphis.bizjournals.com/memphis/stories/2009/02/16/focus5.html>).
- Interviewed at length by Loren Johnson of Memphis Fox13 TV for a feature story on the health care proposals of Obama and McCain aired on Nov. 3, 2008.
- Interviewed and quoted extensively by reporter Richard Locker in an op-ed article in the Oct. 19, 2008 edition of Memphis Commercial Appeal on the Obama and McCain health care proposals.
- Interviewed and quoted extensively by reporter Tom Charlier in a feature article in the Oct. 12, 2008 edition of Memphis Commercial Appeal on the rising ranks of the uninsured.
- Interviewed and quoted extensively by reporter Daniel Connolly in an article in the Aug. 26, 2008 edition of Memphis Commercial Appeal on hospital expansion in northern Mississippi.
- Interviewed and quoted extensively by reporter Scott Shepard in a story in the May 14, 2008 edition of the Memphis Daily News on rural health care in China and the opportunities for Tennessee and the University of Memphis.
- Quoted extensively in a Memphis Business Journal article on the China-Tennessee Health Care Exchange Program on May 7, 2008.
- Featured prominently in a story in the Feb. 11, 2008 edition of the Memphis Business Journal by reporter Toby Sells on the economic impact of Medical Education and Research Institute.

- Interviewed and quoted by reporter Mark Watson in an article on the uninsured in the April 14, 2008 edition of Memphis Commercial Appeal.
- Featured in an article in the Sept. 7, 2007 edition of the Commercial Appeal by Daniel Connolly on the future of SCHIP (State Children's Health Insurance Program).
- Interviewed and quoted extensively in an article in the May 8, 2007 edition of the Commercial Appeal by Daniel Connolly on a class-action lawsuit involving insurance and physicians.
- Featured in an article in the February 11, 2007 edition of Memphis Commercial Appeal by Mary Powers based on an article I published in Tennessee Medicine on the prevalence of potentially avoidable hospitalization
- Interviewed and quoted extensively by Erin Lawley of the Nashville Business Journal in an article on the need for the Tennessee Certificate of Need legislation, February 26, 2007
- Interviewed at length by Zac Hill of The Memphis Flyer, on Tennessee's health status in national ranking, September 21, 2006
- Quoted extensively by Barbara Holden in an article for Memphis Commercial Appeal on the economic contribution of the child care industry in Memphis and Shelby County, Tennessee, August 15, 2006
- Interviewed and quoted by Don Mooradian in an article, 'TennCare Networks Taking Shape n Mid-State' in the Fall 2006 issue of Tennessee: Health Plan Analysis, a HealthLeaders/ Industry Study publication.

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