

STEPHEN JEROME ZYZANSKI

Office Address:

Department of Family Medicine
Case Western Reserve University
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Born: 1937, Hammond, Indiana

Education

- 1960 B.S., Iowa State University, Ames, Iowa. Major: Industrial Psychology, Minors: Chemistry, Mathematics
- 1962 M.S., Iowa State University. Major: Psychology, Minor: Psychometrics. Thesis: "An Analysis of Variance Applied to Factors That Do Not Have Comparable Scales." Thesis Advisor: Dr. Leroy Wolins
- 1968 Ph.D., University of North Carolina, Chapel Hill, North Carolina. Major: Psychometrics. Minors: Mathematics and Biostatistics. Dissertation: "A Multivariate Normal Analysis for Categorical Data." Dissertation Advisors: R. Darrel Bock and Lyle V. Jones

Recent Positions

- 2012-present Emeritus Professor of Family Medicine, Epidemiology & Biostatistics and Oncology, School of Medicine, Case Western Reserve University.
- 1986–2012 Professor, Department of Family Medicine, School of Medicine, Case Western Reserve University.
- 1979–2008 Director, Division of Research, Department of Family Medicine, School of Medicine, Case Western Reserve University.
- 1999-2008 Director, Behavioral Measurement Core Facility, Ireland Cancer Center, Case Western Reserve University.

Professional Appointments

- 1987–1988 Acting Co-Chairman, Department of Family Medicine, School of Medicine, Case Western Reserve University.
- 1979–1986 Associate Professor, Department of Family Medicine, School of Medicine, Case Western Reserve University.
- 1979–1988 Director, Robert Wood Johnson Faculty Fellowship Program, Department of Family Medicine, School of Medicine, Case Western Reserve University.
- 1972–1979 Associate Professor, Department of Behavioral Epidemiology, Boston University School of Medicine, Boston, Massachusetts.
- 1971–1972 Associate Professor, Department of Epidemiology, School of Public Health and Department of Psychology, University of North Carolina, Chapel Hill, North Carolina.
- 1968–1971 Assistant Professor, Department of Epidemiology, School of Public Health and Department of Psychology, University of North Carolina, Chapel Hill, North Carolina.
- 1966–1968 Research Associate, Department of Epidemiology, School of Public Health, University of North Carolina, Chapel Hill, North Carolina.

Honors

1960	Phi Chi, Psychology Honorary, Iowa State University.
1962	Phi Kappa Phi, Scientific Honorary, Iowa State University.
1965–1966	Behavioral Statistics Fellowship, University of North Carolina.
1978	American Men and Women of Science, 13th Edition.
2004	Curtis Hames Research Award, Society of Teachers of Family Medicine,
2012	Maurice Wood Award for Lifetime Contribution to Primary Care Research.

Professional Societies

1962–1990	Psychometric Society
1967–1984	American Public Health Association
1974–1986	Psychosomatic Medicine Society
1969–present	American Psychological Association
1969–present	Society for Epidemiology Research
1969–present	American Statistical Association
1979–present	Society of Teachers of Family Medicine
1979–present	North American Primary Care Research Group
2002–present	American Psychosocial Oncology Society

Editorial Boards

1986–1993	Editorial Board, Family Medicine
1982–1990	Editorial Board, Family Practice Research Journal
1982–1988	Editorial Board, Journal of Human Stress
1984–1987	Editorial Board, Journal of Behavioral Medicine
1992–present	Reviewer of manuscripts, Family Medicine
1990–present	Reviewer of manuscripts, Journal of Family Practice
1978–1986	Reviewer of manuscripts, Psychosomatic Medicine
1974–1986	Reviewer of manuscripts, American Journal of Public Health
1977–1984	Reviewer of manuscripts, Medical Care, 1992–present
2002–present	Editorial Board, Annals of Family Medicine

Professional Services

1968–1972	Consultant, Division of Nursing, Health Resources Administration.
1972–1973	Member, Health Services Research Training Committee.
1976–1980	Member, Nursing Research and Education Study Section, Division of Nursing, Bureau of Health Manpower, Health Resources Administration.
1991–1997	Member, Board of Trustees, Ohio Academy of Family Physicians Foundation
1995–1997	Chair, Grants Evaluation Committee, Ohio Academy of Family Physicians Foundation

Specialties

Behavioral Epidemiology and Behavioral Medicine; Applied Statistics; Behavioral Factors in Cardiovascular Disease; Family Practice Research; Behavioral and Attitude Measurement.

Funded Research

Behavioral Factors in Coronary Heart Disease. Funded by National Heart, Lung and Blood Institute. 1969-1972. Principal Investigator: C. David Jenkins, Ph.D. Total direct costs \$136,610, 80% paid effort. Responsibilities: Co-investigator; development of scoring methods for Type A behavior, statistical analysis, data management, write-up of results.

Component of a prospective study of 3,282 men designed to develop and refine behavioral instruments predictive of CHD incidence.

Behavioral Factors in Coronary Heart Disease. Renewal, funded by National Heart, Lung and Blood Institute. 1972 -1975. Principal Investigator: C. David Jenkins, Ph.D. Total direct costs \$212,211, 50% paid effort. Responsibilities: Co-investigator; research design; all measurement issues and all statistical analyses, management of all computer files and write-up.

Longitudinal analysis designed to identify and quantify behavioral factors that influence risk of developing CHD. Data derived from over 7,000 men in different study groups.

Behavioral Factors in Coronary Heart Diseases. Renewal, funded by National Heart, Lung and Blood Institute. 1975-1977. Principal Investigator: C. David Jenkins, Ph.D. Total direct costs \$187,000, 100% paid effort. Responsibilities: Co-investigator; grant writing, project organization, data management, design and measurement issues, all statistical analyses, supervision of programmers, write-up of results.

A program of multidisciplinary research of the influences of behavioral factors on the etiology and course of cardiovascular diseases.

Recovery After Heart Surgery: Bio-Behavioral Factors. Funded by National Institutes of Health, 1977-1980. Co-Principal Investigators: C. David Jenkins, Ph.D. and Stephen J. Zyzanski, Ph.D. Total direct costs \$594,320, 75% paid effort. Responsibilities: grant writing, coordination of project data, supervision of programmers, all measurement and statistical analysis issues, information management, write-up of results.

A three year prospective study of 400 heart surgery patients examining bio-psychosocial factors in relationship to post operative recovery and rehabilitation outcomes.

Family Practice Faculty Fellowship. Funded by Robert Wood Johnson Foundation, 1979-1988. Total direct costs, 1982 through 1987, i.e., second and third renewal only, \$1,883,851, 50% paid effort. Responsibilities: project director, grant writing, recruiting, thesis advisor, teaching, data management and analysis, write-up.

One of three programs in the United States designed to provide academic training for family physicians interested in careers in academic family medicine.

Israeli Physicians Family Medicine Fellowship. Funded by the Jewish Community Federation of Cleveland, 1982-1986. Total direct costs, \$30,332, 10% paid effort. Responsibilities: thesis advisor, teaching, data management and analysis, writing of results.

This program is designed to mirror the Johnson Fellowship in the training of Israeli family physicians. The goal is to provide high level academic training, including research, for Israeli physicians planning careers in academic family medicine in Israel.

Development of a Family Competence Instrument Related to Health. Funded by American Nurses Foundation, 1981. Principal Investigators: Virginia Boardman, Ph.D. and Stephen J. Zyzanski, Ph.D. Total direct costs, \$2,100. Responsibilities: Psychometric development and evaluation of the competence instrument.

Project designed to refine and cross-validate a family competence questionnaire in relation to illness and health measures.

Computer Analysis of GAO Cleveland Elderly Survey. Funded by the Cleveland Foundation, 1981. Principal Investigator: Stephen J. Zyzanski, Ph.D. Total direct costs, \$3,462. Responsibilities: supervision of programmer, coordinating data analysis, write-up of results.

The major objectives were to generate a series of epidemiological tables and analyses to examine selected content areas for significant trends over time.

Continuing Analyses of Three Large Epidemiological Data Bases. Funded by Robert Wood Johnson Foundation, 1982. Principal Investigator: Stephen J. Zyzanski, Ph.D. Total direct costs, \$11,000. Responsibilities: supervision of computer programmer, design of data analysis strategies for three data bases, statistical analyses, write-up of results.

Further analysis of three data bases, two prospective and one cross-sectional, evaluating psychosocial risk factors and biomedical and functional outcomes.

Evaluation of Family Dysfunction as a Factor in Moderate Infant Growth Failure. Funded by Robert Wood Johnson Foundation, 1982-1985. Principal Investigator: Kenneth G. Reeb, MD. Total direct costs, \$149,909, 15% paid effort. Responsibilities: statistical consultant, grant writing, design of interview schedules, data management and analysis, write-up of results.

Longitudinal study of 140 black pregnant women followed for the first 18 months of their child's life. Stress, social support and family functioning were examined as factors predictive of decrements in infant growth rate.

Cleveland GAO Study of Elderly Dependency: A Follow-up. Funded by National Institute of Aging, 1983-1986. Principal Investigator: Amasa Ford, M.D. Total direct costs, \$431,044, 15% paid effort. Responsibilities: Co-investigator; methodological development, data management and analysis, write-up.

A 9-year follow-up of a representative sample of 1598 Cleveland elderly designed to assess current level of physical and mental health and function as well as changes in these conditions.

Widows and Divorcees: Life Course Patterns in Adjustment. Funded by the National Institute of Aging, 1984-1987. Principal Investigator: Gay C. Kitson, Ph.D. Total direct costs, \$364,953, 5% paid effort. Responsibilities: statistical consultant, measurement issues, data management and computer analysis.

A three year prospective study designed to examine the physical and mental health and social adjustment patterns of 125 widows and 125 matched divorcees.

Improving the Prediction of Prematurity: Psychosocial and Biological Factors. Funded by the Robert Wood Johnson Foundation, 1985-1987. Principal Investigator: Kenneth G. Reeb, M.D. Total direct costs, \$150,000, 5% paid effort. Responsibilities: methodological consultant, research design, measurement issues, data management and analysis.

Establishment of Departments of Family Medicine. Funded by Health Resources and Services Administration, 1988-1994. Principal Investigator: C. Kent Smith, M.D. Total direct costs, \$322,587, 30% paid effort. Responsibilities: enhance the research productivity of junior faculty through funded pilot projects and faculty development workshops. Special emphasis placed on developing a network of community practices for research purposes.

Physician Training in Alcohol and Substance Abuse. Funded by NIAAA, 1990-1995. Principal Investigator: A. Graham, PhD. Total direct costs \$161,618, 5% paid effort. Responsibilities: Development of a training module for research methods in substance abuse.

Buffers of the Impairment-Disability Cascade Among the Old-Old. Funded by National Institute on Aging, 1992-1996. Principal Investigator: Kurt C. Stange, M.D. Total direct costs, \$808,663, 10% paid effort. Responsibilities: psychometric assessment of measurement tools and statistical analysis consultant.

A five year prospective study designed to test a comprehensive model of buffers of disability and diminished quality of life in a cohort of 604 community living elderly.

Establishment of Departments of Family Medicine. Funded by Health Resources and Services Administration, 1994-1997. Principal Investigator: C. Kent Smith, MD. Total direct costs, \$445,983, 25% paid effort. Responsibilities: development of research at three regional sites.

Direct Observation of Primary Care Practices. Funded by National Cancer Institute, 1994-1996. Principal Investigator: Kurt C. Stange, MD. Total direct costs, \$816,558, 25% paid effort. Responsibilities: Statistical analysis of data derived from direct observation of preventive services in a network of 120 community family physician practices.

Development of Methods and a Laboratory for the Study of Primary Care Practices. Funded by the Robert Wood Johnson Foundation Generalist Physician Scholar Program; Scholar: Kurt Stange, MD, PhD. Total direct costs, \$240,000, 3% paid effort. Responsibilities: Consultation and mentoring regarding measurement issues and methods of analysis.

Direct Observation of Primary Care Practices: Cancer Prevention Trial. Funded by National Cancer Institute, 1996-2000. Principal Investigator: Kurt Stange, MD, PhD. Total direct costs \$1,737,702, 20% paid effort. Responsibilities: Development of protocols and statistical analysis of data from this randomized control clinical trial.

Establishment of Departments of Family Medicine. Funded by Health Resources and Services Administration, 1997-2000. Principal Investigator: C. Kent Smith, MD. Total direct costs, \$549,078, 20% paid effort. Responsibilities: Development and implementation of a research focus on the impact of genetics research on primary care practices.

Center for the Value of Family Practice. Funded by American Academy of Family Physicians, 1998-2002. Principle Investigator: Kurt Stange, MD, PhD. Total direct costs \$900,000, 1% paid effort. Responsibilities: Development of research instrumentation and statistical analysis of data.

Paid Consultantships (Since 1975)

- Multiple Risk Factor Intervention Trial (MRFIT) Coordinating Center, 1975. Principal Investigator: Marcus Kjelsberg, M.D. Incorporation and assessment of Type A behavior measures in the MRFIT Study.
- Air Traffic Controller Health Change Study: A Prospective Investigation of Physical, Psychological and Work-Related Changes, 1973-1978. Principal Investigator: Robert Rose, M.D. Total direct costs, \$2,300,000. Advise on questionnaire design, measurement issues and statistical analysis.
- Training Effects, Performance and Structural Changes of the Heart: Exercise Effects in Middle-Aged and Old Rats, 1976-1978. Principal Investigator: Ellen Fuller, Ph.D. Total direct costs, \$181,000. Advise on research design and statistical analysis of repeated measures.
- Recovery After Heart Surgery: Bio-Behavioral Factors, 1980-1983. Principal Investigator: C. David Jenkins, Ph.D. Total direct costs \$485,000. Advise on psychometric scale development, multivariate statistical analysis and write-up of results.
- Parental Stressors in Pediatric Intensive Care Units, 1981-1983. Principal Investigators: Margaret Miles, Ph.D., and Melba Carter, Ph.D. Total direct costs, \$91,877. Advise on scaling techniques, research methods, questionnaire development and statistical analysis.
- Post Residency Data Base Project, 1982-1984. Principal Investigator: Jack H. Medalie, M.D. Total direct costs, \$40,000. Advise on setting up a computerized medical record, developing a common encounter and registration form, statistical analysis of practices, write-up of results.
- Stress Induced Disease: Determinants in the Herpes Simplex Type I Model, 1983-1984. Principal Investigator: David Schmidt, M.D. Total direct costs, \$30,000. Advise on questionnaire development, research methods, data analysis and write-up of results.
- Improving Recovery From Cardiac Surgery, 1984-1986. Principal Investigator: Susan Gortner, Ph.D. Total direct costs, \$90,038. Advise on questionnaire design, measurement issues, statistical analysis and write-up of results.
- Psychometric Assessment of the Everyday Stressors Index. 1988-1990. Principal Investigator: Lynne A. Hall, Dr.P.H. Total direct costs, \$8,200. Advice on psychometric assessment of the stressors instrument and consultation regarding analysis strategies and interpretation of results.
- Somatization in Primary Care, 1990-1995. Principle Investigator: Frank V. DeGruy, M.D., M.S. Total direct costs, \$350,000. Advise on psychometric scale development, design issues, statistical analysis issues and writing for publication.
- Post Coronary Artery Bypass Graft Study—Clinical Centers Biobehavioral Study. 1988-1993. Principal Investigator: Byron J. Hoogwerf, M.D. Total Direct costs, \$472,022. Advice on development and psychometric assessment of a battery of instruments to evaluate quality of life post operatively.
- Testing the Effectiveness of Advance Medical Directives, 1995-1999. Principal Investigator: Peter Ditto, PhD. Total direct costs, \$1,696,668. Consultation regarding development of study measures and the statistical analysis of the longitudinal data.

Committee Appointments

National

1982–1986 Member, Board of Directors, North American Primary Care Research Group, Elected 1982, re-elected 1984, 1986.

State

1991–1999 Member, Board of Trustees, Ohio Academy of Family Physicians Foundation.

1981–1988 Member, Research Planning Committee, Ohio Academy of Family Physicians.

City

1980–1988 Member, Greater Cleveland High Blood Pressure Coalition Committee.

University and School of Medicine

2009-2011 Member, SOM Appointment, Promotion & Tenure Committee

1990–1996 Member, CWRU Faculty Senate Committee on Information Resources.

1982–1988 Associate, Health Systems Management Center, Case Western Reserve University (J.B. Silvers, Director).

1982–1989 Member, Jennings Computer Advisory Committee, Case Western Reserve University (D. Klingensmith, Chair).

1982–1988 Chairman, Computer Committee, Standing Committee of the School of Medicine, Case Western Reserve University.

1982–1984 Member, Phase II Biostatistics Planning Committee, School of Medicine, Case Western Reserve University (H. Houser, Chair).

1982–1984 Member, Computer Use in Biomedical Education Committee, School of Medicine, Case Western Reserve University (D. Neuhauser, Chair).

1980–1982 Member, Computer Committee, School of Medicine, Case Western Reserve University.

Department of Family Medicine

1987–2008 Chairman, Promotions Committee.

1982–1990 Member, Education Committee.

1980–1996 Chairman, Research Committee.

1990-2008 Chair of Department IRB Committee

1980–1997 Member, Medical Student Summer Fellowship Committee.

1980–1995 Chairman, Data Base Management Committee.

1979–2008 Member, Department Executive Committee.

1982–1987 Member, Promotions Committee.

1980–1988 Chairman, Robert Wood Johnson Fellowship Committee.

Bibliography

List of Research/Investigative Publications

Karas GG, Edelman SK, Zyzanski SJ, Goodrich D. “An analysis of the content of perceptual responses to randomly derived stimuli,” *Proceedings of the Iowa Academy of Science*, Vol. 68,1961.

Zyzanski SJ, Edelman SK, Karas GG. “An investigation of the judged complexity of stimuli with high information content,” *Proceedings of the Iowa Academy of Science*, Vol. 69,1962.

Jenkins CD, Zyzanski SJ. Dimensions of belief and feelings concerning three diseases, poliomyelitis, cancer, and mental illness: A factor analytic study. *Behavioral Science*, 1968; 13:372-381.

Jenkins CD, Roseman RH, Zyzanski SJ. Cigarette smoking: Its relationship to coronary heart disease and related risk factors in the Western Collaborative Group Study. *Circulation*, 1968; 38:1140-1155.

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Rosenman RH, Friedman M, Strauss R, Jenkins CD, Zyzanski SJ, Wurm M. Coronary heart disease in the Western Collaborative Group Study: A follow-up experience of 4-1/2 years. *J Chronic Diseases*, 1970; 23: 173-190.

Jenkins CD, Zyzanski SJ, Rosenman RH. Progress toward validation of a computer-scored test for the Type A coronary-prone behavior pattern. *Psychosomatic Medicine*, 1971; 33:193-202.

Jenkins CD, Zyzanski SJ, Rosenman RH, Cleveland GL. Association of coronary-prone behavior scores with recurrence of coronary heart disease. *Journal of Chronic Diseases*, 1971; 24:601-611.

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Hulka BS, Zyzanski SJ. Predictors of atypical smear status among women attending a cervical cancer screening program. *Am J Epidemiology*, 1971; 94:564-571.

Jenkins CD, Rosenman RH, Zyzanski SJ. Epidemiologic study of cigarette smokers and non-smokers. *Health Services Reports*, 1973; 88:834-843.

Jenkins CD, Rosenman RH, Zyzanski SJ. Prediction of clinical coronary heart disease by a test for the coronary-prone behavior pattern. *N Engl J Med*, 1974; 290:1271-1275.

Zyzanski SJ, Hulka BS, Cassel JC. Scale for the measurement of satisfaction with medical care: Modifications in content, format and scoring. *Medical Care*, 1974; 12:611-620.

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Simpson M, Olewine D, Jenkins CD, Ramsay F, Zyzanski SJ, Hames CG. Exercise-induced catecholamines and platelet aggregation in the coronary-prone behavior pattern. *Psychosomatic Medicine*, 1974; 36.

Jenkins CD, Thomas G, Olewine D, Zyzanski SJ, Simpson MT, Hames CG. Blood Platelet Aggregation and Personality Traits. *J Human Stress*, 1975; 1:34-46.

Jenkins CD, Zyzanski SJ, Rosenman RH. Risk of new myocardial infarction in middle-aged men with manifest coronary heart disease. *Circulation*, 1976; 53:342-347.

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- Jenkins CD, Zyzanski SJ, Roseman RH. Coronary-prone behavior: One pattern or several? *Psychosomatic Medicine*, 1977; 40:25-43.
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