

**BIOGRAPHICAL SKETCH**

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.  
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Pendergast, Jane F.	POSITION TITLE Full Professor		
eRA COMMONS USER NAME PENDERGAST			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Dayton	BA	1974	Mathematics
University of Iowa	MS	1976	Statistics
University of Iowa	PhD	1979	Statistics

**A. Positions and Honors.****Research and Professional Experience:**

1979-1980 Research Associate, Dept. of Preventive Medicine and Environmental Health, University of Iowa  
 1980-1987 Research Assistant Professor, Dept. of Statistics, Division of Biostatistics, University of Florida  
 1982 -1991 Statistical Consultant, U. S. Veterans Administration, V. A. Medical Center, Gainesville, Florida  
 1982-1999 Research Associate Professor, Center for Health Policy Research, University of Florida  
 1989-1990 Interim Director of Biostatistics and Research Associate Professor, Dept. of Statistics, Division of Biostatistics, University of Florida  
 1992-1993 Visitor, Dept. of Statistics, University of Wisconsin  
 1994-1995 Visitor, Dept. of Statistics, University of Iowa (NSF Visiting Professorships for Women Award)  
 1987-1999 Research Associate Professor, Dept. of Statistics, Division of Biostatistics, University of Florida  
 1999 Research Associate Professor, Joint (50%) Appointment with the Dept. of Psychiatry, University of Florida  
 1999-2005 Associate Professor and Director of the Center for Public Health Statistics, Dept. of Biostatistics, University of Iowa  
 2005-present Professor and Director of the Center for Public Health Statistics, Dept. of Biostatistics, University of Iowa

**Other Experience and Professional Memberships:**

1996-98, 2000-02 Elected Member of the Board of Directors of the American Statistical Association  
 1997-1998 Elected Secretary of the Eastern North American Region of the International Biometric Society  
 1999-2000 Member & Chair of the Regional Advisory Board of the Eastern North American Region of the IBS

**Honors**

1988 Fellow of the American Statistical Association  
 2000-01 University of Iowa College of Public Health Faculty Teaching Award  
 2005-07 President-Elect, President, Past-President of the Eastern North American Region, International Biometry Association  
 2005 University of Iowa College of Public Health Faculty Service Award  
 2007 Fellow, University of Iowa CIC Academic Leadership Program

**B. Selected peer -reviewed publications.** (Publications selected from 45 peer-reviewed publications)

1. Agresti, A. and Pendergast, J. (1986). "Comparing Mean Ranks for Repeated Measures Data", *Communications in Statistics, Theory and Methods*, Vol. 15, No. 8, p. 1919-1940.
2. Randall, M., Kilpatrick, K., Pendergast, J., Jones, K., and Vogel, W.B. (1987). "Differences in Patient Characteristics Between Veterans Administration and Community Hospitals: Implications for VA Planning," *Medical Care*, Vol. 25, No. 11, pp. 1099- 1104.
3. Pendergast, J. F. and Vogel, W. B. (1988). "A Multi-Stage Model of Hospital Bed Requirements," *Health Services Research*, Vol. 23, No. 3, 381-399.
4. Kimberlin, C.L, Berardo, D., H., Pendergast, J. F., and McKenzie, L.C. (1992). "Community Pharmacist's Influence on Drug Therapy Decisions for Elderly Patients," *Annual Review of Gerontology and Geriatrics*, Vol. 12, pp. 126-149.
5. Kimberlin, C.L., Pendergast, J.F., Berardo, D.L., and McKenzie, L.C. (1993) "Effects of an Educational Program to Increase Community Pharmacists Involvement in Detecting and Resolving Drug-Related Problems in Elderly Patients," *Medical Care*, Vol. 31, No. 5, pp. 451- 468.
6. McKenzie, L.C., Kimberlin, C. L., Pendergast, J. F., and Berardo, D. H., (1994) "Potential Drug-Drug Interactions in a High Risk Ambulatory Elderly Population," *Journal of Geriatric Drug Therapy*, Vol. 8, No. 3, pp. 49-64.
7. Pendergast, J. F., Kimberlin, C. L., Berardo, D. L., and McKenzie, L. C. (1995). "Role Orientation and Community Pharmacists' Participation in a Project to Improve Patient Care," *Social Science and Medicine*, Vol. 40, No. 4, 557-565.
8. Pendergast, J. F., Gange, S. J., Newton, M. A., Lindstrom, M. J., Palta, M. and Fisher, M. A. (1996). "A Survey of Methods for Analyzing Clustered Binary Response Data," *International Statistical Review*, Vol. 64, No. 1, 1-30.
9. Shenkman, E., Pendergast, J., Reiss, J., Walther, E., Bucciarelli, R., and Freedman, S. (1996) "The School Enrollment-Based Health Insurance Program: Impact on the Health Care Use of Low-Income Children," *American Journal of Public Health*, Vol 86, No 12, 1791-1793.
10. Pendergast, J. F., Gange, S. J., and Lindstrom, M. J. (1997) "Correlated Binary Data," section of *Encyclopedia of Biostatistics*, John Wiley and Sons, London.
11. Shenkman, E., Pendergast, J., Naff, R., Freedman, S., Bucciarelli, R., Wegener, D., and Hartzel, T., (1997) "The Florida Healthy Kids Program: Children's Health Care Use Within Managed Care Settings". *Pediatrics*, Vol. 100, No. 6, 947-953.
12. Dougherty, M., Dwyer, J, Pendergast, J., Tomlinson, B., Boyington, A., Vogel, R.B., Duncan, P., Coward, R., and Cox, S. (1998) "Community-Based Nursing: Contingence Care for Older Rural Women," *Nursing Outlook*, Vol. 46, No. 5, 233-244.
13. Kimberlin, Carole L., Pendergast, Jane F., Berardo, Donna H., and McKenzie, Lynda C. (1998) "Issues Related to Using an Abbreviated CES-D on Written Questionnaires," *Psychological Reports*. Vol. 83, 411-421.
14. Powell, S., Newman, H., Pendergast, J., Lewis, M. (1998). "A Rodent Model of Spontaneous Stereotypy: Initial Characterization of Developmental, Environmental, and Neurobiological Factors," *Psychology Behavior*, Vol. 66 No 2, 355-363.
15. Tomlinson, B. U., Dougherty, M. C., Pendergast, J. F., Boyington, A. R., Coffman, M. A., and Pickens, S. M, (1999). "Dietary Caffeine, Fluid Intake, and Urinary Incontinence in Older, Rural Women," *International Urogynecology Journal and Pelvic Floor Dysfunction*, Vol. 10 No 1, 22-28.
16. Nau, D. P., Ried, D. Lipowski, E. E., Kimberlin, C., Pendergast, J., and Spivey-Miller, S. (2000). "Patients' Perceptions of the Benefits of Pharmaceutical Care", *J. of the American Pharmaceutical Assoc.*, Vol. 40, No. 1, 36-40.
17. Young, M, Triggs, W, Pendergast J. and Heilman, K. (2000) "The Effects of Selective Response Preparation on Corticospinal Excitability," *Cortex*, Vol. 36, No. 1, 19-29.
18. Littell, R., Pendergast, J., Natarajan, R. (2000). "Tutorial in Biostatistics: Modelling Covariance Structure in the Analysis of Repeated Measures Data," *Statistics in Medicine*, Vol. 19, 1793-1819.
19. Dougherty MC, Dwyer JW, Pendergast JF, Boyington AR, Tomlinson BU, Coward RT, Duncan RP, Vogel B, Rooks, LG, (2002) "A randomized trial of behavioral management for continence with older rural women." *Research in Nursing and Health* 25(1):3-13.
20. Nau, D., Reid, D., Lipowski, E., Kimberlin, C., and Pendergast, J. A perceived value model for explaining patients' intentions to continue use of pharmaceutical care services. *J of Pharmaceutical Marketing and Management* 14(1) 63-80. 2001.
21. Ward MM, Yankey JW, Vaughn TE, BootsMiller BJ, Flach SD, Welke KF, Pendergast JF, Perlin J, Doebbeling BN, (2004). Physician process and patient outcome measures for diabetes care: Relationships to organizational characteristics. *Medical Care* 42(9):840-850.
22. Davila J, Brooks J, Pendergast J, Chrischilles B. The effect of physician characteristics and their practice environment on surgical referral patterns for early stage breast cancer patients. *American College of Medical Quality* 19(6):266-273, 2004.
23. Ward MM, Diekema DJ, Yankey JW, Vaughn TE, BootsMiller BJ, Pendergast JF, Doebbeling BN. Implementation of strategies to prevent and control the emergence and spread of antimicrobial-resistant microorganisms in U.S. hospitals. *Infection Control and Hospital Epidemiology* 26(1)21-30, 2005.
24. Vander Wel ME, Litchfield RE, Ryan SJ, Myers-Geadelmann JD, Pendergast JF, and Ullom KK. Qualitative evaluation provides context to quantitative evaluation of a nutrition intervention. *Topics in Clinical Nutrition* 20(4):357-365, 2005

25. Brooks JM, Irwin CP, Hunsicker LG, Flanagan MJ, Chrischilles EA, Pendergast JF. Effect of dialysis center profit-status on patient survival: a comparison of risk-adjustment and instrumental variable approaches. *Health Services Research* 41(6):2267-89, 2006.
26. Gatewood JG, Litchfield R, Ryan SJ, Geadelmann JD, Pendergast JF, Ullom KK. Perceived barriers to community-based health promotion program participation. *American Journal Health Behavior*, 32(3):260-272, 2008.
27. Xie X-J, Pendergast J, and Clarke W. Increasing the power: A practical approach to goodness-of-fit test for logistic regression models with continuous predictors. *Computational Statistics and Data Analysis*, 52(5):2703-2713, 2008.
28. Zhao Y, Brooks JM, Flanagan MJ, Chrischilles EA, Pendergast JF, Hunsicker LG. Early nephrology care and physician access factors in elderly patients with end-stage renal disease. *Kidney International*, 74(12):1596-1602, 2008.
29. Oleson JJ, Breheny PJ, Pendergast JF, Ryan S, Litchfield RE, Myers-Geadelmann J. Impact of travel distance on WISEWOMAN intervention attendance for a rural population. *Preventive Medicine*, 47(5):565-569, 2008.
30. Morriss FH Jr, Abramowitz PW, Nelson SP, Milavetz G, Michael SL, Gordon SN, Pendergast JF, Cook EF. Effectiveness of a barcode medication administration system in reducing preventable adverse drug events in a neonatal intensive care unit: A prospective cohort study. *Journal of Pediatrics*, Sep 27, 2008 [Epub ahead of print].

**C. Research Support.**  
**Ongoing Research Support**

**ACTIVE**

Contract #5880NB90 (Pendergast, Jane F.) 10/01/01-continued yearly  
Iowa Department of Public Health / Bureau of Health Promotion  
Breast and Cervical Cancer Early Detection Program  
Data and Entry Analysis;  
WISEWOMAN Enhanced Study Design,  
Data Entry and Analysis  
Dr. Pendergast is the PI of a subcontract to study design, data management and analysis on this project.

(Wallace, Robert) 9/01/01 - 8/31/09  
CA-01-013  
Lung Cancer Care Outcomes/Surveillance Consortium – Iowa (NCI)  
Dr. Pendergast is the biostatistician on this project.

1 U18 HS016094-01 Univ. of Iowa Older Adults 4/14/06-3/31/11  
CERT  
NIH  
(Elizabeth Chrischilles, PI and Director; Gary Rosenthal Investigator and Co-Director)  
Investigator: Jane Pendergast, Biostatistician  
Dr. Pendergast is the PI of a subcontract to do evaluation on this project.

Contract Awarded 10/1/08-2/28/10 1.8 calendar  
A Comparison of Direct Access and Physical Therapy Episodes of Care Using Claims Data  
American Physical Therapy Association

Dr. Pendergast is the PI of this project.

1 R01 DC009560-01

8/1/08-7/31/12

.6 calendar

Moderators of Functional Outcomes in Children with  
Mild to Severe Hearing Loss

NIH

PI: Tomblin, Bruce

Biostatistician: Pendergast, Jane F.

Dr. Pendergast is a biostatistician on this project.

A R18 HS017034-01

9/7/07-8/31/10

1.08 calendar

Personal Health Records and Elder Medication Use  
Quality

DHHS

PI: Chrischilles, Elizabeth

Biostatistician: Pendergast, Jane F.

Dr. Pendergast is a biostatistician on this project.