

CURRICULUM VITAE/BIBLIOGRAPHY

David J. Vanness, Ph.D.

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PERSONAL INFORMATION

Date of Birth: 11/13/71

Place of Birth: Milwaukee, Wisconsin

Citizenship: United States

PRESENT ACADEMIC RANK AND AFFILIATIONS

Assistant Professor, Department of Population Health Sciences, University of Wisconsin Medical School, Madison, Wisconsin

Research Collaborator, Department of Health Sciences Research, Mayo Clinic, Rochester, Minnesota

Affiliate, Center for Demography and Ecology, University of Wisconsin, Madison

EDUCATION

2000 Ph.D. Economics: University of Wisconsin, Madison, Wisconsin

1996 M.S. Economics: University of Wisconsin, Madison, Wisconsin

1993 B.A. Economics and Government, *summa cum laude*: Georgetown University, Washington, D.C.

HONORS, AWARDS AND FELLOWSHIPS

1999 Co-recipient, Association for Health Services Research Award, Best Pre- and Post-Doctoral Research Poster

1999 Co-finalist, International Health Economics Association Graduate Student Research Competition

1994 Wisconsin Alumni Research Foundation fellowship

1993 Phi Beta Kappa

1989 National Merit Scholar

PREVIOUS PROFESSIONAL POSITIONS AND APPOINTMENTS

2001 – 2003 Assistant Professor of Health Services Research, Mayo Medical School, Rochester, Minnesota

2001 – 2003 Senior Associate Consultant, Division of Health Care Policy & Research, Department of Health Sciences Research, Mayo Clinic, Rochester, Minnesota

2002 – 2003 Associate Member, Mayo Clinic Cancer Center

- 1999 – 2001 Associate Consultant, Division of Health Care Policy & Research, formerly Section of Health Services Evaluation, Department of Health Sciences Research, Mayo Clinic
- 1998 Research Assistant, National Bureau of Economic Research, program at University of Wisconsin, Madison
- 1996 – 1999 National Institute of Mental Health, traineeship in the economics of health and mental health, University of Wisconsin, Madison
- 1995 – 1996 Research Assistant, Institute for Research on Poverty and La Follette Institute of Public Affairs, University of Wisconsin, Madison
- 1995 Project Assistant, Grader for Economics 548, Health Economics
- 1993 – 1994 Economic Analyst, Foley & Lardner, Washington D.C.
- 1989 – 1990 Legislative Director’s Intern, Office of Senator Robert W. Kasten, Washington D.C.

PROFESSIONAL MEMBERSHIPS, SOCIETIES AND ACTIVITIES

- Reviewer for: *American Journal of Preventive Medicine, Annals of Internal Medicine, Annals of Surgery, Arthritis and Rheumatism, Arthritis Care and Research, Health Economics, Journal of the American Medical Association, Liver Transplantation, Mayo Clinic Proceedings, Medical Decision Making, Tobacco Control, Value in Health*
- Member of: *American Economics Association, International Health Economics Association, Academy Health, Society for Medical Decision Making, International Society for Pharmacoeconomics and Outcomes Research*
- 2003 Contributed Research Abstract Review Committee for the ISPOR Eighth Annual International Meeting, May 18-21, 2003
- 2000 – 2001 Member, Board of Directors, Laboratory Control LTD Health Service Medical Research Fund, Ottumwa, Iowa

EDUCATIONAL ACTIVITIES

- 2003 – present Member, Doctoral Thesis Advisory Committee for Henry J. Henk, Department of Population Health Sciences
- 2002 Instructor, Mayo Clinic Scottsdale faculty and staff, “Introduction to Economic Evaluation of Health Care”
- 2002 – present Chair, Master's Thesis Advisory Committee for Michael P. Phy, D.O., Mayo Clinical Research Training Program
- 2000 – 2003 Lecturer, HSR 5000, Introduction to Health Services Research, Mayo Clinical Research Training Program
- 2000 – 2001 Guest Lecturer, Winona State University Graduate Program in Nursing, course in Health Care Policy and Finance

INSTITUTIONAL/DEPARTMENTAL ADMINISTRATIVE RESPONSIBILITIES, COMMITTEE MEMBERSHIPS AND OTHER ACTIVITIES

Mayo Rochester: Blue Cross Blue Shield of Minnesota Contract Review Team; Integrated Analysis Office External Trends Work Group; Integrated Analysis Office Patient Mix Work Group; Integrated Analysis Office High Impact Procedures Work Group; Multi-Year Fee Setting Strategy Work Group; Hospital Health Care Safety Team; Patient Data Coordination Work Group; Department of Health Sciences Research, Research Committee; Department of Health Sciences Research, Education Committee; Annual Institutional Fee Adjustment Work Group; Fee Committee; Employee Health Care Delivery Task Force; Clinical Practice Committee, Managed Care Operations Subcommittee; Congestive Heart Failure Initiative Task Force; Mayo Asthma Guidelines Implementation Core Group; Department of Internal Medicine, Outcomes Research Group

EXTRAMURAL SUPPORT

Active

Vanness, D,J PhD (Subcontract PI), Anna N.A. Tosteson (PI) 9/15/02 – 9/14/07 20%
NIH R01 AG12262-7 \$371,549 (subcontract); \$2,453,197 (total)

“Evaluation of Osteoporosis Prevention in the Elderly: Benefits and Costs”

The purpose of this grant is to assess the benefit and costs of osteoporosis prevention in the elderly, focusing on finding better ways to implement prevention strategy. Individual’s role is to build microsimulations to study cost-effectiveness of strategies to screen and treat osteoporosis.

Pending

Johnson, C,D MD (PI) 12/1/01 – 11/30/06 4% (during years 4-5)
NIH R01 CA75333-04 \$3,939,848

"CTC of the Unprepped Colon: Optimization and Validation."

The purpose of this grant is to assess the performance of CT Colonography in the prepared and unprepared colon for a screening population. Individual's role is to develop discrete state/event microsimulations to study the cost-effectiveness of computerized tomographic colonography in screening and/or surveillance for colorectal cancer.

Pending

McLeod, H,L, PharmD 8/1/2003 – 7/31/2005 5%
NIH R21 CA10246-1 \$250,000

"Pharmacogenetics of Advanced Colorectal Cancer"

The major goal of the project is to use genetic polymorphism profiles to refine predictions of treatment response and survival in patients with advanced colorectal carcinoma. Individual’s role is to incorporate this information into a medical decision making model.

Pending

Trentham-Dietz, A, PhD 4/1/04 – 3/31/08
NIH R01 CA107112 \$1,455,000 5%

“Long-term survival after colorectal cancer in Wisconsin”

The major goal of the project is to identify factors associated with morbidity and mortality among female long-term survivors of colorectal cancer. Individual’s role is to develop and analyze survey instruments assessing access to and ability to pay for health insurance and health services.

Pending

Williams 1/2/04-6/30/02 3%
 NIH \$283,265
 "Sibling Intervention: Benefits-Cost (SIB-C)."
 The purpose of this grant is to study educational interventions for siblings of chronically ill children.

Pending

Williams 8/31/03-8/30/07 3.5%
 University of Kansas/Hawaii Consortium \$296,786
 The purpose of this grant is to study clinic-based interventions for siblings of chronically ill children, focused upon Hawaiian, Japanese, and Filipino-American families.

Complete

Kamath, C,C (PI) 7/1/00 – 6/30/02 5%
 Indus – McNeil \$83,876
 "The Cost-Effectiveness of Ibuprofen, Selective Cox-2 Inhibitors and Tylenol in the Treatment of Symptomatic Knee Osteoarthritis."
 The purpose of this grant is to examine the cost-effectiveness of COX-2 Inhibitors relative to ibuprofen and acetaminophen for relief of knee osteoarthritis. Individual's role is to attribute costs to adverse events through the evaluation of billing data as well as to assist with decision analysis and sensitivity analysis.

PRESENTATIONS AT MEETINGSCompetitive Submissions

Fourth World Congress of the International Health Economics Association, San Francisco, June 15-18, 2003: "Using Expected Social Welfare Functions to Evaluate Uncertain Technology: The Example of DNA-Based Stool Testing for Colorectal Cancer" Vanness DJ

Fourth World Congress of the International Health Economics Association, San Francisco, June 15-18, 2003: "A Minimum Distance Method for Calibrating Cost-Effectiveness Simulations to Observed Epidemiological Data: The Case of Colorectal Cancer Screening" Vanness DJ

Eleventh European Workshop on Econometrics and Health Economics, Lund, Sweden, September 13, 2002: "A Structural Model Of Family Valuation And Choice Of Employer-Sponsored Health Insurance In The United States" Vanness DJ

Annual Research Meeting of the Academy for Health Services Research and Health Policy, Washington, DC, June 25, 2002: "Factors Associated with Long Run Employment after Liver Transplant" poster presentation, Vanness DJ, Kim WR and Malinchoc M.

Annual Research Meeting of the Academy for Health Services Research and Health Policy, Washington, DC, June 25, 2002: "Long Run Employment and Health Insurance Status after Liver Transplant" poster presentation, Kim WR, Vanness DJ and Malinchoc M.

Tenth European Workshop on Econometrics and Health Economics, London, United Kingdom, September 6, 2001: “Empirical Modeling, Simulation and Uncertainty Analysis Using Markov Chain Monte Carlo: Ganciclovir Prophylaxis in Liver Transplantation” Vanness DJ and Kim WR.

Digestive Disease Week, Atlanta, Georgia, May 21, 2001: “Discrete Event Simulation of the Cost-Effectiveness of Colorectal Cancer Screening by a DNA-based Stool Test Relative to Current Screening Practice” poster presentation, Vanness DJ and Ahlquist DA.

International Society for Pharmacoeconomics and Outcomes Research, Third Annual European Conference, Antwerp, Belgium, November 5, 2000: “Cost-effectiveness of Ganciclovir in Prevention of Cytomegalovirus Disease after Liver Transplantation: A Bayesian Approach” poster presentation, Vanness DJ and Kim WR.

Fourth Annual Minnesota Health Services Research Conference, Minneapolis, Minnesota, February 22, 2000: “Family Valuation of Employer Sponsored Health Insurance,” Vanness DJ.

16th Annual Meeting of the Association for Health Services Research, Research to Action: The Role of Health Services Research, Chicago, IL, June 27-29, 1999: “Patterns of TCA and SSRI Prescription by Plan, Provider and State: Do Medicaid Managed Care Members Receive Different Treatment?” poster presentation, Seplaki CL and Vanness DJ.

2nd International Health Economics Association Conference, Rotterdam, Netherlands, June 7-11, 1999: “Trends in Employer Sponsored Insurance: How Have Low-Wage and High-Cost Workers Fared?” Vanness DJ and Wolfe BL.

National Institute of Mental Health, Ninth Biennial Research Conference on the Economics of Mental Health, Bethesda, Maryland, September 24-25, 1998: “Patterns of TCA and SSRI Prescription by Plan, Provider and State” Seplaki CL and Vanness DJ.

15th Annual Meeting of the Association for Health Services Research, Health Services Research: Implications for Policy, Delivery & Practice, Washington, D.C., June 21-23, 1998: “The Nondiscrimination Law and Health Insurance: For Whom Did it Increase Coverage?” Vanness DJ and Wolfe BL.

Allied Social Sciences Association Annual Meeting, American Economics Association session, Chicago, IL, January 3-5, 1998: “The Nondiscrimination Law and Health Insurance: For Whom Did it Increase Coverage?” Vanness DJ and Wolfe BL.

National Institute of Mental Health Conference on Improving the Condition of People with Mental Illness: The Role of Services Research, Washington, D.C., September 4-5, 1997: “The Nondiscrimination Law and Health Insurance: Did It Increase Coverage Among Families With Chronic Illness?” Vanness DJ and Wolfe BL.

Invited Presentations

Health Economics in Rheumatology: An International Conference, Rochester, Minnesota, April 8, 2003: “Knowing What You Don’t Know: Bayesian Approaches to Uncertainty in Economic Evaluations.” Vanness DJ.

Colorectal Cancer Summit, Minnesota Colorectal Cancer Consortium, Minneapolis, Minnesota, March 13, 2003: “What Will It Cost to Screen Those We Are Trying to Reach?” Vanness DJ.

Conference on Health Services Research, Arizona State University, Tempe, Arizona, April 26, 2002: “The Rochester Epidemiology Project and Olmsted County Healthcare Expenditure and Utilization Database: Tools for Health Services Research” Vanness DJ.

Neuroscience Conference, Mayo Clinic, Scottsdale, Arizona, April 10, 2002: “The Not so NICE Story About Interferon Beta in the UK: or ‘What is Cost-Effectiveness Analysis and Why Should We Care?’” Vanness DJ.

Colorectal Cancer Summit, Minnesota Colorectal Cancer Consortium, Minneapolis, Minnesota, March 6, 2002: “Colorectal Cancer: Cost Considerations” Vanness DJ.

Sixth Annual Minnesota Health Services Research Conference, Minneapolis, Minnesota, February 26, 2002: Chair of “Emergency Department Use” session. Vanness DJ.

Third International Conference of the International Health Economics Association, York, United Kingdom, July 24, 2001: discussant of Monheit AC and Vistnes JP “The Demand for Dependent Health Insurance: How Important is the Marginal Cost of Family Coverage?” Vanness DJ.

Allied Social Science Associations Annual Meeting, American Economics Association session, New Orleans, Louisiana, January 5, 2001: discussant of Berndt E et al, “Economic Issues in Comparing Antidepressant Drug Therapy, Psychotherapy, and their Combination for the Treatment of Chronic Depression.” Vanness DJ.

Mayo Foundation Managed Care Leadership Conference, Rochester, Minnesota, August 15, 2000: “The Perils of Outcomes Research,” Vanness DJ.

Scientific Advisory Board, Exact Laboratories, Inc., Chicago, Illinois, June 15, 2000: “Monte Carlo Simulation of Exact-Based Colon Cancer Surveillance,” Vanness DJ.

Department of Internal Medicine Outcomes Research Group, Mayo Clinic, Rochester, Minnesota, March 21, 2000: “Confidence Intervals for Cost-Effectiveness Analysis: A Comparison of Bootstrapping versus Bayesian Simulation Methods,” Kim WR and Vanness DJ.

Managed Care Education Resources Group Retreat, Rochester, Minnesota, February 18, 2000: “Prepaid Medical Assistance Program: The Clinic and Hospital Experience,” Williamson MJ and Vanness DJ.

Allied Social Science Associations Annual Meeting, American Real Estate and Urban Economics Association session, Boston, Massachusetts, January 9, 2000: discussant of “Medical Research and the Location of High Tech Medical Firms.” Vanness DJ.

BIBLIOGRAPHY

Peer-Reviewed Articles

Vanness DJ and Kim WR. "Empirical Modeling, Simulation and Uncertainty Analysis Using Markov Chain Monte Carlo: Ganciclovir Prophylaxis in Liver Transplantation," *Health Economics*, 2002: 11(6), 551-566.

Vanness DJ and Wolfe BL. "Government Mandates and Employer-Sponsored Health Insurance: Who is Still Not Covered?" *International Journal of Health Care Finance and Economics*, 2002: 2(2), 99-135.

Paya CV, Wilson JA, Espy MJ, Sia IG, DeBernardi MJ, Smith TF, Patel R, Jenkins G, Harmsen WS, Vanness DJ, and Wiesner RH. "Preemptive Use of Oral Ganciclovir to Prevent Cytomegalovirus Infection in Liver Transplantation Patients: A Randomized, Placebo-Controlled Trial," *Journal of Infectious Diseases*, 2002:185, 854-860.

Fatourechi V, Lankarani M, Schryver PG, Vanness DJ, Long KH, Klee GG. "Factors Influencing Clinical Decisions to Initiate Thyroxine Therapy for Patients With Mildly Increased Serum Thyrotropin (5.1-10.0 mIU/L)," *Mayo Clinic Proceedings*, 2003: 78(5):554-560.

Kamath CC, Kremers HM, Vanness DJ, O'Fallon WM, Cabanela RL and Gabriel SE. "The Cost-Effectiveness of Acetaminophen, NSAIDs, and Selective COX-2 Inhibitors in the Treatment of Symptomatic Knee Osteoarthritis," *Value in Health*, 2003: 6(2), 144-157.

Gluecker TM, Johnson CD, Wilson LA, MacCarty RL, Welch TJ, Vanness DJ and Ahlquist DA. "Extracolonic Findings at CT Colonography: Evaluation of Prevalence and Cost in a Screening Population," *Gastroenterology*, 2003: 124(4), 911-916.

Vanness DJ. "A Structural Econometric Model of Family Valuation and Choice of Employer-Sponsored Health Insurance" *Health Economics*, 2003: 12, 771-790.

Huddleston JM, Long KH, Vanness DJ, Larson D, Trousdale R, Plevak M, Cabanela M, Ilstrup D, Naessens JM and Wachter R. "Impact of a Hospitalist-Orthopedic-Team on Outcomes Following Elective Hip and Knee Arthroplasty: Prospective, Randomized, Controlled Trial," submitted to *Annals of Internal Medicine*

Invited Articles

Vanness DJ. "Knowing What You Don't Know: Bayesian Approaches to Uncertainty in Economic Evaluations" *Journal of Rheumatology*, 2003 [in press].

Vanness DJ "Playing (and Replaying) the Waiting Game: Commentary on 'A Simulation Modeling Approach to Evaluating Alternative Policies for the Management of the Waiting List for Liver Transplant' by J. Ratcliffe and colleagues," *Liver Transplantation*, 2002: 8(8), 730-731.

Published Books and Book Chapters

Wolfe BL and Vanness DJ. "Inequality in Health Care Access and Utilization and the Potential Role for the Public Sector." In: Stein Ringen and Philip R. de Jong, (eds) *Fighting Poverty: Caring for Children, Parents, the Elderly and Health*. Aldershot, England: Ashgate Publishing Ltd., 1999.

Vanness DJ. Choice, Information and Quality of Employer-Sponsored Health Insurance. Doctoral Dissertation, University of Wisconsin-Madison Department of Economics, 2000.

Abstracts and Research Reports

Kim WR and Vanness DJ. Employment and Health Insurance of Long-Term Liver Transplant Recipients (Abstract 282). *Liver Transplantation*, 2002: 8(6), C-71.

Kamath CC, Maradit-Kremers H, Vanness DJ, O'Fallon WM and Gabriel SE. "Cost-Effectiveness of Drug Therapies in Knee Osteoarthritis (OA)," *Medical Decision Making*, 2001:21(6), 541.

Kamath CC, Maradit-Kremers H, Vanness DJ, O'Fallon WM and Gabriel SE. "Cost-Effectiveness of Alternative Drug Therapies in Knee Osteoarthritis," *Arthritis and Rheumatism*, 2001:44(9), S158.

Vanness DJ and Ahlquist DA. Discrete Event Simulation of the Cost-Effectiveness of Colorectal Cancer Screening by a DNA-Based Stool Test Relative to Current Screening Practice. *Gastroenterology*, 2001: 120(5 Suppl 1), A.406.

Vanness DJ and Kim WR. "Cost-effectiveness of Ganciclovir in Prevention of Cytomegalovirus After Liver Transplantation: A Bayesian Approach," *Value in Health*, 2000:3(5), 326.

Fatourechi V, Schryver PG, Vanness DJ and Klee GG. "Increased Prevalence of Mildly Elevated Serum TSH Levels in Patients with Coronary Heart Disease Compared to Controls," *Endocrine Journal*, 2000:47(Suppl), 193.

Lankarani M, Klee GG, Schryver PG, Vanness DJ, Long KH and Fatourechi, V. "Progression of Hypothyroidism in Patients with Mildly Elevated TSH (5-10mIU/L)." *Endocrine Journal*, 2000:47(Suppl), 193.

Seplaki CL and Vanness DJ. "Patterns of TCA and SSRI Prescriptions: A Description of Antidepressant Utilization Between Publicly and Privately Insured Managed Care Members," *Journal of Mental Health Policy and Economics*, 2000: 3 Supplement 1, S24.

Seplaki CL and Vanness DJ. "Patterns of TCA and SSRI Prescription Across Plans, Providers, And States: Do Publicly-Insured Managed Care Members Receive Differential Treatment?" *Abstract Book/Association for Health Services Research*, 2000:16, 122.

Wolfe BL and Vanness DJ. "The Nondiscrimination Law and Health Insurance: For Whom Did it Increase Coverage?" *Abstract Book/Association for Health Services Research*, 1999:15, 88.

Vanness DJ and Wolfe BL. "Government Mandates and Employer-Sponsored Health Insurance: Who is Still Not Covered?" *The La Follette Policy Report*, 1999:10(1); 12-14, 18-19.