

**WILLIAM G. JOHNSON**

May 2013

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**Education**

University of Pennsylvania (Wharton)	B.S., Economics
Temple University	M.A., Economics
Rutgers University	Ph.D., Economics
Third Legal Institute for Economics of the Center for Law and Economics of University of Miami	

**Professional Experience*****Current Position***

2006 – Professor. Biomedical Informatics Department, Arizona State University.  
 2009- Principal, HRA Analysts, Inc.

***Past Academic Positions***

2000 –2011 Director. Center for Health Information & Research, Arizona State University. Manages multidisciplinary research team and associated faculty from academic institutions in the United States and Canada. Approximately \$7.6 million in sponsored research to date.

1991 – 2006 Professor of Economics. School of Health Management and Policy and Department of Economics, W. P. Carey School of Business of Arizona State University.

1998 – 2004 Clinical Professor of Health. Mel and Enid Zuckerman College of Public Health, University of Arizona.

1980 -1990 Professor of Economics. Maxwell School, Syracuse University.

1975 -1980 Associate Professor of Economics. Maxwell School, Syracuse University.

1974-1980 Director. The Health Studies Program of the Maxwell School. Pro-bono appointment. Responsible for the organization and management of an interdisciplinary research program. The program included a full time staff of six persons, eleven faculty members. and ten graduate students from four academic departments and three schools. The program was the basis for the MPA Health curriculum and a joint Degree in Social Work and Public Administration. A national conference of scholars and public policy managers was held annually. Approximately \$3 million in external support was obtained during the years in which I directed the program.

1973-1975 Assistant Professor of Economics. Syracuse University.

1971-1979 Adjunct Assistant Professor of Health Economics. Rutgers University Medical School.

1971-1973 Assistant Professor of Economics. Rutgers University.

1970-1973 Associate Director. Disability and Health Economics Research Section of Rutgers University.

### **Corporate/Military Positions**

Economic Analyst. SKF Industries, Inc.  
 Assistant Comptroller (Graphic Arts Plant). E.I. DuPont De Nemours and Company, Inc.  
 Ens/Lt(jg). USNR, U.S.S. Marias (A0-57), U.S. Sixth Fleet.

### **Honors/Appointments**

Affiliated Faculty, Prevention Research Center, Department of Psychology, Arizona State University, Associate Investigator, Behavioral and Social Sciences Research Program, Arizona Cancer Center, University of Arizona Health Sciences Center, Tucson, Arizona.

Member. National Academy of Social Insurance.

Member. North American Spine Society.

Chairman, Scientific Review Committee, Centre for Research Expertise for Improved Disability Outcomes, Toronto, Ontario, Canada 2008-2010

Associate Scientist. Institute on Work and Health in Toronto, Ontario, Canada.

Fellow. The Collegium Ramazzini in Bologna, Italy.

Fellow. Employee Benefit Research Institute in Washington, D.C.

Award for Best Feature Article (2013), American Risk and Insurance Association.

### **Arizona State University Honors**

President's Medal for Social Embeddedness. (2008; 2005).

Best Teacher. MBA (Health). W.P. Carey School of Business. (1999).

### **Publications**

#### **Books**

Johnson W, Baldwin M, Marcus S. 1999. *The impact of workers' compensation networks on medical costs and disability benefits*. Cambridge (MA): Workers' Compensation Research Institute. 183 p.

Weiler PC, Hiatt HH, Newhouse JP, Johnson WG, Brennan TA, Leape LL. 1993. *A measure of malpractice: medical injury, malpractice litigation, and patient compensation*. Cambridge (MA): Harvard University Press. 178 p.

Berkowitz M, Johnson WG, Murphy E. 1976. *Public policy toward disability*. New York: Praeger Publishers, Inc. 170 p.

#### **Refereed Monographs**

Johnson WG, Johnson TJ 2005. *The impact of demographic and labor force participation changes on the Social Security Disability Insurance and Medicare programs, a report to the Social Security Administration*. Washington DC: Department of Health and Human Services.

Johnson W. 1999. *An integrated approach to employee health*. Dallas: Institute for Health and Productivity Management.

#### **Refereed Articles**

Butler MJ, Harootunian G, Johnson WG. (June 2013). Are low income patients receiving the benefits of electronic health records? A statewide survey. *Health Informatics Journal*. 19(2):91-100  
 doi:10.1177/1460458212460846 PMID: 23715209

**Refereed Articles, continued**

- West S, Johnson WG, Visscher W, et al. (2013). The challenges of linking health insurer claims with electronic medical records. *Health Informatics Journal*
- Butler RJ, Wilson BL, Johnson WG. (February 2012). A modified measure of health care disparities applied to birth weight disparities and subsequent mortality. *Health Economics*. 21(2):113-126.
- Butler RJ, Johnson WG. (2012) Regressions to monitor health care quality: A user's guide and a new index. *International Journal of Statistics in Medical Research* (1): 99-112.
- Johnson WG, Butler RJ, Baldwin ML, Côté P. (2011). Disability risk management and post-injury employment of workers with back pain. *Risk Management and Insurance Review*.  
Award for Best Feature Article (2013), American Risk and Insurance Association.
- Ivor B, Dalton H, Qiu Y, Cayco L, Johnson WG, Balducci J. (April 2011). Endometrial cancer surgery in Arizona: A statewide analysis of access to care, *Gynecologic Oncology*. 121(1):83-6. Epub 2011 Jan 5. PMID:21208650
- Butler RJ, Davis, TK Johnson, WG (February 2011) Effects of non-adherence with prescription drugs among older adults, *The American Journal of Managed Care*. 17(2):153-160.
- Butler RJ, Johnson WG. (Spring 2011). Loss reduction through worker satisfaction: the case of workers' compensation. *Risk Management and Insurance Review*. 14(1):1-26.
- Butler RJ, Johnson WG. March 2010. Adjusting rehabilitation costs and benefits for health capital: the case of low back occupational injuries. *Journal of Occupational Rehabilitation*. 20(1):90-103. PMID: 19806437  
Epub,6 Oct 2009 DOI - 10.1007/s10926-009-9206-z.  
<http://www.springerlink.com/content/v3561850775x4663> PMID: 19806437
- Moturu ST, Johnson WG, Liu H. (2010). Predictive risk modelling for forecasting high-cost patients: a real-world application using Medicaid data. *Int. J. Biomedical Engineering and Technology*. 3(1/2):114-132.
- Wilson BL, Johnson WG. July/August 2009. Using innovation to assess nursing workforce in Arizona: a collaborative approach. *Nursing Economics*. 27(4):233-238.
- Frank J, Johnson WG, Baldwin ML, Côté P, Butler RJ. 2008. Patterns of sick-leave and health outcomes in injured workers with back pain. *European Spine Journal*. 17(4):484-493. PMID:2295281
- Baldwin ML, Butler RJ, Johnson WG, Côté P. 2007. Self reported severity measures as predictors of return-to-work outcomes in occupational back pain. *Journal of Occupational Rehabilitation*. 17:683-700. PMID: 17957451
- Butler RJ, Johnson WG, 2007. Satisfaction with care for low back pain care. *The Spine Journal*. 8(3):510-21. PMID: 17602887  
Abstracted in: *Currents: Pain Management News and Research*, American Academy of Pain Management. (September 2007).
- Butler RJ, Johnson WG, Gray B. 2007. Timing makes a difference: early nurse intervention and low back pain. *Professional Case Management*. 12(6):316-27. PMID: 18030151
- Rimsza ME, Butler RJ, Johnson WG. 2007. The impact of Medicaid disenrollment on health care use and cost. *Pediatrics*. 119:e1026-e1032.
- Butler RJ, Johnson WG, Côté P. 2007. It pays to be nice: employer-worker relationships and the management of back pain. *Journal of Occupational and Environmental Medicine*. 49(2):214-225. PMID: 17293761
- Johnson WG, Baldwin ML, Johnson TJ. 2006. Does network care prolong work absences? *Industrial Relations*. 45(3):348-376.
- Baldwin ML, Butler RJ, Johnson WG. 2006. The effects of occupational injuries after returns to work: work absences and losses of on-the-job productivity. *Journal of Risk and Insurance*. 73(2):309-334.

**Refereed Articles, continued**

- Johnson TJ, Rimsza ME, Johnson WG. 2006. The effects of cost-shifting in the State Children's Health Insurance Program. *American Journal of Public Health*. 96(4):709-715.
- Johnson WG. 2005. Cost-based evaluations of the treatment of back pain: a primer for health care professionals. *The Spine Journal*. 5(4):361-369.
- Côté P, Baldwin ML, Johnson WG. 2005. Early patterns of care for occupational back pain. *Spine*. 30(5):581-587.
- Johnson WG, & Rimsza ME. (March 2004). The effects of access to pediatric care and insurance coverage on emergency department utilization. *Pediatrics*. 113(3):483-487.
- Baldwin ML, Johnson WG, Marcus SC. 2002. Effects of provider networks on health care costs for workers with short-term injuries. *Medical Care*. 40(8):686-695. PMID: 12187182
- Butler RJ, Baldwin ML, Johnson WG. 2001. The effects of worker heterogeneity on duration dependence: low-back claims in workers compensation. *Review of Economics and Statistics*. 83(4):708-716.
- Baldwin ML, Côté P, Frank JW, Johnson WG. 2001. Cost-effectiveness studies of medical and chiropractic care for occupational low back pain. A critical review of the literature. *The Spine Journal*. 1(2):138-147.
- Baldwin ML, Butler RJ, Johnson WG. 2001. A hierarchical theory of occupational segregation and wage discrimination. *Economic Inquiry*. 39(1):94-110.
- Pransky G, Benjamin K, Hill-Fotouhi C, Himmelstein J, Fletcher K, Katz JN, et al. 2000. Outcomes in work-related upper extremity and low back injuries: results of a retrospective study. *American Journal of Industrial Medicine*. 37(4):400-9.
- Baldwin ML, Johnson WG. 2000. Labor market discrimination against men with disabilities in the year of the ADA. *Southern Economic Journal*. 66(3):548-566.
- Johnson WG, Baldwin ML, Butler RJ. 1999. The costs and outcomes of chiropractic and physician care for workers' compensation back claims. *The Journal of Risk and Insurance*. 66(2):185-205.
- Johnson WG, Baldwin ML, Butler RJ. 1998. Back pain and work disability: the need for a new paradigm. *Industrial Relations*. 37(1):9-34.
- Johnson WG. 1997. The costs of epilepsy and cost-based evaluations of anticonvulsants. *PharmacoEconomics*. 12(4):446-459.  
Abstracted in: Fukuyama Y. (ed.): *Epilepsy Bibliography*, Selwa Shoten Publishers Tokyo. 1998.  
Reprinted in: *Disease Management Review*, ADIS International. 1998.
- Baldwin ML, Johnson WG, Butler RJ. 1996. The error of using returns-to-work to measure the outcomes of health care. *American Journal of Industrial Medicine*. 29(6):632-641.
- Johnson WG, Baldwin ML, Burton JF. 1996. Why is the treatment of work-related injuries so costly? New evidence from California. *Inquiry*. 33(1):53-65.
- Baldwin ML, Johnson WG. 1996. The employment effects of wage discrimination against Black men. *Industrial & Labor Relations Review*. 49(2):302-316.
- Baldwin ML, Johnson WG. 1995. Labor market discrimination against women with disabilities. *Industrial Relations*. 34(4):555-577.
- Butler RJ, Johnson WG, Baldwin ML. 1995. Measuring success in managing work disability: why return to work doesn't work. *Industrial & Labor Relations Review*. 48(3):452-469.
- Baldwin M, Johnson WG. 1994. Labor market discrimination against men with disabilities. *Journal of Human Resources*. XXIX(1):1-19.
- Johnson WG, Burton JF, Thornquist L, Zaidman B. 1993 Fourth Quarter. Why does workers' compensation pay more for health care? *Benefits Quarterly*. p 22-31.

**Refereed Articles, continued**

- Burstin HR, Johnson WG, Lipsitz SR, Brennan TA. 1993. Do the poor sue more? A case-control study of malpractice claims and socioeconomic status. *Journal of the American Medical Association*. 270(14):1697-1701.
- Reprinted: Berry JD, McDonnell K (Eds.) *Health Care and the Law: A Multi-Disciplinary Reader*, Carolina Academic Press. 1998.
- Leape LL, Lawthers AG, Brennan TA, Johnson WG 1993. The preventability of medical injury. *Quality Review Bulletin*.
- Baldwin ML, Johnson WG. 1992. A test of the measures of nondiscriminatory wages used to study wage discrimination. *Economics Letters*. 39:223-227.
- Baldwin ML, Johnson WG. 1992. Estimating the employment effects of wage discrimination. *Review of Economics and Statistics*.
- Johnson WG, Brennan TA, Newhouse JP, Leape LL, Lawthers AG, Hiatt HH, et al. 1992. The economic consequences of medical injuries. implications for a no-fault insurance plan. *Journal of the American Medical Association*. 267(18):2487-2492.
- Johnson WG, Ondrich J. 1990. The duration of post injury absences from work. *Review of Economics and Statistics*. 72(4):578-586.
- Johnson WG, Burton J. 1990. Health care costs and workers compensation. *Journal of Human Resources*.
- Hiatt HH, Barnes BA, Brennan TA, Laird NM, Lawthers AG, Leape LL, et al. 1989. A study of medical injury and medical malpractice. *New England Journal of Medicine*.
- Lambrinos J, Johnson WG. 1988. Disability related categories: a classification system for short term sickness benefits. *Benefits Quarterly*.
- Johnson WG, Lambrinos J. 1985. Wage discrimination against handicapped men and women. *Journal of Human Resources*. XX(2):264-277.
- Johnson WG, Heler E. 1984. Compensation for death from asbestos. *Industrial & Labor Relations Review*. 37(4):529-540.
- Lambrinos J, Johnson WG. 1984. Robots to reduce the high cost of illness and injury. *Harvard Business Review*.
- Johnson WG, Heler E. 1983. The costs of asbestos-associated disease and death. *Milbank Memorial Fund Quarterly-Health and Society*.
- Johnson WG, Lambrinos J. 1983. Employment discrimination. *Society*. 20(3):47-50.
- Ashford RH, Johnson WG. 1982. Negligence vs. no-fault liability: An analysis of the workers' compensation example. *Seton Hall Review*.
- Mudrick NR, Johnson WG 1981. Special needs consumption of the low income disabled. *Journal of Rehabilitation*.
- Strand SH, Johnson WG. 1980. Differentiating occupational illness and injury - the private costs and economic incentives. *Social Science & Medicine Part C-Medical Economics*.
- Johnson WG, Curington WP, Cullinan P. 1979. Income security for the disabled. *Industrial Relations*.
- Johnson WG, Murphy EH. 1975. The response of low income households to income losses from disability. *Industrial & Labor Relations Review*. 75:85-96.
- Berkowitz M, Johnson WG. 1974. Health and labor force participation. *Journal of Human Resources*. 9(1):117-128.
- Berkowitz M, Johnson WG. 1970. Towards an economics of disability: the magnitude and structure of transfer and medical costs. *Journal of Human Resources*. 5(3):271-297.

### **Invited Articles**

- Linton SJ, Gross D, Schultz IZ, Main C, Côté P, Pransky G, et al. 2005. Prognosis and the identification of workers risking disability: research issues and directions for future research. *Journal of Occupational Rehabilitation*. 15(4):459-474.
- Johnson WG. 2004 September/October. Back pain: acute injury or chronic disease? *Workers' Compensation Policy Review*. p 9-18.
- Baldwin ML, Johnson WG. 2002. Controlling workers' compensation health care costs: is managed care the solution? *Managed Care Interface*. PMID: 11875965
- Johnson WG. 1997. The future of disability policy: benefit payments or civil rights? *Annals of the American Academy of Political and Social Science*. 549:160-172.
- Johnson WG, Baldwin ML. 1993. The Americans with Disabilities Act: will it make a difference? *Policy Studies Journal*. 21(4):775-788.
- Excerpt published in *Mainstream*. 1993.
- Johnson WG, Baldwin ML. 1993 May/June. The causes of labor market discrimination against persons with disabilities. *The Mainstream*. p 8-11.
- Johnson WG, Burton JF. 1989. Health care cost containment in workers' compensation. *IRRA 42 Annual Proceedings, Issues in Income Replacement Programs*. p 112-120.
- Johnson WG, Lambrinos J. 1987. The effect of prejudice on the wages of disabled workers. *Policy Studies Journal*. 15(3):571-590.
- Johnson WG. 1981. Compensation for occupational illness. *Annals of the New York Academy of Sciences*.
- Johnson WG. 1972. Age, health and employment. *The Journal of Industrial Gerontology*.

### **Chapters in Books**

- Butler RJ, Johnson WG, Gubler T. 2009. Economic Burden. In Feuerstein M, editor. *Work and Cancer Survivors*. Springer Science +Business Media, LLC. p 25-71.
- Moturu ST, Liu H, Johnson WG. 2009. Understanding the effects of sampling on healthcare risk modeling for the prediction of future high-cost patients. In Fred A, Filipe J, Gamboa H, editors. *Biomedical Engineering Systems and Technologies, Series: Communications in Computer and Information Science*. Berlin (Heidelberg):Springer-Verlag. p 493-506.
- Baldwin ML, Johnson WG. 2006. A critical review of studies of discrimination against workers with disabilities. In Rodgers III WM, editor. *Handbook on the economics of discrimination*. Northampton (MA):Edward Elgar Publishing. p 119-160.
- “Outstanding Academic Book 2006,”** CHOICE (Review Journal of the American Library Association)
- Baldwin M, Johnson WG. 1998. Dispelling the myths of work disability. In Thomason T, Burton JF, Hyatt D, editors. *New approaches to disability in the workplace*. Ithaca (NY):Cornell University Press. p 39-61. Abstracted in: *Labor Law Journal*. 1998: 1177-1178.
- Johnson WG, Nuwer MR. 1997. Costs of treating patients. In Pedley TA, Engel J, editors. *Epilepsy: a comprehensive textbook*. Philadelphia: The Raven Press. p 1-8.
- Abstracted in Fukuyama Y, editor. *Epilepsy bibliography*. Tokyo: Seiwa Shoten Publisher. 1998.
- Johnson WG, Butler RJ, Baldwin ML. 1995. First spells of work absences among Ontario workers. In Thomason T, Chaykowski RP, editors. *Research in canadian workers' compensation*. Kingston (Ontario): IRC Press. p 72-84.

**Chapters in Books, continued**

- Crawford S, Johnson WG, Laird NM. 1994. Bayes analysis of model-based methods for non-ignorable non-response in the Harvard Medical Practice Study. In Gastonis, et al, editors. *Case studies in Bayesian Statistics*: Springer-Verlag.
- Baldwin ML, Johnson WG. 1994. The sources of employment discrimination: prejudice or poor information? In Saunders D, editors. *New approaches to employee management, Vol 2*. Greenwich (CT): JAI Pr. p 163-179.
- Johnson WG. 1988. The economics of regulatory failure - a comparison of regulation and products-liability laws. In Maltoni, Selikoff, editors. *Living in a chemical world: annals of the New York Academy of Sciences* 534:907-916.
- Lambrinos J, Johnson WG. 1988. Disability related categories: an alternative to wage loss benefits for injured workers. In Borba, Appel, editors. *Workers compensation insurance pricing: current programs and proposed reforms*. Boston: Kluwer Academic Publishers.
- Johnson WG. 1987. Determinants of access to the disability security program in the Netherlands. In *Disability benefits: factors determining applications and awards. Contemporary studies in economics and finance*. JAI Press.
- Johnson WG. 1986. The Rehabilitation Act and discrimination against handicapped workers: does the cure fit the disease? In Berkowitz M, Hill MA, editors. *Disability and the labor market*. Ithaca (NY): Cornell University, ILR Press. p 242-261.
- "Book of the Year,"** *President's Committee on Employment of the Handicapped*.
- Johnson WG. 1983. The disincentive effects of workers' compensation insurance. In Worrall JD, editor. *Safety and the workforce: incentives and disincentives in workers' compensation insurance*. Ithaca (NY): Cornell University, ILR Press.
- Johnson WG, Burfield WB. 1982. Disability insurance under proposed reforms. In Burkhauser, Holden, editors. *A challenge to social security: the changing roles of women and men in American society*. Academic Press.
- Johnson WG, Heler E. 1982. The economic consequences of asbestos associated disease. In Selikoff, editor. *Disability compensation for asbestos associated disease in the United States*: Mt. Sinai School of Medicine.
- Johnson WG. 1982. Contributing member of NAS panel. In Sherman, Robinson, editors. *Ability testing of handicapped people*. Washington (DC).
- Johnson WG, Cullinan PR, Curington WP. 1979. The adequacy of workers' compensation payments. In *Research reports to the interdepartmental task force on workers' compensation* (Vol. VI), US Government Printing Office.
- Makarushka JL, Johnson WG. 1979. The rehabilitation of injured workers. In *Research reports to the interdepartmental task force on workers' compensation* (Vol. V). US GPO.
- Johnson WG. 1979. Disability, income support and social insurance. In Berkowitz E, editor. *Disability policies and government programs*. Praeger.
- Johnson WG. 1977. Social security's disability insurance program: problems and possible solutions. In International Foundation of Employee Benefit Plans, editor. *Our social security system: how can we make it sound, solvent and successful?*

### **Edited Publications/Popular Articles**

- Editor.** "The ADA: social contract or special privilege?" *Annals of the American Academy of Political and Social Science*. 1997.
- Editor.** "Disability policy symposium" of the *Policy Studies Journal*. 1987.
- Health reform and epilepsy. 1994 August-September. *EpilepsyUSA*.
- The costs of medical injury (guest editorial). 1992. *PharmacoEconomics*. 2(5):352-354.
- Work disability and discrimination. 1988. *Worklife I*.
- Discrimination against handicapped Americans (guest editorial). 1986 March 2. *Los Angeles Times*.

### **Book Reviews/Comments**

- Non-urgent use of the emergency department by English and Spanish-speaking patients: A randomized controlled intervention to encourage use of a primary care provider. (2004). *Pediatrics*.
- Economics of health reconsidered. (1999). *Inquiry*.
- Health policy reform. (1995). *Inquiry*.
- Medicare's new hospital payment system. (1991). *Industrial & Labor Relations Review*.
- Measuring the efficiency of public programs. (1990). *Disability Studies Quarterly*.
- Asbestos: Its human cost. (1988). *Industrial & Labor Relations Review*.
- Economics and equity in the employment of people with disabilities. (1986). *Disability Studies Quarterly*.
- Disability insurance and public policy. (1984). *Industrial & Labor Relations Review*.
- Deterrence and compensation: Legal liability in occupational safety and health. (1983). In *International Digest of Health Legislation*: World Health Organization.
- Comments on the survey of low income aged and disabled. (1979). In *Policy analysis with social security research files*: U.S. GPO.
- Comment on the effect of disability on labor supply. (1977, April). *Industrial & Labor Relations Review*.

### **Selected Research Reports/Proceedings**

- Johnson WG, Harootunian G, December 2012 *What Happened to the Shortage of Registered Nurses: The Arizona Experience 2008-2012*. CHIR (Prepared for Arizona Hospital and Healthcare Association.)
- Wilson C, Peterson A. March 2010. *Managing personal health information: an action agenda*. (Prepared by Insight Policy Research under Contract No. HHS290200710072T.) AHRQ Publication No. 10-0048-EF. Rockville, MD: Agency for Healthcare Research and Quality. (participant in the AHRQ "Building Bridges: Consumer Needs and the Design of Health Information Technology" Workshop)
- Johnson WG, Edge M, Qiu Y, Harootunian G, Sama TL. May 2010. *The elimination of proposition 204 coverage and KidsCare coverage: persons at risk*. (Prepared for St. Luke's Health Initiatives under Contract). Phoenix, AZ: Center for Health Information & Research, Biomedicine @ Arizona State University.
- Johnson WG, Qiu Y, Harootunian G, Edge M. February 2010. *The use of electronic medical records and physicians' attitudes toward a health information exchange*. (Prepared for the Arizona Health Care Cost Containment System (AHCCCS) under Medicaid Transformation Grant 1U0C30211A.) Phoenix, AZ: Center for Health Information & Research, Biomedicine @ Arizona State University.



**Selected Research Reports/Proceedings, continued**

- Johnson WG, Butler RJ, Edge M, Qiu Y, Harootunian G, Jackson TL. January 2010. *Evaluation of El Rio Community Health Center's pharmacy-based diabetes disease management program*. (Prepared under contract with Heinz Family Philanthropies.) Phoenix, AZ: Center for Health Information & Research, Biomedicine @ Arizona State University.
- Qiu Y, Johnson WG. August 2009. *Arizona primary care workforce report*. (Prepared by the Center for Health Information & Research, Biomedicine @ Arizona State University under Contract No 09104502.) Phoenix, AZ: St. Luke's Health Initiatives.
- Johnson WG, Wilson BL, Edge M, Qiu Y, Oliver EL, Russell KM. April 2009. *The Arizona health care workforce: nurses, pharmacists, & physician assistants*. (Prepared under contract with the Arizona Hospital and Healthcare Association.) Phoenix, AZ: Center for Health Information & Research, Arizona State University.
- Johnson WG, Gray H, Bannister W. 2007. *Health insurance in Arizona: the residents of Maricopa County 2004. A report to the community from Arizona HealthQuery, a community-university partnership*. Center for Health Information & Research, Arizona State University.
- Moturu ST, Johnson WG, Liu H. 2007. *Predicting future high-cost patients: A real-world risk modeling application*. Proceedings IEEE International Conference on Bioinformatics and Biomedicine. IEEE Computer Society. Washington. p 202-208.
- Johnson WG, Speicher MR. 2007. *Health insurance in Arizona part I: the children of Yuma county 1999-2004. A report to the community from Arizona HealthQuery, a community-university partnership*. Center for Health Information & Research, Arizona State University.
- Rimsza M, Johnson WG, Speicher M, Grossman M. 2006. *The Arizona physician workforce study: part II 1994-2005*. Center for Health Information & Research, Arizona State University.
- Johnson WG, Rimsza M, Garcy A, Grossman M. 2005. *The Arizona physician workforce study: physician supply and demand in Arizona*.
- National Research Council. 2005. *Hearing loss: determining eligibility for social security benefits*. Committee on Disability Determination for Individuals with Hearing Impairments. Dobie RA, Van Hemel SB, editors. Board on Behavioral, Cognitive, and Sensory Sciences, Division of Behavioral and Social Sciences and Education. Washington: The National Academies Press. 320 p.
- Rimsza M, Johnson WG, Johnson TJ, White R. 2004. *Kids and asthma: a report to the Yuma community from the Yuma County Community Health Data System, a community-university partnership*. Tempe (AZ): Arizona State University.
- Johnson WG & Johnson T, (2003) *Cost Effectiveness Analysis Workbook*, CHIR, A Guide to Cost Effectiveness Analysis, prepared for the Arizona Dept. of Health Services. Tempe (AZ): Arizona State University.
- Johnson WG, Bartels A, Nolan K, Johnson TJ. 2003. *Cost-based evaluation models: report for the Arizona Department of Health Services Tobacco and Education Prevention Program*.
- Johnson WG, Johnson SE, Marcus SC, Bartels A, Lawthers AG. 2001. *The Yuma project on uninsured children: report for the Flinn Foundation*. p 40.
- Butler RJ, Johnson WG. 1996. *Group health and workers' compensation medical care: potential problems with comparison*. Minnesota Center for Insurance Research.
- Johnson WG, Ptak BA, Casper K, Madsen B. 1996. *The survey of physicians in residence in Arizona academic year 1993-1994: a report to the Arizona Council for Graduate Medical Education*. 78 p.
- Johnson WG, Baldwin ML, Marcus SC, Burton JF. 1994. *The excess costs of health care for work related injuries. The Zenith Project* (Report No. 1). 58 p.
- Johnson WG, Meenan RT, Klett D, Ott J, Liddon M, Schneller ES. 1994. *The 1992 survey of physicians: a report to the Arizona Council for Graduate Medical Education*.
- Schneller ES, Preuss N, Johnson WG, Klett D. 1993. *The survey of medical residency programs: a report to the Arizona Council for Graduate Medical Education*.

### **Selected Research Reports/Proceedings, continued**

- Johnson WG, Baldwin ML. 1993 May. *Returns to work by Ontario workers with permanent partial disabilities: a report to the Workers' Compensation Board of Ontario, Canada.*
- Johnson WG, Meenan RT, Preuss N, Schneller ES. 1993. *The survey of medical residents: a report to the Arizona Council for Graduate Medical Education.*
- Johnson WG. 1991. *Medical care cost containment: FECA's experiment with fee schedules.* Proceedings, Conference on 75th Anniversary of FECA.
- Johnson WG. 1991. *Medical care costs in worker's compensation, the contributors and the role of the health care practitioner.* Proceedings C.A.I.R.E. Conference on Work Injury Management. San Antonio (TX).
- Johnson WG. 1991. *National trends in workers' compensation reform.* Proceedings C.A.I.R.E. Conference on Work Injury Management. San Antonio (TX).
- . *Patients, doctors and lawyers: medical injury, medical malpractice and patient compensation in New York.* (Co-author with primary responsibility for Ch. 8). 1990. Pres. & Fellows-Harvard College.
- Pozzebon, Burton JF, Gebhard, Johnson WG. (1990). Health care cost containment strategies in workers' compensation programs. *Minnesota Department of Labor and Industry.* Minnesota Legislature.
- Johnson WG, Burton JF. 1989. *Health care cost containment in workers' compensation.* IRRA Proceedings.
- Johnson WG. 1986. *Perspectives on wage loss benefits for workers' compensation pensioners in Ontario.* Ontario: Workers' Compensation Board..
- Johnson WG, Curington WP. 1986. *Wage losses and workers' compensation benefits, 1970-1980* (Report). Syracuse (NY): State of New York Temporary Commission on Workers' Compensation and Disability Benefits.

### **Survey Design and Research**

- Survey of AHCCCS Health Information Technology Workforce.* (2007-2009; 2011-2014). This collaboration, part of an ongoing Interagency Service Agreement with the Arizona Health Care Cost Containment System (AHCCCS), is to survey allopathic and osteopathic physicians regarding their attitudes toward health information exchange and electronic medical records.
- Health Care Institute Survey of Nurses & Pharmacists.* (2007- ). A partnership with the Arizona Hospital and Healthcare Association's Health Care Institute (HCI) to develop, distribute, and analyze a survey of the numbers of practicing RNs, LPNs, APNs and Pharmacists Arizona.
- AHCCCS Survey of Providers.* (2005-2006). This two phase project commissioned by the AHCCCS conducts a survey of the dentists, physicians, and their office managers who currently treat AHCCCS patients for one or more of their eight acute managed care plans in Arizona. The survey measures the administrative efficiency and overall provider satisfaction with the plans.
- Census of Physicians with Arizona Licenses.* (2003-2009). A collaboration with the University of Arizona and the Arizona Medical Education Consortium (AzMEC) to create a prospective and continuous database allowing accurate information of the numbers of clinical practicing physicians and physician assistants including their location, age, and scope or specialty of practice.
- Survey of Workers with Back Pain: The Arizona State University Healthy Back Study.* (1999-2002). A prospective study with successive interviews of 4000 workers with work related back injuries from a pool of 200,000 employees of five firms. The first survey of its kind to be conducted.
- Survey of Cardiovascular Rehabilitation Programs.* (1993). A survey of the financing organization and practices of 1,000 cardiovascular rehabilitation programs in the United States for the development of national practice guidelines.

### **Survey Design and Research, continued**

- Surveys of Graduate Medical Education in Arizona.* (1991-1998). Survey #1 is a census of approximately 12,000 licensed physicians practicing in Arizona, for each of the years 1992-1998. Survey #2 is a survey of the 900 physicians in residency in Arizona for the years 1991-1995.
- The Ontario Survey of Workers with Permanent Impairments.* (1989-1990). A census of 11,000 workers deemed permanently disabled by the Workers' Compensation Board of Ontario, Canada. I designed the survey instrument and analyzed the results. The largest survey of injured workers to ever be completed.
- The Harvard Medical Practice Study Survey.* (1987-1989). A study of approximately 3,000 persons who were discharged from New York State hospitals in 1984. The study is part of Harvard University's study of medical malpractice. I designed the survey instrument and was responsible for the management of the interview survey contract and the analysis of the survey data. This is the second and the largest interview study of medical malpractice.
- The Mt. Sinai Survey of the Consequences of Asbestos.* (1979-1980). An interview survey of the widows of asbestos workers. Approximately 1,000 widows were interviewed. I was responsible for the design of that part of the survey instrument that related to cost and compensation data and for the subsequent analysis of those data.
- Survey of Workers' Compensation Clients in the United States.* (1975). An interview survey of approximately 2,000 injured workers from the states of California, Florida, New York, Washington, and Wisconsin. The first interview study of its type to ever be conducted. I designed the survey instrument, managed the survey design, and analyzed some parts of the data.

### **Sponsored Research**

#### **Principal Investigator**

- Arizona Hospital and Healthcare Association (AZHHA). *What Happened to the Shortage of Nurses: The Arizona Experience 2008-2011.* (2012). (\$12,000)
- Arizona Health Care Cost Containment System (AHCCCS). *AHCCCS and Governor's Health Information Exchange Electronic Medical Records Study.* (2011-2014). (\$233,356).
- Catholic Healthcare West-East Valley, *Community Health Needs Assessment* (2011-2012), \$43,700
- Arizona Biomedical Research Commission. *Center for Health Information & Research Trauma Registry.* (2010-2013). (\$300,000).
- Arizona Dept. of Health Services/CDC, *Colorectal Cancer Screening in Arizona,* (2009-2013) \$126,000
- Virginia G. Piper Charitable Trust. *Piper Evaluation of Pilot Intervention.* (2010-2013). (\$10,900).
- Banner Healthcare *Patient Outcomes After a First Stroke,* (2011), \$19,000
- Catholic Healthcare West dba St. Joseph's Hospital and Medical Center. *Catholic Healthcare West-Arizona Regional Community Health Needs Assessment.* (2010). (\$44,000).
- St. Luke's Health Initiatives. *The Elimination of Proposition 204 Coverage and KidsCare Coverage: Persons at Risk.* (2010) (\$13,500).
- University of Pittsburgh. *Pathways to Desistance from SU Problems and Crime.* (2010) (\$7,000).
- Arizona Hospital and Healthcare Association. *AZHHA's Healthcare Institute Workforce Data Center: Data Collection, 2009 – 2011 Workforce Study Addendum.* (2009-2012). (\$128,500).
- Asian Pacific Community in Action. *Health Through Action - Maricopa County, Arizona.* (2008-2011). (\$28,000).
- St. Luke's Health Initiatives. *Primary Care Provision in Arizona.* (2009). (\$19,300).
- Virginia G. Piper Charitable Trust. *Evaluation of Fall Prevention Programs.* (2008-2009). (\$22,000).

**Principal Investigator, continued**

- Heinz Family Foundation. *Evaluation of El Rio Community Health Center's Pharmacy-Based Diabetes Disease Management Program*. (2009) (\$14,500).
- Arizona Hospital and Healthcare Association. *The Arizona Health Care Workforce: Pharmacists Addendum*. (2008-2009). (\$30,000).
- Arizona Hospital and Healthcare Association. *The Arizona Health Care Workforce: Nurses Addendum*. (2008-2009). (\$60,600).
- Scottsdale Healthcare. *Scottsdale Healthcare Trauma Research Publication Collaboration*. (2008-2010). (\$50,800).
- St. Luke's Health Initiatives. *Physician's Workforce Study Project*. (2008-2010). (\$50,000).
- Blue Cross Blue Shield of Arizona. *Public Health Insurance*. (2008). (\$11,600).
- Carondelet Health Network: Carondelet Community Trust. *Carondelet NAOMI Project*. (2008-2013). (\$74,000)
- St. Luke's Health Initiatives. *Phoenix Healthcare Value Measurement Initiative*. (2008-2009). (\$240,000).
- Arizona Hospital and Healthcare Association (AZHHA). *Arizona Physician Trends: Out of State Physicians*. (2008). (\$25,000)
- Arizona Health Care Cost Containment System (AHCCCS). *Health Information Technology Workforce*. (2007-2009). (\$273,000).
- Arizona Health Care Cost Containment System (AHCCCS). *Primary Care Provider Participation Project*. (2007). (\$10,000).
- Health Care Institute (HCI). *HCI Nursing Workforce Data Center*. (2007-2008). (\$74,000).
- U.S. Department of Health and Human Services/Centers for Medicare and Medicaid Services (CMS). *Better Quality Information*. (2006-2008). (\$900,000).
- Arizona State University Seed Grant. *Proof of Concept Project: Air Pollution and the Incidence of Pediatric Asthma* (with the Department of Biomedical Informatics). (2006). (\$100,000).
- The Flinn Foundation/St. Luke's Health Initiatives/BHHS Legacy Foundation. *Arizona Healthcare Workforce*. (2003-2007). (\$330,000).
- National Institutes of Health. *Health Care Disparities: Hispanic and Non-Hispanic Children*. (2005-2008). (\$300,000).
- St. Luke's Health Initiatives. *Arizona HealthQuery: A Community Health Data System Project*. (2003-2007). (\$1,100,000)
- Arizona Health Care Cost Containment System (AHCCCS). *Survey of Health Care Providers*. (2005-2006). (\$350,000).
- ISSR Catalyst Seed Grant Program (ASU). *Graduate Medical Study*. (2005). (\$9,000)
- Arizona State University. *Office of the VP for Research: Development Grant*. (2003-2005). (\$380,000).
- Disability Research Institute. *Social Security Administration: The Impact of Demographic and Labor Force Participation Changes on the Social Security Disability Insurance and Medicare Programs*. (2003-2004). (\$80,000).
- St. Luke's Health Initiatives. *A Study of Emergency Department Use*. (2003-2004).
- Agency for Health Care Research and Quality. *Dissertation Grant – Tricia Johnson*. (2002-2003). (\$32,000).
- Arizona Department of Health Services. *Cost Based Evaluation Design for the Tobacco Tax Prevention Program*. (2002, July-December). (\$79,000).
- HRSA. *Community Access Program of Arizona (CAPAZ)*. (2002, March – 2003, February).
- The Flinn Foundation. *The Yuma Study of Uninsured Children*. (1999-). (\$482,000).

**Principal Investigator, continued**

- NCMIC. *The Arizona State University Healthy Back Study: Prospective Study of the Cost Effectiveness of Alternative Treatments for Back Pain.* (1998-2003). (\$800,000).
- Arizona Department of Health Services. *Data Architecture.* (2000-2001). (\$225,000).
- Workers' Compensation Research Institute. *The Effect of Managed Care on the Costs of Work Related Injuries.* (1997-1999). (\$300,000).
- Arizona Department of Health Services. *Cost Benefit Analysis of the Health Start Program.* (1997-1998). (\$81,000).
- The Flinn Foundation. *Health Workforce Model.* (1995-1998). (\$39,000).
- The Flinn Foundation. *Physician Survey.* (1994-1998). (\$183,000).
- Samaritan Physician Institute – with Professor Eugene S. Schneller. (1994). (\$45,000).
- The Flinn Foundation, *Arizona Council on Graduate Medical Education.*(1993). (\$24,850).
- The Arizona Hospital Association. *Sin Taxes and Health Care.* (1993). (\$12,000).
- The Flinn Foundation. *Planning Grant: Needs Assessment for the Treatment of Children in Foster Care.* (1993). (\$25,000).
- AHCPR and the American Association of Cardiovascular and Pulmonary Rehabilitation. *Development of Clinical Practice Guidelines for Cardiac Rehabilitation (Health Policy).* (1992-1995). (\$180,000).
- The Flinn Foundation – with Professor Eugene S. Schneller. *Graduate Medical Education in Arizona.* (1991-1995). (\$197,000).
- Robert Wood Johnson and Harvard University. *Access and Quality of Care: Analyses Based on the Medical Practice Study.* (1992-1993). (\$18,000).
- National Science Foundation – with Professor Nan Laird of Harvard University. *Modeling Non-ignorable, Non-Response.* (1990-1992). (\$75,000).
- Workers' Compensation Board of Ontario, Canada. *Design and Implementation of a Wage-Loss Benefit System.* (1988-1991). (\$182,000).
- Robert Wood Johnson Foundation and Harvard University. *The Costs of Medical Malpractice.* (1987-1991). (\$256,000).
- National Institute of Disability and Rehabilitation Research. (1988-1989). (\$49,000).
- Millbank Memorial Fund – with Mt. Sinai Medical Center of New York City, NY. *The Health Care Costs of Occupational Illness.* (1987-1988). (\$72,000).
- AFL-CIO. *A Pilot Study of Health Care Cost Containment in a Union Health and Welfare Fund.* (1986). (\$17,000).
- New York State Temporary Commission on Workers' Compensation. *Permanent Disability Benefits: An Evaluation of New York Workers' Compensation Benefits.* (1985). (\$25,000).
- National Science Foundation. *Public Regulation of Occupational Health and Safety.* (1977-1979). (\$273,000).
- U.S. DHEW. *A Study of the Determinants of Applications for Social Security Disability Insurance.* (1976-1978). (\$122,000).
- U.S. Department of Labor. *Effects of Workers' Compensation on Injuries and Illness.* (1976-1978). (\$99,630).
- Interdepartmental Task Force on Workers' Compensation. *An Analysis of Disability and Workman's Compensation in the United States.* (1974-1976). (\$475,000).

### Co-Investigator

- Arizona Department of Health Services (CDC). *Colorectal Cancer Screening in Arizona/Fit at Fifty HealthCheck Program*. (2010-2013). (\$126,000).
- Arizona Department of Environmental Quality. *Integration of Health Outcomes Information: A Partnership with Arizona Department of Environmental Quality*. (2007-2008). (\$160,600).
- Translational Genomics Research Institute. *Arizona Clinical and Translational Science Award Planning Grant*. (2007). (\$29,000).
- St. Joseph's Hospital and Medical Center and Chandler Regional Hospital of Catholic Healthcare West. *Assessment of Community Healthcare Needs – Phase 1*. (2005). (\$37,300).
- University of Utah. *Agricultural Burns Surrounding San Luis Border, Plume Pathways and Health Effects*. (2004-05). (\$70,000).
- Harvard Study Group of Harvard University Schools of Law, Medicine, and Public Health. *Medical Practice Study*. (1986). (\$6,000,000).
- Boston University Study of Health and Work. *The Framingham Heart Study*. (1980-1985).
- NSF. *Differential Transfer Payments for Disabled Persons*. (1977-1979).
- NSF. *Compensation for Personal Injury*. (1977-1979).
- N.Y.S. Research Foundation. *Curriculum Development*. (1975-1976).
- Rutgers University. *Costs of Disability Study* (HEW). (1974).

### Selected Professional Activities

- Editorial Board.** *Disability and Health Journal*. (2008- ).
- Technical Expert Panel.** Agency for Healthcare Research and Quality: Health Information Technology Systems Workshop. Washington, DC. (2009).
- National Research Advisory Panel.** National Technical Assistance and Research (NTAR) Leadership Center, Rutgers University. (2008-2010).
- Steering Committee. Arizona Hospital and Healthcare Association (AzHHA) Healthcare Institute. (2008-2012 ).
- Associate Editor.** *The Spine Journal*. (2000- ).
- Board of Directors,** Arizona Health-e Connection, Phoenix, Arizona. (2007- ).
- Chairman,** Scientific Review Committee, Centre for Research Expertise for Improved Disability Outcomes, Ontario Canada. (2007- ).
- Workers' Compensation Steering Committee. National Academy of Social Insurance. (2005-2007).
- Board of Directors.** AK Health Foundation. Phoenix, Arizona. (2004-2006).
- Co-Editor.** *Journal of Disability Income and Work Injury Compensation*. Social Science Research Network (SSRN) and the *National Academy of Social Insurance*. (2003- ).
- NIH Review Panel** for Health Services Research, *National Institutes of Health*. (2002-2004).
- NRC** Committee on Disability Determination for Individuals with Hearing Impairments. National Academy of Science. (2001-2004).
- Faculty Member of **EARS**. The Enhanced Administrative and Research Services (EARS) program facilitates sponsored research by ASU's most heavily-funded faculty. Membership in EARS is limited to 40 faculty who have the largest and portfolios of extramurally funded grants. (2001- ).
- Technical Advisory Committee.** World Health Organization Collaborating Center: Task Force on Neck Pain and its Associated Disorders. (2000-2007).
- Technical Advisory Committee.** National Disability Research Institute, University of Illinois. (2000-2005).

**Selected Professional Activities, continued**

**Executive Committee.** Health Outcomes and Pharmacoeconomics Center, College of Pharmacy, University of Arizona. (1999-2004).

**Editorial Board.** Research in Social Science and Disability. (1998-2002).  
Committee on Continuing Medical Education. Samaritan Health Care System. (1997-2000).

**ASU Director.** Arizona Health Outcomes Task Force: Consortium. (1997-1998).  
Committee on Consensus Guidelines for the Treatment of Epilepsy. Medco Containment Services. (1995).  
Quality of Life Committee. Epilepsy Foundation of America. (1994-1997).  
Task Force on Alternative Methods of Dispute Resolution. Council of Community Blood Centers. (1994)  
Health Administration Concentration **Director.** University of Arizona/Arizona State University MPH program. (1993-1997).

**Director.** Samaritan Physician Leadership Institute. (1993-1995).  
Physician Leadership Institute **Coordinator.** L.A. Department of Health. (1992).

**Associate Editor.** *Journal of Disability Policy Studies.* (1989-1999).  
Advisory Board. *Workers' Compensation Monitor.* (1988-1997).

**Organizer and Chair.** The Five University Conference on Workers' Compensation (co-sponsors: Connecticut, Cornell, Princeton and Rutgers Universities. (1988).  
Advisory Board. The Mount Sinai School of Medicine, Study of Occupational Illness in New York State (1986-1987).

**Solo Speaker.** *The Soaring Costs of Health Care.* Presented to the National Issues Forum of the Domestic Policy Association in five Cities in New York and six Cities in Florida. (1985).  
Expert Panel on Disability and Worker's Compensation. U.S. GAO. (1984-1995).  
National Science Foundation (RANN) – Rutgers University. Alternative Programs for the Handicapped Project. (1973-1974).

**Referee**

*American Journal of Industrial Medicine. British Journal of Occupational and Environmental Medicine. Canadian Journal of Economics. Disability and Health Policy; Epilepsia .General Journal of Internal Medicine, Health Economics, Industrial & Labor Relations Review. Industrial Relations. Inquiry. Journal of Disability Policy Studies. Journal of General Internal Medicine. Journal of Health Economics. Journal of Human Resources. Journal of Risk and Insurance. Land Economics. Maternal and Child Health Journal. Medical Care. Occupational and Environmental Medicine. Pediatrics. Pharmacoeconomics. Policy Studies Journal. Public Administration Review. Public Finance Quarterly. Quarterly Review of Economics and Finance. Research in Governmental and Non-Profit Accounting. Review of Economics and Statistics. Science. Social Science and Medicine. Southern Economic Journal. Technology and Human Values. The Spine Journal. Value in Health.*

**Reviewer**

Agency for Healthcare Research and Quality. California Workers' Compensation Institute. Canadian Tax Foundation. Congressional Budget Office. Congressional Office of Technology Assessment. Johns Hopkins University Press. National Science Foundation. Robert Wood Johnson Foundation. Social Science and Humanities Research Council of Canada. Temple University Press. Texas Research Oversight Commission. Workers Compensation Research Institute.

## Selected Presentations

### Selected International Presentations

- Controlling the Health Care Costs of Occupational Illness and Injury: Is Managed Care a Solution?* (2008, April). Presented at the Stakeholder Day for the Centre for Research Expertise in Improved Disability Outcomes (CREIDO) in Toronto, Ontario, Canada.
- Healthcare Risk Modeling for Medicaid Patients: The Impact of Sampling on the Prediction of High-Cost Patients.* (2008, January). Presented with Sai Moturu & Huan Li at the International Conference on Health Informatics (HEALTHINF 2008) in Madeira, Portugal.
- It Pays to be Nice: Lower Back Pain and Returns to Work.* (2006, February). Presented with Richard Butler et al. at the International Workshop on Economic Evaluations of Occupational Interventions in Amsterdam, the Netherlands.
- The Course of Occupational Back Pain: Looking Beyond the First Return to Work.* (2004, October). Presented with Pierre Côté & Marjorie Baldwin at the International Congress on Occupational Health Scientific Committee Annual Meeting in Modena, Italy.
- The Course of Occupational Back Pain: Time to Take Another Look Beyond the First Return-to-Work.* (2004, October). Poster presented with Pierre Côté & Marjorie Baldwin at the International Forum VII on Primary Care Research on Low Back Pain in Edmonton, Alberta, Canada.
- Comparative Advantage: Opportunities for Joint Research.* (2004, June). Presented at the Institute for Work and Health in Toronto, Ontario, Canada.
- La Lombalgie Professionnelle: Son Pronostique Depend-il du Type de Mode de Prise en Charge.* (2004, June). Presented at the 28<sup>th</sup> Annual National Congress of Occupational Medicine in Bordeaux, France.
- Does Managed Care Work for Workers with Occupational Low Back Pain?* (2002). Presented with Marjorie Baldwin & Steven Marcus at the Montreal International Forum V for Primary Care Research on Low-Back Pain in Montreal, Ontario, Canada.
- The Role of Provider Networks in the Management of Work Related Back Pain.* (2001). Presented with Marjorie Baldwin & Scott Haldeman at the International Society for the Study for the Lumbar Spine (ISSL) Annual Meeting in Edinburgh, Scotland.
- The Cost Effectiveness of Alternative Modes of Care for Back Pain (at the **Plenary Session**); The Impact of Managed Care on the Duration of Work Disability (at the Session on Disability and Work Outcomes); Impact of Workers' Compensation. Networks on Medical Costs and Disability Payments (at the Session on Models of Health Care); Multiple Spells of Work Absence Following a Work-Related Injury (at the Session on Disability and Work Outcomes); and Post-Injury Wage Losses Among Ontario Workers with Permanent Impairments (at the Session on Wage Losses and Workers' Compensation).* (1999, June). Presented (the last two were with Marjorie Baldwin) at the Fourth International Conference on Medical-Legal Aspects of Work Injuries in Toronto, Ontario, Canada.
- Permanent Impairments: Results from the Ontario Survey.* (1996). Presented at the National Conference on Disability and Work: Solutions for Canadians in Toronto, Ontario, Canada.
- Pathways to Practice: Physicians' Career Decisions.* (1996). Presented with Marjorie Baldwin & Doug Campos-Outcalt at the International Health Economics Association Annual Meeting in Vancouver, British Columbia, Canada.
- The Relative Cost-Effectiveness of Chiropractors and Physicians in the Treatment of Low Back Pain.* (1996). Presented with Marjorie Baldwin at the International Health Economics Association Annual Meeting in Vancouver, British Columbia, Canada.
- Post-Injury Employment Patterns in Ontario.* (1993). Presented with Richard Butler & Marjorie Baldwin at the Challenges to Workers' Compensation in Canada at Queens University.
- Duration of Work Absences Among Workers with Permanent-Partial Disabilities.* (1993). Presented with Richard Butler & Marjorie Baldwin at the Challenges to Workers' Compensation in Canada at Queens University.



### ***Selected International Presentations, continued***

- The Costs of Medical Injuries.* (1992). Presented at Wolfson College of the University of Oxford, Oxford, United Kingdom.
- The Sources of Employment Discrimination.* (1991). Presented with Marjorie Baldwin at McGill University in Montreal, Ontario, Canada.
- The Costs of Asbestos Exposures.* (1989). Presented at the Collegium Ramazzini in Ottawa, Ontario, Canada.
- Discrimination, Disability and Rehabilitation.* (1986). Presented to the Canadian Association of Rehabilitation Personnel in Toronto, Ontario, Canada.
- The Economics of Regulatory Failure.* (1985). Presented at the Collegium Ramazzini in Capri, Italy.
- The Economics of Vocational Rehabilitation.* (1985). Presented at the Corpus Workers' Compensation Conference in Toronto, Ontario, Canada.

### ***Selected National Presentations***

- Physician Use of EMRs and Rankings by Brand of Software.* (2013, February). Presented at the Health Policy Fellowship Workforce Issues Seminar in Chandler, AZ.
- Tracking the Health Care Workforce in Arizona.* (2012, February). Presented at the Health Policy Fellowship Workforce Issues Seminar in Mesa, AZ.
- Tracking the Health Care Workforce in Arizona.* (2011, February). Presented at the Health Policy Fellowship Workforce Issues Seminar in Mesa, AZ.
- Effective Health care delivery and Immigration: Spotlight on the issues of healthcare and Immigration in Arizona.* (2011, May). Presented at the Society of General Internal Medicine (SGIM) Annual meeting in Phoenix, AZ.
- Tracking the Health Care Workforce in Arizona.* (2010, February). Presented at the Health Policy Fellowship Workforce Issues Seminar in Glendale, AZ.
- Stuffing Your Wallet: Financial Benefits from Health Information Exchanges.* (2010, February). Presented panel discussion at the iHT2 Winter Health IT Summit in Chandler, AZ.
- Arizona Update.* (2008, September). Presented with Wade Bannister and Kathleen Russell at the Better Quality Information Annual Meeting in Washington, DC.
- Predicting Future High-Cost Patients: A Real-World Risk Modeling Application.* (2007, November). Presented with Sai Moturu and Huan Liu at the IEEE International Conference on Bioinformatics and Biomedicine in Fremont, CA.
- Integrating Health Care and Disability Coverage.* (2007, October). Presented to the National Business Group on Health and the Integrated Benefits Institute annual Joint Forum on Health, Productivity and Absence Management in Washington, DC.
- Pay for Performance.* (2007, October). Presented panel discussion at the State of Our Health: Measuring Quality and Achieving Success Arizona Leadership Forum in Phoenix, AZ.
- Asthma in Maricopa County, Arizona.* (2006, November). Presented with Amy Bartels and Mary Rimsza at the American Public Health Association Annual Meeting in Boston, MA.
- Health Care Costs of Medicaid Disenrollment.* (2006, April). Presented with Richard Butler & Mary Rimsza at the 2006 Risk Theory Society Seminar at Virginia Commonwealth University in Richmond, VA.
- Employer/Insurer Choices of Health Care Professionals for the Treatment of Occupational Back Pain.* (2005, August). Presented the **Plenary Address** at the Florida Chiropractic Association National Convention in Orlando, FL.
- The Impact of Demographic and Labor Force Participation Changes on the Social Security Disability Insurance and Medicare Programs.* (2005, April). Poster presented at the Disability Research Institute 2005 Symposium in Washington, DC.

**Selected National Presentations, continued**

- Arizona HealthQuery: A Community Health Data Systems Model.* (2004, December). Poster presented with Mary Rimsza at the Maternal and Child Health Epidemiology Annual Conference in Atlanta, GA.
- Community Health Data Systems in Rural and Urban Settings.* (2004, December). Presented with Mary Rimsza & Amy Bartels at the Maternal and Child Health Epidemiology Annual Conference in Atlanta, GA.
- Impact of Agricultural Burning in a Border Community on Children's Health.* (2004, November). Presented with Mary Rimsza at the American Public Health Association Annual Meeting in Washington, DC.
- The Health and Disability Research Group and Arizona's Medicaid System.* (2004, October). Presented with Mary Rimsza at the Center for Health Program Development and Management at the University of Maryland.
- ASU Healthy Back Study.* (2004, May). Presented to the National Chiropractic Mutual Insurance Company in Hartford, CT.
- Patterns of Care for Acute Occupational Back Pain.* (2003). Presented at the Academy Health Annual Research Meeting in Nashville, TN.
- A Preliminary Assessment of Public Health Data Information System Models and Practices.* (2003). Presented at the Academy Health Research Meeting in Nashville, TN.
- The Interaction of Programs for Older Workers with Disabilities; Building Integrated Community Health Data Systems; Use of a Community Health Data System to Track Asthma; and Community Health Data Systems in Rural and Urban Settings.* (2003). Presented at the American Public Health Association Annual Meeting in San Francisco, CA.
- The ASU Healthy Back Study.* (2002). Presented at the American Ambulance Association Annual Meeting in Indianapolis, IN.
- Patterns of Health Care Among Children in a Hispanic Border Community.* (2002). Poster presented with Steven Marcus, Amy Bartels, & Sandra Johnson at the Academy for Health Services Research and Health Policy in Washington, DC.
- Controlling Workers' Compensation Costs: Is Managed Care the Solution?* (2002). Presented with Marjorie Baldwin at the Academy for Health Services Research and Health Policy in Washington, DC.
- Costs and Outcomes of Occupational Back Pain.* (2002, November). Presented with Marjorie Baldwin & Pierre Côté at the American Public Health Association Annual Meeting in Philadelphia, PA.
- Does Network Care for Injured Workers Delay Returns to Work?* (2002, November). Presented with Marjorie Baldwin & Tricia Johnson at the American Public Health Association Annual Meeting in Philadelphia, PA.
- Does Managed Care Work for Injured Workers?* (2002, November). Presented with Marjorie Baldwin & Steven Marcus at the American Public Health Association Annual Meeting in Philadelphia, PA.
- Developing a Community Health Data System.* (2002, November). Presented with Marjorie Baldwin & Steven Marcus at the American Public Health Association Annual Meeting in Philadelphia, PA.
- Patterns of Health Care Among Children in a Rural Hispanic Border Community.* (2002, November). Presented with Marjorie Baldwin & Steven Marcus at the American Public Health Association Annual Meeting in Philadelphia, PA.
- Back Care: Breaking Down Barriers Within Your Organization.* (2002). Presented at the Western Regional Employer Advisory Meeting at the Pharmacia Corporation in San Francisco, CA.
- The Effect of the Baby Boom on Disability Programs.* (2001). Presented at the Workshop on Implications of an Aging Workforce at the National Academy of Social Insurance in Washington, DC.
- A Comparison of the Merits of Administrative and Survey Data in the Analysis of Health Care.* (2001). Presented at the Arizona Community Access Program Border Wide Partner Meeting in San Diego, CA.

**Selected National Presentations, continued**

- Studying the Cost Effectiveness of Chiropractic Care: The Unmet Challenge.* (2001). Presented with Pierre Côté the **Plenary Address** at the Research Agenda Conference VI: Advancing the Science of Chiropractic in Kansas City, MO.
- The Yuma Project on Uninsured Children.* (2001). Presented with Amy Bartels et al at the Academy for Health Services Research Annual Meeting in Atlanta, GA.
- The Economics of Rehabilitation: The Difference Between Efficiency and Value.* (2000). Presented the **Keynote Address** at the American Academy of Physical Medicine and Rehabilitation Annual Meeting in San Francisco, CA.
- Clinical Imperatives and Cost Constraints in Rehabilitation.* (2000). Presented at the American Academy of Physical Medicine and Rehabilitation Annual Meeting in San Francisco.
- Quantifying the Value of Occupational Health Services.* (2000). Presented at the Marriott Corporation Health Conference in Atlanta, GA.
- Economic Realities of Disease Management.* (2000, November). Presented at the Annual Assembly of the American Academy of Physical Medicine & Rehabilitation in San Diego, CA.
- The Impact of Health Care Networks on Medical Costs and Disability Payments.* (1999). Presented at the Workers' Compensation Research Institute's Annual Issues and Research Conference.
- Research Frontiers.* (1997). Presented at the 21<sup>st</sup> Annual National Symposium on Workers' Compensation at Rutgers University.
- The Effect of Health Care on Return to Work.* (1997). Presented at the Workers' Compensation Research Institute's Annual Issues and Research Conference.
- Post-Injury Employment Among Canadian Construction Workers.* (1997). Presented at The Center to Protect Workers' Rights in Washington, DC.
- Tracking the Health Care Workforce, Health Policy Fellows Seminars (2010-2011-2012)*
- A Hierarchical Theory of Occupational Segregation and Wage Discrimination.* (1997). Presented at the American Economic Association Annual Meeting.
- Treating Low Back Injuries: Do We Know What We Are Doing?* (1996). Panelist at the National Symposium on Workers' Compensation at Michigan State University.
- Managing Work Disability.* (1996). Presented with Richard Butler & Marjorie Baldwin at The Center to Protect Workers' Rights in Washington, DC.
- The Costs of Epilepsy.* (1996). Presented at the Western Regional Epileptologists Conference in Scottsdale, AZ.
- The Cost Effectiveness of Anti-Epileptic Drugs.* (1996). Presented at the Western Regional Anesthesiology Practices Consultant's Meeting in Scottsdale, AZ.
- Workers' Compensation Alternatives.* (1996). Presented at the IAIABC International Workers' Compensation College in Phoenix, AZ.
- Disability: Challenges for Social Insurance, Health Care Financing and Labor Market Policy.* (1996, January). Panelist at the 8<sup>th</sup> Annual National Academy of Social Insurance Conference in Washington, DC.
- Managing Work Disability: Why First Return to Work is Not a Measure of Success.* (1995). Presented to the Eastern Association of Workers' Compensation Boards and Commissions in Boston, MA.
- Using Claims Data to Measure Potential Savings.* (1995). Presented to the Institute for International Research's "Designing Workers' Compensation Insurance for the New Managed Care Era" in Dallas, TX.
- Keynote Speech.** (1995). AHCPH National Conference on Health and Workers' Compensation in Boston, MA.
- The Economics of Disability and Secondary Conditions.* (1995). Presented at the Conversations on Disability Issues at the SUNY Health Science Center.

### **Selected National Presentations, continued**

- Physicians' Career Decisions at Entry into Practice.* (1995). Presented with Marjorie Baldwin & Doug Campos-Outcalt at the 6<sup>th</sup> Annual Health Economics Conference at the University of Michigan in Ann Arbor, MI.
- Measuring the Success of National Health Service Corps Fellowships.* (1995). Presented at the National Health Service Corps Annual Conference in Washington, DC.
- Economic Aspects of Human Factors/Ergonomics.* (1995). Presented at the Silicon Valley Ergonomics Conference in San Jose, CA.
- Modeling the Cost Effectiveness of Pharmaceutical Products.* (1994). Presented at the American Society of Hospital Pharmacists Annual Meeting in Miami, FL.
- Back Pains and Returns to Work: A Study of Outcomes.* (1994, June). Presented with Marjorie Baldwin and Richard Butler at the Association for Health Services Research Annual Meeting in San Diego, CA.
- The Cost Effectiveness of Alternative Treatments for Low Back Pain.* (1994, June). Presented with Butler, Baldwin, & Burton at the Association for Health Services Research Annual Meeting in San Diego, CA.
- The Impact of Health Reform on Persons with Epilepsy.* (1994). Presented at the University of Virginia Health Sciences Center.
- Labor Market Discrimination Against Persons with Disabilities.* (1994). Presented with Marjorie Baldwin at the American Economic Association Annual Meeting in Boston, MA.
- A Double Burden of Discrimination: Women with Disabilities.* (1993). Presented with Marjorie Baldwin & Sara Watson at the Association of Public Policy Analysis' Annual Research Conference in Washington, DC.
- The Economic Impact of Secondary Health Conditions.* (1993). Presented at the American Public Health Association Annual Meeting.
- Occupational Segregation and Wage Discrimination.* (1992). Presented with Marjorie Baldwin and Richard Butler to the Southern Economic Association.
- Doctors, Patients and the Tort System.* (1991). Presented at Northwestern University.
- Bayes Analysis for Model Based Methods for Non-Ignorable Non-Response in Sample Surveys.* (1991). Presented with Sybil Crawford and Nan Laird. Presented at Carnegie Mellon University.
- The Americans with Disabilities Act: Will It Make a Difference.* (1991). Invited Paper with Marjorie Baldwin at the American Political Science Association Annual Meeting in Washington, DC.
- A National Policy for Disability.* (1990). Presented to the National Council on Disability in Washington, DC.
- Why Does Workers' Compensation Pay More for the Care of Injured Workers?* (1990). Presented at the Conference on Managed Care and Workers' Compensation in Washington, DC.
- Health Care Cost Containment in Workers' Compensation.* (1989). Presented with John Burton, Jr., at the American Economic Association's E. Wright Memorial Seminar.
- An Economic Analysis of the Laws Promoting Employment of Handicapped Persons.* (1985). Presented to the National Institute of Handicapped Research in Washington, DC.

### **Selected Community (Arizona) Presentations**

- Electronic Health Records and Physicians of the Future,* (2012 February) AMA Student Meeting  
Midwestern University
- The Use of Electronic Medical Records and Physicians' Attitudes toward a Health Information Exchange.* (2010, February). Presented webinar to Arizona Health-e Connection in Phoenix, AZ.
- The Health Care Workforce in Arizona.* (2009, August). Presented to Board of Trustees and Management Staff, MICA Insurance in Sedona, AZ.

***Selected Community (Arizona) Presentations, continued***

- An Expanded Trauma Data Warehouse for Arizona.* (2009, August). Presented to the Executive Committee, Arizona Trauma and Acute Care Consortium (AZTrACC) in Phoenix, AZ.
- Framing Healthcare Reform—A Changing Landscape for the Next Generation of Physicians.* (2009, May). Panel discussion by the American Medical Student Association, University of Arizona College of Medicine-Phoenix in Phoenix, AZ.
- The Health Care Workforce in Arizona.* (2009, April). Presented to Arizona Health Lawyers Association Phoenix, AZ.
- Health Insurance in Arizona.* (2009, March). Presented at the 6<sup>th</sup> Annual Cover Arizona Event, St. Joseph's Hospital and Medical Center's in Phoenix, AZ.
- The Arizona Nursing Workforce.* (2008, December). Presented to the Arizona Hospital and Healthcare Association's Healthcare Institute Advisory Board in Phoenix, AZ.
- Center for Health Information & Research.* (2008, December). Presented to the Statewide Employer Leadership Panel in Phoenix, AZ.
- Children's Health in Arizona: Linking Particulate Pollution to Asthma in Central Phoenix.* (2008, November). Presented with George Runger to the American Lung Association in Scottsdale, AZ.
- Arizona HealthQuery.* (2008, October). Presented to the Center for Improving Health Outcomes in Children, Teens, & Families, ASU College of Nursing & Healthcare Innovation in Phoenix, AZ.
- The Use of Electronic Medical Records and Physician's Attitudes toward a Health Information Exchange.* (2008, August). Presented to the Arizona Health Care Cost Containment System in Phoenix, AZ.
- Electronic Medical Records and Informatics.* (2009, May). Presented at the American Medical Student Association, UA College of Medicine-Phoenix panel on "Framing Healthcare Reform in the 21<sup>st</sup> Century: A Changing Landscape for the Next Generation of Physicians" in Phoenix, AZ.
- The Arizona Healthcare Workforce.* (2008, June). Presented with Beth Hartman Ellis to the Western Maricopa Coalition (WESTMARC) Healthcare Committee, Board of Directors & Executive Committee in Peoria, AZ.
- Patient Registries.* (2008, June). Presented at the Arizona Translational Resource Network (AzTransNet) Technical Policy Retreat on "Patient Registries: An Innovative Tool for Advancing Clinical and Translational Research" in Scottsdale, AZ.
- Center for Health Information & Research,* (2007, March). Presented to the Banner Health System Board of Directors in Phoenix, AZ.
- Hope or Hype: Quality, Transparency and the Consumer Revolution.* Presented at Arizona Health Care Forecast 2007 in Phoenix, AZ.
- Economic Consequences of the Uninsured.* (2006, October). Presented at the Arizona Chamber of Commerce Arizona Healthcare Summit in Phoenix, AZ.
- Network Care for Work Related Injuries.* (2006, September). Presented at the Arizona Small Business Association Health and Safety Conference in Tempe, AZ.
- The Four Tiered Market for Dental Care in the 21<sup>st</sup> Century.* (2005, October). Presented at the Delta Dental Corporation Board of Directors Road Map to the Future in Tucson, AZ.
- Arizona HealthQuery: Building Community Health Data Systems for Tomorrow.* (2005, January). Poster presented with Mary Rimsza at Children with Special Health Care Needs Arizona Innovations Summit in Sedona, AZ.
- Health Disparities Among Children Who Have Asthma.* (2005, January). Poster presented with Mary Rimsza, Rebecca White, Wade Bannister, and Tricia Johnson at Children with Special Health Care Needs Arizona Innovations Summit in Sedona, AZ.
- Building Community Health Data Systems.* (2004, September). Presented with Mary Rimsza to the Arizona Medical Association in Phoenix, AZ.

***Selected Community (Arizona) Presentations, continued***

- The Yuma County Community Health Data System.* (2004, September). Presented to the Children's Action Alliance in Phoenix, AZ.
- Emergency Departments as a Source of Care for Children in a U.S. - Mexico Border Community.* (2003). Presented at the Rural Health Conference in Tucson, AZ.
- Emergency Departments as a Source of Care for Latino Children in a Border Community.* (2003). Presented at the Ninth Annual Maternal and Child Health Epidemiology Conference in Phoenix, AZ.
- Patterns of Utilization for Asthma Patients.* (2003). Presented at the Pulmonary Research Forum in Tempe, AZ.
- Health Status of Uninsured Children.* (2002). Presented at the Yuma County Children's Health Care Forum in Yuma, AZ.
- Employment Discrimination and Employer Education.* (2000). Presented at the Arizona Rehabilitation Association Annual Meeting in Phoenix, AZ.
- The Health Care Costs of Work Injuries.* (1994). Presented at the State Bar of Arizona Annual Meeting.
- The Costs of Epilepsy vs. Measures of the Quality of Life.* (1993). Presented at the Epilepsy Foundation Annual Meeting.
- The Economics of Health Care Reform.* (1992). Presented to the Critical Care Education Foundation in Scottsdale, AZ.

***Professional Activities: Arizona State University***

- Member, Research Council, Office of the Vice President for Research and Economic Affairs. (2006-2010).
- Member. University Task Force on the Department of Biomedical Informatics. (2005).
- Member. University Task Force on the School of Global Health and Appropriate Technology. (2004).
- Member. Tenure and Promotion Committee of W. P. Carey School of Business. (2004-2005).
- Member. Dean of W. P. Carey School of Business Search Committee. (2003-2004).
- Chair.** Faculty Council. (2003-2004).
- Director.** Health Administration Concentration of MPH-University of Arizona Medical School/Arizona State University. (3 years).
- Coordinator.** Health Management Concentration of Executive MBA Program. (3 years).
- Member. Computer Resources Committee.
- Member. College of Business Masters Committee.
- Chair.** University Committee on Biomedical Research.
- Member. School of Management Committee on Promotion and Tenure. (3 years).
- Member. Research Task Force of School of Management Business Partners Committee.

***BMI Departmental Service***

- Chair,** Faculty Recruiting Committee (2008-)
- Chair,** Faculty Personnel Committee (Promotion & Tenure)(2008-)
- Faculty Senate:** BMI Representative (2010-)
- Member, Student Admissions Committee (2008-)
- Member, Health Solutions By-Laws Committee (2013)

### **Teaching and Instruction - Arizona State University**

Graduate courses in Biomedical Informatics

Undergraduate courses in Health Economics

Graduate courses in Microeconomics, Health Economics, and Public Health Informatics

#### **Mentoring**

1. Program Advisor:
  - a. Bradley
  - b. King
  - c. Lee
  - d. Nikfarjam
  - e. Xue
2. Masters Committee
  - a. Lu
3. PhD Committee:
  - a. Brown (completed)
  - b. Di Pan (completed)
  - c. Kriseman(completed)

#### **Professional Service to Arizona: Pro-Bono**

Member, Board of Directors, Arizona Health-e Connection. (2006- ).

Member, Economic Task Force, Arizona Medical Association (2007-2009)

Member, Data Center Steering Committee, Arizona Hospital and Healthcare Association's Healthcare Institute Workforce Data Center. (2007-2008).

Advisory Board. Arizona Health Care Cost Containment System (AHCCCS). (1993-1994).

Advisory Board. Hospice of the Valley. (1993-1998).

Advisory Committee Member. Robert Wood Johnson Rural Health Project of Arizona Department of Health Services. (1993-1994).

Data Advisory Committee. Arizona Department of Health Services. (1991-1993).

Chair. Working Group on Health and Finance Policy of Arizona Department of Health Services. (1992).

Interagency Working Group. (1991).

Data Advisory Panel. Health Services Advisory Group (PSRO). (1991).

#### **Selected Consultancies**

(2012-2015) *Measuring the Quality of Hospital Care, Arizona Hospital and Health Care Association*

(2011-2012) *Measuring Health Care Outcomes, The Mayo Clinic, Rochester MN*

(2011) *Evaluation of School Based Flu Clinics, Maricopa County DPHS*

(2007) *The Interaction of Health and Disability Insurance. Aetna, Inc.*

(2001-2002) *Feasibility Study for a Maricopa County Community Health Data System. St. Luke's Health Initiatives.*

(2001-2003) *Aging and Disability. American Association of Retired Persons (AARP).*

(1997-1999) *Institute for Health and Productivity Management.*

(1997-2000) *Cost Effectiveness. Arizona Department of Health Services.*

(1995-1999) *Managed Care and Workers Compensation. Workers' Compensation Research Institute.*

- (1995-1996) *Cost-Benefit Evaluation of "Health Start Program."* Arizona Department of Health Services.
- (1995-1996) Massachusetts Department of Industrial Accidents.
- (1995-1996) *Alternative Dispute Resolution Mechanisms.* Council of Community Blood Centers.
- (1994-1996) Arizona Association of Community Health Centers.
- (1994) *Cost Effectiveness of Drugs for Epilepsy.* Marion-Merrill Dow.
- (1993-1996) *The Zenith Projects: Research on Workers' Compensation.* Zenith National Insurance Corporation.
- (1992-1993) *A Design for a National Study of the Costs of Epilepsy.* Epilepsy Foundation of America.
- (1992-1993) *Discrimination in Awards of SSDI Benefits.* U.S. GAO.
- (1988-1990) Minnesota Department of Labor and Industry.
- (1988-1990) The Attorney General of the United States.  
Greater Phoenix Affordable Health Care Foundation.