

WALTER LIERMAN, Ph.D.

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EDUCATION

University of Arizona, Tucson, Arizona - Doctor of Philosophy, Economics
University of Arizona, Tucson, Arizona - Master of Science, Ag. Economics
Concordia University, Seward, Nebraska - Bachelor of Science, Education

PROFESSIONAL EXPERIENCE

The Economics Group, LLC, West Linn, Oregon, Principal and economist, 1996 – Present

• FORENSIC ECONOMIC LITIGATION SERVICES

Provides economic analysis and litigation support to attorneys.
Provides forensic economic analysis and litigation support in the following areas:

- Severe injury and wrongful death litigation
- Losses arising from commercial trucking accidents
- Loss of wages and fringe benefits
- Economic loss of earnings capacity
- Economic costs for life care plans
- Economic losses arising from employment terminations and discrimination
- Estimation of business damages arising from interruption of operations
- Estimation of damages in patent infringement

Apply financial models and analytical methods in litigation support.

- Black-Scholes stock option pricing model
- Present value analysis
- Capital asset pricing model
- Regression models and statistical hypothesis testing
- Financial measurement: financial statement analysis, financial and economic evaluation of small and large firms

• FORENSIC ECONOMIC PUBLICATIONS and ARTICLES

Lierman, W., (2010, Winter). Damage control: Compensation for those with great need. *Trial Lawyer, Oregon Trial Lawyers Association*, 20-22.

Lierman, WK, Patton, RT, Nelson, DM. Patton-Nelson Personal Consumption Tables, Updated. *Journal of Forensic Economics*. 1998, 11 (1): 3-7.

• FORENSIC ECONOMIC PRESENTATIONS

Present law and economics topics to attorney groups

WSTLA - King County – South Roundtable, Renton, WA.;

WSTLA - Spokane Roundtable;

WSTLA - Seattle (downtown) Roundtable

Interstate Trucking Litigation Group (ITLG) Seminar,

Chicago, IL., October 3-4, 2008.

AAJ (ATLA) co-sponsor for hosting room, Seattle, WA.

WSTLA, Clark County, Vancouver, WA.

OTLA, Portland, OR.

• FORENSIC ECONOMIC REPORTS and EXPERT TESTIMONY

- To-date has prepared over 475 forensic economic damage reports for attorneys and practices in Florida, Idaho, Illinois, Indiana, Michigan, New Jersey, New York, Oregon, Washington, and Wisconsin.
- Provides expert witness testimony in depositions, trials and arbitrations.
- Expert testimony given: Oregon: Clackamas, Douglas, Multnomah, Linn/Benton, Clatsop, Deschutes, Curry, Marion, Lane, and Yamhill counties; Washington: King, Clark, and Skagit counties; Illinois: Cook county; Wisconsin: Milwaukee county.

• EXPERT TESTIMONY

Trials

Federal

Lally / J. Campiche, Esq., bench trial, Federal court, Seattle, WA, 1997
Garver / D. Snyder, Esq., Federal court, Portland, OR, 2006
Krouse / D. Leroux, Esq., Federal court, Portland, OR, 2012
Siring v. EOU / C. Crispin, Esq., Federal court, Portland, OR, 2013

State

Keiter / D. Miller, Esq., Portland, OR, 2004
Wik-Olson / T. D'Amore, Esq., Portland, OR , 2005
Baptista / W. West, Esq., Albany, OR, 2005
Brunick / M. Alvey, Esq., Astoria, OR, 2005
Ingber / G. Susak, Esq., Portland, OR, 2005
Yell / T. Stupasky, Esq., Eugene, OR, 2006
Herron / D. Snyder, Esq., Portland, OR, 2006
McCollum / D. Lawrence, Esq., Portland, OR, 2006
Day / S. Smucker, Esq., Portland, OR, 2006
Rex / Tom D'Amore, Esq., Portland, OR, 2006
Roa / S. Hendricks, Esq., Portland, OR, 2006
Johnson / K. Dobson, Esq., Gold Beach, OR, 2007
Collins, Hayden, Larwick, Mason. / T. Boothe, Esq., Vancouver, WA, 2007
Pritchard / E. Larson, Esq. & Z. Fruchtengarten, Esq., Oregon City, OR, 2007
Warling / R. Beatty-Walters, Esq., Portland, OR, 2007
Pulsinelli / T. Melville, Esq., bench trial, Oregon City, OR, 2007
Brenn / W. Barton, Esq., & K. Strever, Esq., Bend, OR, 2008
Newby / B. Ruff, Esq., Portland, OR, 2009
Ferguson / L. Baron, Esq., Portland, OR, 2010
Matlock / M. Kellington, Esq., Salem, OR, 2011
England / C. Robinowitz, Esq., Portland, OR, 2011
Moore / L. Wobbrock, Esq., Portland, OR, 2011
Nelson / R. Miller, Esq., Roseburg, OR, 2011
Coultas & Schwanenberg v. General Electric /
G. Anderson, Esq., Portland, OR, 2012
Levy / D. Miller, Esq., Portland, OR, 2012
Saunders / P. Breed, Esq., Portland, OR, 2012
Nestle / R. Miller, Esq., Eugene, OR, (video testimony Detroit, MI), 2012
Hitchcock / R. Miller, Esq., Eugene, OR, 2012
Campbell / D. Jacobs, Esq., Portland, OR, 2012
McMillan v. Li Ning Sports USA, Inc. / A. Foster, Esq., Portland, OR, 2013
Horton v. Oregon Health Sciences University / D. Miller, Esq., Portland, OR, 2013
DeWolf v. Mt. Hood Ski Bowl / J. Merrick, Esq., Portland, OR, 2013
Parker v. Professional Garage Door Systems, Inc. / L. Christie, Esq., Indianapolis,
IN, 2014
Sharipoff v. Skyward Construction / D. Lefkowitz and co-counsel, Portland, OR
(video-testimony), 2014

Depositions

Newbaker / W. McCann, Esq., Mount Vernon, WA, 1997
Pyles / J. McCarthy, Esq., Chicago, IL, 2005
Applewhite, Jr. / R. Fishman, Esq., Chicago, IL, 2005
Pinson / D. Penoyer, Esq., Portland, OR, 2007
McLin / T. D'Amore, Esq., Portland, OR, 2007
Herling v. Wal-Mart / P. Fels, Esq., Portland, OR, 2008
Kay / E. Neiman, Esq. & D. Campbell, Esq., Portland, OR, 2008
deLeon and Thomas / M. Varasteh, Esq. (Troy, MI),
video-deposition, Portland, OR, 2009
McGuffin / R. Kornfeld, Esq., Kirkland, WA, 2009
Seiter v. Yokohama Tire / G. Ferguson, Esq., Vancouver, WA, 2009
Applewhite, Jr. (evidence deposition) / R. Fishman, Esq., (Chicago, IL),
Milwaukee, WI, 2010
Dollfe v. Caterpillar Financial Services / R. Caruso, Esq. (Spokane, WA),
Portland, OR, 2010
Davis v. Wal-Mart / C. Crispin, Esq., Portland, OR, 2011
Bryan v. Hawthorne Suites / K. Kohler, Esq. (Seattle, WA), Longview, WA, 2011

Arbitrations, Mediations, Settlements

Barnes / S. Smucker, Esq., Portland, OR, 2005
Golladay / G. Susak, Esq., Vancouver, WA, 2006
Sandberg / T. Williams, Esq., telephonic arbitration testimony, Bend, OR, 2006
Stafford / I. Shlesinger, Esq. Eugene, OR, 2008
Baker / T. D'Amore, Esq., & D. Penoyer, Esq., Portland, OR, 2009
Bauld / M. Gutzler, Esq., Portland, OR, 2010
Brunick / M. Alvey, Esq., telephonic arbitration testimony, Astoria, OR, 2010
Daley / R. Crary, Esq., Spokane, WA, telephonic arbitration testimony, 2010
Bierbrauer / P. Foraker, Esq., Portland, OR, 2011
Harris / A. Baker, Esq., Portland, OR, telephonic arbitration testimony, 2012
Matthews / J. Johnson, Esq., Portland, OR, 2013
Griggs / T. Stupasky, Esq., Eugene, OR, 2013
McFarlane / J. Johnson, Esq., Portland, OR, telephonic arbitration testimony, 2013
Darnell / J. Kafoury, Esq., Portland, OR, 2013
S. Otis / C. Morrison, Esq., Portland, OR, 2014
E. Knudson / J. Callahan, Esq., Portland, OR, 2014

Earlier forensic economic work

- Patton and Lierman, Bellingham, WA, 1997-1999
- Tinari Economics Group, Livingston, NJ, contract forensic economist, 2001-2003

ECONOMIC SERVICES – HEALTHCARE, SAS PROGRAMMING, ECONOMIC ANALYSIS 1996 - Present

Healthcare Consulting | Contracting:

- OFFICE of HEALTH ANALYTICS, Actuarial Services Unit, Salem, OR., contract (Current)
 - Responsible for validating Medicaid enrollment, utilization, and cost data for use in managerial dashboard prepared for DMAP CFO,
 - SAS programming applications for large claims data sets; integrating HCG grouper into dashboards,
 - Prepare analyses from big data sets using SAS programming (base and macros) and PROC SQL,
 - Develop predictive models work with Actuarial team to use predictive model as a tool for rate setting purposes,

- OFFICE of HEALTH ANALYTICS, Office for Oregon Health Policy and Research, Salem, OR., limited duration contract of 12 months
 - Develop predictive modeling using logistic regression methods for identification of high cost members.
 - Validate All Payers| All Claims (APAC) state health insurers' data base.

- U.S. HEALTHCENTER, INC., Thiensville, WI.
 - On-going analytical work on predictive models for health risk exposure and cost avoidance.
 - Perform review of mathematical / analytical formula on the segmentation algorithm (segmented pre-disease morphological progression health risk assessment tool).

- BLUE CROSS-BLUE SHIELD-MICHIGAN, Detroit, MI. (contractor for Acxiom, Inc.)
4-month contract
 - Developed predictive models with logistic regression, ordinary least squares, modeling potential impacts of the ACA.
 - Scored models against health plan survey and membership data.

- BRACCO DIAGNOSTICS, INC., Princeton, NJ.
4-month contract in econometric modeling and analysis.
 - Directed project developing predictive models of demand drivers for low osmolar contrast medium (LOCM).
 - Analyzed the relevant statistical measures to determine best fit models, and presented results to directors of European and U.S. operations for operational forecasting.

- MANAGED EDGE CONSULTING – New York, NY.
15-month contract in health economics; pharmacoeconomic consulting.
 - Developed and presented proposals to pharmaceutical clients: 1) strategies to position new drug products for the managed care market penetration; 2) strategies to reposition drugs in competitive therapeutic markets.
 - Developed and presented pharmacoeconomic workshops for Pfizer clinical education coordinators' managed care clients.
 - Developed and presented proposals stressing the cost-effectiveness of pharmaceuticals in the treatment of illness and disease.

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- REGENCE BLUECROSS | BLUESHIELD – Portland, OR.
11-month contract in Health services research; cost-of-illness research, analysis, and report.
- Analyzed of top 25 episode treatment groups (ETGs) for commercial business analyzing historical claims data and produced report for and medical directors.
- OREGON HEALTH & SCIENCES UNIVERSITY – Portland, OR.
15-month study; Project director; survey research project on mental health and substance abuse benefits in business.

SAS Consulting and Contracting Projects:

- KAISER-PERMANENTE HEALTH PLAN – NORTHWEST REGION, Portland, OR.
6-month SAS contract in Risk Planning and Program Analysis.
- Applied SAS programming to assist in the adjudication of pended physician and hospital | outpatient facility claims for Medicaid claims to satisfy HIPAA reporting specifications.
- UNITED HEALTH GROUP-INGENIX, Eden Prairie, MN.
6-month SAS contract in fraud and abuse analytics.
- Provided SAS data extraction, transformation, and load coding from existing data sources and formats-claim, member, and provider datasets-into SAS datasets for use by forensic fraud and abuse analysis teams in identifying questionable billing and reimbursement patterns.
- HEWLETT-PACKARD, INC. – Vancouver, WA.
6-month analytical contract in commercial printer operations.

Economic Analysis:

- 1000 FRIENDS OF OREGON – Portland | Eugene, OR.
- Prepared critique of Yamhill County Population Forecast.
- Assessed the approach and results from accepted practices and standards of forecasting.
- Report utilized in legal hearing by 1000 Friends of Oregon arguing the need for new county level and municipal level forecast for Yamhill.

KAISER PERMANENTE HEALTH PLAN, Portland, Oregon • 1990 – 1995

Economist, Medical Economics and Sales and Marketing

- Forecasting growth in medical and dental plan membership
- Prepared and presented forecast findings to senior management.

Career note: Earlier, directed IPA management firm of 220 physicians, Tempe, AZ

OTHER EXPERIENCE –SUSTAINABILITY

Sustainability related

- Webinar Presenter, Topic: Benefits and Costs of Climate Change Mitigation, presented April 10, 2008 as part of Converging Environmental Crises: A Teach-in on Energy, Climate Change, Water, Agriculture, and Population, Presented by College of Public Health, The Ohio State University.
 - Focused upon implications of externalities, production trade-offs, and technologies in accounting of the benefits and costs of GHG and carbon mitigation.

TECHNICAL SKILLS

Experienced using SAS: Base SAS, Proc SQL, Proc logistic, macros
Working with large data sets

OTHER PUBLICATIONS

The Impact of the GE-Amersham Acquisition on Market Competitiveness, Healthcare Payers, and Patients, A Research Brief prepared by Walter K. Lierman, Ph.D., Elias C. Grivoyannis, Ph.D., and Frank D. Tinari, Ph.D. for Bracco Diagnostics, Milan, Italy and Princeton, New Jersey. 2003.

Optimizing the Use of Existing Databases for Operational and Planning Functions: Final Report, prepared by Walter K. Lierman for Bracco Diagnostics, Milan, Italy and Princeton, New Jersey. 2003.

McFarland BH, Lierman WK, Penner NR, McCamant LE, Zani B. “Benefits Managers’ Opinions Regarding Behavioral Healthcare Benefits”. Journal of Addictive Disease. 2003; 22(2).

McFarland BH, Lierman WK, Penner NR, McCamant LE, Zani B. “Benefits Managers’ Views on MH/SA Raise Cause for Concern”. Behavioral Healthcare Tomorrow. 2002; 11(4): 22-31.

The Potential Impact of Formulary Adoption in the Oregon Health Plan. A Report from EcoNorthwest. 2000.

A Comparison of HMO Financial Performance: A Multi-State Analysis. A Report for © Oregon Health Forum; 2000.

The Oregon Health Plan: A Membership, Services Utilization, and Financial Report of Medical and Dental Services, 1994-1998. A Report for ©Oregon Health Forum; 1999.

Lierman WK, McFarland BH. Clinical and Market Benefits of Extending Drug Patent Protection. Drug Benefit Trends. 1999; 11 (4): 5BH–6BH.

TEACHING EXPERIENCE

1988 to present

Adjunct instructor

Marylhurst University Sustainable MBA program:

Teaching areas: Natural resource and environmental economics; ecological economics; economics of sustainability; healthcare economics; econometrics, and, environmental economics

On-Line Instruction

MBA in Sustainable Business program at Marylhurst University.

Teach environmental, resource, and ecological economics and quantitative courses in MBA in Sustainable Business program.

In-class Instruction

MBA in Sustainability program at Marylhurst University.

Teach environmental, resource, and ecological economics and quantitative courses for MBA in Sustainable Business program.

Previous experience: Adjunct instructor at the following universities and colleges:

Arizona State University
Concordia University
George Fox University
Portland State University
Portland Community College
Washington State University – Vancouver
Willamette University
University of Portland

Courses taught:

Microeconomics
Corporate finance
Econometrics
Business forecasting
Managerial economics
Health economics
Macroeconomics
Natural resource economics / environmental / ecological economics

Course Development

- Served on development team for MBA on-line course in sustainable business courses in natural resource economics, research & quantitative methods, and modeling & decision making at Marylhurst University.
- Courses developed:
 - *Research and Quantitative Methods*
Emphasis on quantitative methods, descriptive statistics, computer applications

- *Modeling and Decision-Making*
Emphasis on managerial decision theory and advanced modeling techniques focusing upon managing under uncertainty and risk.
- *Natural Resource Economics*
Focus on the interdependence between human societies, their economies, and the natural ecosystems supporting them.