



University of Washington
Pharmaceutical Outcomes Research and Policy Program
Annual Update
Fall 2003



Graduation, June 2003

Faculty back row: Tom Hazlet, David Veenstra, Sean Sullivan, Eric Johnson, Beth Devine
Graduates front row: Dana Hurley, Brian Custer, Kristin Marciante, Denise Boudreau

New Graduates in Pharmaceutical Outcomes Research

MS 2003 - Dana Hurley (PharmD 1997-UW). *"Impact of a structured program to reduce polypharmacy in high risk patients"*. Dana is employed as Clinical Pharmacy Manager at Premera Blue Cross, Seattle.

PhD 2003 - Brian Custer (BS 1990-University of Oregon, MPH 1999-UW). *"Blood Safety and Resource Allocation: Economic Analyses of Donated Blood Safety Initiatives"*. Brian has accepted a post-doctoral position in San Francisco at the Blood Centers of the Pacific where he is working as a research scientist.

PhD 2003 - Kristin Marciante (BS 1994, MPH 1995-Emory University). *"Modeling the Long-Term Population-Based Outcomes of Diabetic Retinopathy"*. Kristin is completing a post-doctoral fellowship at the Cardiovascular Health Research Unit, UW Medical Center.

PhD 2002 - Denise Boudreau (BS 1992, MS 1996-University of Rhode Island). *"The Association between HMG-CoA Reductase Inhibitor Use and Breast Cancer Risk"* and *"A Validation Study of Patient Interview Data and Pharmacy Records for Antihypertensive, Statin and Antidepressant Medication Use"*. Denise is employed as a research scientist with the Center for Health Studies, Group Health Cooperative of the Puget Sound.

MS 2003 - Karen Smith (not pictured) (BA 1981-Sweet Briar College, BS Pharm -1986 University of Montana). *"Accuracy of Pharmacy Claims Database 'Days Supply' Measure and its Effect on Continuous Medication Adherence Measures in Type 2 Diabetes"* Karen is pursuing her PhD at the University of Arizona.

Fellow - Kavita Patel (not pictured) (PharmD, MBA 2001-Drake University). Kavita completed her post-doctoral fellowship in Pharmacoeconomics and Outcomes Research in June 2003. Her fellowship was sponsored by Roche Global Pharmacoeconomics, Nutley, NJ. She is a project manager for Roche Global Health Economics and Strategic Pricing, Nutley, NJ and is currently working on hepatitis C therapeutics.

Welcome to New Faculty

Will Hollingworth, PhD, was appointed as adjunct research assistant professor in the Fall 2002. Will recently completed his post-doctoral fellowship in health services research, while a visiting scholar at UW. Prior to that, Will completed his PhD in health economics at the University of Cambridge. Will also has an appointment in the UW Department of Radiology. Will's interests are in determining the cost-effectiveness of imaging technologies, using decision analysis to evaluate clinical guidelines, studying the validity and responsiveness of preference-based outcome measures in clinical trials, and collecting and analyzing stochastic cost data alongside randomized controlled trials.

Welcome to New Students

PORPP welcomed two new students this Fall. **Ron Caldwell**, a PhD student in economics, will be pursuing an MS in Pharmaceutical Outcomes. **Jonathan Campbell, MPH** (biostatistics), will be pursuing his PhD.

Two new PhD students also joined us in the fall of 2002. **Jennie Best, MA** (economics) joined PORPP from Roche Global Health Economics Group where she conducted research and managed economic programs for drugs in development. **Lisa Meckley, BA** (public health natural sciences) joined PORPP from Johns Hopkins University.

Appointments and Promotions

In May 2003 the UW School of Pharmacy bid a fond farewell to long-time faculty member and Dean Emeritus, **Milo Gibaldi**. Milo has "retired" to Midwestern University of Downer's Grove, Illinois, where he will undoubtedly continue to make significant contributions to the profession, while he and his wife enjoy living closer to family. Milo's legacy at UW is going strong!

Penny Evans was promoted to Program Operations Specialist in April 2003. Penny is responsible for administrative components of the PORPP program, and the PORPP graduate program. She is also responsible for professional meeting planning. Penny has been with the Department of Pharmacy for 12 years and has worked with the PORPP program since its inception in 1995.

Jacqueline Gardner was promoted to full professor in July 2003.

Eric Johnson has recently been appointed as Affiliate Assistant Professor of Pharmacy. Eric, who originally joined the PORPP faculty in December 1999, is orienting his career path toward epidemiology research in the healthcare industry setting. Eric is continuing his involvement in the PORPP graduate teaching program and in the mentoring and advising of PORPP graduate students.

Andy Stergachis has been appointed a member of the core faculty for the Northwest Center for Public Health Practice, an academic center for public health preparedness, School of Public Health and Community Medicine, UW.

Focus on Faculty Research

Dave Blough is studying the effect of missing data in longitudinal studies on the incremental cost-effectiveness ratio. His

simulation study looks at a number of missing value mechanisms, distributional assumptions and imputation techniques, and will make comparisons of various combinations of these factors on the empirical confidence level for nominal 95% confidence intervals for the incremental cost-effectiveness ratio. For this work, Dave is the recipient of the 2003 *Faculty Research Starter Grant in Health Outcomes* from the Foundation of the Pharmaceutical Research and Manufacturers Association.

Beth Devine is working in the area of patient safety and is characterizing the epidemiology of medication errors in the ambulatory setting, comparing data pre- and post-implementation of an ambulatory computerized prescriber order entry system. Her work is supported by the Merck Foundation, the ASHP Research & Education Foundation and the American Medical Group Association.

Jacqueline Gardner is studying the improvements made to contraceptive practice and delivery through community pharmacies. Her project is funded by the National Institute for Child Health and Human Development of the National Institutes of Health.

Will Hollingworth is studying a series of questions related to the occurrence of damage to carotid or vertebral arteries as a consequence of blunt neck trauma including the accuracy of computed tomography angiography in this population, trends in the utilization of imaging, and creating a cost-effectiveness model for early imaging for blunt injury. Separately, Will is a co-investigator on an efficacy and safety trial of percutaneous vertebroplasty, funded by the National Institute of Arthritis and Musculoskeletal and Skin Diseases.

Scott Ramsey and **Sean Sullivan** were both investigators in the National Emphysema Treatment Trial Research Group, which conducted the study of the cost-effectiveness of lung-volume reduction surgery for patients with severe emphysema. The results of this landmark trial were published in the NEJM in spring of 2003.

Andy Stergachis is focusing his current efforts on pharmaceutical issues in emergency preparedness and response. His specific projects include providing executive training for public health leaders on bioterrorism preparedness and response, curriculum development for a Master's in Strategic Planning for Critical Infrastructures, and expanding coverage to American Indian and Alaskan Native tribes. Andy's work is sponsored by the Centers for Disease Control, the Washington National Guard and the Health Resources and Services Administration of the Department of Health and Human Services.

Sean Sullivan continues to contribute to the refinement of the Guidelines for Formulary Submission, sponsored by the Academy of Managed Care Pharmacy (AMCP). Version 2.0 of the AMCP Guidelines was released in October 2002.

Dave Veenstra's primary research interests are the clinical, economic, and policy implications of pharmacogenomic-based drug therapies. His projects include studying the association between drug metabolizing enzymes and adverse drug reactions, estimating the cost-effectiveness of pharmacogenomic interventions, and evaluating the impact of pharmacogenomics on the health care system and pharmaceutical industry. He is currently pursuing funding with the National Human Genome Research Institute.

Teaching Innovations

Jacqueline Gardner is co-course master for a newly offered class entitled “*Topics in Women’s Health*”. **Jacqueline** also manages the Pharmacy Management Certificate Program for the PharmD students, and works closely with the UW School of Business to offer students training in accounting, marketing and leadership. **Tom Hazlet** has joined **Jacqueline** in teaching a seminar class entitled “*Topics in Drug Safety*”, formerly taught by **Milo Gibaldi**. During the spring of 2003 **Andy Stergachis** led the PORPP weekly Graduate Seminar in a series on “*Strategic Factors Driving the Pharmaceutical Industry*”. The series provided an opportunity for graduate students and faculty alike to analyze the success of a hypothetical merger of a pharmaceutical industry giant and a small biotechnology company.

Scholarships and Fellowships

PhD students **Jennie Best**, **Debbie Atherly**, **Scott Strassels**, and **Matt Kerrigan** have received pre-doctoral fellowships for the years 2002-2004 from Roche, Novartis, Purdue and Aventis, respectively. **Ron Caldwell** has received a pre-doctoral fellowship from Sanofi-Synthelabo for 2003-2005. PhD student **Thy Do** is recipient of the UW Magnuson Scholar Award (2002-2003). **Lisa Meckley** is recipient of the Achievement Reward for College Scientists (ARCS) for 2002-2005. Three students received support for their 2003 summer research projects. **Lisa Meckley** received support from Organon Pharmaceuticals to conduct research at Organon in Oss, The Netherlands, while incoming student **Ron Caldwell** worked in Paris, France with Sanofi-Synthelabo. As part of her fellowship, **Debbie Atherly** spent several weeks in Mozambique working on her dissertation research.

New Fellowship Opportunity

PORPP is currently inviting applicants for a post-doctoral fellowship in outcomes research focused on the use of healthcare technology assessment to improve decision-making. This is a 2-year position supported by Eli Lilly Global Outcomes Research. The successful applicant will have the opportunity to spend several months at Lilly in Indianapolis, IN.

Honors and Awards

Jacqueline Gardner received the *Gibaldi Excellence in Teaching Award* for the UW School of Pharmacy during graduation ceremonies in June 2002. She is also recipient of the 2003 *Faculty Liaison Recognition Award* from the National Community Pharmacists Association, for her sustained excellence in pharmacy administration and for outstanding service to community pharmacy. **Tom Hazlet** won honorable mention in the American Association of Colleges of Pharmacy’s *Innovations in Teaching Competition*, for his “Fix the Law” project. Tom and his colleagues (**Karen Smith**) presented their poster at the AACP Annual Meeting in July 2003 in Minneapolis, MN. **Mitch Higahsi** (PhD in Pharmaceutical Outcomes 2002, UW),

Dave Veenstra and co-investigators received the *Drug Therapy Research Award* given by the American Society of Health-System Pharmacists in the fall of 2003. The award was for Mitch’s dissertation work entitled “*The Association Between CYP2C9 Genetic Variants and Anticoagulation-Related Outcomes During Warfarin Therapy*” (JAMA. 2002 Apr 3;287(13):1690-8). **Will Hollingworth** received the *Research Trainee* prize awarded by the Radiological Society of North America (2003) for his abstract and oral presentation entitled “*Screening for blunt cerebrovascular injury: Evaluating the quality and accuracy of multidetector computed tomographic angiography*”. **Nina Oestreicher** was awarded the *2003 Pre Doctoral Fellowship in Health Outcomes* from the Foundation of the Pharmaceutical Research and Manufacturers Association. Nina’s award was presented at the 8th Annual International Meeting of the International Society for Pharmacoeconomics and Outcomes Research in May 2003. **Andy Stergachis** received the *2003 Joseph B. Wiederholt Prize* for the Best Published Paper in Economic Social and Administrative Sciences, American Pharmaceutical Association.

UW School of Pharmacy Corporate Advisory Board

Each October Dean Sid Nelson hosts a meeting of The UW School of Pharmacy Corporate Advisory Board. This strategic partnership was created to discuss areas of common interest between faculty involved in pharmaceutical research and education and corporate members of the pharmaceutical industry. Again this year, the group will meet to brainstorm, with the goal of strengthening School of Pharmacy graduate programs to meet the needs of colleagues in the pharmaceutical industry. PORPP members of the 2003 Corporate Advisory Board are:

Marc L. Berger, MD, MBA	Merck & Co., Inc.
Don Buesching, PhD	Eli Lilly & Co.
Anita Chawla, PhD	Genentech
Michael del Aguila, PhD	WA Dental Society
Joseph DiCesare, RPh, MPH	Novartis
Lou Garrison, PhD	Roche
Josh Ofman, MD	Amgen
Sissi V. Pham, PharmD	Glaxo SmithKline, Inc.
Phillip Sarocco, PhD	Aventis
Vipan Sood, RPh, MBA, MRPhS	Sanofi-Synthelabo
Clifford Stocks, MBA	ICOS
David Sugano, MS, DrPH	Schering-Plough

Cost & Outcomes Grand Rounds Series

In August 2002 **David Kreling, RPh, PhD** provided an update entitled “*Trends in Prescription Drug Spending: Factors, Fixes and Future*”. During the month of June 2003, PORPP hosted three visiting scholars. **Elisabeth Fenwick, MSc, PhD**, from the University of York, presented a lecture introducing “*An Iterative Framework for Health Technology Assessment using Bayesian Statistical Decision Theory*”. **Mike Drummond, PhD** and **Mark Sculpher, PhD**, both faculty members at the Centre

for Health Economics at the University of York, presented companion seminars titled "Using Economic Evaluation in Drug Reimbursement/Coverage Decisions" and "Economic Evaluation for the National Institute for Clinical Excellence: Opportunities and Challenges", respectively.

Conferences and Symposia

PORPP's Annual Fall Clinical Excellence Conference, this year titled "Clinical Management of Allergic, Respiratory & Infectious Diseases" took place on Saturday, October 18th in Mary Gates Hall on the UW campus. PORPP co-sponsors this conference with the UW Schools of Medicine and Nursing. Attendees included practicing clinicians from the Puget Sound area.

PORPP faculty, in conjunction with the staff from the Foundation for Managed Care Pharmacy, have continued to offer the well-received training symposia called the *AMCP Format for Formulary Submission Guidelines*.

With generous support from Sanofi-Synthelabo, a series of pharmacoeconomic training sessions have been given the past two years, to teach managed care professionals how to critically evaluate and interpret pharmacoeconomic studies to determine the value of pharmaceuticals for drug purchasing and formulary considerations.

Advisory Panels, Corporate Boards and Public Service

Beth Devine completed a five-year term on the executive committee of the Section of Clinical Specialists and Scientists of the American Society of Health-system Pharmacists.

Jacqueline Gardner is a member of the FDA Advisory Panel on Drug Safety and Risk Management, Subcommittee of the Pharmaceutical Sciences Advisory Committee.

Eric Johnson is a member of the FDA Gastrointestinal Drugs Advisory Committee.

Scott Ramsey is Chair of the FDA Medical Devices Dispute Resolution Panel; FDA Center for Devices and Radiologic Health.

Sean Sullivan is the current president of the International Society of Pharmacoeconomics and Outcomes Research.

Andy Stergachis is Chair of the Special Emphasis Study Section on Centers for Education & Research in Therapeutics, for the Agency for Healthcare Research and Quality (AHRQ) and a member of the Health Systems Research Study Section for AHRQ.

Donald Patrick is currently on sabbatical at the Food and Drug Administration.

Recent Publications

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