About the Contributors

Andre W. Kushniruk is an associate professor and director of the School of Health Information Science at the University of Victoria. Kushniruk conducts research in a number of areas including: evaluation of the effects of technology, human-computer interaction in health care, and other domains as well as cognitive science. His work is known internationally and he has published widely in the area of health informatics. He holds undergraduate degrees in psychology and biology, as well as an MSc in computer science and a PhD in cognitive psychology. He focuses on developing new methods for the evaluation of information technology and studying human-computer interaction in health care and he has been a key researcher on a number of national and international collaborative projects.

Elizabeth M. Borycki teaches health information science at the School of Health Information Science at the University of Victoria. She has a unique blend of industry, consulting, and academic experience. She has worked on the implementation of electronic health record systems in major hospital settings. She has an MS in nursing and has worked in healthcare and health informatics positions related to improving use of information in healthcare for more than 10 years. She completed her doctorate degree in management and organization in healthcare at the University of Toronto and is involved in numerous national and international projects in health informatics, with a focus on understanding the impact of information technology on healthcare work and information processing.

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James Anderson, PhD, earned a BES in chemical engineering, an MSE in operations research and industrial engineering, an MAT in chemistry and mathematics, and a PhD in education and sociology from the Johns Hopkins University. He is the former director of the Division of Engineering of the Evening College at Johns Hopkins University. At Purdue, he has served as assistant dean for analytical studies of the School of Humanities, Social Sciences and Education (1975-1978, director of the Social Research Institute (1995-1998), and co-director of the Rural Center for AIDS/STD prevention (1994-2006). He is the author/co-author of five books including: Evaluating the Organizational Impact of Health Care Information Systems; Ethics and Information Technology: A Case-Based Approach to a Health Care System in Transition; and Evaluating Health Care Information Systems: Methods and Applications.

Kevin Anstrom's research interests include: clinical trial design, cost-benefit analysis, health economics, semiparametric estimation, inverse probability weighted estimation, and propensity score techniques. Anstrom holds a PhD in statistics from North Carolina State University. He also has an
MS in biostatistics from the University of North Carolina at Chapel Hill. He has worked at the Duke Clinical Research Institute for more than 10 years and studied a variety of techniques used to reduce the bias caused by non-random treatment selection and missing data.

Jose F. Arocha is an associate professor in the Department of Health Studies and Gerontology. He has extensive experience in the human aspects of health informatics, including the study of how health professionals and users of health services understand and use health information to make decisions. His current interests include the study of the application of cognitive theories to the evaluation and development of information systems, including the investigation of cognitive aspects of design and utilization of health information by lay people. Other interests include the development of methods for the in-depth investigation of health comprehension and decision making.

John Bosomworth graduated from the University of British Columbia, Faculty of Medicine in 1968. He served as a family practitioner in Princeton, B.C., Canada. Currently, he is a locum and emergency physician in Princeton. He is also the clinical instructor in the Faculty of Medicine in the Department of Family Practice at the University of British Columbia, Vancouver, B.C. He recently participated as a practitioner trainee in the CIHR health informatics PhD/postdoc strategic training program.

Niels Boye, MD, is a specialist in internal medicine and endocrinology by education. He started out as a scientist in molecular medicine more than 30 years ago, but from the introduction on the market of the IBM personal computer around 1982 his focus gradually shifted from laboratory methods to computer methods for science and in the last 10 years for support of clinical activity and the delivery of health care. He is working as a clinician and in the field of ICT as teacher, scientist, developer and evaluator in international and national relationships.

Jytte Brender’s scientific focus is on the theoretical and practical aspects of quality management and technology assessment, the topic of her European Doctorate and PhD in medical informatics (1997). Presently, she is an associate research professor. Her research and interest range from constructive assessment (dynamic, self-reflective, purpose-driven and corrective evaluation), to holistic analysis of information flow, covering the breadth of organizational change and including the theoretical aspects of the quality of semantic aspects of medical knowledge. While she is a computer scientist, all things human-centered interest her, as does the multifaceted realm of asymmetric abstraction. Her latest work is a 360-page handbook of evaluation methods for IT-based solutions. She is author/co-author of five books, has an extensive list of peer-reviewed publications in scientific journals, books, and technical reports, numerous invited presentations and two keynotes. Furthermore, she is (co-)editor of proceedings of international congresses, workshops, and one special issue of a scientific journal. She is editorial board member of IJMI.

John Copen is an assistant professor of psychiatry at the Northern Ontario School of Medicine. He is a Royal College certified psychiatrist, practicing privately and for multiple agencies and hospitals. He completed his psychiatric residency at the University of Ottawa, followed by a clinical-research fellowship in telemedicine and addictions at the University of Western Ontario, post-doctoral training and research via the CIHR health informatics PhD/postdoc strategic training program, and is busy completing his MS degree in health information science via the University of Victoria distributed
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Graduate program. He is president and CEO of Med-Nexus Inc., a private Canadian corporation that is developing advanced adaptive health knowledge translation and management software for the semantic Web and other applications.

Karen Day, PhD, has a special interest in health informatics, change in health organizations and how we adapt to change when it is linked to health IT projects. Her concern about the application of theory in the workplace, as well as our capacity to learn and adapt as we develop professionally, resulted in her discovery of action research. Her experience in nursing, health service management, health insurance, managed care, and health IT project management is now being used in her role as health informatics co-ordinator at the University of Auckland. Day teaches health informatics principles, knowledge management, and qualitative research. She is also involved in the establishment of a National Institute for Health Innovation. Day is completing her PhD on change management linked to health IT projects using action research.

Tammie Di Pietro, RN, MN, is a doctoral student at the Lawrence S. Bloomberg Faculty of Nursing at the University of Toronto. Prior to entering the doctoral program, she worked as a staff nurse in the emergency department. Her research interests focus on health informatics, knowledge translation, evidence-based guidelines, geriatrics, emergency medicine, nursing-sensitive patient outcomes and patient safety. Her PhD thesis will explore the impact of a knowledge translation intervention with emergency nurses on the adaptation and implementation of a falls prevention/screening program in the elderly, aged 65 and older.

Diane Doran, RN, PhD, FCAHS, joined the Lawrence S. Bloomberg Faculty of Nursing at the University of Toronto in 1995, where she served as associate dean of research and international relations (2000-2006), interim dean (2005), and is currently a full professor. Dr. Doran is a recipient of the Ontario Premier’s Research Excellence Award and is a fellow of the Canadian Academy of Health Sciences. Her research has been recognized by the Canadian Association of University Schools of Nursing Award of Excellence, and the Dorothy Pringle Research Excellence Award, Sigma Theta Tau International, Lambda Pi Chapter. Her recent research focuses on health informatics, the design and measurement of nursing sensitive patient outcomes, knowledge translation, and patient safety. She is currently engaged in an innovative investigation into the use of handheld devices to improve nurses’ collection, utilization, and communication of health information at the point-of-care. Dr. Doran is a co-investigator with the Nursing Health Services Research Unit in the Lawrence Bloomberg Faculty of Nursing at the University of Toronto. She is a member of the Research and Evaluation Committee of the Canadian Patient Safety Research Institute.

Eric Eisenstein is the 1993 recipient of the American Medical Informatics Association’s Martin Epstein award. After completing a post-doctoral fellowship in clinical economics, he joined the faculty of the Duke Clinical Research Institute where his research has explored relationships between healthcare management practices and the clinical and economic outcomes of patients. Eisenstein has served as principal investigator for phase II, III, and IV economic studies conducted alongside randomized clinical trials in cardiovascular, emergency, public health, and pulmonary medicine. He also serves as co-convenor for the Campbell and Cochrane Economic Methods Group, which seeks to incorporate economic evaluations into systematic reviews of criminal justice, education, healthcare, and social welfare interventions.
Francis Ho is a research fellow in the University of Victoria. He practiced family medicine in Ontario for 26 years before devoting his time to medical informatics research. He is an experienced Webmaster and programmer, with a diploma in education program for software professionals from the University of Waterloo. He is studying for an MSc in healthcare informatics from the University of Bath, UK, and participating in the CIHR HI PhD/postdoc strategic training program in Canada. His research interests include Internet usability studies, consumer health informatics, palliative care informatics and medical data translation.

Laurie Hoffman-Goetz is a professor in the Department of Health Studies and Gerontology. She received her PhD from the University of Michigan (1979) and an MPH from The George Washington University School of Public Health (1997). From 1995-1997, she was a Cancer Prevention Fellow at the National Institutes of Health/National Cancer Institute focusing on dissemination of cancer information for underserved and minority populations. She teaches health and risk communication and conducts research on the impact of health literacy on understanding cancer risk information, identification of best practices for dissemination of cancer information to diverse populations, media framing of health risks, and consumer health informatics.

Joseph Kannry, MD, has dual appointments in IT and medicine at Mount Sinai Medical Center in New York. He is chief for the division of clinical informatics at Mount Sinai Center and director of the Center for Medical informatics and Director of IT for the Department of Medicine. Dr. Kannry is an assistant professor in medicine and a practicing board certified Internist. In 2004, Dr. Kannry successfully led the Ambulatory EMR Selection process for Mount Sinai Medical Center and in 2005 was the informaticist in charge of EMR implementation.

Karim Keshavjee is a family physician with a part-time practice in Mississauga. He spent five years in the pharmaceutical industry managing clinical trials and an electronic drug utilization project. He is currently an associate member of the Centre for Evaluation of Medicines, an independent academic research institute affiliated with McMaster University in Hamilton, Ontario. Keshavjee is also a physician consultant to Canada Health Infoway for the pan-Canadian electronic prescribing project and the inter-operable electronic health record project. He is also a mentor on a pan-Canadian health informatics research training program for post-graduate students. He has recently licensed EMR implementation methodology from McMaster to assist primary care physicians be more successful with EMR implementations and he has also licensed the P-PROMPT™ service to help primary care physicians be more successful with managing preventive services and chronic disease management.

Kendall Ho is the associate dean in the Division of Continuing Professional Development and Knowledge Translation and executive director of Technology Enabled Knowledge Translation Investigative Centre of the Faculty of Medicine at the University of British Columbia. He is a medical consultant to the Division of Knowledge Management and Technologies, Ministry of Health, Province of British Columbia, and assists the Ministry in the provincial engagement of health professionals in e-health adoption. His research focuses on the innovative adoption of information technologies in health services and policy translation. He helps develop medical training in electronic health record uptake, and introduction of health informatics to life sciences students at UBC. He is a member of the Canada Health Infoway Academic advisory committee and co-chair of the change management evaluation committee. He is
a member of the Universitas 21 e-health steering committee, and chairs the interprofessional eHealth committee. He is a practicing emergency physician in Vancouver, B.C., Canada.

**Beste Kucukyazici** is a PhD candidate in management science at McGill University. She received her BSc in industrial engineering, an MSc in system engineering, and is currently studying her PhD with the research interests of stochastic modeling of health care systems, decision analytical modeling and process improvement in health care via technology integration. She is also a research and teaching assistant in management science in the Department of Management at McGill University. She recently participated as a practitioner trainee in the CIHR Health Informatics PhD/postdoc strategic training program.

**Shigeki Kuwata** has a PhD from Osaka University in Japan, where he had conducted research on healthcare databases, inter-hospital networking and their related security issues as staff of Department of Medical Information Science at Osaka University Hospital. Since 2003, he has been an assistant professor in Tottori University as well as a deputy director of Division of Medical Informatics at Tottori University Hospital. His major research interests include development of hospital information systems, implementation of electronic patient records and risk/quality management in hospital.

**Craig E. Kuziemsky** is an assistant professor in the Telfer School of Management at the University of Ottawa. Craig completed his PhD in health information science at the University of Victoria in 2006. His research interests include applying methodological approaches to understanding how health information systems (HIS) impact clinical practice in day-to-day settings. Craig’s research has focused on the development and use of ontologies and problem solving methods as a means of understanding and contextualizing end user needs for HIS design, implementation and evaluation.

**James Lai** has been a full service family physician in Vancouver since 1986 and practices in a fully implemented EMR primary care office. He recently participated as a practitioner trainee in the CIHR health informatics PhD/postdoc strategic training program. He is a representative on a number of provincial and local health authority e-health strategic planning committees, working group member on IT projects in areas of privacy, end-user networking, and physician information Web portal design, and currently also serves as an IT advisor to the B.C. Practice Support Program for primary health care reform. He is affiliated with the Faculty of Medicine at the University of British Columbia as clinical associate professor in the Department of Family Practice.

In addition to his research, **David Lobach** is a practicing endocrinologist and internist, a fellow of the American College of Medical Informatics and in the American College of Physicians. Dr. Lobach has served on several national advisory committees related to informatics including the committee of the Office of the National Coordinator for Health Information Technology for the development of *A National Roadmap for National Action on Clinical Decision Support*. His research interests in medical informatics include: development and evaluation of clinical decision support systems, human-computer interface design, and electronic health record systems.

**Christian Nøhr**, MSc, PhD, is an associate professor of technology analysis and health care planning at Department of Development and Planning, Aalborg University, Denmark. Christian Nøhr has been
working with health care informatics for more than 20 years. His main research field is organizational change and implementation of information systems in health care. He has been project manager of several national research projects, and participated in a number of European projects. He is currently a member of the EHR Observatory—an ongoing project, which monitors the development and implementation process of electronic health record systems in Denmark.

**Tony Norris** is a professor of information systems at Massey University in Auckland, New Zealand. His research interests are in the strategic role of information technology and information management in the health sector and include the cultural and business issues associated with the application of IT, data quality, privacy, and telehealth. Professor Norris is the author of the book, *Essentials of Telemedicine and Telecare*, published by Wiley in 2002. He is also the author of more than 35 research papers in the field of health informatics as well as numerous papers in his first research areas of chemistry and mathematics.

**Maqui Ortiz** is a graduate of the North Carolina School of Science and Mathematics and is currently enrolled in the college transfer program at Alamance Community College. Her research at Duke University has focused on complex interventions in health care and education and has highlighted their economic implications. She has been a member of a wide spectrum of projects including economic analysis of health interventions, analysis of systematic review structure, and the integration of health-related economic analysis methodology into non-health fields. With Dr. Eisenstein, she recently completed a systematic review of economic analyses and health information technology evaluation studies and is currently working on a Campbell Collaboration review of a novel intervention for children with early language learning problems.

**Morgan Price** is a family physician practicing in British Columbia. He is a clinical assistant professor at the University of British Columbia in the Department of Family Practice, where he is also lead faculty for informatics. Price is an adjunct professor in computer sciences at the University of Victoria. He is currently completing a PhD in health information science exploring the application of cognitive usability models and methods in the design and evaluation of health information systems.

**Denis Protti** was the founding director of the University of Victoria’s School of Health Information Science in 1981, a position he relinquished in 1994. His research and areas of expertise include: national health information management and technology strategies, electronic health records, primary care computing, and evaluating clinical information systems. He has hundreds of publications in books and journals and has given even more presentations to a wide range of audiences around the world. He is on the advisory board of a number of overseas academic programs in Health Informatics. He regularly advises and sits on expert panels for health care organizations and government agencies in both Canada and abroad.

**Nola M. Ries**, BA (Hons.), LLB, MPA, LLM, teaches in the areas of health law and privacy law at the University of Victoria School of Health Information Science and Faculty of Law. She is also affiliated as a research associate with the Health Law Institute, University of Alberta. Her work addresses legal issues in health information and privacy, with particular focus on electronic health records and use of personal information for health research. Other areas of research include public health law, legal issues
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in health system reform and regulation of genetics and biotechnology. Professor Ries is a member of the Bar of British Columbia and has practiced constitutional and human rights law.

**Tina Saryeddine** is a doctoral student in the Department of Health, Policy, Management and Evaluation in the Faculty of Medicine at the University of Toronto and a project manager/senior planner at the GTA Rehab Network. As project manager/senior planner at the GTA Rehab Network, she works with multi-stakeholder groups in the areas of knowledge transfer, system integration and musculoskeletal rehabilitation. Her projects have received several grants and awards such as the Ted Freedman Award for Innovation in Education, the Hygeia Award, and a grant from the Canadian Nurses Foundation and the Change Foundation. She holds an MS in health administration from the University of Ottawa and undergraduate degrees in sociology and biology. Saryeddine is a member of the Canadian College of Health Service Executives from which she holds the Certified Health Executive designation. Prior to joining the GTA Rehab Network, Saryeddine was awarded a one year Administrative Fellowship, which she completed at the Rouge Valley Health System.

**Vivian Vimarlund** is an associate professor (faculty lecturer and docent) in the Department of Computer and Information Science at Linköping University, Sweden. She was awarded a PhD in informatics at the Institute of Technology in October 1999. Vimarlund was a postdoctoral fellow and research scientist at UCD, Davis. She also worked as consult and scientist at the Systems Research and Applications Corporation, SRA International, Inc., in Washington, D.C. Vimarlund is currently member of the national reference group of experts for the EU-PUBLIN consortium, reviewer for international journals and member of the OECD expert group: models to evaluate, and incentives for the implementation of information, communication technologies in the health sector.