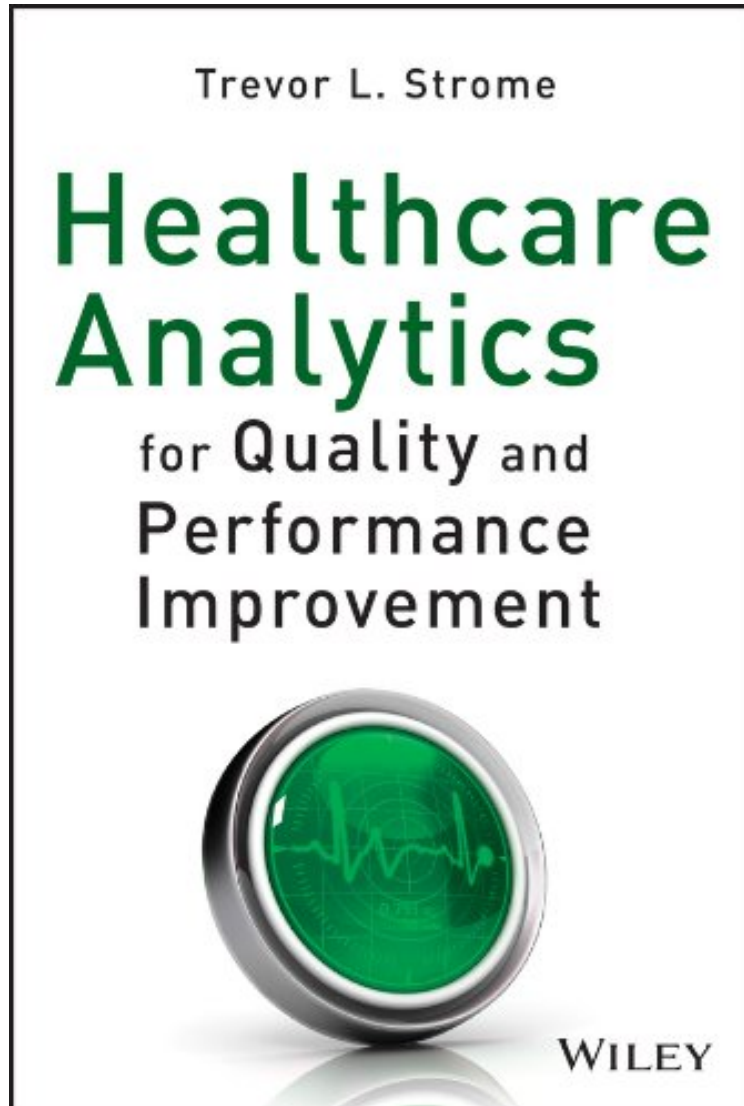


Healthcare Analytics for Quality and Performance Improvement

Trevor L. Strome

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Improve patient outcomes, lower costs, reduce fraud—all with healthcare analytics. Healthcare Analytics for Quality and Performance Improvement walks your healthcare organization from relying on generic reports and dashboards to developing powerful analytic applications that drive effective decision-making throughout your organization. Renowned healthcare analytics leader Trevor Strome reveals in this groundbreaking volume the true potential of analytics to harness the vast amounts of data being generated in order to improve the decision-making ability of healthcare managers and improvement teams. Examines how technology has impacted healthcare delivery. Discusses the challenge facing healthcare organizations: to leverage advances in both clinical and information technology to improve quality and performance while containing costs. Explores the tools and techniques to analyze and extract value from healthcare data. Demonstrates how the clinical, business, and technology components of healthcare organizations (HCOs) must work together to leverage analytics. Other industries are already taking advantage of big data. Healthcare Analytics for Quality and Performance Improvement helps the healthcare industry make the most of the precious data already at its fingertips for long-overdue quality and performance improvement.

From the Inside Flap Today's healthcare organizations (HCOs) are under intense regulatory and financial pressures to improve quality, efficiency, patient safety, patient satisfaction, and positive outcomes. To achieve these goals, HCOs are increasingly turning to new technology and information management solutions, multidisciplinary problem-solving teams, and innovative quality management methodologies. In Healthcare Analytics for Quality and Performance Improvement, you'll discover the analytical tools for leveraging healthcare information technology (HIT), data from source systems, and proven quality improvement (QI) methodologies to make more insightful, fact-based decisions for your HCO. Author Trevor Strome shares his experience developing and implementing innovative analytics tools for use in HCOs to illustrate how and why clinical, business, quality improvement, and technology professionals must foster an innovative and collaborative spirit in their fields in order to achieve safer, more effective, and efficient patient care. Using real-world examples throughout, Healthcare Analytics for Quality and Performance Improvement provides the common ground of shared knowledge and resources necessary for healthcare teams to drastically reduce costs, improve patient outcomes, enhance productivity, and work together more cohesively. In Healthcare Analytics for Quality and Performance Improvement, you'll learn how to: Measure quality and value within an HCO Fuse analytics into QI methodologies, including PDSA, Lean, and Six Sigma Convert data into metrics and indicators to monitor and evaluate performance and quality Coordinate analytics with QI activities and teams for gaining better insight Achieve analytics excellence within an HCO Ensure that data and privacy are held secure Use analytics appropriately and to its maximum effectiveness Healthcare Analytics for Quality and Performance Improvement discusses several effective approaches for quality improvement—PDSA, Lean, and Six Sigma—and how various frameworks and/or QI challenges dictate different analytical approaches. Its companion website—<http://HealthcareAnalyticsBook.com>—includes downloadable forms, templates, and other documents as well as links to resources, references, and other information related to the field of healthcare analytics. Achieve higher quality, performance improvement, and safety within your healthcare organization with the accessible guidelines found in Healthcare Analytics for Quality and Performance Improvement.

From the Back Cover Praise for Healthcare Analytics "Trevor Strome's new book Healthcare Analytics is a thorough and accessible guide to all healthcare organizations on how to improve their analytics maturity and patient care. Trevor's comprehensive understanding of healthcare and what is possible with analytics bridges a gap few have dealt with before. Healthcare Analytics is an essential guide for every healthcare organization regardless of where they are on their analytics journey." —Laura Madsen, MS, BI Evangelist and Healthcare Services Lead, Lancet Software; author of Healthcare Business Intelligence: A Guide to Empowering Successful Data Reporting and Analytics "Analytics is becoming a mission crucial tool that informs decision making at all levels of the healthcare organization. This insightful book explores the critical role healthcare analytics will play in quality and performance improvement." —Waco Hoover, MBA, Chief Executive Officer, Institute for Health Technology Transformation "Finally, someone who really knows the importance of healthcare analytics writes a book that is a must-read for every healthcare board member. The main reason healthcare is in such a mess today is that healthcare governing bodies are not insisting on measuring what goes on in their institutions. This easy-to-read book will enlighten any leader/manager/supervisor with a keen interest in quality improvement to take the necessary next bold steps and fix these ailing organizations that are wasting millions of dollars and harming patients. Bravo, Trevor Strome, for offering a way forward." —Louis Hugo Francescutti, MD, PhD, FRCPC, FACPM, ICD-D, CCPE, MPH, FRCP(Ire.), FRCP(Edin.) Professor, University of Alberta, Emergency Preventive Medicine Physician "Trevor Strome succeeds in placing the analytics practitioner as an integral member of the healthcare team. In this book, he identifies that the attributes leading to successful implementation of analytics are complex and multidisciplinary, and yet, does this in a simple and logical format. It reflects his successful interaction with clinical providers and a deep understanding of their roles." —R. Lobato de Faria, Chief Medical Officer, SOGH "Strome's book is timely, relevant, and essential reading for healthcare administrators and the increasingly large number of healthcare professionals involved in medical informatics. It is an excellent and highly intelligent introduction to the powerful field of healthcare analytics,

and clarifies the processes required to improve both quality and health outcomes." —Dr. Diamond Kassum, MA, MB, BChir, FRCS, FRCSC, Chief Medical Information Officer, Manitoba eHealth

About the Author

TREVOR L. STROME, MSc, PMP, is the Analytics and Process Improvement Lead for the Winnipeg Regional Health Authority Emergency Program. He is also Assistant Professor in the Department of Emergency Medicine, Faculty of Medicine, University of Manitoba, where he participates in clinical and operations research projects and teaches statistics, informatics, and quality improvement. Trevor has coauthored three book chapters and numerous articles on healthcare topics. He is an in-demand conference speaker and the founder and editor of a popular blog on the topic of healthcare analytics.