
Contents

Foreword	ix
JAMES H. GOODNIGHT	
Preface.....	xiii
About the Editor.....	xvii
Contributors.....	xix
1 An Introduction to the U.S. Healthcare Industry, Information Technology, and Informatics.....	1
STEPHAN KUDYBA AND RICHARD TEMPLE	
2 Quality Time in Healthcare: Strategies for Achieving National Goals for Meaningful Use of Health Information Technology.....	19
MICHAEL H. ZAROUKIAN AND PETER BASCH	
3 A Project Management Framework of Healthcare Informatics Initiatives.....	43
CHRISTI RUSHNELL AND MARY BEATTIE	
4 Nursing Roles in the Implementation of Clinical Information Systems	85
TERRY MOORE	
5 ARCHITECTING COMPUTER PHYSICIAN ORDER ENTRY (CPOE) FOR OPTIMAL UTILIZATION	105
JAMES F. KEEL AND D. ARLO JENNINGS	
6 Knowledge Translation and Informatics in Healthcare.....	129
ANN MCKIBBON	
7 Self-Service Technology in Healthcare.....	145
TOMAS GREGORIO	

8	The World of Health Analytics.....	161
	JASON BURKE	
9	Enhancing Data Resources and Business Intelligence in Healthcare	181
	STEPHAN KUDYBA AND MARK RADER	
10	Application of Healthcare Informatics to Improving Patient Safety and Outcomes: Learning from the Experiences of Trinity Health	195
	RAJIV KOHLI, FRANK PIONTEK, LARRY SELLERS, TOM MINER, AND PAUL CONLON	
11	Data Mining in Healthcare	211
	WULLIANALLUR RAGHUPATHI	
12	Using Data Mining to Build Alerting Systems for Decision Support in Healthcare	225
	BILLIE ANDERSON, CALI M. DAVIS, AND J. MICHAEL HARDIN	
13	Data Mining Techniques to Enhance Healthcare Cost Savings through the Identification of Abusive Billing Practices and the Optimization of Care Enhancement Services.....	239
	THEODORE L. PERRY, JOHNNY E. GORE, JEFFREY W. ERDLEY, AND JEREMY D. LOWERY	
	Index	255