



Contents

Preface	xi
About the Author	xv
Acknowledgments	xix
Introduction	xxiii
CHAPTER 1 Market Background	1
E-Health	1
How Is Electronic Information Created?	4
Information Technology Considerations	8
How Is Health Information Created?	11
Review of Primary HCC Market Players	13
Patients	13
Providers	14
Third-Party Vendors	14
Payers	14
Review of HCC Secondary Market Players	16
Major Initiative for E-Health	20
Audit Implication Overview	22
CHAPTER 2 Industry Applications	25
Public Uses	26
Private Uses	28
Information Continuum	30
Market Standards and Initiatives	31
Agency for Healthcare Research and Quality	31
Health Level Seven	36
Certification Commission for Healthcare Information Technology	39
Department of Defense Records Management Program	41
Association of Records Managers and Administrators	41
Audit Implication Overview	42

CHAPTER 3	Impact of E-Health on Case Management	45
	Financial Picture	47
	Hospital-Based FCM Application	48
	Background Information and Provider Perspective	49
	Problem: Getting Paid Correctly for Services Provided	50
	Findings	52
	Additional Findings	56
	Summary	57
	Consumer-Based FCM Application	57
	Market Problems: The Industry as It Operates Today	59
	Consumer FCM Model	60
	Healthcare Portfolio Application	64
	Virtual Case Management	67
	VCM Payer Model	68
	VCM Patient Model	69
	VCM Hospital Model	69
	VCM Physician Model	70
	VCM Allied Health Services	70
	VCM Nontraditional Health Services Model	71
	VCM Other Business Services Model	71
	Audit Implication Overview	72
CHAPTER 4	Data in an E-Health Environment	73
	Data Library	75
	Data Intelligence	78
	New Data	79
	More New Data	81
	Processed Data	81
	Data Warehouse	82
	Audit Implication Overview	82
CHAPTER 5	Algorithms	85
	Background	85
	Understanding Algorithms	86
	Data Elements	89
	Case Study	91
	Algorithm Selection	101
	Auditor Implication Overview	105
CHAPTER 6	Data-Driven Health Decisions in an E-Health Environment	107
	Knowledge Models	109
	Primary Healthcare Continuum	109
	Secondary Healthcare Continuum	122

Information Continuum	123
Third-Party Vendor Knowledge Model	124
Knowledge Models for White-Collar and Organized Crime	128
Sample Identity Theft Case	129
Medical Identity Theft	129
Medical Identity Theft—Definition	131
How Medical Identity Theft Occurs	131
Damages to Primary Victims	133
Medical Identity Theft from a Consumer Perspective	134
When the Consumer Is Not Aware	134
When the Consumer Is Involved	134
When an Individual Wants Products or Services	134
Damages to Secondary Victims	136
Medical Identity Theft from an Entity's Perspective	136
Auditor Considerations	137
Sample Fraud Case	138
Sample Pharmaceutical Fraud Case	138
Audit Implication Overview	141
Examples of Worldwide Activity	141
CHAPTER 7 Analytic Tools and Audit Checklists	145
E-Health and Healthcare Business Processes	147
Patient Business Process	147
Problem #1: Financial Case Management Advocacy	148
Problem #2: Clinical Case Management Advocacy	149
Provider Business Process	149
Problem #1: Lack of Electronic Internal Controls	150
Problem #2: Lack of Internal Controls with User Identity	151
Problem #3: Lack of Internal Controls for Services Provided and Charged	151
Payer Business Process	152
Problem #1: Use and Loss of Health Information—Handling Subcontracted Vendors	154
Problem #2: Lack of Insurance—Processing Fraudulent Claims for Enrolled Beneficiaries	154
Plan Sponsor Business Process	154
Problem #1: Employee Working Environments	156
Problem #2: Employer Increase in Healthcare Expenditures	156
Third-Party Vendor Business Process	157
Problem: Increase in Pharmaceutical Expenditures	158
Audit Implication Overview	160

CHAPTER 8	Electronic Health Records	161
	Current E-Health Offerings	161
	Market Evolution	169
	E-Health Content Standards	173
	E-Health Offering Vulnerabilities	175
	Audit Implication Overview	194
CHAPTER 9	Healthcare Portfolio	195
	Health Infomediary Support	199
	PHR Attributes	199
	Future Considerations	202
	Major Market Activity	203
	Audit Implication Overview	204
CHAPTER 10	Conclusions	205
	Market Overview	205
	Market Standards	208
	Market Conflicts	209
	Market Intelligence	209
	Market Audits	210
	Market Directions	211
	Consumer Response to PHRs	212
	Audit Implication Overview	225
Index		227

<http://www.pdfbookshop.com>