
Contents

Foreword	xi
<i>David W. Bates</i>	
Preface.....	xiii
<i>Michael R. Cohen</i>	
Acknowledgments	xxi
Contributors	xxiii

Part I: Preparing for Action

1 Systems Analysis and Redesign: The Foundation of Medical Error Prevention....3	
<i>Lucian L. Leape</i>	
2 Research on Errors in Dispensing and Medication Administration	15
<i>Elizabeth Allan Flynn and Kenneth N. Barker</i>	
3 Health Care Providers' Experiences with Making Fatal Medication Errors	43
<i>Zane Robinson Wolf</i>	

Part II: Understanding the Causes of Medication Errors

4 Causes of Medication Errors.....	55
<i>Michael R. Cohen</i>	
5 Root Cause Analysis of Medication Errors	67
<i>Mary Burkhardt, Caryl Lee, Lesley Taylor, Rodney Williams, and James Bagian</i>	
6 The Role of Drug Names in Medication Errors	87
<i>Michael R. Cohen, George Di Domizio, and Robert E. Lee, Jr.</i>	
7 The Role of Drug Packaging and Labeling in Medication Errors	111
<i>Michael R. Cohen</i>	
8 Error-Prone Abbreviations and Dose Expressions.....	153
<i>Michael J. Gaunt and Michael R. Cohen</i>	

Part III: Preventing Medication Errors: A Shared Responsibility

9 Preventing Prescribing Errors.....	175
<i>Michael R. Cohen</i>	

10	Preventing Dispensing Errors	205
	<i>Michael R. Cohen and Judy L. Smetzer</i>	
11	Preventing Drug Administration Errors.....	235
	<i>Judy L. Smetzer and Michael R. Cohen</i>	
12	Preventing Medication Errors Related to Drug Delivery Devices.....	275
	<i>Judy L. Smetzer and Michael R. Cohen</i>	
13	The Patient's Role in Preventing Medication Errors.....	289
	<i>Stacy A. Aimette, Nancy R. Tuohy, and Michael R. Cohen</i>	

Part IV: Preventing Medication Errors: Specific Medications, Patients, and Conditions

14	High-Alert Medications: Safeguarding against Errors.....	317
	<i>Michael R. Cohen, Judy L. Smetzer, Nancy R. Tuohy, and Charles M. Kilo</i>	
15	Using Technology to Prevent Medication Errors	413
	<i>Matthew Grissinger, Hedy Cohen, and Allen J. Vaida</i>	
16	Preventing Medication Errors in Cancer Chemotherapy	445
	<i>Michael R. Cohen</i>	
17	Preventing Medication Errors in Pediatric and Neonatal Patients	469
	<i>Stuart Levine and Michael R. Cohen</i>	
18	Preventing Medication Errors with Immunologic Drugs.....	493
	<i>John D. Grabenstein and Michael R. Cohen</i>	

Part V: Reducing Risks and Creating a Just Culture of Safety

19	Medication Error Reporting Systems.....	513
	<i>Judy L. Smetzer and Michael R. Cohen</i>	
20	Disclosing Medication Errors to Patients and Families.....	551
	<i>Nancy R. Tuohy and Judy L. Smetzer</i>	
21	Health Care Failure Mode and Effects Analysis	561
	I Introduction to Failure Mode and Effects Analysis.....	561
	<i>J. W. Senders and S. J. Senders</i>	
	II An Application of Failure Mode and Effects Analysis	565
	<i>Judy L. Smetzer and Michael R. Cohen</i>	

III Veterans Health Administration Approach to Failure Mode and Effects Analysis.....	576
<i>Mary Burkhardt, Joseph DeRosier, Erik Stalhandske, and James Bagian</i>	
22 The Clinical Bioethics of Safe Medication Practices.....	587
<i>J. Russell Teagarden</i>	
23 Managing Medication Risks through a Culture of Safety.....	605
<i>Judy L. Smetzer</i>	
Index	655
Color Plates Follow Page.....	120