
Contents

Part I Introduction to Healthcare Simulation

1 History of Simulation 3
Lance W. Bailly

2 Types of Healthcare Simulation: Locations and Training – Who, What, and Where? 13
Jesika S. Gavilanes and Elena An

3 Simulation Methodologies 27
Matthew David Charnetski

4 Simulation Center Personnel 47
Pamela Andreatta

5 Finding the Right Simulation Personnel. 59
Wendy Z. Thomson

6 Professional Development for the Healthcare Simulation Technology Specialist 71
Suzan Kardong-Edgren and Michelle Aebersold

7 Simulation Curriculum Development, Integration, and Operations 83
Lori Lioce and Amelia S. Lanz

8 The Research Process 101
Stormy M. Monks and Rachel Bailey

9 Infrastructure and Simulation Center Design 111
Ferooz Sekandarpoor, Eduardo R. Luevano, and Scott B. Crawford

Part II The Healthcare Simulation Technology Specialist

10 Healthcare Simulation Technology Specialists. 147
Scott B. Crawford, Rachel Bailey, and Kirrian Steer

11 The Healthcare Simulation Technology Specialist and Audio/Video Technology	159
Todd S. Dadaleares and Scott B. Crawford	
12 The Healthcare Simulation Technology Specialist and Educational Constructs in Simulation	189
Kirrian Steer	
13 The Healthcare Simulation Technology Specialist and Healthcare	205
Nikita Joshi, Crystal Miles-Threatt, and Teresa Roman-Micek	
14 The Healthcare Simulation Technology Specialist and Information Technology	231
Eduardo R. Luevano and William Morton	
15 The Healthcare Simulation Technology Specialist and Management	257
Amar Pravin Patel and Jennifer McCarthy	
16 The Healthcare Simulation Technology Specialist and Research	273
Stormy M. Monks	
17 The Healthcare Simulation Technology Specialist and Simulation	285
Lawrence M. Rascon	
18 The Healthcare Simulation Technology Specialist and Standardized Patients	301
Karen L. Lewis	
Part III Technology, Innovation, and Industry	
19 Technology and Innovation	315
Nikita Joshi and Teresa Roman-Micek	
20 Common and Best Practices for Do-It-Yourself Enhancements	339
Robert F. Stump	
21 Role and Goal of Industry in Education and Patient Safety	361
Graham A. Whiteside	
Index	385