

Contents

Part I Reflections

Space and Global Health	3
Camille Wardrop Alleyne	
Universal Health Coverage in Japan: Leveraging Technologies to Ensure Equitable, Affordable, and Quality Health Care for All	7
Satoshi Ezoe	
Georgia’s Success Towards Universal Health Coverage	13
Mariam Jashi and Tamar Tchelidze	
Women, Girls, and STEM	21
Roya Mahboob	
Role of New Media in Advancing Gender Harmony (Gender Equality)	23
Wale Idris Ajibade	

Part II Technology in Advancing Health: Meeting Sustainable Development Goal (SDG) 3 Targets

1 Role of Digital Health, mHealth, and Low-Cost Technologies in Advancing Universal Health Coverage in Emerging Economies	31
Padmini Murthy and Mahtab Naji	
2 Social Media and the Practice of Public Health	47
Amy Ansehl and Jessica Ansehl	
3 The Role of Technology in Women’s Empowerment and Well-Being and Addressing Gender-Based Violence	57
Padmini Murthy and Jonathan Ogulnick	

4	Telehealth and Homecare Agencies	69
	Amy Ansehl and Timothy Leddy	
5	Health Transformation in Saudi Arabia via Connected Health Technologies	83
	Hebah Abdul Aziz ElGibreen	
6	Simple Technology for Menstrual Hygiene Management: A Case Study from Northern Ethiopia	101
	Shewaye Belay, Freweini Mebrahtu, Anne Sebert Kuhlmann, Amanuel Haile, and L. Lewis Wall	
7	Technology and the Practice of Health Education in Conflict Zones	111
	Kamiar Alaei and Arash Alaei	
8	Law, Technology, and Public Health	127
	Denise Scotto	
9	mHealth for Better Quality of Life, Healthier Lifestyles, and More Meaningful Lives	143
	Aishwarya Narasimhadevara and Renuka Rambhatla	
10	Digital Health Transforming Health Care in Rural and Remote Australia	161
	Christine C. Bennett and Uma Srinivasan	
11	Telehealth and Traumatic Brain Injury	179
	Shana De Caro	
12	Leveraging Technology for Attaining Sustainable Development Goal 3: The Road Ahead	195
	Gopal Sankaran	

Part III Types of Innovative Technology in Health Care

13	Technology vs. Mercury: The Metal That Scars Civilization	205
	Diane E. Heck, Laurie B. Joseph, Padmini Murthy, Amy Ansehl, Yi-Hua Jan, Gabriella Composto Wahler, and Hong-Duck Kim	
14	Trafficking, Technology, and Public Health: The Malignant Malady of Modern Slavery	219
	Melissa Jane Kronfeld	
15	The Worldwide Digital Divide and Access to Healthcare Technology	241
	Irene M. Wohlman	
16	Technology for Creating Better Professional Teams to Strengthen Healthcare Systems	257
	Elvira Beracochea and Aaron Pied	

17 Global Public Health Disaster Management and Technology 275
Erica L. Nelson, Nirma D. Bustamante, and Sean M. Kivlehan

18 Employing Data Science Technologies Towards Shaping a Sustainably Healthy Future: The Efforts in Contemporary Taiwan 291
Chih-Wei Chen

19 Telemedicine in India and Its Impact on Public Health 303
Radha Ramana Murthy Gokula

20 The Role of Technology in Sustainable Development Goal Performance in Taiwan 317
Joyce Tsung-Hsi Wang

21 Reducing the Burden of Oral Diseases Through Technology 331
David C. Alexander, Ramon Baez, and Prathip Phantumvanit

22 Future and Impact of Rehabilitation Robotics on Post-stroke Care and Recovery 353
Anindo Roy and Prasad Mavuduri

Epilogue 373

Index 379