

1. Record Nr.	UNINA9910794688803321
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Titolo	The digital pill : what everyone should know about the future of our healthcare system // Elgar Fleisch, Christoph Franz, Andreas Herrmann
Pubbl/distr/stampa	United Kingdom : , : Emerald Publishing, , 2021
ISBN	1-78756-675-7
Edizione	[First edition.]
Descrizione fisica	1 online resource (xix, 202 pages)
Disciplina	610.285
Soggetti	Medical care - Technological innovations Wireless communication systems in medical care
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- The Digital Pill -- Half Title Page -- Title Page -- Copyright Page -- Acknowledgments -- Dedication Page -- Contents -- About the Authors -- Foreword -- Preface -- Part I: Will the Healthcare System Become aVictim of its Own Success? -- Chapter 1: Medical Progress is a Success Story that Comes with Consequences -- More Years - To Suffer Ill Health? -- Medical Progress also Means New Challenges -- Economic Consequences -- Demographic Consequences -- Chapter 2: Non-communicable Diseases are Straining Our Healthcare System -- Non-communicable Diseases: Human Suffering and High Costs -- Diabetes Epidemic in China -- Cardiovascular Disease in Mexico -- Chapter 3: Digitalization Will Be a Key Success Factor for the Healthcare System of the Future -- Preventive Health Care in Ancient China - A Historic Model -- Preventive Dental Medicine in Sweden - A Contemporary Model -- Health Promotion Board in Singapore -- Healthy Diet and Preventive General Medicine in Spain -- Digitalization is Essential to Tomorrow's Medicine -- Digitalization Supports Behavioral Change -- Digitalization Boosts Efficiency -- Digitalization Democratizes Medicine -- Digitalization Improves Quality -- Digitalization Accelerates Medical Research -- Part II: Digital Technologies are Changing Patients and Healthcare Systems -- Chapter 4: Do-it-Yourself Medicine -- DIY Research -- Self-help and Self-diagnosis -- Sharing Between (Expert) Patients -- PatientsLikeMe -- Health Unlocked -- Continuous Patient Self-monitoring -- Quantified

Self -- Do-it-yourself Tests -- Urine Test by Healthy.io -- Stool Sample Test by Viome and DayTwo -- Genetic Testing by Color Genomics -- The limits of Do-it-yourself -- Citizen Scientists -- Chapter 5: The Digital Doctor-Patient Relationship -- Selecting, Making Appointments with, and Reviewing Doctors Online -- Practo -- DocPlanner. Online Consultation -- Chunyu Yisheng -- Digital Physician Assistant -- Enlitic -- Arterys -- RADLogics -- Wlycloud -- MedScape -- Online Pharmacies -- Digital One-stop Platforms -- Unstaffed Mini-clinics -- Chapter 6: Digital Therapeutics -- Digital Personal Coach -- mySugr -- Meru Health -- Propeller Health -- Kaia Health -- Magic Leap -- Akili Interactive Labs -- Mindmaze -- Digital Therapeutics by Prescription -- Pear Therapeutics -- Evidation Health -- Digital Adherence Coach -- Proteus Digital Health -- Chapter 7: Digital Health Data and Data Security -- Health Data as a Strategic Asset -- A Brief History of Health Data -- Electronic Medical Records (EMR) as the Core of Health Data -- Omics Data -- Self-monitoring Data -- Exponential Growth in Data Volume -- Collecting, Processing, and Analyzing Data -- Data Collection -- The Problem with Distributed Incompatible Data -- Transforming Data into Medical Knowledge -- Primary and Secondary Use of Health Data -- Digital biomarkers -- Managing Privacy, Security, and Ethical Concerns -- Data security -- Privacy or the Right to Informational Self-determination -- Ethical Challenges -- Do We Need a "New Deal on Data"? -- Chapter 8: Value-based Medicine -- Data-driven Healthcare Networks -- Oscar Health -- Collective Health -- Amino -- Lifestyle Reward Programs -- Walgreens -- Pay for Performance -- Omada Health -- Spark Therapeutics -- Chapter 9: Digital Drug Development -- Computer-aided Drug Discovery -- Atomwise -- Novartis -- TwoXAR -- Digital Patient Recruitment for Clinical Studies -- Antidote -- IBM Watson -- Science 37 -- Apple -- Evidence Gained from Digital Real-World Data -- RWD Allow for Time Travel -- RWD can Replace Control Groups -- RWD can Help Discover New Uses for Existing Drugs -- RWD can Improve a Study Design's Probability of Success. RWD Add to the Knowledge Gained in Clinical Studies -- Flatiron Health. Flatiron Health maintains one of the leading databases of RWD in the field of oncology. In addition to software solutions for the more targeted treatment of cancer patients, this database is also used by third-party companies for research -- Aetion Health. Founded by Jeremy Rassen and Sebastian Schneeweiss in 2013, the startup Aetion Health is another significant player in the industry. At a conference in New York City, Jeremy explained the history behind the name Aetion Health: -- Precision Medicine -- Decoding the Human Genome -- Continuous Improvements in Computer Processing Speed and Smart Algorithms -- Part III: The Five Pillars of the Healthcare System of Tomorrow -- Chapter 10: Re-allocation of Roles: Patients Gain Power - and Responsibility -- Chapter 11: Digital Health Data and Infrastructure: Data Donation is the New Blood Drive -- Chapter 12: Precision Medicine: The Therapy Just for Me -- Chapter 13: Focus on Results and Transparency: Payment on Delivery -- Technological Solutions -- Chapter 14: Preventive Medicine: Prevention is Better than Cure -- Health: A Required Class -- Glossary and Abbreviations -- Bibliography -- Index.

Sommario/riassunto

The Digital Pill reflects on apps and digital projects launched by pharmaceutical companies in recent years, as well as the first accreditations for digital pills already issued by recognised regulators. The Digital Pills is essential reading for anyone working in, engaged with or interested in understanding the e-health community.
