

The Digital Doctor Hope Hype And Harm At The Dawn Of Medicine S Computer Age

The New York Times Science Bestseller from Robert Wachter, Modern Healthcare's #1 Most Influential Physician-Executive in the US While modern medicine produces miracles, it also delivers care that is too often unsafe, unreliable, unsatisfying, and impossibly expensive. For the past few decades, technology has been touted as the cure for all of healthcare's ills. But medicine stubbornly resisted computerization – until now. Over the past five years, thanks largely to billions of dollars in federal incentives, healthcare has finally gone digital. Yet once clinicians started using computers to actually deliver care, it dawned on them that something was deeply wrong. Why were doctors no longer making eye contact with their patients? How could one of America's leading hospitals give a teenager a 39-fold overdose of a common antibiotic, despite a state-of-the-art computerized prescribing system? How could a recruiting ad for physicians tout the absence of an electronic medical record as a major selling point? Logically enough, we've pinned the problems on clunky software, flawed implementations, absurd regulations, and bad karma. It was all of those things, but it was also something far more complicated. And far more interesting . . . Written with a rare combination of compelling stories and hard-hitting analysis by one of the nation's most thoughtful physicians, The Digital Doctor examines healthcare at the dawn of its computer age. It tackles the hard questions, from how technology is changing care at the bedside to whether government intervention has been useful or destructive. And it does so with clarity, insight, humor, and compassion.

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Ultimately, it is a hopeful story. "We need to recognize that computers in healthcare don't simply replace my doctor's scrawl with Helvetica 12," writes the author Dr. Robert Wachter. "Instead, they transform the work, the people who do it, and their relationships with each other and with patients. . . . Sure, we should have thought of this sooner. But it's not too late to get it right." This riveting book offers the prescription for getting it right, making it essential reading for everyone – patient and provider alike – who cares about our healthcare system.

Across the world, the demands placed on health systems are growing rapidly. Developed countries face the challenge of providing services to an ageing population with changing health needs, while countries with developing health systems must find ways of ensuring their populations are provided with access to healthcare. Innovative thinking is essential to meet these twin challenges, but innovation is both a cause and cure of many struggles in healthcare — we need it, but it is hard to manage and the introduction of new technology can lead to higher costs. Using real-life examples and case studies from around the world, this book introduces the latest thinking on understanding and managing healthcare innovation more effectively. It does this from the perspective of governments responsible for shaping health policy, healthcare organisations providing services and juggling competing demands, and from the perspective of the industries that supply the new drugs, devices and other technologies. Managing Innovation in Healthcare is the perfect accompaniment for MSc, PhD and MBA students on health policy, management and public health courses, as well as managers, consultants and policy makers involved in healthcare services in both the public and private sector.

A Publisher's Weekly Best Book of 2018 A straightforward appraisal of why health myths exist,

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dispelling many of them, and teaching readers how to navigate the labyrinth of health advice and the science and misinformation behind it. Hype is Dr. Nina Shapiro's engaging and informative look at the real science behind our most common beliefs and assumptions in the health sphere. There is a lot of misinformation thrown around these days, especially online. Headlines tell us to do this, not that—all in the name of living longer, better, thinner, younger. Dr. Shapiro wants to distinguish between the falsehoods and the evidence-backed truth. In her work at Harvard and UCLA, with more than twenty years of experience in both clinical and academic medicine, she helps patients make important health decisions every day. She's bringing those lessons to life here with a blend of personal storytelling and science to discuss her dramatic new definition of “a healthy life.” Hype covers everything from exercise to supplements, alternative medicine to vaccines, and medical testing to media coverage. Shapiro tackles popular misconceptions such as toxic sugar and the importance of drinking eight glasses of water a day. She provides simple solutions anyone can implement, such as drinking 2% milk instead of fat free and using SPF 30 sunscreen instead of SPF 100. This book is as much for single individuals in the prime of their lives as it is for parents with young children and the elderly. Never has there been a greater need for this reassuring, and scientifically backed reality check.

The story of two doctors, a father and son, who practiced in very different times and the evolution of the ethics that profoundly influence health care As a practicing physician and longtime member of his hospital's ethics committee, Dr. Barron Lerner thought he had heard it all. But in the mid-1990s, his father, an infectious diseases physician, told him a stunning story: he had physically placed his body over an end-stage patient who had stopped breathing,

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preventing his colleagues from performing cardiopulmonary resuscitation, even though CPR was the ethically and legally accepted thing to do. Over the next few years, the senior Dr. Lerner tried to speed the deaths of his seriously ill mother and mother-in-law to spare them further suffering. These stories angered and alarmed the younger Dr. Lerner—an internist, historian of medicine, and bioethicist—who had rejected physician-based paternalism in favor of informed consent and patient autonomy. *The Good Doctor* is a fascinating and moving account of how Dr. Lerner came to terms with two very different images of his father: a revered clinician, teacher, and researcher who always put his patients first, but also a physician willing to “play God,” opposing the very revolution in patients' rights that his son was studying and teaching to his own medical students. But the elder Dr. Lerner’s journals, which he had kept for decades, showed the son how the father’s outdated paternalism had grown out of a fierce devotion to patient-centered medicine, which was rapidly disappearing. And they raised questions: Are paternalistic doctors just relics, or should their expertise be used to overrule patients and families that make ill-advised choices? Does the growing use of personalized medicine—in which specific interventions may be best for specific patients—change the calculus between autonomy and paternalism? And how can we best use technologies that were invented to save lives but now too often prolong death? In an era of high-technology medicine, spiraling costs, and health-care reform, these questions could not be more relevant. As his father slowly died of Parkinson’s disease, Barron Lerner faced these questions both personally and professionally. He found himself being pulled into his dad’s medical care, even though he had criticized his father for making medical decisions for his relatives. Did playing God—at least in some situations—actually make sense? Did doctors sometimes “know best”? A

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timely and compelling story of one family's engagement with medicine over the last half century, *The Good Doctor* is an important book for those who treat illness—and those who struggle to overcome it.

Explore the theory and practical applications of artificial intelligence (AI) and machine learning in healthcare. This book offers a guided tour of machine learning algorithms, architecture design, and applications of learning in healthcare and big data challenges. You'll discover the ethical implications of healthcare data analytics and the future of AI in population and patient health optimization. You'll also create a machine learning model, evaluate performance and operationalize its outcomes within your organization. *Machine Learning and AI for Healthcare* provides techniques on how to apply machine learning within your organization and evaluate the efficacy, suitability, and efficiency of AI applications. These are illustrated through leading case studies, including how chronic disease is being redefined through patient-led data learning and the Internet of Things. **What You'll Learn** Gain a deeper understanding of key machine learning algorithms and their use and implementation within wider healthcare Implement machine learning systems, such as speech recognition and enhanced deep learning/AI Select learning methods/algorithms and tuning for use in healthcare Recognize and prepare for the future of artificial intelligence in healthcare through best practices, feedback loops and intelligent agents **Who This Book Is For** Health care professionals interested in how machine learning can be used to develop health intelligence – with the aim of improving patient health, population health and facilitating significant care-payer cost savings.

Searching for Health is a valuable resource for charting a healthier path through life.

Everybody loves a parade! Well, everybody except Evan... Evan, the county sheriff, knows that

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businesses are struggling in the small town of Clark Creek. But unlike the mayor—who happens to be his mother—he doesn't think that hiring a "Christmas Consultant," whatever that is, will help. Especially when this Christmas Consultant proposes a holiday parade that seems likely to overwhelm his staff and leave the town in even more debt. Mary is sure the parade is going to be a superb fundraiser. She's going to make sure of it, overcoming every obstacle...including those put in place by the stubborn sheriff. But in the middle of her planning, the unexpected happens: she and Evan begin to see one another in a different light. Could the parade bring about more than one Christmas miracle? This funny, feel-good holiday romance is perfect for fans of Sheila Roberts, Susan Mallery, and Jenny Hale.

Before the advent of modern antibiotics, one's life could be abruptly shattered by contagion and death, and debility from infectious diseases and epidemics was commonplace for early Americans, regardless of social status. Concerns over health affected the founding fathers and their families as it did slaves, merchants, immigrants, and everyone else in North America. As both victims of illness and national leaders, the Founders occupied a unique position regarding the development of public health in America. Revolutionary Medicine refocuses the study of the lives of George and Martha Washington, Benjamin Franklin, Thomas Jefferson, John and Abigail Adams, and James and Dolley Madison away from the usual lens of politics to the unique perspective of sickness, health, and medicine in their era. For the founders, republican ideals fostered a reciprocal connection between individual health and the "health" of the nation. Studying the encounters of these American founders with illness and disease, as well as their viewpoints about good health, not only provides us with a richer and more nuanced insight into their lives, but also opens a window into the practice of medicine in the eighteenth

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century, which is at once intimate, personal, and first hand. Perhaps most importantly, today's American public health initiatives have their roots in the work of America's founders, for they recognized early on that government had compelling reasons to shoulder some new responsibilities with respect to ensuring the health and well-being of its citizenry. The state of medicine and public healthcare today is still a work in progress, but these founders played a significant role in beginning the conversation that shaped the contours of its development.

Instructor's Guide

This book is open access under a CC BY 4.0 license. This volume describes and explains the educational method of Case-Based Clinical Reasoning (CBCR) used successfully in medical schools to prepare students to think like doctors before they enter the clinical arena and become engaged in patient care. Although this approach poses the paradoxical problem of a lack of clinical experience that is so essential for building proficiency in clinical reasoning, CBCR is built on the premise that solving clinical problems involves the ability to reason about disease processes. This requires knowledge of anatomy and the working and pathology of organ systems, as well as the ability to regard patient problems as patterns and compare them with instances of illness scripts of patients the clinician has seen in the past and stored in memory. CBCR stimulates the development of early, rudimentary illness scripts through elaboration and systematic discussion of the courses of action from the initial presentation of the patient to the final steps of clinical management. The book combines general backgrounds of clinical reasoning education and assessment with a

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detailed elaboration of the CBCR method for application in any medical curriculum, either as a mandatory or as an elective course. It consists of three parts: a general introduction to clinical reasoning education, application of the CBCR method, and cases that can be used by educators to try out this method.

The COVID-19 pandemic has exacerbated burnout for clinicians and administrators alike, heightening the need for this practical guide that provides a comprehensive approach to empowering physicians while ensuring organizational resilience. In this second edition of *Preventing Physician Burnout: Curing the Chaos and Returning Joy to the Practice of Medicine*, doctors Paul DeChant and Diane Shannon define burnout, explore the consequences for physicians, patients, and the health care system, identify the underlying causes that are fueling the burnout epidemic, and provide case studies with specific interventions that have demonstrated success in healing the broken clinical workplace. Based on their experience and extensive interviews with experts in burnout, health care, and Lean management, they give voice to patient advocates, burnout researchers, leaders of health care organizations, and the physicians themselves. DeChant and Shannon also share examples of strategies that hospitals and physician practices across the United States are using to address the root causes of burnout among physicians, including action items for preventing burnout and curbing the crisis. "It is hard to see how we can create the health care system we want and need on the backs of joyless and unengaged doctors. This well-written, practical book offers

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the prescription we need to address this crisis." Robert Wachter, MD, author of *The Digital Doctor: Hope, Hype, and Harm at the Dawn of Medicine's Computer Age* Influencing the Quality, Risk and Safety Movement in Healthcare explores the inner workings of some of the most influential minds in healthcare quality, risk and safety. The book was created in cooperation with the Master of Science in Healthcare Quality graduate program, developed and delivered by Queen's University, Canada. This is the only standalone interdisciplinary Master of Science graduate degree in Healthcare Quality in North America that focuses on creating tomorrow's healthcare leaders. Following a one-to-one collaboration between each leader in healthcare with a dedicated learner of the MSc(HQ), readers are presented with a synopsis of the leader's work followed by an in-depth interview with him or her. Interviews center around the leaders' contributions to and thoughts on quality, risk and safety in healthcare, dealing with topics such as the development of their body of work, their greatest achievements, what they wish they could change, and future direction of quality, risk and safety, etc. The book provides a unique and highly accessible view into how and why the science of healthcare quality has developed, as well as giving a first-hand account of the founders and key players in the movement. It will offer valuable insights to any undergraduate/graduate class with an interest in healthcare, as well as professionals working within any of the many disciplines that can influence the healthcare system.

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Now thoroughly updated, this resource offers practical, evidence-based guidelines for the care of hospitalized patients. The only book geared directly and exclusively to inpatient management, this guide is edited by national leaders in the hospital field. This essential text provides a readable yet sophisticated overview of the basic concepts of information technologies as they apply in healthcare. Spanning areas as diverse as the electronic medical record, searching, protocols, and communications as well as the Internet, Enrico Coiera has succeeded in making this vast and complex area accessible an

If you long to reach kids and see their lives changed by God, this comprehensive guide shows you how. Purpose Driven® Youth Ministry will do for youth ministry what Rick Warren's Gold Medallion award-winning, The Purpose Driven® Church is doing for pastoral ministry. It's an indispensable guide to creating and maintaining youth ministry for the long run. It will help you create a solid spiritual team that builds the foundations of the Christian faith into the hearts and lives of young people. Forged around the fundamental purposes of evangelism, discipleship, fellowship, ministry, and worship, Purpose Driven® Youth Ministry uses the experiences of Saddleback Church to illustrate what a healthy Youth ministry can be. Nine transferable principles help you - Connect with the power of God for passionate, committed leadership - Define the purpose of your ministry and communicate it effectively - Identify your potential audience - Create programs that reach your audience and fulfill God's purposes -

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Implement processes that move students to maturity - Enhance your ministry with clearly defined values - Team up with parents to involve the whole family - Find volunteers and develop them into participating leaders - Persevere through tough times and thrive in an ever-changing environment. Balancing both theory and practice, Purpose Driven® Youth Ministry can be applied to any church setting, regardless of size, denomination, facilities, resources, and existing leadership. Purpose-Driven Youth Ministry will help you develop a ministry that equips students rather than a ministry that coordinates events. Doug Fields says, "My goal for this book is to coach you through a plan to build a healthy youth ministry that isn't dependent on one great youth leader and won't be destroyed when the youth worker leaves the church. It's not a book on how to grow your youth ministry with six easy steps; it's about identifying, establishing, and building health into your church's youth ministry.

A poignant and funny exploration of authenticity in work and life by a woman doctor. In 2017, Dr. Suzanne Koven published an essay describing the challenges faced by female physicians, including her own personal struggle with "imposter syndrome"—a long-held secret belief that she was not smart enough or good enough to be a “real” doctor. Accessed by thousands of readers around the world, Koven’s “Letter to a Young Female Physician” has evolved into a deeply felt reflection on her career in medicine. Koven tells candid and illuminating stories about her pregnancy during a grueling residency in the AIDS era; the illnesses of her child and aging parents during

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which her roles as a doctor, mother, and daughter converged, and sometimes collided; the sexism, pay inequity, and harassment that women in medicine encounter; and the twilight of her career during the COVID-19 pandemic. As she traces the arc of her life, Koven finds inspiration in literature and faces the near-universal challenges of burnout, body image, and balancing work with marriage and parenthood. Shining with warmth, clarity, and wisdom, *Letter to a Young Female Physician* reveals a woman forging her authentic identity in a modern landscape that is as overwhelming and confusing as it is exhilarating in its possibilities. Koven offers an indelible account, by turns humorous and profound, from a doctor, mother, wife, daughter, teacher, and writer who sheds light on our desire to find meaning, and on a way to be our own imperfect selves in the world.

This book helps readers gain an in-depth understanding of electronic health record (EHR) systems, medical big data, and the regulations that govern them. It analyzes both the shortcomings and benefits of EHR systems, exploring the law's response to the creation of these systems, highlighting gaps in the current legal framework, and developing detailed recommendations for regulatory, policy, and technological improvements. *Electronic Health Records and Medical Big Data* addresses not only privacy and security concerns but also other important challenges, such as those related to data quality and data analysis. In addition, the author formulates a large body of recommendations to improve the technology's safety, security, and efficacy for both

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clinical and secondary (such as research) uses of medical data.

Moneyball meets medicine in this remarkable chronicle of one of the greatest scientific quests of our time—the groundbreaking program to answer the most essential question for humanity: how do we live and die?—and the visionary mastermind behind it. Medical doctor and economist Christopher Murray began the Global Burden of Disease studies to gain a truer understanding of how we live and how we die. While it is one of the largest scientific projects ever attempted—as breathtaking as the first moon landing or the Human Genome Project—the questions it answers are meaningful for every one of us: What are the world’s health problems? Who do they hurt? How much? Where? Why? Murray argues that the ideal existence isn’t simply the longest but the one lived well and with the least illness. Until we can accurately measure how people live and die, we cannot understand what makes us sick or do much to improve it. Challenging the accepted wisdom of the WHO and the UN, the charismatic and controversial health maverick has made enemies—and some influential friends, including Bill Gates who gave Murray a \$100 million grant. In *Epic Measures*, journalist Jeremy N. Smith offers an intimate look at Murray and his groundbreaking work. From ranking countries’ healthcare systems (the U.S. is 37th) to unearthing the shocking reality that world governments are funding developing countries at only 30% of the potential maximum efficiency when it comes to health, *Epic Measures* introduces a visionary leader whose unwavering determination to improve global health standards has already changed the

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way the world addresses issues of health and wellness, sets policy, and distributes funding.

A landmark insider's tour of how social media affects our decision-making and shapes our world in ways both useful and dangerous, with critical insights into the social media trends of the 2020 election and beyond "The book might be described as prophetic. . . . At least two of Aral's three predictions have come to fruition."—New York NAMED ONE OF THE BEST BOOKS OF THE YEAR BY WIRED • LONGLISTED FOR THE PORCHLIGHT BUSINESS BOOK AWARD Social media connected the world—and gave rise to fake news and increasing polarization. It is paramount, MIT professor Sinan Aral says, that we recognize the outsize effect social media has on us—on our politics, our economy, and even our personal health—in order to steer today's social technology toward its great promise while avoiding the ways it can pull us apart. Drawing on decades of his own research and business experience, Aral goes under the hood of the most powerful social networks to tackle the critical question of just how much social media actually shapes our choices, for better or worse. He shows how the tech behind social media offers the same set of behavior influencing levers to everyone who hopes to change the way we think and act—from Russian hackers to brand marketers—which is why its consequences affect everything from elections to business, dating to health. Along the way, he covers a wide array of topics, including how network effects fuel Twitter's and Facebook's massive growth, the neuroscience of how social

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media affects our brains, the real consequences of fake news, the power of social ratings, and the impact of social media on our kids. In mapping out strategies for being more thoughtful consumers of social media, *The Hype Machine* offers the definitive guide to understanding and harnessing for good the technology that has redefined our world overnight.

This oft-quoted all-time favorite of the medical community will gladden--and strengthen--the hearts of patients, doctors, and anyone entering medical study, internship, or practice. With unassailable logic and rapier wit, the sage Dr. Oscar London muses on the challenges and joys of doctoring, and imparts timeless truths, reality checks, and poignant insights gleaned from 30 years of general practice--while never taking himself (or his profession) too seriously. The classic book on the art and humor of practicing medicine, celebrating its 20th anniversary in a new gift edition with updates throughout. Previous editions have sold more than 200,000 copies. The perfect gift for med students and grads as well as new and practicing physicians.

Approximately 17,000 students graduate from med school each spring in North America.

In *UnHealthcare*, Silicon Valley entrepreneur and investor Hemant Taneja and Jefferson Health CEO Stephen Klasko, along with writer Kevin Maney, make a provocative case for a new data-driven, cloud-based category of healthcare called "health assurance." The authors show how health assurance can be built using today's

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technology, how it will help us all stay healthier at less cost, and how data from health assurance services can help individuals and officials contain and manage deadly virus outbreaks such as Covid-19. More than just a thesis, UnHealthcare is a guide to how entrepreneurs, healthcare professionals, and policymakers can bring health assurance to the mainstream and finally develop a solution to America's healthcare debacle. BESTSELLING GUIDE, UPDATED WITH A NEW INFORMATION FOR TODAY'S HEALTH CARE ENVIRONMENT Health Care Information Systems is the newest version of the acclaimed text that offers the fundamental knowledge and tools needed to manage information and information resources effectively within a wide variety of health care organizations. It reviews the major environmental forces that shape the national health information landscape and offers guidance on the implementation, evaluation, and management of health care information systems. It also reviews relevant laws, regulations, and standards and explores the most pressing issues pertinent to senior level managers. It covers: Proven strategies for successfully acquiring and implementing health information systems. Efficient methods for assessing the value of a system. Changes in payment reform initiatives. New information on the role of information systems in managing in population health. A wealth of updated case studies of organizations experiencing management-related system challenges. Our healthcare system is prohibitively expensive. Fortunately, artificial intelligence, big data, machine learning, blockchain, the internet of things and wearable technologies

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are revolutionizing the way that we look at healthcare. The future of healthcare is coming. This is what it looks like.

“A must-read—a gorgeous literary novel that asks us to imagine all the possible versions of ourselves that might exist.”—J. Courtney Sullivan, New York Times bestselling author of *Saints for All Occasions*

The residents of a sleepy mountain town are rocked by troubling visions of an alternate reality in this dazzling debut that combines the family-driven suspense of Celeste Ng’s *Little Fires Everywhere* with the inventive storytelling of *The Immortalists*. In the quiet haven of Clearing, Oregon, four neighbors find their lives upended when they begin to see themselves in parallel realities. Ginny, a devoted surgeon whose work often takes precedence over her family, has a baffling vision of a beautiful co-worker in Ginny’s own bed and begins to doubt the solidity of her marriage. Ginny’s husband, Mark, a wildlife scientist, sees a vision that suggests impending devastation and grows increasingly paranoid, threatening the safety of his wife and son. Samara, a young woman desperately mourning the recent death of her mother and questioning why her father seems to be coping with such ease, witnesses an apparition of her mother healthy and vibrant and wonders about the secrets her parents may have kept from her. Cass, a brilliant scholar struggling with the demands of new motherhood, catches a glimpse of herself pregnant again, just as she’s on the brink of returning to the project that could define her career. At first the visions are relatively benign, but they grow increasingly disturbing—and, in some cases,

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frightening. When a natural disaster threatens Clearing, it becomes obvious that the visions were not what they first seemed and that the town will never be the same. Startling, deeply imagined, and compulsively readable, Kate Hope Day's debut novel is about the choices we make that shape our lives and determine our destinies—the moments that alter us so profoundly that it feels as if we've entered another reality. Praise for *If, Then* “Hope Day has a lot of sly, stealthy fun with time-bending and parallel universes, but she also has serious things to say on urban paranoia, climate change and the atomized nature of modern life.”—Daily Mail “*If, Then* has the narrative propulsion of a television show . . . [It's] a whirlwind of a story.”—Chicago Review of Books “Effortlessly meshing the dreamlike and the realistic, [Kate Hope] Day's well-crafted mix of literary and speculative fiction is an enthralling meditation on the interconnectedness of all things.”—Publishers Weekly (starred review)

Complete coverage of the core principles of patient safety *Understanding Patient Safety, 2e* is the essential text for anyone wishing to learn the key clinical, organizational, and systems issues in patient safety. The book is filled with valuable cases and analyses, as well as up-to-date tables, graphics, references, and tools -- all designed to introduce the patient safety field to medical trainees, and be the go-to book for experienced clinicians and non-clinicians alike. Features NEW chapter on the critically important role of checklists in medical practice NEW case examples throughout Expanded coverage of the role of computers in patient safety and outcomes

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Expanded coverage of new patient initiatives from the Joint Commission

If you work in health(care), this is your update on the 'future'. This book is about the digital transformation that healthcare is facing. It's not a prediction, blueprint nor is it a manual. But it is giving some insights on what is happening to health(care) and how you might best prepare for the future that's coming. It addresses all levels: physicians, nurses, patients, IT, board members & governments.

INSTANT NEW YORK TIMES BESTSELLER A REESE'S BOOK CLUB WINTER YA PICK A new love, a secret sister, and a summer she'll never forget. From the beloved author of *Tweet Cute* comes Emma Lord's *You Have a Match*, a hilarious and heartfelt novel of romance, sisterhood, and friendship... When Abby signs up for a DNA service, it's mainly to give her friend and secret love interest, Leo, a nudge. After all, she knows who she is already: Avid photographer. Injury-prone tree climber. Best friend to Leo and Connie...although ever since the B.E.I. (Big Embarrassing Incident) with Leo, things have been awkward on that front. But she didn't know she's a younger sister. When the DNA service reveals Abby has a secret sister, shimmery-haired Instagram star Savannah Tully, it's hard to believe they're from the same planet, never mind the same parents — especially considering Savannah, queen of green smoothies, is only a year and a half older than Abby herself. The logical course of action? Meet up at summer camp (obviously) and figure out why Abby's parents gave Savvy up for adoption. But there are complications: Savvy is a rigid rule-follower and total narc. Leo

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is the camp's co-chef, putting Abby's growing feelings for him on blast. And her parents have a secret that threatens to unravel everything. But part of life is showing up, leaning in, and learning to fit all your awkward pieces together. Because sometimes, the hardest things can also be the best ones. "A YA contemporary set at summer camp? Count us in." —BuzzFeed "Heartfelt and engaging, You Have a Match is a masterclass on love in all its forms." —Sophie Gonzales, author of Only Mostly Devastated and Perfect on Paper "A bright summer tale of connection and self-discovery." —Booklist "A cute, feel-good coming-of-age story." —Kirkus

Health Informatics (HI) focuses on the application of Information Technology (IT) to the field of medicine to improve individual and population healthcare delivery, education and research. This extensively updated fifth edition reflects the current knowledge in Health Informatics and provides learning objectives, key points, case studies and references.

A professor of medicine reveals how technology like wireless internet, individual data, and personal genomics can be used to save lives.

This "comforting...thoughtful" (The Washington Post) guide to maintaining a high quality of life—from resilient old age to the first inklings of a serious illness to the final breath—by the New York Times bestselling author of Knocking on Heaven's Door is a "roadmap to the end that combines medical, practical, and spiritual guidance" (The Boston Globe). "A common sense path to define what a 'good' death looks like" (USA

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TODAY), *The Art of Dying Well* is about living as well as possible for as long as possible and adapting successfully to change. Packed with extraordinarily helpful insights and inspiring true stories, award-winning journalist Katy Butler shows how to thrive in later life (even when coping with a chronic medical condition), how to get the best from our health system, and how to make your own “good death” more likely. Butler explains how to successfully age in place, why to pick a younger doctor and how to have an honest conversation with them, when not to call 911, and how to make your death a sacred rite of passage rather than a medical event. This handbook of preparations—practical, communal, physical, and spiritual—will help you make the most of your remaining time, be it decades, years, or months. Based on Butler’s experience caring for aging parents, and hundreds of interviews with people who have successfully navigated our fragmented health system and helped their loved ones have good deaths, *The Art of Dying Well* also draws on the expertise of national leaders in family medicine, palliative care, geriatrics, oncology, and hospice. This “empowering guide clearly outlines the steps necessary to prepare for a beautiful death without fear” (Shelf Awareness).

The essential guide by one of America's leading doctors to how digital technology enables all of us to take charge of our health A trip to the doctor is almost a guarantee of misery. You'll make an appointment months in advance. You'll probably wait for several hours until you hear "the doctor will see you now"-but only for fifteen minutes!

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Then you'll wait even longer for lab tests, the results of which you'll likely never see, unless they indicate further (and more invasive) tests, most of which will probably prove unnecessary (much like physicals themselves). And your bill will be astronomical. In *The Patient Will See You Now*, Eric Topol, one of the nation's top physicians, shows why medicine does not have to be that way. Instead, you could use your smartphone to get rapid test results from one drop of blood, monitor your vital signs both day and night, and use an artificially intelligent algorithm to receive a diagnosis without having to see a doctor, all at a small fraction of the cost imposed by our modern healthcare system. The change is powered by what Topol calls medicine's "Gutenberg moment." Much as the printing press took learning out of the hands of a priestly class, the mobile internet is doing the same for medicine, giving us unprecedented control over our healthcare. With smartphones in hand, we are no longer beholden to an impersonal and paternalistic system in which "doctor knows best." Medicine has been digitized, Topol argues; now it will be democratized. Computers will replace physicians for many diagnostic tasks, citizen science will give rise to citizen medicine, and enormous data sets will give us new means to attack conditions that have long been incurable. Massive, open, online medicine, where diagnostics are done by Facebook-like comparisons of medical profiles, will enable real-time, real-world research on massive populations. There's no doubt the path forward will be complicated: the medical establishment will resist these changes, and digitized medicine inevitably raises serious

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issues surrounding privacy. Nevertheless, the result-better, cheaper, and more human health care-will be worth it. Provocative and engrossing, *The Patient Will See You Now* is essential reading for anyone who thinks they deserve better health care. That is, for all of us.

An introduction to the technology of contact tracing and its usefulness for public health, considering questions of efficacy, equity, and privacy. How do you stop a pandemic before a vaccine arrives? Contact tracing is key, the first step in a process that has proven effective: trace, test, and isolate. Smartphones can collect some of the information required by contact tracers--not just where you've been but also who's been near you. Can we repurpose the tracking technology that we carry with us--devices with GPS, Wi-Fi, Bluetooth, and social media connectivity--to serve public health in a pandemic? In *People Count*, cybersecurity expert Susan Landau looks at some of the apps developed for contact tracing during the COVID-19 pandemic, finding that issues of effectiveness and equity intersect. Landau explains the effectiveness (or ineffectiveness) of a range of technological interventions, including dongles in Singapore that collect proximity information; India's biometric national identity system; Harvard University's experiment, TraceFi; and China's surveillance network. Other nations rejected China-style surveillance in favor of systems based on Bluetooth, GPS, and cell towers, but Landau explains the limitations of these technologies. She also reports that many current apps appear to be premised on a model of middle-class

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income and a job that can be done remotely. How can they be effective when low-income communities and front-line workers are the ones who are hit hardest by the virus? COVID-19 will not be our last pandemic; we need to get this essential method of infection control right.

A leading doctor unveils the groundbreaking potential of virtual medicine. Brennan Spiegel has spent years studying the medical power of the mind, and in VRx he reveals a revolutionary new kind of care: virtual medicine. It offers the possibility of treating illnesses without solely relying on intrusive surgeries or addictive opioids. Virtual medicine works by convincing your body that it's somewhere, or something, it isn't. It's affordable, widely available, and has already proved effective against everything from burn injuries to stroke to PTSD. Spiegel shows how a simple VR headset lets a patient with schizophrenia confront the demon in his head, how dementia patients regain function in a life-size virtual town, and how vivid simulations of patients' experiences are making doctors more empathic. VRx is a revelatory account of the connection between our bodies and ourselves. In an age of overmedication and depersonalized care, it offers no less than a new way to heal.

Annotation Medical science has always promised -- and often delivered -- a longer, better life. But as the pace of science accelerates, do our expectations become unreasonable, fueled by an industry bent on profits and a media desperate for big news? Hope or Hype is a taboo-shattering look at what drives the American obsession with medical "miracles," exposing the

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equipment manufacturers and pharmaceutical companies; doctors and hospitals too quick to order surgery; the politicians; the press; and our own "technoconsumption" mindset. The authors spread blame for the parade of so-called miracle cures that too often are marginally effective at best -- and sometimes downright dangerous. They examine consumers' eager embrace of medical advances, and present riveting stories of the conscientious doctors and researchers who blew the whistle on ineffective treatments. Finally, they provide sane, practical recommendations for the adoption of new developments. The consequences of questionable practices include costly recalls, billions in wasted money, and the pain and suffering of innumerable patients and their families. In short, they must stop.

Melanie Mitchell separates science fact from science fiction in this sweeping examination of the current state of AI and how it is remaking our world. No recent scientific enterprise has proved as alluring, terrifying, and filled with extravagant promise and frustrating setbacks as artificial intelligence. The award-winning author Melanie Mitchell, a leading computer scientist, now reveals AI's turbulent history and the recent spate of apparent successes, grand hopes, and emerging fears surrounding it. In *Artificial Intelligence*, Mitchell turns to the most urgent questions concerning AI today: How intelligent—really—are the best AI programs? How do they work? What can they actually do, and when do they fail? How humanlike do we expect them to become, and how soon do we need to worry about them surpassing us? Along the way, she introduces the dominant models of modern AI and machine learning, describing cutting-edge AI programs, their human inventors, and the historical lines of thought underpinning recent achievements. She meets with fellow experts such as Douglas Hofstadter, the cognitive scientist and Pulitzer Prize-winning author of the modern classic *Gödel, Escher, Bach*, who

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explains why he is “terrified” about the future of AI. She explores the profound disconnect between the hype and the actual achievements in AI, providing a clear sense of what the field has accomplished and how much further it has to go. Interweaving stories about the science of AI and the people behind it, *Artificial Intelligence* brims with clear-sighted, captivating, and accessible accounts of the most interesting and provocative modern work in the field, flavored with Mitchell’s humor and personal observations. This frank, lively book is an indispensable guide to understanding today’s AI, its quest for “human-level” intelligence, and its impact on the future for us all.

Our health care is staggeringly expensive, yet one in six Americans has no health insurance. We have some of the most skilled physicians in the world, yet one hundred thousand patients die each year from medical errors. In this gripping, eye-opening book, award-winning journalist Shannon Brownlee takes readers inside the hospital to dismantle some of our most venerated myths about American medicine. Brownlee dissects what she calls “the medical-industrial complex” and lays bare the backward economic incentives embedded in our system, revealing a stunning portrait of the care we now receive. Nevertheless, *Overtreated* ultimately conveys a message of hope by reframing the debate over health care reform. It offers a way to control costs and cover the uninsured, while simultaneously improving the quality of American medicine. Shannon Brownlee’s humane, intelligent, and penetrating analysis empowers readers to avoid the perils of overtreatment, as well as pointing the way to better health care for everyone.

Elle's 30 BEST BOOKS OF THE SUMMER "A jaw-dropping investigation into the women's health industry." —Shelf-Awareness "A fascinating examination of the past and present of

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women's healthcare" —Delfina V Barbiero, USA TODAY "A must-read for women, especially any woman who might ever need to see a doctor. " —The Washington Post American women visit more doctors, have more surgery, and fill more prescriptions than men. In *Everything Below the Waist*, Jennifer Block asks: Why is the life expectancy of women today declining relative to women in other high-income countries, and even relative to the generation before them? Block examines several staples of modern women's health care, from fertility technology to contraception to pelvic surgery to miscarriage treatment, and finds that while overdiagnosis and overtreatment persist in medicine writ large, they are particularly acute for women. One third of mothers give birth by major surgery; roughly half of women lose their uterus to hysterectomy. Feminism turned the world upside down, yet to a large extent the doctors' office has remained stuck in time. Block returns to the 1970s women's health movement to understand how in today's supposed age of empowerment, women's bodies are still so vulnerable to medical control—particularly their sex organs, and as result, their sex lives. In this urgent book, Block tells the stories of patients, clinicians, and reformers, uncovering history and science that could revolutionize the standard of care, and change the way women think about their health. *Everything Below the Waist* challenges all people to take back control of their bodies.

One of America's top doctors reveals how AI will empower physicians and revolutionize patient care Medicine has become inhuman, to disastrous effect. The doctor-patient relationship--the heart of medicine--is broken: doctors are too distracted and overwhelmed to truly connect with their patients, and medical errors and misdiagnoses abound. In *Deep Medicine*, leading physician Eric Topol reveals how artificial intelligence can help. AI has the potential to

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transform everything doctors do, from notetaking and medical scans to diagnosis and treatment, greatly cutting down the cost of medicine and reducing human mortality. By freeing physicians from the tasks that interfere with human connection, AI will create space for the real healing that takes place between a doctor who can listen and a patient who needs to be heard. Innovative, provocative, and hopeful, Deep Medicine shows us how the awesome power of AI can make medicine better, for all the humans involved.

The Digital Doctor: Hope, Hype, and Harm at the Dawn of Medicine's Computer Age McGraw Hill Professional

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