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British Medical Journal HarperCollins
Clinical Medical Imaging Physics: Current and Emerging Practice is the first text of its kind—a comprehensive reference work covering all imaging modalities in use in clinical medicine today. Destined to become a classic in the field, this book provides state-of-practice descriptions for each imaging modality, followed by special sections on new and emerging applications, technologies, and practices. Authored by luminaries in the field of medical physics, this resource is a sophisticated, one-volume handbook to a fast-advancing field that is becoming ever more central to contemporary clinical medicine. Summarizes the current state of clinical medical imaging physics in one volume, with a focus on emerging technologies and applications Provides comprehensive coverage of all key clinical imaging modalities, taking into account the new realities in healthcare practice Features a strong focus on clinical application of principles and technology, now and in the future Contains authoritative text compiled by world-renowned editors and contributors responsible for guiding the development of the field Practicing radiologists and medical physicists will appreciate Clinical Medical Imaging Physics as a peerless everyday reference work. Additionally, graduate students and residents in medical physics and radiology will find this book essential as they study for their board exams.

Nursing Leadership, Management, and Professional Practice for the LPN/LVN National Academies Press
In the United States, some populations suffer from far greater disparities in health than others. Those disparities are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence, and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways. Communities in Action: Pathways to Health Equity seeks to delineate the causes of and the solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome.

A Client-oriented System of Mental Health Service Delivery and Program Management Elsevier Health Sciences
The concept of Green Exercise has now been widely adopted and implies a synergistic health benefit of being active in the presence of nature. This book provides a balanced overview and synthesis text on all aspects of Green Exercise and integrates evidence from many different disciplines including physiology, ecology, psychology, sociology and the environmental sciences, and across a wide range of countries. It describes the impact of Green Exercise on human health and well-being through all stages of the lifecourse and covers a wide spectrum from cellular processes such as immune function through to facilitating human behavioural change. It demonstrates the value of Green Exercise for activity and education purposes in both schools and the workplace, as well as its therapeutic properties. Green Exercise is an effective intervention for vulnerable groups and promoting healthy ageing, with activities including wilderness therapy, therapeutic horticulture and the use of forests and water. Chapters also integrate cross-cutting key themes which are relevant to all stages of the lifecourse and have significantly contributed to the Green Exercise research base, such as forest bathing and blue exercise. The book also explores the future of Green Exercise, the way in which research can be used to influence green design and planning and how health, social care and environmental agendas can be integrated to enable Green Exercise to be more widely used as a mechanism for improving health.

Green Exercise Oxford University Press
This book discusses and evaluates AI and machine learning (ML) algorithms in dealing with challenges that are primarily related to public health. It also helps find ways in which we can measure possible consequences and societal impacts by taking the following factors into account: open public health issues and common AI solutions (with multiple case studies, such as TB and SARS: COVID-19), AI in sustainable health care, AI in precision medicine and data privacy issues. Public health requires special attention as it drives economy and education system. COVID-19 is an example—a truly infectious disease outbreak. The vision of WHO is to create public health services that can deal with abovementioned crucial challenges by focusing on the following elements: health protection, disease prevention and health promotion. For

these issues, in the big data analytics era, AI and ML tools/techniques have potential to improve public health (e.g., existing healthcare solutions and wellness services). In other words, they have proved to be valuable tools not only to analyze/diagnose pathology but also to accelerate decision-making procedure especially when we consider resource-constrained regions.

Parallel Problem Solving from Nature – PPSN XVII Springer Nature

The Institute of Medicine study Crossing the Quality Chasm (2001) recommended that an interdisciplinary summit be held to further reform of health professions education in order to enhance quality and patient safety. Health Professions Education: A Bridge to Quality is the follow up to that summit, held in June 2002, where 150 participants across disciplines and occupations developed ideas about how to integrate a core set of competencies into health professions education. These core competencies include patient-centered care, interdisciplinary teams, evidence-based practice, quality improvement, and informatics. This book recommends a mix of approaches to health education improvement, including those related to oversight processes, the training environment, research, public reporting, and leadership. Educators, administrators, and health professionals can use this book to help achieve an approach to education that better prepares clinicians to meet both the needs of patients and the requirements of a changing health care system.

Digital Human Modeling. Applications in Health, Safety, Ergonomics, and Risk Management: Health and Safety Frontiers Media SA

This two-volume set LNCS 12035 and 12036 constitutes the refereed proceedings of the 42nd European Conference on IR Research, ECIR 2020, held in Lisbon, Portugal, in April 2020.* The 55 full papers presented together with 8 reproducibility papers, 46 short papers, 10 demonstration papers, 12 invited CLEF papers, 7 doctoral consortium papers, 4 workshop papers, and 3 tutorials were carefully reviewed and selected from 457 submissions. They were organized in topical sections named: Part I: deep learning I; entities; evaluation; recommendation; information extraction; deep learning II; retrieval; multimedia; deep learning III; queries; IR – general; question answering, prediction, and bias; and deep learning IV. Part II: reproducibility papers; short papers; demonstration papers; CLEF organizers lab track; doctoral consortium papers; workshops; and tutorials. *Due to the COVID-19 pandemic, this conference was held virtually.

Journal of the American Medical Association IOS Press

Biomedical engineering and health informatics are closely related to each other, and it is often difficult to tell where one ends and the other begins, but ICT systems in healthcare and biomedical systems and devices are already becoming increasingly interconnected, and share the common entity of data. This is something which is set to become even more prevalent in future, and will complete the chain and flow of information from the sensor, via processing, to the actuator, which may be anyone or anything from a human healthcare professional to a robot. Methods for automating the processing of information, such as signal processing, machine learning, predictive analytics and decision support, are increasingly important for providing actionable information and supporting personalized and preventive healthcare protocols in both biomedical and digital healthcare systems and applications. This book of proceedings presents 50 papers from the 12th eHealth conference, eHealth2018, held in Vienna, Austria, in May 2018. The theme of this year's conference is Biomedical Meets eHealth – From Sensors to Decisions, and the papers included here cover a wide range of topics from the field of eHealth. The book will be of interest to all those working to design and implement healthcare today.

One Hundred Years Young the Natural Way Springer Nature

This book focus on critical infrastructure protection. The chapters present detailed analysis of the issues and challenges in cyberspace and provide novel solutions in various aspects. The first part of the book focus on digital society, addressing critical infrastructure and different forms of the digitalization, strategic focus on cyber security, legal aspects on cyber security, citizen in digital society, and cyber security training. The second part focus on the critical infrastructure protection in different areas of the critical infrastructure. The chapters cover the cybersecurity situation awareness, aviation and air traffic control, cyber security in smart societies and cities, cyber security in smart buildings, maritime cyber security, cyber security in energy systems, and cyber security in healthcare. The third part presents the impact of new technologies upon cyber capability building as well as new challenges brought about by new technologies. These new technologies are among others are quantum technology, firmware and wireless technologies, malware analysis, virtualization.

Manual of Simulation in Healthcare Springer Nature

Known for its clear, comprehensive coverage of over 200 evidence-based skills, Clinical Nursing Skills & Techniques is today's leading nursing skills reference. It features nearly 1,000 full-color photographs and drawings, a nursing process framework, step-by-step instructions with rationales, and a focus on critical thinking and evidence-based practice. This edition includes new coverage of patient-centered care and safety guidelines, an emphasis on QSEN core competencies, and links to valuable online resources. Written by the trusted author team of Anne Griffin Perry and Patricia A. Potter, and now joined by new author Wendy Ostendorf, this reference helps you perform nursing skills with confidence. Coverage of QSEN core competencies includes delegation and collaboration, guidelines for reporting and recording, and pediatric, geriatric, home care, and teaching considerations. Unique! Using Evidence in Nursing Practice chapter covers the entire process of conducting research, including collecting, evaluating, and applying evidence from published research. Comprehensive coverage includes 212 basic, intermediate, and advanced nursing skills. Clinical Decision Points within skills address key safety issues or possible skill modifications for specific patient needs. Icons indicate video clips related to skills and procedures in the book and related lessons in Nursing Skills Online. Rationales for each skill step explain why steps are performed in a specific

way, including their clinical significance and benefit, and incorporate the latest research findings. The five-step nursing process provides a framework for the description of skills within overall client care. Unique! Unexpected outcomes and related interventions alert you to what might go wrong and how to appropriately intervene. Online checklists and video clips may be downloaded to mobile devices. NEW Patient-Centered Care sections address issues unique to people of specific cultural, ethnic, and demographic backgrounds - a QSEN core competency. NEW Safety Guidelines sections cover the global recommendations on the safe execution of skill sets - also a QSEN core competency. UPDATED Adverse Event Reporting (AER) procedural guideline covers the correct response to Serious Event Reporting within the healthcare facility. NEW! Safe Transfer to a Wheel Chair procedural guideline focuses on the safety aspect of this common maneuver. NEW! Communicating with the Cognitively Impaired Patient skill provides the understanding and protocol for dealing with patients who are unable to communicate in a typical manner. NEW! Assessing the Genitalia and Rectum skill includes complete information and rationales. NEW! Caring for Patients with Multi-Drug Resistant Organisms (MDRO) and C. difficili skill covers this growing challenge to patient welfare and to healthcare providers.

Clinical Imaging Physics Trafford Publishing

This title is directed primarily towards health care professionals outside of the United States. Dental cases form a significant part of any general practitioner's case load. Small Animal Dentistry will help practitioners to handle these cases in an effective way, minimising the frustrations and stress that can be associated with unsatisfactory technique. It will also help to identify what is possible and practical for the general practitioner and what is best left to a referral specialist. Unique new cased-based approach relating essential theory to clinical practice Modern, highly designed and illustrated so key information can be seen at a glance Self testing, MCQs and remediation means these books are ideally suited for CPD or as an exam revision aid Essential for all general small animal veterinary practitioners and students This is a series of must-have practical handbooks covering specific veterinary problems using a unique, consistent, cased-based approach. From simple routine first opinion cases to referrals and more complex clinical scenarios, the series provides the essential knowledge that will lead to improved skills and practice for veterinary practitioners undertaking clinical professional development or students nearing the end of their courses and needing a vital examination revision aid. New case-based approach helps relate essential theory to the real world of the busy clinic Each case outlines: initial presentation, clinical signs, examination techniques, differential diagnoses, treatment options, clinical tips and relevant nursing information Highly illustrated using full colour throughout so key information can be found at a glance Numerous self-assessment tests and multiple choice questions with remediation Ideally suited for CPD and as an exam revision aid

Working with Older People: Clinical aspects of aging Logical Books

This 5th edition of this essential textbook continues to meet the growing demand of practitioners, researchers, educators, and students for a comprehensive introduction to key topics in biomedical informatics and the underlying scientific issues that sit at the intersection of biomedical science, patient care, public health and information technology (IT). Emphasizing the conceptual basis of the field rather than technical details, it provides the tools for study required for readers to comprehend, assess, and utilize biomedical informatics and health IT. It focuses on practical examples, a guide to additional literature, chapter summaries and a comprehensive glossary with concise definitions of recurring terms for self-study or classroom use. Biomedical Informatics: Computer Applications in Health Care and Biomedicine reflects the remarkable changes in both computing and health care that continue to occur and the exploding interest in the role that IT must play in care coordination and the melding of genomics with innovations in clinical practice and treatment. New and heavily revised chapters have been introduced on human-computer interaction, mHealth, personal health informatics and precision medicine, while the structure of the other chapters has undergone extensive revisions to reflect the developments in the area. The organization and philosophy remain unchanged, focusing on the science of information and knowledge management, and the role of computers and communications in modern biomedical research, health and health care.

After Cancer Care Springer Nature

The two-volume set LNCS 10286 + 10287 constitutes the refereed proceedings of the 8th International Conference on Digital Human Modeling and Applications in Health, Safety, Ergonomics, and Risk Management, DHM 2017, held as part of HCI International 2017 in Vancouver, BC, Canada. HCII 2017 received a total of 4340 submissions, of which 1228 papers were accepted for publication after a careful reviewing process. The 75 papers presented in these volumes were organized in topical sections as follows: Part I: anthropometry, ergonomics, design and comfort; human body and motion modelling; smart human-centered service system design; and human-robot interaction. Part II: clinical and health information systems; health and aging; health data analytics and visualization; and design for safety.

Applied Computer Sciences in Engineering Rodale Books

This book provides rare insight into how real children/adolescents' lives unfold as a result of health inequity. The authors present the findings of empirical research into the health and social circumstances of 61 Australian children/adolescents, as reported by healthcare professionals who attended to their medical needs, revealing how healthcare professionals deal with health inequity on the ground. Profound inequities in the health and wellbeing of children/adolescents worldwide have been the focus of intense research for decades. The extent to which children/adolescents' health and wellbeing is impacted by violence, poverty, their inability to access integrated healthcare services, parental and adolescent substance abuse, unemployment, poor living conditions, poor nutrition, a fractured social support network, disrupted education, and lack of transportation, is widely recognized. While essential, statistical analyses alone cannot reveal the faces of those experiencing health inequity. This work highlights the need for urgent coordinated action to address health inequity so that children and young people have a chance to lead a full life in good health. It is relevant to researchers and practitioners whose work relates to improving children and young people's lives. " This book should be required reading for those who influence policies developed by all the sectors mentioned above and their funding and administrative bodies –

and politicians in particular" (Anonymous Reviewer).

Translating Artificial Intelligence Into Clinical Use Within Cardiology Frontiers Media SA

The newest edition of the most trusted nutrition bible. Since its first, highly successful edition in 1996, The Academy of Nutrition and Dietetics Complete Food and Nutrition Guide has continually served as the gold-standard resource for advice on healthy eating and active living at every age and stage of life. At once accessible and authoritative, the guide effectively balances a practical focus with the latest scientific information, serving the needs of consumers and health professionals alike. Opting for flexibility over rigid dos and don'ts, it allows readers to personalize their own paths to healthier living through simple strategies. This newly updated Fifth Edition addresses the most current dietary guidelines, consumer concerns, public health needs, and marketplace and lifestyle trends in sections covering Choices for Wellness; Food from Farm to Fork; Know Your Nutrients; Food for Every Age and Stage of Life; and Smart Eating to Prevent and Manage Health Issues.

Health Informatics Meets EHealth Springer Nature

This unique book comprehensively reviews how information technology is changing cardiovascular medical practice. Chapters include a wide range of topics from specific technologies and virtual care education to large system implementation. Extensive illustrative material and specific case studies are included throughout to reinforce key concepts and enable the reader to develop an understanding of how information technology is impacting medical practice. Health equity, medicolegal ethics, and regulatory considerations are also covered. Healthcare Information Technology for Cardiovascular Medicine: Telemedicine & Digital Health provides a foundation for better understanding how these technologies impact cardiovascular care delivery. Its comprehensive analysis enables healthcare providers and other stakeholders to enhance clinical practice through digital health implementation.

Health Inequity Experienced by Australian Paediatric Patients Elsevier Health Sciences

Clinical Communication Skills for Medicine is an essential guide to the core skills for effective patient-centered communication. In the twenty years since this book was first published the teaching of these skills has developed and evolved. Today's doctors fully appreciate the importance of communicating successfully and sensitively with people receiving health care and those close to them. This practical guide to developing communication skills will be of value to students throughout their careers. The order of the chapters reflects this development, from core skills to those required to respond effectively and compassionately in challenging situations. The text includes case examples, guidelines and opportunities to encourage the reader to stop and think. The contents of the book cover: The fundamental elements of clinical communication, including skills for effectively gathering and sharing information, discussing sensitive topics and breaking bad news. Shared decision making, reflecting the rapid changes in expectations of medical care and skills for supporting patients in making decisions which are right for them. Communicating with a patient's family, children and young people, patients from different cultural backgrounds, communicating via an interpreter and communicating with patients who have a hearing impairment. Diversity in communication, including examples of communicating with patients who have a learning disability, transgender patients, and older adult patients. Communicating about medical error, emphasising the importance of doctors being honest in the face of difficult situations. This is a practical guide to learning and developing communication skills throughout medical training. The chapters range from the development of basic skills to those dealing with challenging and difficult situations.

Elsevier Health Sciences

Be prepared for the opportunities that await you! In today's healthcare environment, the responsibilities and clinical practice of Licensed Practical Nurses and Licensed Vocational Nurses have expanded far beyond those of traditional settings. Build the knowledge you need to assume the leadership and management roles that you will be asked to fulfill and confidently navigate the increasingly complex environments in which you will practice. An easy-to-read writing style guides you every step of the way—helping you successfully transition from student to professional while still focusing on the humanistic aspects of caring.

Artificial Intelligence and Machine Learning in Public Healthcare Springer Nature

This two-volume set LNCS 13398 and LNCS 13399 constitutes the refereed proceedings of the 17th International Conference on Parallel Problem Solving from Nature, PPSN 2022, held in Dortmund, Germany, in September 2022. The 87 revised full papers were carefully reviewed and selected from numerous submissions. The conference presents a study of computing methods derived from natural models. Amorphous Computing, Artificial Life, Artificial Ant Systems, Artificial Immune Systems, Artificial Neural Networks, Cellular Automata, Evolutionary Computation, Swarm Computing, Self-Organizing Systems, Chemical Computation, Molecular Computation, Quantum Computation, Machine Learning, and Artificial Intelligence approaches using Natural Computing methods are just some of the topics covered in this field.

Natural Solutions for Food Allergies and Food Intolerances Elsevier Health Sciences

Practising fundamental patient care skills and techniques is essential to the development of trainees' wider competencies in all medical specialties. After the success of simulation learning techniques used in other industries, such as aviation, this approach has been adopted into medical education. This book assists novice and experienced teachers in each of these fields to develop a teaching framework that incorporates simulation. The Manual of Simulation in Healthcare, Second Edition is fully revised and updated. New material includes a greater emphasis on patient safety, interprofessional education, and a more descriptive illustration of simulation in the areas of education, acute care medicine, and aviation. Divided into three sections, it ranges from the logistics of establishing a simulation and skills centre and the inherent problems with funding, equipment, staffing, and course development to the considerations for healthcare-centred simulation within medical education and the steps required to develop courses that comply with 'best practice' in medical education. Providing an in-depth understanding of how medical educators can best

incorporate simulation teaching methodologies into their curricula, this book is an invaluable resource to teachers across all medical specialties.

The Top Ten Clinical Advances in Cardiovascular-pulmonary Medicine and Surgery Between 1945 and 1975, how They Came about Springer Nature Patient safety and quality improvement in health care remain a global priority. Subpar performance in health care, however, is still common more than a decade after the christening of patient safety in Africa. The core principle of safety and quality improvement systems is to identify and assess the root cause of failures in order to learn from them and devise a means to improve and to avoid recurrence. This book is designed to encourage, facilitate and empower healthcare workers in the development and implementation of strategically driven patient safety and quality improvement initiatives for safer healthcare systems and healthcare facilities in low- and middle-income countries (LMICs) of Africa.^It also highlights some of the profound challenges and barriers to designing and implementing patient safety and quality improvement interventions or programmes in the region and reiterates the need to remain focused and determined to work out solutions with confidence and overcome these barriers. In the book, chapters highlight six essential components crucial for achieving evolutionary progress in safety and quality improvement in a healthcare system: Standard operating procedure Audit Research Safety management Quality management Evaluation Practical steps in planning and conducting these six essential components are outlined with some specific features to aid learning and facilitate their implementation. The authors have experience and expertise in the medical practice gained in Africa and a decade of knowledge and experience from consultancy work in safety and quality improvement in health care within and outside the region.^Essentials for Quality and Safety Improvement in Health Care: A Resource for Developing Countries is authored for both medical professionals and those from other professions who are interested in and enthusiastic about patient safety and healthcare quality and therefore willing to build a career in this field. It is relevant to all health institutions, health and non-health workers, and can be used as a checklist while rendering quality and safe health care.