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KEY=IMPACT - MADALYNN MATHEWS

Skin Barrier Function

Karger Medical and Scientific Publishers **Although a very fragile structure, the skin barrier is probably one of the most important organs of the body. Inward/out it is responsible for body integrity and outward/in for keeping microbes, chemicals, and allergens from penetrating the skin. Since the role of barrier integrity in atopic dermatitis and the relationship to filaggrin mutations was discovered a decade ago, research focus has been on the skin barrier, and numerous new publications have become available. This book is an interdisciplinary update offering a wide range of information on the subject. It covers new basic research on skin markers, including results on filaggrin and on methods for the assessment of the barrier function. Biological variation and aspects of skin barrier function restoration are discussed as well. Further sections are dedicated to clinical implications of skin barrier integrity, factors influencing the penetration of the skin, influence of wet work, and guidance for prevention and saving the barrier. Distinguished researchers have contributed to this book, providing a comprehensive and thorough overview of the skin barrier function. Researchers in the field, dermatologists, occupational physicians, and related industry will find this publication an essential source of information.**

CDC Yellow Book 2018: Health Information for International Travel

Oxford University Press **THE ESSENTIAL WORK IN TRAVEL MEDICINE -- NOW COMPLETELY UPDATED FOR 2018** As unprecedented numbers of travelers cross international borders each day, the need for up-to-date, practical information about the health challenges posed by travel has never been greater. For both international travelers and the health professionals who care for them, the CDC Yellow Book 2018: Health Information for International Travel is the definitive guide to staying safe and healthy anywhere in the world. The fully revised and updated 2018 edition codifies the U.S. government's most current health guidelines and information for international travelers, including pretravel vaccine recommendations, destination-specific health advice, and easy-to-reference maps, tables, and charts. The 2018 Yellow Book also addresses the needs of specific types of travelers, with dedicated sections on: · Precautions for pregnant travelers, immunocompromised travelers, and travelers with disabilities · Special considerations for newly arrived adoptees, immigrants, and refugees · Practical tips for last-minute or resource-limited travelers · Advice for air crews, humanitarian workers, missionaries, and others who provide care and support overseas Authored by a team of the world's most esteemed travel medicine experts, the Yellow Book is an essential resource for travelers -- and the clinicians overseeing their care -- at home and abroad.

Artificial Intelligence in Medicine

17th Conference on Artificial Intelligence in Medicine,
AIME 2019, Poznan, Poland, June 26-29, 2019,

Proceedings

Springer This book constitutes the refereed proceedings of the 17th Conference on Artificial Intelligence in Medicine, AIME 2019, held in Poznan, Poland, in June 2019. The 22 revised full and 31 short papers presented were carefully reviewed and selected from 134 submissions. The papers are organized in the following topical sections: deep learning; simulation; knowledge representation; probabilistic models; behavior monitoring; clustering, natural language processing, and decision support; feature selection; image processing; general machine learning; and unsupervised learning.

The Future of Medical Journals

In Commemoration of 150 Years of the British Medical Journal

Amer College of Physicians

Coronary Microvascular Dysfunction

Springer Science & Business Media In the past two decades a number of studies have shown that abnormalities in the function and structure of coronary microcirculation can be detected in several cardiovascular diseases. On the basis of the clinical setting in which it occurs, coronary microvascular dysfunction (CMD) can be classified into four types: CMD in the absence of any other cardiac disease; CMD in myocardial diseases; CMD in obstructive epicardial coronary artery disease; and iatrogenic CMD. In some instances CMD represents an epiphenomenon, whereas in others it represents an important marker of risk or may contribute to the pathogenesis of myocardial ischemia, thus becoming a possible therapeutic target. This book provides an update on coronary physiology and a systematic assessment of microvascular abnormalities in cardiovascular diseases, in the hope that it will assist clinicians in prevention, detection

and management of CMD in their everyday activity.

Lifestyle Medicine

Essential MCQs for Certification in Lifestyle Medicine

John Wiley & Sons **LIFESTYLE MEDICINE** Written by an interdisciplinary and multinational team of distinguished medical doctors and authors, *Lifestyle Medicine* presents a collection of multiple-choice questions (MCQs) designed to help prepare a new generation of clinicians with the necessary knowledge to practice lifestyle medicine safely and confidently. Ideal for anyone preparing for examinations in the new specialty of lifestyle medicine at the postgraduate level, and especially useful for those studying for the Diploma in Lifestyle Medicine, taking the American Board of Lifestyle Medicine or International Board of Lifestyle Medicine exams, you will find every key aspect of lifestyle medicine in this book. 25 questions covering an introduction to lifestyle medicine, including definitions, the difference between lifestyle medicine and other fields, and Physician's Competencies in the practice of lifestyle medicine 62 questions covering the fundamentals of health behaviour change 47 questions covering key clinical processes in lifestyle medicine, including the classification of different lifestyle-related illnesses, measures of fitness, and fitness testing options 88 questions covering nutrition science, assessment, and prescription, including food labels and prescribing nutrition And much, much more: a total of 531 questions covering all key aspects of lifestyle medicine Perfect for clinicians in virtually any specialty aiming to develop expertise in lifestyle medicine, *Lifestyle Medicine* will also earn a place on the shelves of nurses and other allied health professionals, including pharmacists, dietitians and nutritionists, health educators, researchers, health coaches, and occupational therapists.

A Guide to the Scientific Career

Virtues, Communication, Research, and Academic Writing

John Wiley & Sons **A concise, easy-to-read source of essential tips and skills for writing research papers and career management** In order to be truly successful in the biomedical professions, one must have excellent communication skills and networking abilities. Of equal importance is the possession of sufficient clinical knowledge, as well as a proficiency in conducting research and writing scientific papers. This unique and important book provides medical students and residents with the most commonly encountered topics in the academic and professional lifestyle, teaching them all of the practical nuances that are often only learned through experience. Written by a team of experienced professionals to help guide younger researchers, *A Guide to the Scientific Career: Virtues, Communication, Research and Academic Writing* features ten sections composed of seventy-four chapters that cover: qualities of research scientists; career satisfaction and its determinants; publishing in academic medicine; assessing a researcher's scientific productivity and scholarly impact; manners in academics; communication skills; essence of collaborative research; dealing with manipulative people; writing and scientific misconduct: ethical and legal aspects; plagiarism; research regulations, proposals, grants, and practice; publication and resources; tips on writing every type of paper and report; and much more. An easy-to-read source of essential tips and skills for scientific research **Emphasizes good communication skills, sound clinical judgment, knowledge of research methodology, and good writing skills** Offers comprehensive guidelines that address every aspect of the medical student/resident academic and professional lifestyle **Combines elements of a career-management guide and publication guide in one comprehensive reference source** Includes selected personal stories by great researchers, fascinating writers, inspiring mentors, and extraordinary clinicians/scientists *A Guide to the Scientific Career: Virtues, Communication, Research and Academic Writing* is an excellent interdisciplinary text that will appeal to all medical students and scientists who seek to improve their writing and communication skills in order to make the most of their chosen career.

Treatment Planning of High Dose-Rate Brachytherapy - Mathematical Modelling and Optimization

Linköping University Electronic Press **Cancer is a widespread class of diseases that each year affects millions of people. It is mostly treated with chemotherapy, surgery, radiation therapy, or combinations thereof. High dose-rate (HDR) brachytherapy (BT) is one modality of radiation therapy, which is used to treat for example prostate cancer and gynecologic cancer. In BT, catheters (i.e., hollow needles) or applicators are used to place a single, small, but highly radioactive source of ionizing radiation close to or within a tumour, at dwell positions. An emerging technique for HDR BT treatment is intensity modulated brachytherapy (IMBT), in which static or dynamic shields are used to further shape the dose distribution, by hindering the radiation in certain directions. The topic of this thesis is the application of mathematical optimization to model and solve the treatment planning problem. The treatment planning includes decisions on catheter placement, that is, how many catheters to use and where to place them, as well as decisions for dwell times. Our focus is on the latter decisions. The primary treatment goals are to give the tumour a sufficiently high radiation dose while limiting the dose to the surrounding healthy organs, to avoid severe side effects. Because these aims are typically in conflict, optimization models of the treatment planning problem are inherently multiobjective. Compared to manual treatment planning, there are several advantages of using mathematical optimization for treatment planning. First, the optimization of treatment plans requires less time, compared to the time-consuming manual planning. Secondly, treatment plan quality can be improved by using optimization models and algorithms. Finally, with the use of sophisticated optimization models and algorithms the requirements of experience and skill level for the planners are lower. The use of optimization for treatment planning of IMBT is especially important because the degrees of freedom are too many for manual planning. The contributions of this thesis include the study of properties of treatment planning models, suggestions for extensions and improvements of proposed models, and the development of new optimization models that take clinically relevant, but uncustomary aspects, into account in the treatment planning. A common theme is the modelling of constraints on dosimetric indices, each of which is a restriction on the portion of a volume that receives at least a specified dose, or on the lowest dose that is received by a portion of a volume. Modelling dosimetric indices explicitly yields mixed-integer programs which are computationally demanding to solve. We have therefore investigated approximations of dosimetric indices, for example using smooth**

non-linear functions or convex functions. Contributions of this thesis are also a literature review of proposed treatment planning models for HDR BT, including mathematical analyses and comparisons of models, and a study of treatment planning for IMBT, which shows how robust optimization can be used to mitigate the risks from rotational errors in the shield placement. Cancer är en grupp av sjukdomar som varje år drabbar miljontals människor. De vanligaste behandlingsformerna är cellgifter, kirurgi, strålbehandling eller en kombination av dessa. I denna avhandling studeras högdosrat brachyterapi (HDR BT), vilket är en form av strålbehandling som till exempel används vid behandling av prostatacancer och gynekologisk cancer. Vid brachyterapibehandling används ihåliga nålar eller applikatorer för att placera en millimeterstor strålkälla antingen inuti eller intill en tumör. I varje nål finns det ett antal så kallade dröjpositioner där strålkällan kan stanna en viss tid för att bestråla den omkringliggande vävnaden, i alla riktningar. Genom att välja lämpliga tider för dröjpositionerna kan dosfördelningen formas efter patientens anatomi. Utöver HDR BT studeras också den nya tekniken intensitetsmodulerad brachyterapi (IMBT) vilket är en variation på HDR BT där skärmning används för att minska strålningen i vissa riktningar vilket gör det möjligt att forma dosfördelningen bättre. Planeringen av en behandling med HDR BT omfattar hur många nålar som ska användas, var de ska placeras samt hur länge strålkällan ska stanna i de olika dröjpositionerna. För HDR BT kan dessa vara flera hundra stycken medan det för IMBT snarare handlar om tusentals möjliga kombinationer av dröjpositioner och inställningar av skärmarna. Planeringen resulterar i en dosplan som beskriver hur hög stråldos som tumören och intilliggande frisk vävnad och riskorgan utsätts för. Dosplaneringen kan formuleras som ett matematiskt optimeringsproblem vilket är ämnet för avhandlingen. De övergripande målsättningarna för behandlingen är att ge en tillräckligt hög stråldos till tumören, för att döda alla cancerceller, samt att undvika att bestråla riskorgan eftersom det kan ge allvarliga biverkningar. Då alla målsättningarna inte samtidigt kan uppnås fullt ut så fås optimeringsproblem där flera målsättningar behöver prioriteras mot varandra. Utöver att dosplanen uppfyller kliniska behandlingsriktlinjer så är också tidsaspekten av planeringen viktig eftersom det är vanligt att den görs medan patienten är bedövad eller sövd. Vid utvärdering av en dosplan används dos-volyymmått. För en tumör anger ett dosvolyymmått hur stor andel av tumören som får en stråldos som är högre än en specificerad nivå. Dos-volyymmått utgör en viktig del av målen för dosplaner som tas upp i kliniska behandlingsriktlinjer och ett exempel på ett sådant mål vid behandling av prostatacancer är att 95% av prostatans volym ska få en stråldos som är minst den föreskrivna dosen. Dos-volyymmått utläses ur de kliniskt betydelsefulla dos-volym histogrammen som för varje stråldosnivå anger motsvarande volym som erhåller den dosen. En fördel med att använda matematisk optimering för dosplanering är att det kan spara tid jämfört med manuell planering. Med väl utvecklade modeller så finns det också möjlighet att skapa bättre dosplaner, till exempel genom att riskorganen nås av

en lägre dos men med bibehållen dos till tumören. Vidare så finns det även fördelar med en process som inte är lika personberoende och som inte kräver erfarenhet i lika stor utsträckning som manuell dosplanering i dagsläget gör. Vid IMBT är det dessutom så många frihetsgrader att manuell planering i stort sett blir omöjligt. I avhandlingen ligger fokus på hur dos-volymmått kan användas och modelleras explicit i optimeringsmodeller, så kallade dos-volymmodeller. Detta omfattar såväl analys av egenskaper hos befintliga modeller, utvidgningar av tidigare använda modeller samt utveckling av nya optimeringsmodeller. Eftersom dos-volymmodeller modelleras som heltalsproblem, vilka är beräkningskrävande att lösa, så är det också viktigt att utveckla algoritmer som kan lösa dem tillräckligt snabbt för klinisk användning. Ett annat mål för modellutvecklingen är att kunna ta hänsyn till fler kriterier som är kliniskt relevanta men som inte ingår i dos-volymmodeller. En sådan kategori av mått är hur dosen är fördelad rumsligt, exempelvis att volymen av sammanhängande områden som får en alldeles för hög dos ska vara liten. Sådana områden går dock inte att undvika helt eftersom det är typiskt för dosplaner för brachyterapi att stråldosen fördelar sig ojämnt, med väldigt höga doser till små volymer precis intill strålkällorna. Vidare studeras hur små fel i inställningarna av skärmningen i IMBT påverkar dosplanens kvalitet och de olika utvärderingsmått som används kliniskt. Robust optimering har använts för att säkerställa att en dosplan tas fram som är robust sett till dessa möjliga fel i hur skärmningen är placerad. Slutligen ges en omfattande översikt över optimeringsmodeller för dosplanering av HDR BT och speciellt hur optimeringsmodellerna hanterar de motstridiga målsättningarna.

Influence of Industry-supported Trials on the Impact Factor of Major General Medical Journals

Mapping AIDS

Visual Histories of an Enduring Epidemic

Cambridge University Press In this innovative study, Lukas Engelmann examines visual traditions in modern medical history through debates about the causes, impact and spread of AIDS. Utilising medical AIDS atlases produced

between 1986 and 2008 for a global audience, Engelmann argues that these visual textbooks played a significant part in the establishment of AIDS as a medical phenomenon. However, the visualisations risked obscuring the social, cultural and political complexity of AIDS history. Photographs of patients were among the earliest responses to the mysterious syndrome, cropped and framed to deliver a visible characterisation of AIDS to a medical audience. Maps then offered an abstracted image of the regions invaded by the epidemic, while the icon of the virus aspired to capture the essence of AIDS. The epidemic's history is retold through clinical photographs, epidemiological maps and icons of HIV, asking how this devastating epidemic has come to be seen as a controllable chronic condition.

Stereotactic Body Radiation Therapy

Springer Science & Business Media Stereotactic body radiation therapy (SBRT) has emerged as an important innovative treatment for various primary and metastatic cancers. This book provides a comprehensive and up-to-date account of the physical/technological, biological, and clinical aspects of SBRT. It will serve as a detailed resource for this rapidly developing treatment modality. The organ sites covered include lung, liver, spine, pancreas, prostate, adrenal, head and neck, and female reproductive tract. Retrospective studies and prospective clinical trials on SBRT for various organ sites from around the world are examined, and toxicities and normal tissue constraints are discussed. This book features unique insights from world-renowned experts in SBRT from North America, Asia, and Europe. It will be necessary reading for radiation oncologists, radiation oncology residents and fellows, medical physicists, medical physics residents, medical oncologists, surgical oncologists, and cancer scientists.

The World Health Organization

A History

Cambridge University Press A history of the World Health Organization, covering major achievements in its seventy years while also highlighting the organization's internal tensions. This account by three leading historians of medicine examines how well the organization has pursued its aim of everyone, everywhere attaining the highest possible level of health.

Clinical Preventive Medicine

Amer Medical Assn **This new Second Edition delivers the latest scientific information and practical guidelines for daily use by all clinicians. The authors provide the comprehensive, practical resource you need to help your patients maintain health and prevent disease. The text critically examines the most effective preventive strategies and offers proven, practical ways to integrate them into your daily clinical practice.**

Social Emergency Medicine

Principles and Practice

Springer Nature **Social Emergency Medicine incorporates consideration of patients' social needs and larger structural context into the practice of emergency care and related research. In doing so, the field explores the interplay of social forces and the emergency care system as they influence the well-being of individual patients and the broader community. Social Emergency Medicine recognizes that in many cases typical fixes such as prescriptions and follow-up visits are not enough; the need for housing, a safe neighborhood in which to exercise or socialize, or access to healthy food must be identified and addressed before patients' health can be restored. While interest in the subject is growing rapidly, the field of Social Emergency Medicine to date has lacked a foundational text - a gap this book seeks to fill. This book includes foundational chapters on the salience of racism, gender and gender identity, immigration, language and literacy, and neighborhood to emergency care. It provides readers with knowledge and resources to assess and assist emergency department patients with social needs including but not limited to housing, food, economic opportunity, and transportation. Core emergency medicine content areas including violence and substance use are covered uniquely through the lens of Social Emergency Medicine. Each chapter provides background and research, implications and recommendations for practice from the bedside to the hospital/healthcare system and beyond, and case studies for teaching. Social Emergency Medicine: Principles and Practice is an essential resource for physicians and physician assistants, residents, medical students, nurses and nurse practitioners, social workers, hospital administrators, and other professionals who recognize that high-quality emergency care extends beyond the**

ambulance bay.

"why I Became an Occupational Physician" and Other Occupational Health Stories

Oxford University Press, USA **"Why I Became an Occupational Physician" and Other Occupational Health Stories** brings together an edited collection of the short articles published in the journal *Occupational Medicine* between 2002 and 2018. The articles originally appeared as 'fillers', commissioned to literally 'fill' the blank spaces at the end of the main scientific papers, but they soon became a feature in their own right. Written by doctors working in occupational medicine and health, the fillers began as a series of pieces exploring the varied and often surprising reasons why the individuals chose to pursue this unique speciality, whether it was a natural career move, triggered by a specific event, or stumbled upon by chance. Over time the articles became much broader in their scope and the journal began to attract pieces from some brilliant writers: Mike Gibson, John Challenor, Nerys Williams, and of course the superlative Anthony Seaton, amongst many others. Each article offers something different: a peek into history, a humorous adventure, a quiet musing, or a thought-provoking observation, but all are tied together under the umbrella of occupational medicine, a speciality that is often little known or understood in the wider world of medicine. This book brings together over 15 years' worth of fascinating and diverse articles into one volume for the first time, giving a rare insight into the world of the occupational physician.

Eating in Theory

Duke University Press **As we taste, chew, swallow, digest, and excrete, our foods transform us, while our eating, in its turn, affects the wider earthly environment. In *Eating in Theory* Annemarie Mol takes inspiration from these transformative entanglements to rethink what it is to be human. Drawing on fieldwork at food conferences, research labs, health care facilities, restaurants, and her own kitchen table, Mol reassesses the work of authors such as Hannah Arendt, Maurice Merleau-Ponty, Hans Jonas, and Emmanuel Levinas. They celebrated the allegedly unique capability of humans to rise above their immediate bodily needs. Mol, by contrast, appreciates that as humans we share our fleshy substance with other living beings, whom we cultivate, cut into pieces, transport, prepare, and incorporate—and to**

whom we leave our excesses. This has far-reaching philosophical consequences. Taking human eating seriously suggests a reappraisal of being as transformative, knowing as entangling, doing as dispersed, and relating as a matter of inescapable dependence.

Quality of Life

A Post-Pandemic Philosophy of Medicine

Andrews UK Limited **The Covid-19 pandemic has shown the need for a fresh look at health and health care. This book offers a philosophical critique of medicine as applied science, but more positively it stresses the social causes of disease and argues for greater equity in the distribution of resources and the benefits of a wider evidence-base for medical treatments. The suggested approach requires a new direction for medical ethics, one which uses the arts and humanities and leads to a revised idea of medical education and medical professionalism. The suggested approach implies a move away from the individualistic philosophy of medicine towards a new aim – community-based quality of life. The achievement of this aim certainly requires an expansion of public health medicine and health promotion but it also requires medical co-operation with the many arts and other community agencies concerned with our health and well-being. Doctors and other health professionals must work through the community rather than on it.**

Nurturing Indonesia

Medicine and Decolonisation in the Dutch East Indies

Cambridge University Press **Hans Pols proposes a new perspective on the history of colonial medicine from the viewpoint of indigenous physicians. The Indonesian medical profession in the Dutch East Indies actively participated in political affairs by joining and leading nationalist associations, by publishing in newspapers and magazines, and by becoming members of city councils and the colonial parliament. Indonesian physicians were motivated by their medical training, their experiences as physicians, and their subordinate position within the colonial health care system to organise, lead, and join social, cultural, and political associations. Opening with the founding of Indonesia's first political**

association in 1908 and continuing with the initiatives of the Association of Indonesian Physicians, Pols describes how the Rockefeller Foundation's projects inspired the formulation of a nationalist health programme. Tracing the story through the Japanese annexation, the war of independence, and independent Indonesia, Pols reveals the relationship between medicine and decolonisation, and the role of physicians in Asian history.

Polio Across the Iron Curtain

Hungary's Cold War with an Epidemic

Cambridge University Press Through the lens of polio, Dóra Vargha looks anew at international health, communism and Cold War politics. This title is also available as Open Access.

Medical and Scientific Publishing

Author, Editor, and Reviewer Perspectives

Academic Press Very few doctors and scientists receive any sort of systematic training in publishing, editing, and reviewing scholarly articles, despite the central importance of that work for scientific research and for their careers. **Medical and Scientific Publishing** will help fill the gap and help readers to: Understand processes of scientific and medical publishing Understand the role of an academic in medical publishing Become a better scientific communicator Develop skills to effectively serve as the editor of a medical journal **Medical and Scientific Publishing** is based on a successful course at the University of Michigan Medical School for third and fourth year medical students. The course teaches students not just how to write scientific and medical articles, but addresses key issues surrounding copyright, ethics, open access and much more. Students will build a strong foundation on how to do peer review and how to be authors and editors which are important skills in building a professional career. Covers a full range of essential information - explanation of publishing licenses, copyright and permissions, how to do peer review, how to write effectively, how journal publishing works, and much more Emphasizes rigor, quality, and scientific integrity in writing, editing, and publishing Focuses on authorship and editorial skills by experienced authors and publishers

The Human Right to Health (Norton Global Ethics Series)

W. W. Norton & Company “A broad-ranging, insightful analysis of the complex practical and ethical issues involved in global health.”—Kirkus Reviews Few topics in human rights have inspired as much debate as the right to health. Proponents would enshrine it as a fundamental right on a par with freedom of speech and freedom from torture. Detractors suggest that the movement constitutes an impractical over-reach. Jonathan Wolff cuts through the ideological stalemate to explore both views. In an accessible, persuasive voice, he explores the philosophical underpinnings of the idea of a human right, assesses whether health meets those criteria, and identifies the political and cultural realities we face in attempts to improve the health of citizens in wildly different regions. Wolff ultimately finds that there is a path forward for proponents of the right to health, but to succeed they must embrace certain intellectual and practical changes. *The Human Right to Health* is a powerful and important contribution to the discourse on global health.

Tennis Medicine

A Complete Guide to Evaluation, Treatment, and Rehabilitation

Springer This book will serve as a key resource for all clinicians working in orthopedics, sports medicine, and rehabilitation for the sport of tennis. It provides clinically useful information on evaluation and treatment of the tennis player, covering the entire body and both general medical and orthopedic musculoskeletal topics. Individual sections focus on tennis-related injuries to the shoulder, the elbow, wrist, and hand, the lower extremities, and the core/spine, explaining treatment and rehabilitation approaches in detail. Furthermore, sufficient sport science information is presented to provide the clinical reader with extensive knowledge of tennis biomechanics and the physiological aspects of training and rehabilitation. Medical issues in tennis players, such as nutrition and hydration, are also discussed, and a closing section focuses on other key topics, including movement dysfunction, periodization, core

training, and strength and conditioning specifics. The expansive list of worldwide contributors and experts coupled with the comprehensive and far-reaching chapter provision make this the highest-level tennis medicine book ever published.

Global Health Informatics

How Information Technology Can Change Our Lives in a Globalized World

Academic Press **Global Health Informatics: How Information Technology Can Change Our Lives in a Globalized World** discusses the critical role of information and communication technologies in health practice, health systems management and research in increasingly interconnected societies. In a global interconnected world the old standalone institutional information systems have proved to be inadequate for patient-centered care provided by multiple providers, for the early detection and response to emerging and re-emerging diseases, and to guide population-oriented public health interventions. The book reviews pertinent aspects and successful current experiences related to standards for health information systems; digital systems as a support for decision making, diagnosis and therapy; professional and client education and training; health systems operation; and intergovernmental collaboration. Discusses how standalone systems can compromise health care in globalized world Provides information on how information and communication technologies (ICT) can support diagnose, treatment, and prevention of emerging and re-emerging diseases Presents case studies about integrated information and how and why to share data can facilitate governance and strategies to improve life conditions

Free Radicals in Biology and Medicine

Oxford University Press **Free Radicals in Biology and Medicine** has become a classic text in the field of free radical and antioxidant research. Now in its fifth edition, the book has been comprehensively rewritten and updated whilst maintaining the clarity of its predecessors. Two new chapters discuss 'in vivo' and 'dietary' antioxidants, the first

emphasising the role of peroxiredoxins and integrated defence mechanisms which allow useful roles for ROS, and the second containing new information on the role of fruits, vegetables, and vitamins in health and disease. This new edition also contains expanded coverage of the mechanisms of oxidative damage to lipids, DNA, and proteins (and the repair of such damage), and the roles played by reactive species in signal transduction, cell survival, death, human reproduction, defence mechanisms of animals and plants against pathogens, and other important biological events. The methodologies available to measure reactive species and oxidative damage (and their potential pitfalls) have been fully updated, as have the topics of phagocyte ROS production, NADPH oxidase enzymes, and toxicology. There is a detailed and critical evaluation of the role of free radicals and other reactive species in human diseases, especially cancer, cardiovascular, chronic inflammatory and neurodegenerative diseases. New aspects of ageing are discussed in the context of the free radical theory of ageing. This book is recommended as a comprehensive introduction to the field for students, educators, clinicians, and researchers. It will also be an invaluable companion to all those interested in the role of free radicals in the life and biomedical sciences.

Publishing Your Medical Research

Lippincott Williams & Wilkins **Publishing Your Medical Research** is the second edition of the award-winning book that provides practical information on how to write a publishable paper. This edition includes additional details to help medical researchers succeed in the competitive “publish or perish” world. Using a direct and highly informative style, it does more than help you write a paper; it presents the technical information, invaluable modern advice, and practical tips you need to get your paper accepted for publication. A singular source for the beginning and experienced researcher alike, **Publishing Your Medical Research** is a must for any physician, fellow, resident, medical scientist, graduate student, or biostatistician seeking to be published.

Cerebral Small Vessel Disease

Cambridge University Press **Up-to-date discussion of the etiology, diagnosis, treatment, and prevention of this common cause of stroke and cognitive impairment.**

Personal Networks

Classic Readings and New Directions in Egocentric Analysis

Cambridge University Press **Combines classic and cutting-edge scholarship on personal social networks. A must-have resource for both newcomers and seasoned experts.**

Havana Syndrome

Mass Psychogenic Illness and the Real Story Behind the Embassy Mystery and Hysteria

Springer Nature **It is one of the most extraordinary cases in the history of science: the mating calls of insects were mistaken for a “sonic weapon” that led to a major diplomatic row. Since August 2017, the world media has been absorbed in the “attack” on diplomats from the American and Canadian Embassies in Cuba. While physicians treating victims have described it as a novel and perplexing condition that involves an array of complaints including brain damage, the authors present compelling evidence that mass psychogenic illness was the cause of “Havana Syndrome.” This mysterious condition that has baffled experts is explored across 11-chapters which offer insights by a prominent neurologist and an expert on psychogenic illness. A lively and enthralling read, the authors explore the history of similar scares from the 18th century belief that sounds from certain musical instruments were harmful to human health, to 19th century cases of “telephone shock,” and more contemporary panics involving people living near wind turbines that have been tied to a variety of health complaints. The authors provide dozens of examples of kindred episodes of mass hysteria throughout history, in addition to psychosomatic conditions and even the role of insects in**

triggering outbreaks. **Havana Syndrome: Mass Psychogenic Illness and the Real Story Behind the Embassy Mystery and Hysteria** is a scientific detective story and a case study in the social construction of mass psychogenic illness.

Radiopharmaceutical Chemistry

Springer This book is a comprehensive guide to radiopharmaceutical chemistry. The stunning clinical successes of nuclear imaging and targeted radiotherapy have resulted in rapid growth in the field of radiopharmaceutical chemistry, an essential component of nuclear medicine and radiology. However, at this point, interest in the field outpaces the academic and educational infrastructure needed to train radiopharmaceutical chemists. For example, the vast majority of texts that address radiopharmaceutical chemistry do so only peripherally, focusing instead on nuclear chemistry (i.e. nuclear reactions in reactors), heavy element radiochemistry (i.e. the decomposition of radioactive waste), or solely on the clinical applications of radiopharmaceuticals (e.g. the use of PET tracers in oncology). This text fills that gap by focusing on the chemistry of radiopharmaceuticals, with key coverage of how that knowledge translates to the development of diagnostic and therapeutic radiopharmaceuticals for the clinic. The text is divided into three overarching sections: First Principles, Radiochemistry, and Special Topics. The first is a general overview covering fundamental and broad issues like “The Production of Radionuclides” and “Basics of Radiochemistry”. The second section is the main focus of the book. In this section, each chapter’s author will delve much deeper into the subject matter, covering both well established and state-of-the-art techniques in radiopharmaceutical chemistry. This section will be divided according to radionuclide and will include chapters on radiolabeling methods using all of the common nuclides employed in radiopharmaceuticals, including four chapters on the ubiquitously used fluorine-18 and a “Best of the Rest” chapter to cover emerging radionuclides. Finally, the third section of the book is dedicated to special topics with important information for radiochemists, including “Bioconjugation Methods,” “Click Chemistry in Radiochemistry”, and “Radiochemical Instrumentation.” This is an ideal educational guide for nuclear medicine physicians, radiologists, and radiopharmaceutical chemists, as well as residents and trainees in all of these areas.

Making Sense of Journals in the Physical Sciences

From Specialty Origins to Contemporary Assortment

Psychology Press **The author lays out the patterns of subject specialization within chemistry and physics in non-technical language, emphasizing the often colourful people and events that influenced the founding of new areas of research and their journals.**

Therapeutic Nuclear Medicine

Springer **The recent revolution in molecular biology offers exciting new opportunities for targeted radionuclide therapy. This up-to-date, comprehensive book, written by world-renowned experts, discusses the basic principles of radionuclide therapy, explores in detail the available treatments, explains the regulatory requirements, and examines likely future developments. The full range of clinical applications is considered, including thyroid cancer, hematological malignancies, brain tumors, liver cancer, bone and joint disease, and neuroendocrine tumors. The combination of theoretical background and practical information will provide the reader with all the knowledge required to administer radionuclide therapy safely and effectively in the individual patient. Careful attention is also paid to the role of the therapeutic nuclear physician in coordinating a diverse multidisciplinary team, which is central to the safe provision of treatment.**

Medical Image Analysis

Academic Press **Medical imaging is increasingly at the base of many fundamental breakthroughs in biomedical sciences, becoming a fundamental enabling technology of biomedical scientific progress. This book presents practical knowledge on medical image computing and analysis. Written by top educators and experts in the field, this text is a modern, practical, broad, and self-contained reference that conveys a mix of fundamental methodological concepts within different medical domains, reflecting the nature of the discipline today. Learn: The core representations and properties of digital images and image enhancement techniques. Advanced image computing methods including segmentation, registration, motion and shape analysis, and machine learning. How medical image computing (MIC) is used in clinical and medical research. How to identify alternative strategies and employ software tools to solve typical problems in MIC.**

An authoritative description of key concepts and methods Tutorial-based sections that clearly explain the principles and their application to different medical domains Self-contained chapters provide flexibility, allowing the text to be used on courses with different structures A representative selection of topics to match a modern and relevant approach to medical image computing Focus on medical image computing as a technology to meet clinical needs

London Journal of Medical and Health Research

Ljmr

London Journal of Medical and Health Research LJMHR is an international journal of medical sciences and health focus on to encourage the research in the field of Medicine and Health Sciences. The mission of this medical journal is to promote and publish original high-quality medical research papers and health journal articles in all disciplines of medical and health sciences. It stimulates new research ideas and fosters practical application from the research findings and aims to cover the latest outstanding developments in the field of all Medical and Health Sciences.

Getting Research Published

An A-Z of Publication Strategy, Second Edition

CRC Press **Getting research published can be difficult and frustrating. Many authors experience long delays, high rejection rates and journal processes that can seem so opaque and arcane that even those who have successfully published are often unable to say what they did right. Understanding publication strategy can prevent or reduce many of these problems. This revised and updated edition of Liz Wager's popular and highly regarded guide uncovers the ethics, conventions and often unwritten rules of publishing in peer-reviewed journals and at conferences. It gives clear advice on how to choose the right journal, how to avoid delays, authorship disputes and many other problems associated with being published. The A-Z format makes this a clear, accessible resource relevant to readers with different levels of experience and different backgrounds, including students and healthcare professionals, medical researchers, and people working in drug companies and communications agencies developing publication strategies. 'A**

very readable and authoritative guide to every aspect of publishing in scientific journals. The book's layout means that readers are both provided with a routemap for publishing but can also find quickly information on the topics that might be bothering them.' Richard Smith in his Foreword From reviews of the first edition: 'Intelligently written, logical and solid.' BMJ CAREER FOCUS 'An essential resource' - NURSING STANDARD 'Subvert the system. Buy the book. Put it with the other reference books on your desk. And use it to get published.' EUROPEAN SCIENCE EDITING 'I would have no hesitation in recommending this book to colleagues. I wish I had had something similar when I started out!' CLINICIAN IN MANAGEMENT

Healing Knowledge in Atlantic Africa

Cambridge University Press Kananoja demonstrates how medical interaction in early modern Atlantic Africa was characterised by continuous knowledge exchange between Africans and Europeans.

Provincial Medical & Surgical Journal

Reporting and Publishing Research in the Biomedical Sciences

Springer This book eases the task of converting research work into a manuscript, and covers the recent developments in publishing that often stump budding researchers. Few researchers in the biomedical sciences are trained in the essential skills of reporting their results, and they seek help in writing a paper that will be acceptable for publication in the 'right' journal, and in presenting their results 'effectively' at a meeting. As well as covering the basic aspects of preparing manuscripts for publication, the book discusses best practices and issues relating to the publication of biomedical research, including topics such as peer-review, authorship, plagiarism, conflicts of interest, publication misconduct, electronic publishing and open-access journals. With more than two decades of experience in conducting workshops on writing scientific papers, the editors have brought together the expertise of 29 authors from seven countries to produce this one-stop guide to publishing research in biomedical sciences. This book is intended for young

researchers who are beginning their careers and wish to hone their skills and understand the rigors of research writing and publishing.

Medical Writing

A Guide for Clinicians, Educators, and Researchers

Springer This book is a clear and comprehensive guide that assists readers in translating observations, ideas, and research into articles, reports, or book chapters ready for publication. For both researchers and practicing physicians, skills in medical writing are essential. Dr. Robert B. Taylor, a distinguished leader in academic medicine, uses a clear, conversational style throughout this book to emphasize the professional and personal enrichment that writing can bring. The text includes in depth instructions for writing and publishing: review articles, case reports, editorials and letters to the editor, book reviews, book chapters, reference books, research protocols, grant proposals, and research reports. This third edition is additionally fully updated to include the intricacies of medical writing and publishing today, with new coverage of: open access, pay to publish and predatory journals, peer review fraud, publication bias, parachute studies, public domain images, and phantom authors. Loaded with practical information, tips to help achieve publication, and real world examples, Medical Writing can improve skills for clinicians, educators, and researchers, whether they are new to writing or seasoned authors.

The COVID-19 Catastrophe

What's Gone Wrong and How to Stop It Happening Again

John Wiley & Sons The global response to the COVID-19 pandemic is the greatest science policy failure in a generation. We knew this was coming. Warnings about the threat of a new pandemic have been made repeatedly since the 1980s and it was clear in January that a dangerous new virus was causing a devastating human tragedy in China. And yet the world ignored the warnings. Why? In this short and hard-hitting book, Richard Horton, editor of the medical journal The Lancet, scrutinizes the actions that governments around the world took ? and failed to take ? as the virus spread

from its origins in Wuhan to the global pandemic that it is today. He shows that many Western governments and their scientific advisors made assumptions about the virus and its lethality that turned out to be mistaken. Valuable time was lost while the virus spread unchecked, leaving health systems unprepared for the avalanche of infections that followed. Drawing on his own scientific and medical expertise, Horton outlines the measures that need to be put in place, at both national and international levels, to prevent this kind of catastrophe from happening again.? Were supposed to be living in an era where human beings have become the dominant influence on the environment, but COVID-19 has revealed the fragility of our societies and the speed with which our systems can come crashing down. We need to learn the lessons of this pandemic and we need to learn them fast because the next pandemic may arrive sooner than we think.

Eastern Medical Journal