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fundamentals of drug development enables readers to understand the process of pharmaceutical research its regulatory basis and how it fits into the global healthcare environment this book discusses how to conduct pharmaceutical research and the context for how the industry fits into global healthcare holistically the well qualified author helps readers and students of drug development appreciate the time and expense of the process specifically the work identifies the emerging trends shaping the future of drug development along with important related topics like generic drugs data sharing and collaboration to aid in seamless reader comprehension the book includes a glossary of terms and a self assessment quiz for each chapter at the end powerpoint slides are also available as an online ancillary for adopting professors sample topics covered in the book include drug development and its phases decision making processes drug development milestones and compound progression metrics the various disciplines involved along with an assessment of the complexity and risks associated across the stages of development differences in the nature and scope of development programs due to the therapeutic area of interest associated costs and resources required graduate students and professors teaching courses in drug development drug discovery pharmaceuticals medicinal chemistry and drug synthesis will be able to use this book as a complete resource for understanding all the complexities and nuances involved in the drug development process

cowan s microbiology fundamentals a clinical approach is the perfect fit to align with your course here s why the author team includes a practicing nurse to help students see how the content fits in their lives and relates to their future career on every page a briefer text means all core concepts are covered but streamlined to better fit the length of your course a more modern

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a range of investigative problem solving articles pertaining to current developments in educational systems this collection draws from faculty experiences gained while implementing and utilizing a combination of telecommunications and web enabled technologies addressing trends and issues and exploring the opportunities and problems confronting colleges and universities related to this relatively new practice the articles present numerous academic perspectives and provide concepts for effectively utilizing and managing web based education in a teaching environment proving recognizable competition to traditional university education many public and private colleges and universities are facing the challenges and opportunities offered by this new technology based concept discussing the successes and failures of the early adopters and including issues relating to peer to peer networks e course management and more needs this book attempts to move from questions concerning what to issues relating to how

recent technological advances have made virtual education an increasingly popular and effective degree program in many colleges and universities across the globe and this academic book considers the challenges that students faculty and information specialists face in successful implementation current research is provided on designing e learning environments to suit different cognition styles forming online communities through group support systems and creative idea generation and facilitating instructor student communication and performance assessment attention is given to evaluating multimedia and educational software

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offering a multifaceted practical approach to the complex topic of clinical assessment practical guide to the assessment of clinical competence 3rd edition is designed to help medical educators employ better assessment methods tools and models directly into their training programs world renowned editors and expert contributing authors provide hands on authoritative guidance on outcomes based assessment in clinical education presenting a well organized diverse combination of methods you can implement right away this thoroughly revised edition is a valuable resource for developing implementing and sustaining effective systems for assessing clinical competence in medical school residency and fellowship programs helps medical educators and administrators answer complex ongoing and critical questions in today s changing medical education system is this undergraduate or postgraduate medical student prepared and able to move to the next level of training to be a competent and trusted physician provides practical suggestions and assessment approaches that can be implemented immediately in your training program tools that can be used to assess and measure clinical performance overviews of key educational theories and strengths and weaknesses of every method covers assessment techniques frameworks high quality

assessment of clinical reasoning and procedural competence psychometrics and practical approaches to feedback includes expanded coverage of fast moving areas where concepts now have solid research and data that support practical ways to connect judgments of ability to outcomes including work based assessments clinical competency committees milestones and entrustable professional assessments epas and direct observation offers examples of assessment instruments along with suggestions on how you can apply these methods and instruments in your own setting as well as guidelines that apply across the medical education spectrum includes online access to videos of medical interviewing scenarios and more downloadable assessment tools and detailed faculty guidelines an ebook version is included with purchase the ebook allows you to access all of the text figures and references with the ability to search make notes and highlights and have content read aloud

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this is an unprecedented time for clinical research the number and complexity of clinical research studies have increased significantly in the last decade individual participation in clinical research broadened with an increase in diverse populations diseases and geographic settings the successful execution of these studies however has been compromised by an international shortage of clinical research professionals coupled with an appreciation of the growing number of core competencies necessary for performance developed over a decade ago the joint task force for clinical trial competency jtf framework outlines the knowledge skills and attitudes that are essential for the safe and effective conduct of a clinical study this framework has been used to develop professional pathways trainings and certification programs and has been extended internationally through translation

this textbook describes the basics of research in medical clinical and biomedical settings as well as the concepts and application of epidemiologic designs in research conduct design transcends statistical techniques and no matter how sophisticated a statistical modeling errors of design sampling cannot be corrected the authors of this textbook have presented a complex field in a very simplified and reader friendly manner with the intent that such presentation will facilitate

the understanding of design process and epidemiologic thinking in clinical and biomedical research covers these relevant topics in epidemiology case cohort design prospective case control quantitative evidence synthesis qes instant cohort design case crossover design effect modification interaction epidemiologic tree molecular epidemiology health disparities epidemiologic challenge big data mhealth social media 3 ts team science transdisciplinary research translational research bias random error confounding systems science evidence discovery research is presented as an exercise around measurement with measurement error inevitable in its conducthence the inherent uncertainties of all findings in clinical and biomedical research concise epidemiologic principles and concepts covers research conceptualization namely research objectives questions hypothesis design implementation data collection analysis results and interpretation while the primary focus of epidemiology is to assess the relationship between exposure risk or predisposing factor and outcome disease or health related event causal association is presented in a simplified manner including the role of quantitative evidence synthesis meta analysis in causal inference epidemiology has evolved over the past three decades resulting in several fields being developed this text presents in brief the perspectives and future of epidemiology in the era of the molecular basis of medicine with molecular epidemiology we are better equipped with tools to identify molecular biologic indicators of risk as well as biologic alterations in the early stages of disease

the third edition of this innovative work again provides a unique perspective on the clinical discovery process by providing input from experts within the nih on the principles and practice of clinical research molecular medicine genomics and proteomics have opened vast opportunities for translation of basic science observations to the bedside through clinical research as an introductory reference it gives clinical investigators in all fields an awareness of the tools required to ensure research protocols are well designed and comply with the rigorous regulatory requirements necessary to maximize the safety of research subjects complete with sections on the history of clinical research and ethics copious figures and charts and sample documents it serves as an excellent companion text for any course on clinical research and as a must have reference for seasoned researchers incorporates new chapters on managing conflicts of interest in human subjects research clinical research from the patient s perspective the clinical researcher and the media data management in clinical research

evaluation of a protocol budget clinical research from the industry perspective and genetics in clinical research addresses the vast opportunities for translation of basic science observations to the bedside through clinical research delves into data management and addresses how to collect data and use it for discovery contains valuable up to date information on how to obtain funding from the federal government

while the historic roots of clinical chemistry originate from the chemical sciences the growth of the subject has been dependent upon the political social economic and technologic national soil in which it has developed thus the present leaders in this field have backgrounds variously in chemistry medicine pharmacy or sometimes biology today clinical chemistry has attained stature as a unified independent discipline it is characterized by active and productive international and national societies its function codified in the law of many countries its scientific content the sole subject of international and national journals as well as textbooks and educational programs and its international regional and national meetings have become focal points for major exchange of scientific clinical and technical information and exhibition the positive impact of the discipline upon the delivery of health care has given it a significant position in the economics of public health as a consequence it has become the most rapidly growing segment of the industrial and commercial component of health maintenance these changes have brought the need to define the educational and training processes to prepare future leaders of clinical chemistry the diverse backgrounds of the present directors of clinical chemical laboratories has required that the viewpoints of chemists pharmacists physicians and biologists be brought into harmony this has been achieved by the years of discussion debate and review by colleagues of varied professional backgrounds this monograph reflects their consensus viewpoint for the practice of clinical chemistry at its most advanced level

in its first edition principles of clinical medicine for space flight established itself as the authoritative reference on the contemporary knowledge base of space medicine and standards of care for space flyers it received excellent notices and is used in the curricula of civilian and military training programs and used as a source of questions for the aerospace medicine certifying examination under the american board of preventive medicine in the intervening few years the continuous manning

of the international space station has both strengthened existing knowledge and uncovered new and significant phenomena related to the human in space the second edition incorporates this information gaps in the first edition will be addressed with the addition new and revised chapters this edition is extensively peer reviewed and represents the most up to date knowledge

biostatistics deals with making sense of data while statistical inference is essential in our application of the research findings to clinical decision making regarding the care of our patients statistical inference without clinical relevance or importance can be very misleading and even meaningless this textbook has attempted to deemphasize p value in the interpretation of clinical and biomedical data by stressing the importance of confidence intervals which allow for the quantification of evidence for example a large study due to a large sample size that minimizes variability may show a statistically significant difference while in reality the difference is too insignificant to warrant any clinical relevance covers these relevant topics in biostatistics design process sampling reality in statistical modeling basics of biostatistical reasoning inference central tendency theorem measures of dispersion most commonly used abused parametric test t test most commonly used abused non parametric test chi squared statistic sample size and power estimations logistic binomial regression models binary outcomes time to event data survival analysis count data poisson regression anova ancova mixed effects model fixed and random ranova gee simple multiple linear regression models correlation analysis pearson spearman rank clinical statistical significance p value as a function of sample size clinical and biomedical researchers often ignore an important aspect of evidence discovery from their funded or unfunded projects since the attempt is to illustrate some sets of relationships from the data set researchers often do not exercise substantial amount of time in assessing the reliability and validity of the data to be utilized in the analysis however the expected inference or the conclusion to be drawn is based on the analysis of the un assessed data reality in statistical modeling of biomedical and clinical research data remains the focus of scientific evidence discovery and this book this text is written to highlight the importance of appropriate design prior to analysis by placing emphasis on subject selection and probability sample and the randomization process when applicable prior to the selection of the analytic tool in addition this book stresses the importance of biologic and clinical significance in the interpretation of study findings the basis for

statistical inference implying the quantification of random error is random sample which had been perpetually addressed in this book when studies are conducted without a random sample except when disease registries databases or consecutive subjects are utilized as often encountered in clinical and biomedical research it is meaningless to report the findings with p value

it offers the perfect balance of maternal and child nursing care with the right depth and breadth of coverage for students in today's maternity pediatric courses a unique emphasis on optimizing outcomes evidence based practice and research supports the goal of caring for women families and children not only in traditional hospital settings but also wherever they live work study or play clear concise and easy to follow the content is organized around four major themes holistic care critical thinking validating practice and tools for care that help students to learn and apply the material

this new edition of basic skills in interpreting laboratory data 4th edition is a case based learning tool that will enhance your skills in clinical lab test interpretation it provides fundamentals of interpreting lab test results not only for pharmacy students but also for practitioners as an aid in assessing patient drug treatment responses it is the only text written by and for pharmacists and provides case studies and practical information on patient therapy since the publication of the third edition much has changed in the clinical lab and in the hospital pharmacy consequently the new fourth edition incorporates significant revisions and a wealth of important new information new to this edition three new chapters including new information on men's health women's health and pharmacogenomics and laboratory tests mini cases embedded in each chapter provide therapy related examples and reinforce important points made in the text quickview charts give an overview of important clinical information including reference ranges and critical values learning points focus on a clinical application of a major concept present in the chapter

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