Development And Validation Of A Rp Hplc Method For The

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Noise Test Development and Validation Program for Light Vehicles
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Specification of Drug Substances and Products
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Robotic Surgery
Validity and Validation in Social, Behavioral, and Health Sciences
Method Validation in Pharmaceutical Analysis
The Development, Validation, and Preliminary Research Investigation of a Career Information Inventory
The Development and Validation of a Pre-evaluation Instrument for the Virtual College of Texas to Measure Quality in Distance Education Courses
Principles and Practices of Method Validation
Test Development and Validation
Development and Validation of a Measure of Intention to Stay in Academia for Physician Assistant Faculty
Scale Development
Measures of Positive Psychology
Clinical Prediction Models
DEVELOPMENT AND VALIDATION OF A FORCE MEASURING DEVICE FOR A LABORATORY WAVE TANK
Development and Validation of a Curriculum Evaluation Model for the Visual Arts
Analytical Method Development and Validation

Improving and Accelerating Therapeutic Development for Nervous System Disorders
Development and Validation of a Scale to Measure Misconceptions about Educational Psychology Among Pre-service Teachers

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Public Health Research Methods Springer
Work-related learning can be broadly seen to be concerned with all forms of education and training closely related to the daily work of (new) employees, and is increasingly playing a central role in the lives of individuals, groups or teams and the agenda's of organizations. However, as this area of study becomes more prominent, debates have opened about the nature of the field, as well as about its configurations and effects. For example, some authors have a broad definition of WRL and define it as learning for work, at work and through work, ranging from formal, through semi-structured to informal learning. Others prefer to use the concept of WRL mainly in connection to informal, incidental learning processes during work, leading to competent workplace learners. Formal and informal learning are distinguished from each other with respect to the level of intention (implicit/non-intentional/incidental versus deliberative/intentional/structured). Another point of discussion originates from the different 'theoretical backgrounds' of the authors: the 'learning theorists' versus the 'organizational theorists'. The first group is mainly interested in the question of how learning comes about; the second group is predominantly interested in the search for factors affecting learning.
Advances in Patient Safety National Academies Press
The 140 articles in the 4-volume set represent the efforts of AHRQ-funded patient safety researchers as well as the patient safety initiatives of other parts of the Federal Government. The articles cover a wide range of research paradigms, clinical settings, and patient populations, and they cover various stages of the research process. The volumes include the articles research that is complete and from research still in process, as well as a series of articles that address implementation issues and provide useful tools and products that can be used to improve patient safety.
The Development and Validation of an Assessment Instrument to Measure Environmental Education Competencies for Level III of the Elementary Teacher Training Program at Utah State University 1976.
Improving and Accelerating Therapeutic Development for Nervous System Disorders is the summary of a workshop convened by the IOM Forum on Neuroscience and Nervous System Disorders to examine opportunities to accelerate early phases of drug development for nervous system drug discovery. Workshop participants discussed challenges in neuroscience research for enabling faster entry of potential treatments into first-in-human trials, explored how new and emerging tools and technologies may improve the efficiency of research, and considered mechanisms to facilitate a more effective and efficient development pipeline. There are several challenges to the current drug development pipeline for nervous system disorders. The fundamental etiology and pathophysiology of many nervous system disorders are unknown and the brain is inaccessible to study, making it difficult to develop accurate models. Patient heterogeneity is high, disease pathology can occur years to decades before becoming clinically apparent, and diagnostic and treatment biomarkers are lacking. In addition, the lack of validated targets, limitations related to the predictive validity of animal models - the extent to which the model predicts clinical efficacy - and regulatory barriers can also impede translation and drug development for nervous system disorders. Improving and Accelerating Therapeutic Development for Nervous System Disorders identifies avenues for moving directly from cellular models to human trials, minimizing the need for animal models to test efficacy, and discusses the potential benefits and risks of such an approach. This report is a timely discussion of opportunities to improve early drug development with a focus toward preclinical trials.
Scale Development and Score Validation Edward Elgar Publishing
Describes analytical methods development, optimization and validation, and provides examples of successful methods development and validation in high-performance liquid chromatography (HPLC) areas. The text presents an overview of Food and Drug Administration (FDA)/International Conference on Harmonization (ICH) regulatory guidelines, compliance with validation requirements for regulatory agencies, and methods validation criteria stipulated by the US Pharmacopia, FDA and ICH.
Need for Fit Taylor & Francis
The need to validate an analytical or bioanalytical method is encountered by analysts in the pharmaceutical industry on an almost daily basis, because adequately validated methods are a necessity for approvable regulatory filings. What constitutes a validated method, however, is subject to analyst interpretation because there is no universally accepted industry practice for assay validation. This book is intended to serve as a guide to the analyst in terms of the issues and parameters that must be considered in the development and validation of analytical methods. In addition to the critical issues surrounding method validation, this book also deals with other related factors such as method development, data acquisition, automation, cleaning validation and regulatory considerations. The book is divided into three parts. Part One, comprising two chapters, looks at some of the basic concepts of method validation. Chapter 1 discusses the general concept of validation and its role in the process of transferring methods from laboratory to laboratory. Chapter 2 looks at some of the critical parameters included in a validation program and the various statistical treatments given to these parameters. Part Two (Chapters 3, 4 and 5) of the book focuses on the regulatory perspective of analytical validation. Chapter 3 discusses in some detail how validation is treated by various regulatory agencies around the world, including the United States, Canada, the European Community, Australia and Japan. This chapter also discusses the International Conference on Harmonization (ICH) treatment of assay validation. Chapters 4 and 5 cover the issues and various perspectives of the recent United States vs. Barr Laboratories Inc. case involving the retesting of samples. Part Three (Chapters 6 - 12) covers the development and validation of various analytical components of the pharmaceutical product development process. This part of the book contains specific chapters dedicated to bulk drug substances and finished products, dissolution studies, robotics and automated workstations, biotechnology products, biological

samples, analytical methods for cleaning procedures and computer systems and computer-aided validation. Each chapter goes into some detail describing the critical development and related validation considerations for each topic. This book is not intended to be a practical description of the analytical validation process, but more of a guide to the critical parameters and considerations that must be attended to in a pharmaceutical development program. Despite the existence of numerous guidelines including the recent attempts by the ICH to be implemented in 1998, the practical part of assay validation will always remain, to a certain extent, a matter of the personal preference of the analyst or company. Nevertheless, this book brings together the perspectives of several experts having extensive experience in different capacities in the pharmaceutical industry in an attempt to bring some consistency to analytical method development and validation.

Development and Validation of Analytical Methods Frontiers Media SA

The purpose of this study was to develop and validate a quantitative measure of resiliency for people living with HIV/AIDS. The 28-item R-PLA (Resiliency in People Living with HIV/AIDS) measure was developed based on the theoretical and research literature regarding the resiliency construct. One hundred forty-five participants completed the R-PLA along with depression, self-esteem, social support from family and friends, and health locus of control measures. The data were analyzed using LISREL and SPSS statistical software.

Scaled Worlds: Development, Validation and Applications Springer Nature

Adopting a practical approach, the authors provide a detailed interpretation of the existing regulations (GMP, ICH), while also discussing the appropriate calculations, parameters and tests. The book thus allows readers to validate the analysis of pharmaceutical compounds while complying with both the regulations as well as the industry demands for robustness and cost effectiveness. Following an introduction to the basic parameters and tests in pharmaceutical validation, including specificity, linearity, range, precision, accuracy, detection and quantitation limits, the text focuses on a life-cycle approach to validation and the integration of validation into the whole analytical quality assurance system. The whole is rounded off with a look at future trends. With its first-hand knowledge of the industry as well as regulating bodies, this is an invaluable reference for analytical chemists, the pharmaceutical industry, pharmaceutists, QA officers, and public authorities.

Validity and Validation John Wiley & Sons

The book contributes to the vast field of research in psychometrics as well as to the growing field of positive psychology. It analyses the development and validation of several constructs of positive psychology like resilience, flow, mindfulness, spirituality, and intrapersonal and interpersonal strengths. The chapters discuss the test construction process and develop scales for constructs that are validated on the Indian population. In most Indian behavioral research, psychological tests from the West are employed without assessing psychometric properties in India. However, establishing validation of psychological tests in a new culture is necessary in order to claim results based on these tests. Hence, this book bridges this gap in positive psychology and its allied fields and develops and standardizes these scales for the Indian population. The new constructed and validated scales have undergone rigorous statistical screening. Psychologists, psychiatrists, and social workers interested in studying well-being in India and in understanding how to create psychometric scales for non-Western populations will find the book useful for their research.

Psychological Ownership and the Organizational Context diplom.de

The Understanding Research series focuses on the process of writing up social research. The series is broken down into three categories: Understanding Statistics, Understanding Measurement, and Understanding Qualitative Research. The books provide researchers with guides to understanding, writing, and evaluating social research. Each volume demonstrates how research should be represented, including how to write up the methodology as well as the research findings. Each volume also reviews how to appropriately evaluate published research. Validity and Validation is an introduction to validity theory and to the methods used to obtain evidence for the validity of research and assessment results. The book pulls together the best thinking from educational and psychological research and assessment over the past 50 years. It briefly describes validity theory's roots in the philosophy of science. It highlights the ways these philosophical perspectives influence concepts of internal and external validity in research methodology, as well as concepts of validity and reliability in educational and psychological tests and measurements. Each chapter provides multiple examples (e.g., research designs and examples of output) to help the readers see how validation work is done in practice, from the ways we design research studies to the ways we interpret research results. Of particular importance is the practical focus on validation of scores from tests and other measures. The book also addresses strategies for investigating the validity of inferences we make about examinees using scores from assessments, as well as how to investigate score uses, the value implications of score interpretations, and the social consequences of score use. With this foundation, the book presents strategies for minimizing threats for validity as well as quantitative and qualitative methods for gathering evidence for the validity of scores.

Statistical Methods for Validation of Assessment Scale Data in Counseling and Related Fields Oxford University Press

The second edition of this volume provides insight and practical illustrations on how modern statistical concepts and regression methods can be applied in medical prediction problems, including diagnostic and prognostic outcomes. Many advances have been made in statistical approaches towards outcome prediction, but a sensible strategy is needed for model development, validation, and updating, such that prediction models can better support medical practice. There is an increasing need for personalized evidence-based medicine that uses an individualized approach to medical decision-making. In this Big Data era, there is expanded access to large volumes of routinely collected data and an increased number of applications for prediction models, such as targeted early detection of disease and individualized approaches to diagnostic testing and treatment. Clinical Prediction Models presents a practical checklist that needs to be considered for development of a valid prediction model. Steps include preliminary considerations such as dealing with missing values; coding of predictors; selection of main effects and interactions for a multivariable model; estimation of model parameters with shrinkage methods and incorporation of external data; evaluation of performance and usefulness; internal validation; and presentation formatting. The text also addresses common issues that make prediction models suboptimal, such as small sample

sizes, exaggerated claims, and poor generalizability. The text is primarily intended for clinical epidemiologists and biostatisticians. Including many case studies and publicly available R code and data sets, the book is also appropriate as a textbook for a graduate course on predictive modeling in diagnosis and prognosis. While practical in nature, the book also provides a philosophical perspective on data analysis in medicine that goes beyond predictive modeling. Updates to this new and expanded edition include: • A discussion of Big Data and its implications for the design of prediction models • Machine learning issues • More simulations with missing 'y' values • Extended discussion on between-cohort heterogeneity • Description of ShinyApp • Updated LASSO illustration • New case studies

Development And Validation Of Chromatographic Methods For Simultaneous Quantification Of Drugs In Bulk And In Their Formulations: HPLC And HPTLC Techniques Elsevier

This book details: 1. Development and validation of a HPTLC-densitometric method for concurrent estimation of metformin hydrochloride, pioglitazone hydrochloride and gliclazide in combined dosage form. 2. Development and validation of a HPTLC method for simultaneous estimation of moxifloxacin hydrochloride and dexamethasone sodium phosphate in combined pharmaceutical dosage form. 3. Development and validation of a RP-HPLC method for simultaneous estimation of ciprofloxacin hydrochloride and dexamethasone in combined dosage form, which is a better alternative to existing ones. The developed analytical methods are simple, selective, accurate, robust, and precise with shorter analysis time for the analysis of drug/s in combined pharmaceutical dosage forms. All the developed HPTLC and HPLC methods have been validated as per ICH Q2 (R1) guideline. Developed analytical methods could boost analytical researchers to work more efficiently in the field of analytical method development and validation of Pharmaceutical dosage forms.

Ligand-Binding Assays Royal Society of Chemistry

Principles and Practices of Method Validation is an overview of the most recent approaches used for method validation in cases when a large number of analytes are determined from a single aliquot and where a large number of samples are to be analysed. Much of the content relates to the validation of new methods for pesticide residue analysis in foodstuffs and water but the principles can be applied to other similar fields of analysis. Different chromatographic methods are discussed, including estimation of various effects, eg. matrix-induced effects and the influence of the equipment set-up. The methods used for routine purposes and the validation of analytical data in the research and development environment are documented. The legislation covering the EU-Guidance on residue analytical methods, an extensive review of the existing in-house method validation documentation and guidelines for single-laboratory validation of analytical methods for trace-level concentrations of organic chemicals are also included. With contributions from experts in the field, any practising analyst dealing with method validation will find the examples presented in this book a useful source of technical information.

Development and Validation of the Memory Impact Questionnaire Springer

In the Fourth Edition of Scale Development, Robert F. DeVellis demystifies measurement by emphasizing a logical rather than strictly mathematical understanding of concepts. The text supports readers in comprehending newer approaches to measurement, comparing them to classical approaches, and grasping more clearly the relative merits of each. This edition addresses new topics pertinent to modern measurement approaches and includes additional exercises and topics for class discussion. Available with Perusall—an eBook that makes it easier to prepare for class Perusall is an award-winning eBook platform featuring social annotation tools that allow students and instructors to collaboratively mark up and discuss their SAGE textbook. Backed by research and supported by technological innovations developed at Harvard University, this process of learning through collaborative annotation keeps your students engaged and makes teaching easier and more effective. Learn more.

Work-Related Learning John Wiley & Sons

Purpose and Procedures The purpose of this study was to construct and validate an assessment instrument which could effectively measure the impact of implementing an environmental education component to the Level III program of the elementary teacher training program at Utah State University. It was the hope of this researcher that the test would also be administered to Level III students upon completion in subsequent quarters to indicate individual competence in the environmental education. Care was taken in the construction of the instrument to assure content validity of concepts considered important by local, university, and state environmental education reviewers. A preliminary form of the instrument constructed in the study was administered to a pilot group. An item analysis was performed to determine the level of difficulty as well as the ability of the distractors to distract. The final form of the test consisted of 36 multiple-choice items. The final form was administered twice to a second group of Level III students. Data from these two administrations were used to establish the internal reliability of the instrument by using the Marshall-Haertel reliability formula. The reliability of stability between administrations was established by using the test-retest formula. Results Using the Marshall-Haertel reliability formula, the reliability coefficient of the instrument for the first testing was.81. The variance of this administration was 10.96, resulting in a standard deviation of 3.31. The second testing had a reliability coefficient of.78. This second administration had a variance and standard deviation of 11.42 and 3.38 respectively. In examining the test results of the first and second administrations, the mean raw scores show a positive impact in learning gains occurring between the two testings. Using the test-retest reliability formula, the Pearson-product-moment correlation was.8191. A content validity was established through a review of the items by critical reviewers who had background in environmental education. Each reviewer was given a copy of the objectives of the environmental education component and a copy of the item pool. Based on individual judgment, each reviewer matched test items to the objective in which they felt it was testing. The final test form consisted only of those items receiving a 100% agreement in the item pool review.

Development and Validation of the Downhole Freestanding Shear Device (DFSD) for Measuring the Dynamic Properties of Clay CRC Press

A major transformation in research and training is expected, using new, more advanced versions of computer-based systems. Technology now affords new capabilities: complex and distributed expert decisionmaking and team performance can now be elicited and rehearsed through affordable and easily distributed systems. These new systems will transform research and training on two

fronts. It will allow research needed to bridge the gap between internal (i.e. laboratory control) and external (e.g. operational relevance) validity. In addition, it enables a coalition of forces, from training instructors and their students, to research scientists and quantitative performance modelers. While simulation-based research and training is rapidly advancing, with increased funding and sponsorship, as yet there is no comprehensive documentation of tools and techniques. This book addresses the problem, bringing together experts from a variety of perspectives. Their contributions document emerging trends and issues with regard to development, utilization, and validation of these emerging 'scaled world' systems. The readership includes researchers and practitioners who develop and/or utilize simulation-based environments, educators interested in instructional technology and researchers who require criterion-based performance evaluation.

The Development and Validation of the Biotechnology Problem-solving Skills Assessment for Community College Biotechnology Students Elsevier

Psychological ownership as a phenomenon and construct attracts an increasing number of scholars in a variety of fields. This volume presents a comprehensive and up-to-date review of the psychological ownership literature with particular attention paid to the theory, research evidence, and comments on managerial applications. the authors address key elements that examine an employee's ownership feelings for his or her employing organization. the chapters address, among others, the following themes: the meaning of psychological ownership, the genesis of ownership feelings, the experiences and paths down which people travel that give rise to experiences of ownership, and the consequences (the personal and work outcomes) that stem from the sense of ownership. While the majority of the book is focused on feelings of ownership that exist at the individual-level, the authors introduce the construct of collective psychological ownership as well. This work acknowledges that teamwork has become increasingly commonplace in organizations and that like individuals, teams can come to a collective sense of ownership for a variety of targets within their work environment. the book closes by drawing upon the existing science of psychological ownership to provide a perspective on its applied (managerial) implications. This book will make a noteworthy addition to scholars' libraries: university libraries will also value it among their collections. Students of organizational psychology, management, organizational behavior, sociology and communication and their professors will find much of interest here.

Digital Entrepreneurship Springer

Providing a comprehensive foundation for planning, executing, and monitoring public health research of all types, this book goes beyond traditional epidemiologic research designs to cover technology-based approaches emerging in the new public health landscape.

The Development and Validation of the Algebra Curriculum Based Measure John Wiley & Sons

This open access book explores the global challenges and experiences related to digital entrepreneurial activities, using carefully selected examples from leading companies and economies that shape world business today and tomorrow. Digital entrepreneurship and the companies steering it have an enormous global impact; they promise to transform the business world and change the way we communicate with each other. These companies use digitalization and artificial intelligence to enhance the quality of decisions and augment their business and customer operations. This book demonstrates how cloud services are continuing to evolve; how cryptocurrencies are traded in the banking industry; how platforms are created to commercialize business, and how, taken together, these developments provide new opportunities in the digitalized era. Further, it discusses a wide range of digital factors changing the way businesses operate, including artificial intelligence, chatbots, voice search, augmented and virtual reality, as well as cyber threats and data privacy management. "Digitalization mirrors the Industrial Revolution's impact. This book provides a complement of perspectives on the opportunities emanating from such a deep seated change in our economy. It is a comprehensive collection of thought leadership mapped into a very useful framework. Scholars, digital entrepreneurs and practitioners will benefit from this timely work." Gina O'Connor, Professor of Innovation Management at Babson College, USA "This book defines and delineates the requirements for companies to enable their businesses to succeed in a post-COVID19 world. This book deftly examines how to accomplish and achieve digital entrepreneurship by leveraging cloud computing, AI, IoT and other critical technologies. This is truly a unique "must-read" book because it goes beyond theory and provides practical examples." Charlie Isaacs, CTO of Customer Connection at Salesforce.com, USA "This book provides digital entrepreneurs useful guidance identifying, validating and building their venture. The international authors developed new perspectives on digital entrepreneurship that can support to create impact ventures." Felix Staeritz, CEO FoundersLane, Member of the World Economic Forum Digital Leaders Board and bestselling author of FightBack, Germany

Noise Test Development and Validation Program for Light Vehicles SAGE Publications

Discover how biomarkers can boost the success rate of drug development efforts As pharmaceutical companies struggle to improve the success rate and cost-effectiveness of the drug development process, biomarkers have emerged as a valuable tool. This book synthesizes and reviews the latest efforts to identify, develop, and integrate biomarkers as a key strategy in translational medicine and the drug development process. Filled with case studies, the book demonstrates how biomarkers can improve drug development timelines, lower costs, facilitate better compound selection, reduce late-stage attrition, and open the door to personalized medicine. Biomarkers in Drug Development is divided into eight parts: Part One offers an overview of biomarkers and their role in drug development. Part Two highlights important technologies to help researchers identify new biomarkers. Part Three examines the characterization and validation process for both drugs and diagnostics, and provides practical advice on appropriate statistical methods to ensure that biomarkers fulfill their intended purpose. Parts Four through Six examine the application of biomarkers in discovery, preclinical safety assessment, clinical trials, and translational medicine. Part Seven focuses on lessons learned and the practical aspects of implementing biomarkers in drug development programs. Part Eight explores future trends and issues, including data integration, personalized medicine, and ethical concerns. Each of the thirty-eight chapters was contributed by one or more leading experts, including scientists from biotechnology and pharmaceutical firms, academia, and the U.S. Food and Drug Administration. Their contributions offer pharmaceutical and clinical researchers the most up-to-date understanding of the

strategies used for and applications of biomarkers in drug development.

The MMPI-2 Restructured Clinical (RC) Scales John Wiley & Sons Test Development and Validation by Gary Skaggs summarizes the latest test theories, frameworks for test development and validation, and guidance for developing tests in straightforward language in one core text. Students looking for clear, concise explanations of measurement, validity, and test development within a real-world context and with numerous examples will find this book to be an excellent learning resource. Author Gary Skaggs takes years of experience teaching test development to graduate students across social and behavioral sciences and consulting on a wide variety of government and institutional research projects to offer students a thorough, jargon-free, and highly applied book to help propel their own research and careers. Part I of the book, The Big Picture, sets the stage for test development, placing it within the larger context and history of measurement, emphasizing measurement concepts and their evolution over time. Part II, Test Development, covers the technical details of instrument and test development in logical order. Validation, Part III, links the conceptual bases provided in Part I with the technical process provided in Part II to conclude the book. For those students wanting to go further, software suggestions are referenced in the technical chapters, while Further Reading sections offer the original sources for more details. Exercises and Activities at the end of each chapter provide students a variety of ways to apply their knowledge, from conceptual questions to brief project ideas to data analysis problems.