

Pavlina SIMEONOVA* and Vasil SIMEONOV**

MULTIVARIATE STATISTICAL INTERPRETATION OF LABORATORY CLINICAL DATA

STATYSTYCZNA INTERPRETACJA DANYCH KLINICZNYCH

Summary: Laboratory aids are extensively used in the diagnosis of diseases, in preventive medicine, and as management tools. Reference values of clinical healthy people serve as a guide to the clinician in evaluating parameters. Biochemical values obtained abroad may not be fully applicable to local conditions because they are influenced by race and environmental and management differences. Some variations also exist in results between laboratories using different reagents, methods, and instruments. Sometimes, laboratory findings about people are compared with reference values of other countries, which may not be a valid comparison. To our knowledge, references on biochemical serum of the healthy individuals do not yet exist.

For the reasons mentioned, the purpose of this study was to determine reference serum biochemical values for the healthy population to form a basis for clinical interpretation. Further, the laboratory test results were subject to intelligent data analysis, which allows a specific classification, modeling and interpretation. Multivariate statistical methods like cluster analysis and principal components analysis were applied in order to reveal the hidden data structure and to offer some new information on the relation between the parameters studied like separation with respect to sex and age.

Keywords: biochemical tests, clinical analysis, intelligent data analysis

The chemical components of the human organism are subjected to variation caused by physiological processes, genetic differences, diseases and environmental factors. A rational interpretation of clinical chemistry results demands knowledge of the variation of these components in the individual under study or in an adequately defined set of reference individuals. An important task of the clinical chemist is therefore to provide relevant sets of reliable reference data.

Moreover, a rational approach to providing a sound basis for interpretation of observed values calls for a theory, which describes the principles and procedures for selection of reference populations and definitions of reference values.

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Multivariate Interpretation Of Clinical Laboratory Data

Adelin Albert

Multivariate Interpretation Of Clinical Laboratory Data:

Multivariate Interpretation of Clinical Laboratory Data Adelin Albert,1987-01-09 This first of its kind guide describes statistical methods for the effective and efficient analysis of multivariate laboratory data providing coverage which goes well beyond the standard single sample diagnostic tools that regularly appear in medical literature **Tietz Textbook of Laboratory Medicine - E-Book** Nader Rifai,2022-02-03 Use THE definitive reference for laboratory medicine and clinical pathology Tietz Textbook of Laboratory Medicine 7th Edition provides the guidance necessary to select perform and evaluate the results of new and established laboratory tests Comprehensive coverage includes the latest advances in topics such as clinical chemistry genetic metabolic disorders molecular diagnostics hematology and coagulation clinical microbiology transfusion medicine and clinical immunology From a team of expert contributors led by Nader Rifai this reference includes access to wide ranging online resources on Expert Consult featuring the comprehensive product with fully searchable text regular content updates animations podcasts over 1300 clinical case studies lecture series and more Authoritative current content helps you perform tests in a cost effective timely and efficient manner provides expertise in managing clinical laboratory needs and shows how to be responsive to an ever changing environment Current guidelines help you select perform and evaluate the results of new and established laboratory tests Expert internationally recognized chapter authors present guidelines representing different practices and points of view Analytical criteria focus on the medical usefulness of laboratory procedures Use of standard and international units of measure makes this text appropriate for any user anywhere in the world Elsevier eBooks provides the entire text as a fully searchable eBook and includes animations podcasts more than 1300 clinical case studies over 2500 multiple choice questions a lecture series and more all included with print purchase NEW 19 additional chapters highlight various specialties throughout laboratory medicine NEW Updated peer reviewed content provides the most current information possible NEW The largest ever compilation of clinical cases in laboratory medicine is included with print purchase on Elsevier eBooks NEW Over 100 adaptive learning courses included with print purchase on Elsevier eBooks offer the opportunity for personalized education **Survivorship Analysis for Clinical Studies** Eugene K. Harris,Adelin Albert,2024-11-01 This unique reference text provides an understanding of nonparametric and quasi parametric regression methods to analyze survivorship data in clinical studies emphasizing the interpretation and reasoning behind these methods Written for clinicians as well as biostatisticians Survivorship Analysis for Clinical Studies justifies each new methodology presented and clarifies its relationship to preceding material It describes and explains established methods for summarizing the results of the majority of single clinic survivorship studies comparing two or more survival processes and examining the effects of covariates on survival Including a diskette containing programs for computing confidence bands for survival curves this book serves as a timely reference for biostatisticians clinicians engaged in clinical trials pharmacologists involved in new drug testing epidemiologists and biomedical engineers and as a superb text for upper level

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