

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



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