

IDENTIFICATION OF "TRUE VALUE" OF THE ERROR OF MEASUREMENT AND OF THE SEASONAL VARIATION IN MEDICAL LABORATORY

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Abstract:

The quality of results of all medical laboratories will be appreciated at the published limits of total error TEA % of any blood constituents. It was established that the total error may be calculated from all daily (or weekly or monthly) results analyzed with a computerized program "JEG". Results of the analysis may be plotted as a year-course of the analyte.

This plot shows some disturbances suggesting that the baseline have some seasonal variations influencing negatively the result of error calculation. A procedure that enables the separation of two components of the total error and calculation of the "true" error connected with the laboratory work (human error) is demonstrated.

Keywords: error of laboratory results, seasonal variation of serum constituents, medical laboratory