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6.3.2 Databases for Facilitating Work on Setting Quality Specifications: Biological variation

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Data on within-subject and between-subject biological variation are essential prerequisites to many strategies used to set quality specifications. The data in the literature have been collated in three reviews. These and data published to date in 1992 are listed here to facilitate future work.

Data to 1980

Ross JW. Evaluation of precision. In, Werner M, ed. CRC Handbook of Clinical Chemistry. Boca Raton, Fla, CRC Press, vol 1, pp 391-422.

Data, 1981-1987

Fraser CG. The application of theoretical goals based on biological variation data in clinical chemistry. Arch Pathol Lab Med 1988; 112: 404-415.

Data, 1988-1991

Fraser CG. Biological variation in clinical chemistry. An update: collated data, 1988-1991. Arch Pathol Lab Med 1992; 116: 916-923.

Data, 1992 to date

Ortola J, Castineiras MJ, Fuentes-Arderiu X. Biological variation data applied to the selection of serum lipid ratios used as risk markers of coronary heart disease. Clin Chem 1992; 38: 56-59.

Kafonek SD, Derby CA, Bachorik PS. Biological variability of lipoproteins and apolipoproteins in patients referred to a lipid clinic. Clin Chem 1992; 38: 864-872.

Fuentes-Arderiu X, Albert P. Within-subject biological variation of pituitary - ovarian axis hormones and desirable imprecision. Clin Chim Acta 1992; 207: 257-259.

Dot D, Miro J, Fuentes-Arderiu X. Within-subject biological variation of hematological quantities and analytical goals. Arch Pathol Lab Med 1992; 116: 825-826.

Pagani F, Panteghini N. Biological variability of lipoprotein (a) [LP(a)] in serum. Clin Chem 1992; 38: 1058-1059

Gallacher SK, Johnston LK, Milne DB. Short-term and long-term variability of selected indices related to nutritional status. II. Vitamins, lipids, and protein indices. Clin Chem 1992; 38: 1149-1153.

Jimenez CV. Variabilidad bilogica intraindividual de las magnitudes citohematologicas como objectivo de calidad analitica (within-subject biological variation of haematological quantities as analytical quality goals). Quim Clin 1992; 11: 147-150.

Simon M, Macia M, Ribera C, et al. Objectivos analyticas de calidad en la determinacion de diversos constuyentes en orina (analytical quality goals for various quantities in urine). Quim Clin 1992; 11: 156-160.

Alvarez V, Hernandez A, Macia M, et al. Election del major especimen para la determinacion de constituyentes en orina. Uso de los datas de variabilidad biologica (Selection of the best specimen for analysis of urine quantities: use of data on biological variation). Quim Clin 1992; 11: 161-165.

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