

The Regional Transferability Project

Elin Olafsdottir,¹ Torsten Aronsson,² Torgny Groth³ and Carl-Henric de Verdier²

¹*Department of Clinical Biochemistry, Landspítalinn, Reykjavík,* ²*Department of Clinical Chemistry and* ³*Unit for Biomedical Systems Analysis, University of Uppsala, Uppsala, Sweden*

Analytical data from S-Creatinine and S-Urate from the Uppsala-Örebro regional quality assurance program have been studied for a period of more than a year with weekly samples of different concentrations. The analytical bias and analytical stability of the about 20 participating laboratories is estimated over time. The systematic error estimated by linear least squares fit of the measured values vs assigned values shows for some of the laboratories an unacceptably large bias outside the reference ranges for a healthy population. Analytical stability estimated over different time periods from slope and intercept of regression lines are of different degree of acceptability. Steps to reduce the interlaboratory variability will be suggested and the investigation will be extended in order to study the possibility to use transformation functions for transfer of data by collection of data from e g reference populations with defined condition of health from different geographical areas.

A report of this study has been prepared and will be published elsewhere.

Correspondence:

Professor Carl-Henric de Verdier
Department of Clinical Chemistry, University of Uppsala
Postal address: University Hospital
S-751 85 Uppsala, Sweden