



Assessment of Iodine Intake: Analytical Methods and Quality Control

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PRESENTATION ABSTRACT

Standardization of Thyroid Function Results

W. Greg Miller, Ph.D. — Virginia Commonwealth University, Richmond, VA

Abstract

The International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) Committee for Standardization of Thyroid Function Tests has worked since 2005 to develop standardization and harmonization strategies for these tests. The current status of results agreement expressed as discrepancy between highest and lowest medians from 11–16 routine methods for a panel of 40 euthyroid individuals is: 35% for thyroid-stimulating hormone (TSH), 30% for total T4, 55% for free T4, 28% for total T3, and 53% for free T3. The variability among different methods is not adequate to support clinical practice guidelines based on specific laboratory values. IDMS-based reference measurement procedures exist for total T4 and total T3. Reference systems are being developed, in collaboration with the IVD industry, for free T4 and TSH. The progress of the IFCC committee to improve agreement among the results from different routine methods will be presented.

References

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