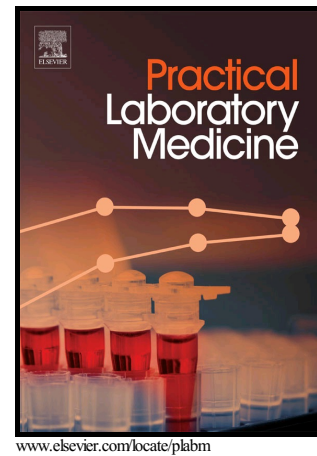


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Comparison of two immunoassay systems for hCG β and PAPP-A in prenatal screening for trisomy 21, 18 and 13 in the first trimester

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Abstract

Objectives

The biochemical serum markers free β -human chorionic gonadotropin (hCG β) and pregnancy associated plasma protein A (PAPP-A), used in screening for trisomy 21 (T21), trisomy 18 (T18), and trisomy 13 (T13) during the first trimester, can be measured on different laboratory instruments e.g. Kryptor (Brahms) and Cobas (Roche). We compared the performance of these two analytical instruments when used for first trimester combined testing.

Design and Methods

Serum samples from 944 singleton pregnant women attending for first trimester combined testing were routinely assayed for hCG β and PAPP-A on Kryptor, and re-analyzed on Cobas. In addition, serum samples from 70 pregnant women carrying a fetus affected by T21, T18 or T13, were re-assayed on Cobas.

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