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Proton-pump inhibitor-induced hypomagnesemia: Current research and proposed mechanisms

Jeffrey H William, John Danziger

**Abstract**

Since the early reports nearly a decade ago, proton-pump inhibitor-induced hypomagnesemia (PPIH) has become a well-recognized phenomenon. While many observational studies in the inpatient and outpatient populations have confirmed the association of PPI exposure and serum magnesium concentrations, there are no prospective, controlled studies to support causation. Molecular mechanisms of magnesium transporters, including the pH-dependent regulation of transient receptor potential melastatin-6 (TRPM-6) transporters in the colonic enterocyte, have been proposed to explain the effect of PPIs on magnesium reabsorption, but may be a small part of a more complicated interplay of molecular biology, pharmacology, and genetic predisposition. This review explores the current state of research in the field of PPIH and the proposed mechanisms of this effect.

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作者: RR Lilian - 2012 - 被引用次数: 33 - 相关文章

The early peak of pediatric HIV-related deaths in South Africa occurs at 3 months of age, ... Dried blood spots (DBS) were collected at birth and at 2, 4, and 6 weeks from ... the Roche COBAS AmpliPrep/COBAS TaqMan (CAP/CTM) HIV-1 assay, ... Infants underwent DNA PCR testing (Amplicor HIV-1 DNA PCR, version 1.5; ...

### Diagnosis of HIV Infection in Infants and Children | Pediatric ...

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Diagnostic Testing in Infants with Perinatal HIV-1 (HIV) Exposure ... Group O HIV strains are seen in West-Central Africa. ... Currently available real-time HIV RNA PCR assays and the qualitative RNA assay .... Roche Cobas AmpliPrep/Cobas TaqMan HIV-1 test version 2.0 assay and its .... Updated December 16, 2014.

### Evaluation of a High-Throughput Diagnostic System for ...

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作者: IV Jani - 2012 - 被引用次数: 4 - 相关文章

The Roche Amplicor HIV-1 DNA test, version 1.5 (Roche Molecular Diagnostics, ... of the Roche COBAS AmpliPrep/COBAS TaqMan (CAPTAQ) HIV-1 Qual test ... NJ), which is an automated qualitative test for HIV detection in blood or DBSs (12). ... of agreement,



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