

Predictive, Preventive and personalized Medicine & Molecular Diagnostics

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Novel approach to pharmacogenomics: An electronic methodology utilizing predictive and known pharmacogenomics drug/gene interactions for clinical prescribing and patient monitoring

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With over 50 important pharmacogenomic genes, each with multiple variants, and over 2,000 drugs, the potential drug/gene interactions estimates in the hundreds of thousands. It is impractical and virtually impossible to study all potential drug/gene interactions, let alone incorporating drug/drug/gene and drug/gene/gene interactions. This extensive number of possible drug/gene interactions creates a challenge for implementing pharmacogenomics in practice. Now, through a methodology developed by the author, and based on pharmacokinetic and pharmacodynamic principles, clinicians can overcome this challenge by accessing known and predicted drug/gene interactions within seconds from a mobile phone, tablet, or computer. The author will demonstrate his recently developed drug/gene interactions tool, and a discussion of the methodology used to deliver known and predicted drug/gene, drug/drug/gene, and drug/gene/gene interactions. Designed to provide immediately actionable information to clinicians, the electronic methodology allows for better informed clinical prescription and patient monitoring decisions. The methodology is readily adaptable for hospital-wide systems and electronic medical records. The methodology will be discussed and examples will be given.

Biography

Mark Rosenbloom is the Founder and CEO of PEPID LLC, recognized globally as the top developer and electronic provider of clinical decision support. His model of electronic delivery, streamlined concise medical information, built-in workflow and personal creation of thousands of point-of-care support tools now used in schools, hospitals and institutions in 159 countries worldwide. He is the Medical Director of LIFEFORCE Medical Institute in Chicago, Illinois. His education includes McGill University, Stanford University and Northwestern University's Feinberg School of Medicine. He was the Recipient of the Dean's AOA Research Award and the Sigmund S Winton Award in Biochemistry. He has served as Editor-in-Chief of "Your Health Magazine" and has published articles on drug interactions, age management, and low testosterone for men, BHRT, medical errors, and vitamin toxicity. He practiced at Northwestern Memorial Hospital achieving the rank of Adjunct Associate Professor of Medicine. Among his additional accomplishments, he is the Founder and past Chairman of the Unicorn Children's Foundation, an international non-profit organization annually raising millions of dollars and dedicated to promoting early identification and treatment of symptoms associated with ADHD, autism, bipolar, dyslexia and other learning disorders in children and young adults.

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