Management of drug interactions in common clinical practice: A soft technological approach

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A large number of drugs are introduced every year and new interactions between medications are increasingly reported. Clinically significant drug interactions can occur when two or more drugs are taken in combination. DDIs may lead to adverse drug reactions that can be severe enough to necessitate hospitalization. The outcome can be harmful if the interaction causes an increase in the toxicity of drugs. Managing drug interactions in hospitalized patients is important and challenging. Recognizing drug interaction is a daily challenge for family physicians and remembering all potential interactions has become virtually impossible. Drug therapy is growing more complex, thus making appropriate drug prescribing increasingly challenging. More than 30 medications are introduced each year and new interactions between medications are increasingly reported. Consequently, it is no longer practical for physicians to rely on memory alone to avoid potential drug interactions. Safety is an essential principle of patient care; therefore, the Fifty-fifth World Health Assembly underlined the importance of promoting science based systems to improve patient safety and the quality of health care. Drug information increases at accelerating rate annually. Checking manually for drug interactions becomes more time consuming and error-prone. The use of computerized drug interaction screening system has been debated due to many false alerts, quality of the data held in the software. We compare the various drug interaction databases available in online and few of offline software revealed that, the entire software data base contains only limited drugs with its interactions of internal analysis. Our research created new outlook of drug interaction software named as Dr. DRINSO\textsuperscript{TM} and uploaded with drugs available with standard source of drug interaction materials.

Biography
Sathish Amirthalingam holds BPharm, MPharm, PhD and PGDHM degrees. He is a Clinical Pharmacist from India and is currently working in International Medical University, Malaysia. He was a state first and distinction Research Scholar in Post-Graduation level. He has a teaching and professional experience of 13 years in the field of pharmacy. He received 6 awards from various bodies from pharmacy fields including state and national levels for Best Research Paper and Research Project. He had written 2 books in pharmacy field like clinical pharmacy and pathophysiology for pharmacy students. He has published 21 national and international papers, 2 copyright of his innovative clinical software and has presented 16 papers in national and international conferences. He has guided 4 Under-Graduate, 8 Post-Graduate projects and he is guiding 4 more Under-Graduate projects currently. He is also associated with Life Member in various professional bodies like IPA, IHPA and was a Member of Board of Studies in Department of Pharmacology, S P University.

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