

Reminders of Drug Effects on Laboratory Test Results

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Drug effects on laboratory test results are difficult to take into account without an online decision support system. In this study, drug effects on hormone test results were coded using a drug-laboratory effect (DLE) code. The criteria that trigger the reminders were defined. To issue reminders, it was necessary to write a computer program linking the DLE knowledge base with databases containing individual patient medication and laboratory test results. During the first 10 months, 11% of the results from hormone samples were accompanied by one or more DLE reminders. The most common drugs to trigger reminders were glucocorticoids, furosemide, and metoclopramide. Physicians facing the reminders completed a questionnaire on the usefulness of the reminders. All respondents considered them useful. In addition, DLE reminders had caused 74% of respondents to refrain from additional, usually performed examinations. In conclusion, drug effects on laboratory tests should always be considered when interpreting laboratory results. An online reminder system is useful in displaying potential drug effects alongside test results.

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Drugs often alter laboratory test results; the literature reports >40 000 drug effects on laboratory tests (1). These effects may cause misinterpretation of laboratory data and lead to unnecessary further tests, missed diagnoses, and additional costs, as pointed out in the case report below.

The vast amount of medical information, with its varying quality and ready availability, has to date made it

laborious to take drug-laboratory effects (DLEs)⁵ into account in everyday patient care. The prevalence of DLEs is not negligible: as many as 12% of patients have had laboratory results potentially affected by drugs in a general medical ward (2). The effects of drugs on laboratory tests have been published in extensive catalogs (1, 3-6), from which data have to be sought manually with active effort. A modern solution for bringing this knowledge to clinical routine is computerization and automatic reminders. Because physicians are already flooded with information, it is important to remind them only of the effects relevant for the patient in question. This requires storing individual medications in a structured way and coding the data on DLEs in a logical way as well as building a reminder system that can be integrated into the laboratory information system (LIS) and hospital information system (7). Until now, there have been very few computer applications offering automatic monitoring of DLEs (2, 8).

In Turku University Central Hospital, coding of drug effects in clinical chemistry was started in 1995 when a DLE code was developed (9). In November 1998, an online reminder system built on the DLE knowledge base became operational. The system produces reminders in cases where patient medication may affect the results of hormonal laboratory tests. This report describes the DLE reminder system in detail and presents the reminders issued during the first 10 months as well as clinicians' attitudes toward the reminders.

Case

In April 1998, a 66-year-old man was admitted to our hospital because of vertigo and impaired swallowing and speech. He had a history of obstructive bronchitis, diabetes, and left hemiparesis following cerebral infarction. His medication comprised dipyridamole, glibenclamide, and

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⁵Nonstandard abbreviations: DLE, drug-laboratory effect; LIS, laboratory information system; TSH, thyroid-stimulating hormone, thyrotropin; FT₄, free thyroxine; ATC, Anatomical Therapeutic Chemical; and ID, identification code.

Drug Effects On Laboratory Test Results

Richard B. Friedman, Donald S. Young



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Effects of Herbal Supplements on Clinical Laboratory Test Results Amitava Dasgupta,2011-05-26 Herbal supplements are available without prescription in many countries throughout the world and accounting for over 30 billion U S dollar in sale A majority of U S population 25 40% use herbal supplements while alternative medicines are major forms of therapy in third world countries used by as much as 80% population Contrary to the popular belief that herbal remedies are safe and effective many herbal supplements have known toxicity and unexpected laboratory test results may be the early indications of such toxicity In addition some herbal products such as St John s wort can interact with many Western drugs

causing increased clearance of such drugs and hence treatment failure This monograph would provide information on how herbal supplements affect laboratory test results thus patient s safety This monograph would provide a comprehensive and concise practical guide for laboratory professionals physicians and other health care professionals The emphasis of this monograph is to provide clinically relevant information rather than discussing in detail mechanisms of such effect although brief explanations would be provided for such unexpected test results Drug Effects on Laboratory Test Results G.

Siest,1980-12-31 **Effects of Disease on Clinical Laboratory Tests** Richard B. Friedman,Donald S. Young,1989 An aid to determine the possible cause of laboratory test abnormalities encountered in clinical practice Sections include laboratory test index disease keyword index laboratory test listings disease listings by ICD 9CM classification and references

Taking Health Telematics Into the 21st Century Michael Rigby,Ruth Roberts,Michael Thick,2000 A comprehensive text that guides the reader through all aspects of health **Publications of the National Bureau of Standards** United States. National Bureau of Standards,1981 *Publications of the National Institute of Standards and Technology ... Catalog* National Institute of Standards and Technology (U.S.),1982 **Cumulated Index Medicus** ,1987 *Journal of Research of the National Bureau of Standards* United States. National Bureau of Standards,1988 **Scandinavian Journal of Clinical and Laboratory Investigation** ,1995 Landmark Papers in Clinical Chemistry Richard M. Rocco,2005-11-15 This is the first major review of the developments in clinical laboratory science in the 20th century presented in the words of the original inventors and discoverers Introductory comments by the editor help place the works within the historical context Landmark Papers addresses The origin of the home pregnancy test available today in every drugstore The woman who invented a billion dollar technology refused to patent it and went on to win a Nobel Prize The scientists who worked on the US Government s crash program at the start of WWII to find a substitute for the malaria drug quinine The blood test used to monitor the effectiveness of cholesterol lowering drugs that today are taken by over 20 million patients The graduate student who invented a technology for testing for infectious diseases took it to Africa to screen people for malaria for the first time and which is now used to test for HIV infection world wide The invention of molecular diagnostics by Linus Pauling and the road to individualized medicine The development of the glucose meter used by diabetics up to six times a day to monitor their metabolic control First book of this kind dedicated to clinical chemistry Thirty nine articles that have shaped the field today A survey of the major developments in the field clinical chemistry in the 20th century **A Manual of Laboratory and Diagnostic Tests** Frances Talaska Fischbach,Marshall Barnett Dunning,2009 Now in its Eighth Edition this leading comprehensive manual helps nurses deliver safe effective and informed care for patients undergoing diagnostic tests and procedures The book covers a broad range of laboratory and diagnostic tests and studies that are delivered to varied patient populations in varied settings Tests are grouped according to specimen and function test type e g blood urine stool cerebrospinal fluid etc Each test is described in detail with step by step guidance on correct procedure tips for accurate

interpretation and instructions for patient preparation and aftercare Clinical Alerts highlight critical safety information

Computer Medical Databases Morris F. Collen, 2011-10-20 Chapter 1 offers an overview of the basic computer technology Each succeeding chapter describes the problems in medicine followed by a review in chronological sequence of why and how computers were applied to try to meet these problems Only the technical aspects of computer hardware software and communications are discussed as they are necessary to explain how the technology was applied This approach generally led to defining the objectives for applications of medical informatics At the end of each chapter the author summarizes his personal views and interpretations of the chapter contents Although the concurrent evolution of medical informatics in Canada Europe and Japan certainly influenced workers in the United States the scope of this historical review is limited to the development of medical informatics within the United States Furthermore this review is limited to electronic digital computers it excludes mechanical analog and hybrid computers

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Basic Skills in Interpreting Laboratory Data Mr. Rohit Manglik, 2024-07-30 A diagnostic tool to help healthcare professionals accurately interpret common and complex laboratory results for better patient care

Saunders Nursing Guide to Diagnostic and Laboratory Tests Louise M. Malarkey, Mary Ellen McMorro, 2011-10-31 This complete lab book contains the latest information on testing organized alphabetically for quick reference It is both student friendly and provides great information for practicing nurses Significance of Test Results sections list the diseases and disorders that are associated with abnormal findings and Test Result Indications sections list the possible clinical significance of abnormal findings Tests are presented in

a format that emphasizes the nurse's role and includes Basics the Nurse Needs to Know and Nursing Care The clinical purpose of each test is identified and how each test is performed is clearly explained A pronunciation guide for the name of each test helps with difficult terminology Alphabetical organization of the laboratory tests featuring alphabetical thumb tabs makes every test easy to find Also Called sections feature synonyms and abbreviations that help you identify specific tests Purpose of the Test states the indications of each test Basics the Nurse Needs to Know offers an explanation of each test in clear simple language Normal Values in standard and SI units include variations for gender and age where relevant How the Test is Done succinctly describes how each test is performed Significance of Test Results list the diseases and disorders that are associated with abnormal findings Interfering Factors list the factors such as drugs herbs and improper specimen collection and handling that inadvertently affect test results Nursing Care is divided into Pretest During the Test and Posttest listing in detail what the nurse does in the testing process Nursing Response to Critical Values and Nursing Response to Complications detail what you should be alert for before during and after the test and how to manage dangerous situations Explicit incorporation of nursing concerns related to lab tests can only be found in this lab book Over 50 new and updated pieces of art highlight how results are interpreted what equipment is used and how various techniques are performed Over 20 new tests prepare you for the types of tests you will encounter during your clinical experience Patient Teaching icons make crucial nursing content easy to find New Student Resources on Evolve feature a variety of supplemental learning tools Skills materials including skills checklists PDFs of skills and brief skills video clips help you master specimen collection and basic diagnostic procedures Patient handouts provide practical useable materials to make your clinical experience easier Audio pronunciations simplify the process of learning difficult terminology

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