

Drug utilization research: a review**Dinesh Kumar Meena^{*}, M. Jayanthi**

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ABSTRACT

Data from drug utilization research is an invaluable resource for all stake holders involved in drug and health policies. Drug utilization is "marketing, distribution, prescription and use of drugs in a society, with special emphasis on the resulting medical, social and economic consequences". Research on drug utilization includes factors related to prescribing, dispensing, administering and intake of medication and its associated events. The ultimate purpose of drug utilization research is to estimate the optimal quality of drug therapy by identifying, documenting, analysing problems in drug utilization and monitoring the consequences. It encourages the prescribers to prescribe correct drug at appropriate dose and affordable price. It contributes to the knowledge of rational use of drugs in the society; whether the drug is being prescribed appropriately, whether the drug is taken in correct dosage, whether the drug is available at affordable price or misused. It provides valuable feedback about the rationality of the prescription to the doctors. It also assesses whether an intervention affects the drug use in the population by examining the outcomes of different types of intervention given to improve rationality in drug use. Drug utilization research can be qualitative or quantitative and can be done by various methods. This review highlights the understanding of various aspects, different designs and WHO guidelines for conducting drug utilization research.

Keywords: ATC classification, Aspects of drug utilization research, Drug utilization research, Defined daily dose, Drug use indicators, Drug and therapeutic committee

INTRODUCTION

Drug utilization research as defined by WHO (World Health Organization) is "marketing, distribution, prescription and use of drugs in a society, with special emphasis on the resulting medical, social and economic consequences". Rational use of drug requires that patient receive medication appropriate to their clinical needs, in dose that meet their own individual requirements for the adequate period and the lowest cost to them and their community.¹ Poor management and irrational use of drugs leads to increased morbidity and mortality, wastage of resources, prolonged suffering, death and loss of confidence in the health care system.² There are many factors underlying irrational use of drugs. Major factors

can be patients, prescribers, workplace and supply system.^{3,4} Therefore, it is important to recognize negative consequences of inappropriate drug use to promote rational use of drug.⁵ The development of drug utilization as research area made it possible to study drug use in a scientific manner.⁶ Studies on drug utilization have become a potential tool to be used in the evaluation of healthcare system.⁷ The main objectives of drug utilization research are to identify drug use related problems and analyze their consequences. Drug utilization research encourages rational prescribing of drug, contributes to the knowledge of current use of drugs in the society and explore whether a particular intervention affects the drug use in the population by observing the drug use pattern.⁸

Social And Economic Aspects Of Drug Utilization Research

Scott Robert Smith



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Social and Economic Aspects of Drug Utilization Research : an Overview of the State of Knowledge, an Analysis of Outcome of Fe Bernard Edward Conley,1976 **Drug Utilization Research** Monique Elseviers,Björn Wettermark,Anna Birna Almarsdóttir,Morten Andersen,Ria Benko,Marion Bennie,Irene Eriksson,Brian Godman,Janet Krska,Elisabetta Poluzzi,Katja Taxis,Vera Vlahovic-Palcevski,Robert Vander Stichele,2016-04-01 Drug Utilization Research DUR is an eclectic scientific discipline integrating descriptive and analytical methods for the quantification understanding and evaluation of the processes of prescribing dispensing and consumption of medicines and for the testing of interventions to enhance the quality of these processes The discipline is closely related and linked mainly to the broader field of pharmacoepidemiology but also to health outcomes research pharmacovigilance and health economics Drug Utilization Research is a unique practical guide to the assessment and evaluation of prescribing practices and to interventions to improve the use of medicines in populations Edited by an international expert team from the International Society for Pharmacoepidemiology ISPE DUR is the only title to cover both the methodology and applications of drug utilization research and covers areas such as health policy specific populations therapeutics and adherence **Encyclopedia of Pharmacy Practice and Clinical Pharmacy** ,2019-06-28 Encyclopedia of Pharmacy Practice and Clinical Pharmacy Three Volume Set covers definitions concepts methods theories and applications of clinical pharmacy and pharmacy practice It highlights why and how this field has a significant impact on healthcare The work brings baseline knowledge along with the latest most cutting edge research In addition new treatments algorithms standard treatment guidelines and pharmacotherapies regarding diseases and disorders are also covered The book s main focus lies on the pharmacy practice side covering pharmacy practice research pharmacovigilance pharmacoconomics social and administrative pharmacy public health pharmacy pharmaceutical systems research the future of pharmacy and new interventional models of pharmaceutical care By providing concise expositions on a broad range of topics this book is an excellent resource for those seeking information beyond their specific areas of expertise This outstanding reference is essential for anyone involved in the study of pharmacy practice Provides a one stop resource for access to information written by world leading scholars in the field Meticulously organized with articles split into three clear sections it is the ideal resource for students researchers and professionals to find relevant information Contains concise and accessible chapters that are ideal as an authoritative introduction for non specialists and readers from the undergraduate level upwards Includes multimedia options such as hyperlinked references and further readings cross references and videos **Pharmacoepidemiology** Brian L. Strom,Stephen E. Kimmel,Sean Hennessy,2019-10-23 Dieses Lehrbuch ein wegweisender Klassiker bietet in der 6 Auflage noch mehr Inhalte f r Leser die aktuelle Informationen zur Pharmakoepidemiologie ben tigen Die vorliegende Auflage wurde vollst ndig bearbeitet und aktualisiert Sie bietet einen berblick ber s mtliche Facetten des Fachgebiets aus Sicht von Lehre und Forschung aus Sicht der Industrie und von

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Western world During the past decade a large number of new compounds were marketed some of which had to be withdrawn after a short while because of adverse drug reactions These experiences led to an understanding that a complete picture of the safety of these drugs can only be obtained after their introduction into the marketplace Different methods of post marketing surveillance PMS serve as important tools for monitoring the frequency of adverse reactions and for generating and corroborating hypotheses Experience with PMS has thus far been quite limited in Germany In 1987 a non profit organization Verein zur Langzeituntersuchung von Arzneimittelwirkungen auf dem Gebiet der Rheumatologie e V VLAR was founded by interested physicians and pharmacologists to raise funds and perform investigations on the safety of NSAIDs The first project by the VLAR SPALA Safety Profile of Antirheumatics in Long Term Administration was sponsored by F Hoffmann La Roche AG Basel Switzerland In July 1990 when the project was successfully terminated almost 30 000 patients had been completely documented and their medical records entered into a computer for subsequent review by a select panel of experts with experience in monitoring adverse reactions to NSAIDs The comments criticisms and ideas of these experts were brought together at a symposium organized by the VLAR at the Klinikum Steglitz Berlin Germany on 12 October 1990

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$y = \Delta x / \Delta y$ now we can plug in m and one of the points say (5, 5) to get point slope form $y - y_1 = m(x - x_1)$

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