

**Drug utilization research: a review****Dinesh Kumar Meena<sup>\*</sup>, 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.<sup>1</sup> 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.<sup>2</sup> There are many factors underlying irrational use of drugs. Major factors

can be patients, prescribers, workplace and supply system.<sup>3,4</sup> Therefore, it is important to recognize negative consequences of inappropriate drug use to promote rational use of drug.<sup>5</sup> The development of drug utilization as research area made it possible to study drug use in a scientific manner.<sup>6</sup> Studies on drug utilization have become a potential tool to be used in the evaluation of healthcare system.<sup>7</sup> 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.<sup>8</sup>

# Social And Economic Aspects Of Drug Utilization Research

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