



## Pharmacological Activity of a Drug: Its Safety, Efficacy and Effectiveness

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### ABOUT THE STUDY

Drugs are chemicals that, when ingested, change the physiology or psychology of an organism. Medicines are usually distinguished from foods and substances that support nutrition. Drugs can be consumed by inhalation, injection, smoking and ingestion, skin patches, absorption by suppositories, or dissolution under the tongue. In pharmacology, a drug is a chemical substance, usually a known structure and has biological effects when administered to the body. This medicine can be used for a limited period of time or on a regular basis in the case of chronic illness.

The Anatomical Therapeutic Chemistry Classification System "ATC" is the most widely used drug classification system, with a unique ATC code that is an alphanumeric code that permits certain classes of drugs within the ATC assigned to the system. Assign to medicine. Another important classification system is the bio pharmaceuticals classification system. Doctors have long recognized that different types of medicines have different effects on people. Nevertheless, medicines can be classified or classified according to specific common symptoms and effects. The DRU classification process is based on these many years of medically recognized facts. DRE classifies drugs into one of seven categories. Each of these categories of drugs affects the human central nervous system and can affect a person's normal abilities, including the ability to drive safely.

### Drug safety facts

All medicines have side effects, but their effects and severity can

range from mild to severe itching and headaches to severe skin rashes, mainly damage to important organs such as the liver and kidneys. It varies from death to death. Most side effects are predictable and are listed in the package insert for each drug. However, the serious problem is that some of the side effects of the drug were previously unknown or unnoticed and the real risk is that they have serious detrimental effects on the patients who use them. Of the factors that can increase the severity of side effects, the type of drug and the type of patient using them are of utmost importance.

### Efficacy and effectiveness

Effectiveness is the ability to produce an effect (eg lowering blood pressure). Efficacy can only be accurately assessed under ideal conditions if the patient is selected according to appropriate criteria and adheres to the dosing regimen. Therefore, efficacy is measured under expert supervision in the group of patients most likely to respond to the drug, such as in controlled clinical trials. Efficacy differs from efficacy in that it takes into account how well the drug works in actual use. In many cases, drugs that are effective in clinical trials are not very effective in actual use. For example, medicines may be very effective in lowering blood pressure, but they are inadequate because they cause so many side effects that patients stop taking them. If the clinician inadvertently prescribes the drug for example, if a patient suspected of having ischemic stroke but is given a fibrinolysis drug on a CT scan, the efficacy may be less than effective. No cerebral hemorrhage was detected on the scan. Therefore, efficacy tends to be less than efficacy.

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