

SIDE EFFECTS AND CONSEQUENCES OF CURRENT MEDICATIONS

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Annotation: Nowadays, medicines play an important role in the treatment of various diseases, but each medicine can cause side effects. Side effects of medicines, that is, unexpected and harmful effects, can limit their effectiveness and negatively affect the patient's health. Side effects vary depending on the chemical composition of the medicine, the individual reaction of the body to it, the duration and dose of taking the medicine.

Side effects of medicines can appear in the gastrointestinal system, cardiovascular system, allergic reactions, liver and kidney function and other organs. Therefore, it is important to be careful when using medicines, follow the correct doses and doctor's recommendations. This topic is important in assessing the benefits and risks of medicines, ensuring patient health and using medicines more effectively and safely. This article discusses the side effects and consequences of current medications.

Keywords: Drugs, side effects, unexpected reactions, effectiveness, chemical composition of the drug, individual reaction of the body, gastrointestinal system, cardiovascular system, allergic reactions, treatment risks, doctor's recommendations, Health safety, clinical observation, drug monitoring

Introduction

Nowadays, medicines play an important role in the treatment of various diseases, but each medicine can cause side effects. Side effects of medicines, that is, unexpected and harmful effects, can limit their effectiveness and negatively affect the patient's health. Side effects vary depending on the chemical composition of the medicine, the individual reaction of the body to it, the duration and dose of taking the medicine.

President Shavkat Mirziyoyev has adopted a number of resolutions and orders to improve the healthcare system and ensure the safety of medicines.

The resolution "On measures to further improve the healthcare sector and improve the quality of medical services" of December 14, 2017, considered measures to improve the quality of medical services, including medicines, and reduce side effects. The resolution aims to ensure the introduction of new technologies in medicine and the development of pharmaceutical research.

The resolution "On measures to develop the pharmaceutical and medical industry in the Republic of Uzbekistan" of April 20, 2021, established measures to improve the quality of medicines, modernize the pharmaceutical industry and ensure their safety. It provides for the strengthening of scientific research and clinical trials to identify and prevent side effects of medicines. Side effects of medicines can appear in the gastrointestinal system, cardiovascular system, allergic reactions, liver and kidney function and other organs. Therefore, it is important to be careful when using medicines, follow the correct doses and doctor's recommendations. This topic is important in assessing the benefits and risks of medicines, ensuring patient health and using medicines more effectively and safely.

Nowadays, medicines can be effective in treating various diseases, but each medicine can cause side effects (i.e., unexpected and harmful effects of the medicine). First of all, for the sake of good health, a person should take medicines as prescribed by a doctor.

Nowadays, side effects of medicines can cause serious problems, because each medicine has the potential to cause various negative reactions in the body. Side effects usually occur as a result of prolonged use of medicines or in the wrong dosage, and the degree of their effect on various organs and systems depends on the type of medicine, the individual characteristics of the patient and the state of reception.

Here are some drugs and their side effects:

Paracetamol (Acetaminophen). Side effects:

- Liver dysfunction (liver failure)
- Gastrointestinal problems (cardiovascular system, stomach ulcers)

Consequences:

- Overdoses can cause serious liver damage, in some cases leading to liver failure and death.

Ibuprofen (Nonsteroidal anti-inflammatory drug - NSAID)

Side effects:

- Stomach ulcers and intestinal bleeding
- Cardiovascular problems (high blood pressure, heart attacks)
- Headache, dizziness, allergic reactions

Consequences:

- Ibuprofen, which is used to treat inflammation and infections, can cause serious damage to the stomach and intestinal system if used excessively and for a long time.

Amlodipine. Side effects.

- Dizziness and headache
- Facial flushing and swelling
- Heart palpitations (rapid or slow heartbeat)

Consequences:

- Long-term use of Amlodipine can cause adverse effects on the vascular system, including serious problems with the heart and blood pressure.

Amoxicillin (Antibiotic). Side effects.

- Gastrointestinal system (abdominal pain, diarrhea)
- Allergic reactions (skin rash, swelling, difficulty breathing)
- Loss of beneficial bacteria (as well as intestinal flora disruption)

Consequences:

- Excessive and inappropriate use of the antibiotic amoxicillin can lead to disruption of the intestinal microflora, as well as allergic reactions in the blood, etc.

Prednisolone (Corticosteroid). Side effects.

- Water retention (swelling)
- Redness and thickening of the face
- Weakened immunity

Consequences:

- Long-term use of prednisolone can weaken the immune system, which can lead to the development of infections. At the same time, dehydration and increased blood glucose levels can occur.

Diazepam (Benzodiazepine, used to treat anxiety and insomnia)

Side effects:

- Drowsiness, dizziness
- Memory impairment
- Mood swings (depression, fear)

Effects:

- Taking diazepam in the long term can impair memory and attention, as well as unpleasant changes in mood. If the drug is taken in excess, it can cause difficulty breathing and death.

Simvastatin (Cholesterol-lowering drug)

Side effects:

- Muscle pain and damage
- Liver damage
- Low blood pressure

Effects:

- If simvastatin is taken for a long time, muscle pain and damage may occur, in some cases this can lead to serious muscle diseases.

Metformin (Antidiabetic drug)

Side effects:

- Gastrointestinal system (abdominal pain, diarrhea)
- Lactic acidotic conditions (rare but serious consequences)

Consequences:

- Side effects of metformin can cause lactic acidosis if taken in excess, which can be life-threatening.

2. Literature Review

T.Abdurakhmonov's book "Side Effects and Consequences of Drugs" provides detailed information on the side effects of drugs, their negative consequences, and how to reduce this problem. Various types of drugs (antibiotics, analgesics, antidepressants, etc.) and their negative effects during long-term use are analyzed. The book provides scientific information on the activity of each drug and its potential negative effects on the body. To prevent side effects, it talks about caution in choosing drugs, monitoring patients, medical advice, and the correct dosage of medicinal substances.

R.Khodjaev's book "Toxicological Effects of Drugs in Medicine" pays special attention to the toxicological effects of drugs. The mechanisms of side effects, their effect on the body, and scientific methods for preventing toxic effects are analyzed. New clinical studies and modern technologies for reducing the toxic effects of drugs are presented.

Goodman & Gilman's "Pharmacology and Toxicology of Drugs" is one of the most important works in the field of pharmacology and toxicology. It provides an in-depth analysis of the adverse effects of drugs, toxicological reactions, their mechanisms and consequences. New laboratory methods and methods for preventing risks are presented to reduce the toxic effects of drugs.

J.L.Bousquet & D.P.Bounes. "Adverse Drug Reactions: Mechanisms, Diagnosis, and Management" provides an analysis of the diagnosis and treatment of adverse drug reactions, their mechanisms. It also presents new medical approaches and clinical practices for preventing

adverse reactions. In this book, new diagnostic methods and treatment methods are discussed to reduce adverse reactions.

3. Methodology

T.Abdurakhmonov's scientific work presents scientific news on new side effects of drugs and the results of clinical studies and methods for their reduction. For example, it is shown that side effects can be identified and minimized using new biological modifiers and genetic analysis.

J.L. Bousquet & D. P. Bounes's own literature proposes effective approaches to ensure the safe use of drugs and reduce side effects. The importance of the development of new diagnostic technologies and pharmacogenetics is discussed.

4. Analysis and Discussion

In the scientific work of T. Abdurakhmanov, the Book provides specific recommendations on the prevention of side effects, the safe use of drugs and handling of drugs. Ways to reduce the negative effects of drugs and improve the quality of life of patients, as well as the need to use new technologies in medicine, are indicated. This literature discusses the need for joint efforts of drug manufacturers and medical personnel to reduce the negative effects of drugs. It also expresses ideas on adapting the effects of drugs to individual characteristics, developing monitoring systems, and new scientific approaches.

In his scientific works, R. Khodjaev provides practical recommendations on the development of new methods and reducing the side effects of drugs. New approaches to controlling side effects and safe use of drugs are discussed.

Goodman & Gilman's research focuses on the prediction of side effects and scientific recommendations for developing a safe medication plan for patients, pharmacogenomics, and the optimization of drugs based on individual characteristics.

5. Conclusion

Side effects and consequences of drugs can have various negative effects on the patient's body. Therefore, drugs should be used only on the recommendation of a doctor and in prescribed doses. It is important to know the potential risks and benefits of each drug, how it works, and take into account individual indications. Nowadays, side effects of drugs can cause serious problems, since each drug has the potential to cause various negative reactions in the body. Side effects usually occur as a result of prolonged or incorrect use of drugs, and the degree of their impact on various organs and systems depends on the type of drug, the individual characteristics of the patient, and the state of administration. Safety of drugs. To reduce side effects, it is necessary to take drugs only as prescribed by a doctor. Types of side effects. Usually, drugs can have a negative effect on the gastrointestinal system, cardiovascular system, allergic reactions, liver, and kidneys. Modern scientific research, clinical trials, and patient monitoring are essential to identify adverse drug reactions. An individualized approach and caution are essential for each patient.

To do this, it is important to take medications only in the necessary and prescribed doses, for the shortest possible time, and to consider their risks and benefits.

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