

Santhakumar S., Shivaramaiah B.

**INDEPENDENT USAGE OF ANALGESIC AND ANTIPYRETIC MEDICATIONS
AND THEIR SIDE EFFECTS**

Tutor: PhD, associate professor Volchek A.V.

*Department of Pharmacology
Belarusian state medical university, Minsk*

Relevance. This report discusses about how people have been using analgesic and antipyretic without physician's prescription and without their guidance. Let's breakdown, what is analgesic and antipyretic? Analgesic a medication that relieves pain and antipyretic a medication that reduces fever. Some of the most common analgesics and antipyretics: Acetaminophen (paracetamol), ibuprofen (Advil, Motrin), Tylenol, Aspirin, Diclofenac. Main mechanism of action: Inhibition of cyclooxygenase (COX) enzymes, COX-1&COX-2 in the brain, which reduces the synthesis of cytokines like prostaglandins, IL, TNF, Leukotrienes involved in pain and fever. Common side effects: liver damage, allergic reactions, gastrointestinal issues, kidney problems, cardiovascular risks, fluid retention, bleeding problems and Reye's Syndrome.

Aim: this study is to aware people about analgesics, antipyretic and their side effects.

Materials and methods. An analysis of people's feedback about using analgesic and antipyretic in www.drugs.com clearly showing that most commonly used medications are paracetamol, ibuprofen, diclofenac, less commonly used is aspirin. The most common reasons for taking medications are fever and pain, pain includes headache, back pain, muscle pain, period pain. This survey details gathered from 75 people, who are regular drug users, 15 people for each drug. after long time usage of these drugs 30% people started feeling side effects and nearly 50% people taking these medications without doctor's consent.

Results and their discussion. Most of the people have got some same side effects, those: allergic reactions especially rash, stomach ache, nausea, vomiting, ulcers, tarry stool, after prolong usage the need of dose have increased, masking underlying conditions when they take for fever.

Conclusion. The survey clearly shows that analgesics and antipyretic being used commonly without doctor's prescription and many of the drug users facing some side effects. Prolonged usage of drug can cause serious illnesses, so people need to have proper awareness about drugs and their usages.