

Title of the practice: Awareness on Pantoprazole.

Objectives: It is an opportunity to teach the students about the pantoprazole tablet and its chemical nature.

Introduction :-

Generic name: Pantopraz

Brand name: Protonix

Dosage form: Oral Route



Uses: It reduces the amount of acid our stomach makes. It's used for heartburn, acid reflux and gastro-oesophageal reflux disease (GORD).

When GORD is keep getting acid reflux. It's also taken to prevent and treat stomach ulcers.

Side effects: It may cause side effects.

i.e. headache, nausea,

Vomiting, gas,

Joint pain, diarrhea.

• in men, difficulty achieving or maintaining an erection.

Precautions: It may increase your risk of having fractures of the hip, wrist, and spine. This is more likely if you are 50 years of age and older, if you receive high doses of this medicine, or use it for one year or more. Call your doctor right away if you have severe bone pain or are unable to walk or sit normally.

Chemical theory of pantoprazole :

IUPAC name : RS-(6)-(Difluoromethoxy)-2-[(3,4-dimethoxypyridin-2-yl)methylsulfinyl]-1H-benzo[d]imidazole

formula : $C_{16}H_{15}F_2N_3O_4S$

onset of action: The onset of action is rapid, and the maximal effect occurs between 2 and 6 hours after drug administration.

It is also metabolized in the liver.

Predominantly by CYP_{2C19} demethylation and sulfation. These metabolites are not known to be of any significance.

Problem encountered :

taking pantoprazole for more than a year may increase your chances of certain side effects, including: bone fractures, gut infections, vit. B12 deficiency. Symptoms include feeling very tired, a sore and red tongue, mouth ulcers and pins and needles.

Evidence of Success:

students are able to know the Pantoprazole uses, chemical name, Brand name, and able to the onset of action and formula.

Title of the Practices :- Awareness of Aceclofenac.

Objectives :- It is an opportunity to know the information collected the students about Aceclofenac tablet from primary health care centre of Shikhar Khan gadda area.

Introduction :

Generic name : Aceclofenac

Brand name : Acecgen, Atlammin, Flemac, Hifenac-P

Dosage form : tablets, capsules, ointments, creams, gels

Uses of Aceclofenac : It is used to relieve pain and inflammation in conditions such as rheumatoid arthritis, ankylosing spondylitis and osteoarthritis. To treat the symptoms such as swelling, pain, stiffness, tender and painful joints.

Side effects of Aceclofenac tablet : Abdominal pain, Constipation, Diarrhea, Nausea, Vomiting, Skin rash, Dizziness, visual disturbance, Flatulence, Flushing, Stomach Pain, Loss of Appetite, Heartburn.

Precautions :

- Avoid taking the medicine on an empty stomach.
- Always follow the prescribed dosage, irrespective of the intensity of the symptoms.
- Do not buy or consume expired medicine.
- Store in a dry and cool place away from light and heat.

Chemical theory of Aceclofenac:

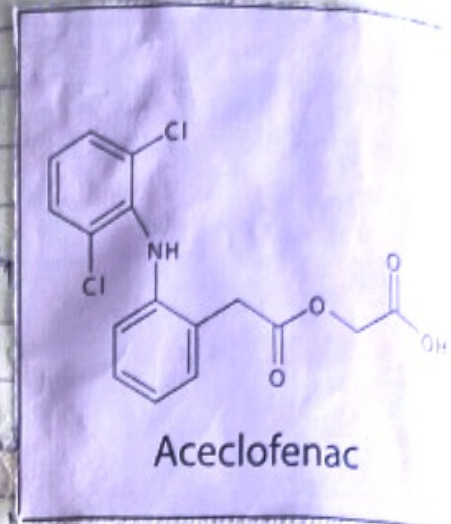
IUPAC name: 2-[2-[2-[(2,6-dichlorophenyl)amino]phenyl]acetyl]oxyacetic acid

Formula: $C_{16}H_{13}Cl_2NO_4$

onset of action: It is a crystalline powder practically insoluble in water with good permeability. It is metabolized in human hepatocytes and human microsomes.

It works by inhibiting the action of cyclooxygenase that is involved in the production of prostaglandins which is accountable for pain, swellings, inflammation and fever.

It is a nonsteroidal anti-inflammatory drug analog of diclofenac.



Problem encountered:

Students of science groups have understood how to use and when to use the drug and the onset of action and were able to explain others about its effects.

But the non-science students are not up to the mark and were treating the drug as a normal medicine.

Evidence of Success:

Students are able to understand the drug and onset of action.