

Title of the practice: Awareness on Metronidazole

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

Introduction:

Generic name: Metronidazole

Brand name: Zidoval, Flagyl

Dosage form: Capsule (350mg)

Uses: It is an antibiotic.

It's used to treat skin infection, rosacea and mouth infections, including infected gums and dental abscesses.

It is also used to treat conditions such as bacterial vaginosis and pelvic inflammatory disease.

Side effects:

- Agitation
- back pain
- blindness
- blurred vision
- burning, numbness, tingling, or painful sensations in the hands or feet
- changes in speech patterns
- Confusion
- decreased vision
- depression
- dizziness
- Vomiting

Precautions:

Before taking metronidazole, tell your doctor or pharmacist if you are allergic to it; or to other antibiotics (such as tinidazole); or if you have any other allergies. This product may contain inactive ingredients which can cause allergic reactions or other problems. Talk to your pharmacist for more details.

Chemical theory of Metronidazole:

IUPAC name: 2-(2-methyl-5-nitro-1H-imidazol-1-yl) ethanol.
formula: $C_6H_9N_3O_3$

Onset of action: Metronidazole starts to work 1 to 2 hours after you take it. because it is quickly absorbed, and it reaches its maximum concentration after 20 minutes to 30 hours. But it may take a couple of days before you starts to feel better or notice an improvement in your symptoms.



Problem encountered:

It is an antibiotic that is used to treat a wide variety of infections. It works by stopping growth of certain bacteria and parasites.

Evidence of success:-

Students are able to know the uses, chemical theory of metronidazole, onset of action they are using in their daily life.

Title of the practice: - Awareness of Ondansetron

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

Introduction:-

Generic name: Ondansetron

Brand name: Zofran

Dosage form: Oral dose

Uses: Ondansetron is used to prevent nausea and vomiting that is caused by cancer medicines or radiation therapy.

It is also used to prevent nausea and vomiting that may occur after surgery.

Side effects:

- Severe constipation,
- stomach pain
- bloating
- headache
- fainting
- Pounding heartbeat

Precautions:

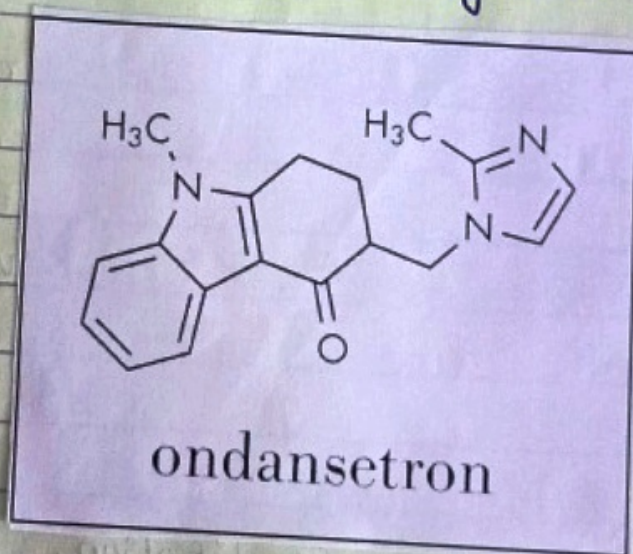
Before taking Ondansetron, talk to your doctor if you are allergic to it or some other medication. The product may contain some inactive ingredients that can cause some serious allergic reactions or other serious problems.

Chemical theory of ondansetron :

IUPAC name : 9-methyl 1,2,3,9-tetrahydro 4H-carbazol-4-one
formula : $C_{18}H_{19}N_3O$

Onset of action :

Ondansetron undergoes rapid absorption from the GI tract, and the peak plasma concentration is approximately 1.5 hours after an 8mg single oral dose. The absolute bioavailability of ondansetron after oral administration is approximately 60% (50% - 70%).



Problem encountered :

Ondansetron is a widely prescribed medication for nausea and vomiting from various causes - the granisetron, dolasetron, and second-generation drug, Palonosetron.

Evidence of success:-

students are able to know the uses, chemical theory of ondansetron, onset of action - they are using in their daily life.