

Fluconazole (150mg) + Azithromycin (1gm) + Secnidazole (1gm)

# Azoxone SF Kit

## Fluconazole (150 mg) + Azithromycin (1 gm) + Secnidazole (1 gm) Tablet: Product Information

**Brand Name:** Fluconazole + Azithromycin + Secnidazole Tablet

**Generic Name:** Fluconazole, Azithromycin, Secnidazole

**Strength:**

- **Fluconazole:** 150 mg per tablet
  - **Azithromycin:** 1 gm (1000 mg) per tablet
  - **Secnidazole:** 1 gm (1000 mg) per tablet
- Dosage Form:** Oral Tablet

## Indications:

This combination tablet is used for the treatment of various infections, especially **sexually transmitted infections (STIs)** and **fungal infections**, caused by susceptible microorganisms. It is typically prescribed for:

1. **Fungal Infections:**
  - **Vaginal candidiasis (yeast infections)** caused by **Candida species**.
  - Other **fungal infections** susceptible to **fluconazole**.
2. **Bacterial Infections:**
  - **Respiratory infections** such as **community-acquired pneumonia, pharyngitis, and tonsillitis** due to susceptible bacteria (treated by azithromycin).
  - **Sexually transmitted infections (STIs)** such as:
    - **Chlamydia** and **gonorrhea** (treated by azithromycin).
    - **Trichomoniasis** and other vaginal infections (treated by secnidazole).

## Mechanism of Action:

- **Fluconazole:** Fluconazole is an **azole antifungal** that works by inhibiting the synthesis of **ergosterol**, a key

component of the fungal cell membrane. This weakens the membrane and leads to the leakage of cellular contents, inhibiting the growth of the fungus. It is effective against a range of **Candida species** and other fungi.

- **Azithromycin:** Azithromycin is a **macrolide antibiotic** that works by inhibiting bacterial protein synthesis. It binds to the **50S ribosomal subunit** of susceptible bacteria, blocking their ability to produce proteins necessary for their growth. It is effective against a broad spectrum of **Gram-positive, Gram-negative, and atypical** bacteria, such as **Chlamydia trachomatis** and **Mycoplasma pneumoniae**.
- **Secnidazole:** Secnidazole is a **nitroimidazole antibiotic** that acts by disrupting the DNA of the target microorganism, leading to its death. It is primarily effective against **anaerobic bacteria** and **protozoa**, including **Trichomonas vaginalis** and **Gardnerella vaginalis**, which are often involved in infections like **trichomoniasis** and **bacterial vaginosis**.

## Contraindications:

This combination tablet is contraindicated in:

- **Hypersensitivity (allergy) to fluconazole, azithromycin, secnidazole**, or any components of the tablet.
- **Severe liver impairment:** Use with caution in patients with liver disease.
- **QT prolongation:** Azithromycin may prolong the QT interval, so this combination should be avoided in patients with a history of **arrhythmias** or **congenital QT prolongation**.
- **Pregnancy and breastfeeding:** Consult your healthcare provider before use during pregnancy or while breastfeeding. **Fluconazole** and **secnidazole** can be used with caution in certain pregnancy cases, but **azithromycin** is generally considered safer.

## Warnings and Precautions:

- **QT Prolongation and Cardiac Issues:** Azithromycin may cause **QT interval prolongation** and increase the risk of **torsades de pointes** (a serious type of arrhythmia). Caution is required in patients with **existing heart conditions**, **electrolyte imbalances**, or those on other medications that affect the heart.
- **Liver Function:** Monitor liver function in patients with pre-existing **liver disease** or those receiving prolonged treatment with **fluconazole**. Discontinue if signs of liver dysfunction (e.g., jaundice, abdominal pain, dark urine) occur.
- **Fungal Resistance:** Overuse of **fluconazole** can lead to **fungal resistance**, which may limit its effectiveness in treating infections.
- **Alcohol Use:** While using secnidazole or fluconazole, avoid drinking alcohol as it can increase the risk of **side effects** such as nausea and vomiting.

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## Side Effects:

### Common side effects include:

- **Gastrointestinal disturbances:** Nausea, vomiting, diarrhea, or abdominal pain.
- **Headache** or dizziness.
- **Fatigue** or malaise.

### Serious but rare side effects:

- **Severe allergic reactions:** Rash, swelling, difficulty breathing (anaphylaxis).
- **QT prolongation and arrhythmias:** Chest pain, palpitations, or fainting due to irregular heartbeats.
- **Severe gastrointestinal symptoms:** Persistent diarrhea, abdominal cramps, or colitis.

If any of these serious side effects occur, discontinue the medication and seek immediate medical help.

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## Drug Interactions:

- **CYP3A4 Inhibitors:** Azithromycin interacts with drugs that inhibit the **CYP3A4 enzyme**, which can increase its levels in the blood. Examples include **antifungals** (e.g., **ketoconazole**), **calcium channel blockers**, **antidepressants**, and certain **antivirals**.

- **Alcohol:** Avoid alcohol consumption during treatment with **secnidazole** as it can cause adverse effects like nausea, vomiting, and increased liver toxicity.
- **Other Probiotics:** **Secnidazole** and **fluconazole** may alter the balance of **gut bacteria**, and caution is needed when taking them alongside other **antibiotics** or **probiotics**.

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## Storage:

- Store at **room temperature** (15°C to 30°C / 59°F to 86°F), away from moisture, heat, and direct sunlight.
- Keep out of reach of children.

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## Patient Counseling Information:

- **Take as prescribed:** Complete the full course of treatment even if you start feeling better before finishing the medication, especially for **STIs** and **fungal infections**, to prevent recurrence or resistance.
- **Avoid alcohol:** While taking this medication, avoid alcohol to minimize side effects.
- **Notify your doctor of other medications:** Inform your healthcare provider of any other medications or health conditions, especially those related to the heart, liver, or kidney.

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This is an overview of **Fluconazole (150 mg) + Azithromycin (1 gm) + Secnidazole (1 gm) tablet**. Always follow your healthcare provider's instructions regarding dosing, treatment duration, and monitoring for side effects to ensure safe and effective use.

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