

AZOMYCIN

Capsules and
Powder for Oral Suspension

Broad Spectrum
Antibiotic

Composition :

- Each capsule contains:
Azithromycin dihydrate equivalent to 250 mg azithromycin base.
- Each 5 ml of oral suspension contains :
Azithromycin dihydrate equivalent to 200 mg azithromycin base.

Properties

AZOMYCIN contains azithromycin which belongs to a new subclass of macrolide antibiotics with broader spectrum of activity, sustained tissue antibiotic levels and expanded therapeutic range. **AZOMYCIN** is active against Gram-positive bacteria with more potency than other macrolides against Gram-negative bacteria especially *H. influenzae*. **AZOMYCIN** is also active against atypical intracellular organisms such as *Mycoplasma pneumoniae* and *Chlamydia trachomatis*. **AZOMYCIN** binds specifically to 50S ribosomal subunit of susceptible microorganisms and inhibits protein synthesis through dissociation of RNA from ribosomes. Clinically, **AZOMYCIN** therapy exerts high cure rate and offers the advantages of once daily dosing, short course of therapy and excellent patient compliance. **AZOMYCIN** is well tolerated and safely used in patients (adults and children) allergic to penicillin with rare incidence of the GI side effects commonly encountered with administration of most other macrolides.

Pharmacokinetics

Azithromycin is rapidly absorbed from the GIT after oral administration. The dose should preferably be taken on empty stomach as absorption is affected by the presence of food. Peak plasma concentrations are achieved within 2 - 3 hours and the drug is widely distributed into body tissues and fluids. Less than 50% of the drug is bound to plasma proteins with higher concentrations achieved in tissues than in plasma. Only a small amount of the oral dose is metabolized in the liver. Azithromycin is mainly excreted in the bile as unchanged drug and metabolites and about 6% is excreted in the urine. Azithromycin has extended half-life ranging from 40 - 60 hours. It is still not clear whether the drug is excreted in breast milk or crosses the placenta.

Antimicrobial Spectrum

- **Gram-positive aerobic bacteria :**
Staphylococcus aureus, *Staph. epidermidis*, *Streptococcus pyogenes*, *Strep. viridans*, *Strep. agalactiae*, *Strep. pneumoniae* and other *Streptococcus* spp.
- **Gram-negative aerobic bacteria :**
Haemophilus influenzae, *H. ducreyi*, *Moraxella catarrhalis*, *Neisseria gonorrhoeae*, *Legionella pneumophila*, *Bordetella pertussis*, *Shigella* spp., *Escherichia coli*, *Salmonella* and *Aeromonas* spp.
- **Anaerobic bacteria :**
Bacteroides fragilis and other *Bacteroides* spp., *Clostridium perfringens* and *Peptostreptococcus* spp.
- **Other microorganisms :**
Chlamydia trachomatis, *Chlamydia pneumoniae*, *Treponema pallidum*, *Borrelia burgdorferi*, *Toxoplasma gondii*, *Mycoplasma pneumoniae*, *Mycoplasma hominis*, *Ureaplasma urealyticum* and *Mycobacterium avium*.

Indications

AZOMYCIN is indicated for treatment of infections caused by susceptible microorganisms :

- **Upper respiratory tract infections :** otitis media, sinusitis, pharyngitis and tonsillitis.
- **Lower respiratory tract infections :** acute exacerbation of chronic bronchitis, community acquired pneumonia and exacerbations of chronic obstructive

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