

ZOMAX® IV

DESCRIPTION

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Zomax (azithromycin for injection) contains the active ingredient azithromycin, an azalide a subclass of macrolide antibiotics, for intravenous injection.

Zomax (azithromycin for injection) consists of azithromycin dirtydrate and the following inactive ingredients: citric acid and sodium hydroxide. Zomax (azithromycin for injection) is supplied in hydralized form in a 10-mL vial equivalent to 500 mg of azithromycin for intravenous administration. Reconstitution, according to label directions, results in approximately 5 mL of Zomax for intravenous injection with each mL containing azithromycin dirydrate equivalent to 100 mg of azithromycin. equivalent to 1

results in approximately 9 mL of Zomax for intravenous injection with each mL containing azithromycin dihydrate equivalent to 100 mg of azithromycin.

INDICATIONS

Zomax (azithromycin for injection) is indicated for the treatment of patients with intections caused by susceptible strains of the designated microorganisms in the conditions listed below. As recommended dosages, durations of therapy, and applicable patient populations vary among these infections.

Community-acquired pneumonia due to Chlamydia pneumoniae, Haemophilus influenzae, Legionella pneumophila, Moravella catarihalis, Mycoplasma pneumoniae, Stathylococcus aureus, or Sheptococcus pneumoniae in patients who require initial intravenous therapy.

Petvic Inflammatory disease due to Chlamydia trachomatis, Neisseria gonorrhoeae, or Mycoplasma hominis in patients who require initial intravenous therapy. If anaerobic microorganisms are suspected of contributing to the infection, an antimicrobial agent with anaerobic activity should be administered in combination with Zomax.

Zomax (zaithromycin for injection) should be followed by Zomax by the oral route as required.

Appropriate culture and susceptibility tests should be performed before treatment to determine the causative microorganism and its susceptibility to azithromycin. Therapy with Zomax may be initiated before results of these tests are known; once the results become evailable, antimicrobial therapy should be adjusted accordingly.

To reduce the development of drug-resistant bacteria and maintain the effectiveness of Zomax (azithromycin) and other antibacterial drugs, Zomax (azithromycin) should be used only to treat or prevent infections that are proven or strongly suspected to be caused by susceptible bacteria. When culture and susceptibility information are available, they should be considered in selecting or modifying antibiacerial thrugs; Jonax (azithromycin) to injection) for the treatment of adult patients with community-acquired pneumonia due to the indicated organisms is: 500 mg as a

Henal Insufficiency: No dosage adjustment is recommended for subjects with renal impairment (GFH s80 mL/min).

The mean AUC has was similar in subjects with GFR 10-80 mL/min compared to subjects with normal renal function, whereas it increased 35% in subjects with GFR <10 mL/min compared to subjects with normal renal function. Caution should be exercised when azithromycin is administered to subjects with severe renal impairment. Hepatic Insufficiency: The pharmacotinetics of azithromycin is subjects with hepatic impairment have not been established. No dose adjustment recommended based on age or gender.

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The influsale concentration and rate of influsion for Zomax (azithromycin for injection) should be either 1 mg/mL over 3 hours or 2 mg/mL over 1 hour.

Preparation of the solution for intravenous administration is as follows:

Reconstitution

Prepare the initial solution of Zomax (azithromycin for injection) by adding 4.8 mL of Sterile Water For Injection to the 500 mg vial and shaking the vial until all of the drug is dissolved. Since Zomax (azithromycin for injection) is supplied under vacuum, it is recommended that a standard 5 mL (non-automated) syringe be used to ensure that the exact amount of 4.8 mL of Sterile Water is dispensed. Each mL of reconstituted solution contains 100 mg azithromycin. Reconstituted solution is stable for 24 hours when stored below 30°C or 86°F.

Parenteral drug products should be inspected visually for particulate matter prior to administration. If particulate matter is evident in reconstituted fluids, the drug solution should be discarded. Dilute this solution further prior to administration as instructed below.

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Distution
To provide azithromycin over a concentration range of 1.0-2.0 mg/mL, transfer 5 mL of the 100 mg/mL azithromycin solution into the appropriate amount of any of the diluents listed below:
Normal Saine (0.9% sodium chloride)
1/2 Normal Saine (0.4% sodium chloride)
5% Destrose in Water
Lactated Ringer's Solution
5% Destrose in 1/2 Normal Saine (0.45% sodium chloride) with 20 mEq KCI
5% Destrose in 1.2ctated Ringer's Solution
5% Destrose in Lactated Ringer's Solution
5% Destrose in Lactated Ringer's Solution
5% Destrose in 1.2ctated Ringer's Solution

5% Dextrose in 1/2 Normal Saline (0.45% sodium chloride) Normosol®-M in 5% Dextrose

Normosol@-R in 5% Dextros

Final Infusion Solution Concentration (mg/mL)	Amount of Diluent (mL)
1.0 mg/mL	500 mL
2.0 mg/mL	250 mL

It is recommended that a 500-mg dose of Zomax (azithromycin for injection), diluted as above, be infused over a

period of not less than 60 minutes. Zomax (azithromycin for injection) should not be given as a bolus or as an intramuscular injection.

intramiscular injection. Other intravenous substances, additives, or medications should not be added to Zomax (azithromycin for injection), or infused simultaneously through the same intravenous line. CONTRAINDICATIONS

Zomax is contraindicated in patients with known hypersensitivity to azithromycin, erythromycin, or any macrolide

WARNINGS

Serious allergic reactions, including angioedema, anaphylaxis, and dermatologic reactions including Stevens
Johnson Syndrome and toxic epidermal necrolysis have been reported rarely in patients on azithromycin therap
Although nere, stabilities have been reported. Despite initially successful symptomas treatment of the allergic
symptoms, when symptomatic therapy was discontinued, the allergic symptoms recurred soon thereafter in
some patients without further azithromycin exposure. These patients required prolonged periods of observation
and symptomatic treatment. The relationship of these episcodes to the long tissue half-life of azithromycin and
subsequent prolonged exposure to antigen is unknown at present.
If an allergic reaction occurs, the drug should be discontinued and appropriate therapy should be instituted.
Physicians should be aware that reappearance of the allergic symptoms may occur when symptomatic therapy
is discontinued.

is discontinued.

Pseudomembranous colitis has been reported with nearly all antibacterial agents and may range in severity from midd to life-threatening. Therefore, it is important to consider this diagnosis in patients who present with diarrhea subsequent to the administration of antibacterial agents.

Treatment with antibacterial agents afters the normal flora of the colon and may permit overgrowth of clostricials. Studies indicate that a tooin produced by Clostrician difficile is a primary cause of "antibiotic-associated colitis."

After the diagnosis of pseudomembranous colitis has been established, therapeutic measures should be initiated with disconsisting the prediction of the drug alone. In moderate to severe cases, consideration should be given to management with fluids and electrolytes, protein supplementation, and treatment with an antibacterial drug clinically effective against Clostricium difficile colitis.

\*\*General:\*\*

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Because azithromycin is principally eliminated via the fiver, caution should be exercised when azithromycin is administered to patients with impaired hepatic function. Due to the limited data in subjects with GFR <10 mL/min, caution should be exercised when prescribing azithromycin in these patients.

Zomax (azithromycin for injection) should be reconstituted and diluted as directed and administered as an intravenous infusion over not less than 60 minutes.

Local I.V. site reactions hewe been reported with the intravenous administration of azithromycin.

The incidence and severity of these reactions were the same when 500 mg azithromycin were given over 1 hour (2 mg/mL as 250 mL infusion), and volunteers who received infusate concentrations above 2.0 mg/mL experienced local I.V. site reactions and, therefore, higher concentrations should be avoided.

Protonged cardiac repolarization and QT interval, imparting a risk of developing cardiac arrhythmia and torsades de pointes, have been seen in treatment with other macrofides. A similar effect with azithromycin cannot be completely ruled out in patients at increased risk for prolonged cardiac repolarization. Prescribing Zomax (azithromycin) in the absence of a proven or strongly suspected bacterial infection or a prophylactic indication is unlikely to provide benefit to the patient and increases the risk of the development of

prophylacic indication is unlikely to provide benefit to the patient and increases the risk of the development of drug-resistant bacteria.

\*\*Drug Interactions:

Co-administration of neffinavir at steady-state with a single oral dose of azithromycin resulted in increased azithromycin serum concentrations. Although a dose adjustment of azithromycin is not recommended when administered in combination with neffinavir, close monitoring for known side effects of azithromycin, such as liver enzyme abnormalities and hearing impatment, is warranted.

Azithromycin given by the oral route did not affect the prothrombin time response to a single dose of warrann. However, prudent medical practice dictates careful monitoring of prothrombin time in all patients treated with astithromycin and warfant concomitantly. Concurrent use of macrotides and warfant in clinical practice has been associated with increased anticoagulant effects.

Drug interaction studies were performed with azithromycin and other drugs likely to be co-administered. When used in therapeutic doses, azithromycin had a modest effect on the pharmacokinetics of atorvastatin, carbamazepine, cetrizine, didanosine, efavirenz, fluconazoie, indinavir, indiazoiam, ribaution, sidenatif, theophylline (intravenous and oral), inazolam, trimethopran/sulfamethoxazole or zidovudine. Co-administration with elavirenz or fluconazole had a modest effect on the pharmacokinetics of azithromycin. No dosege adjustment of either drug is recommended when azithromycin is no evaluate potential drug-drug interactions. Nonetheless, they have been observed with macrotide products.

Until turther data are developed regarding drug interactions when azithromycin and these drugs are used concomitantly, careful monitoring of patients is advised:

Digozin - elevated digoxin concentrations.

Ergotamine or dihydroregotamine - acute ergot toxicity characterized by severe peripheral vasospasm and dysesthesia.

Digoxin - elevated digoxin currennamental Ergotamine or dihydroergotamine - acute ergot toxicity characterized by severe peripheral vasospasm and dysesthesia.

Terfenadine, cyclosporine, hexobarbital and phemytoin - elevated concentrations.

Laboratory Test Interactions: There are no reported laboratory test interactions.

Carcinogenesis, Mutagenesis, Impairment of Fertility: Long-term studies in animals have not been performed to evaluate carcinogenic potential. Arithromycin has shown no mutagenic potential in standard laboratory tests: mouse lymphoma assay, human lymphocyte clastogenic assay, and mouse bone marrow clastogenic assay. No evidence of impaired fertility due to azithromycin was found.

Pregnancy: Teratogenic Effects, Pregnancy Category B: Reproduction studies have been performed in rats and mice at doses up to moderately maternally toxic dose concentrations (i.e., 200 mg/kg/day by the oral routa). These doses, based on a mg/m2 basis, are estimated to be 4 and 2 times, respectively, the human deily dose of 500 mg by the oral routa. In the animal studies, no evidence of harm to the fetus due to azithromycin was found. There are not always predictive of human response, azithromycin should be used during pregnancy only if clearly needed. Nursing Mothers: It is not known whether azithromycin is administered to a nursing woman. Nursing Mothers: It is not known whether azithromycin is administered to a nursing woman have not been established. In controlled clinical studies, azithromycin have not been administered to pediatric patients (age 6 months to 16 years) by the oral route.

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Gertafric User: Pharmacokinetic studies with intravenous azithromycin have not been performed in older volunteers. Pharmacokinetics of azithromycin following oral administration in older volunteers (58-85 years old) were similar to those in younger volunteers (18-40 years old) for the 5-day therapeutic regimen.

Zomax (azithromycin for injection) contains 114 mg (4.96 mEq) of sodium per viel. At the usual recommended doses, patients would receive if 14 mg (4.96 mEq) of sodium. The geriatric population may respond with a blumb natriumesis to salt loading. The total sodium content from dietary and non-dietary sources may be clinically important with regard to such diseases as congestive heart failure.

SIDE EFFECTS

SIDE EFFECTS in clinical trials of intravenous azithromycin for community-acquired pneumonia, in which 2-5 LV doses were giver most of the reported side effects were mild to moderate in severity and were reversible upon discontinuation of the drug. The majority of patients in these trials had one or more comorbid diseases and were receiving concomitant medications. Approximately 12% of the patients discontinued intravenous Zomax therapy, and a total CA discontinued azithromycin therapy by either the intravenous or oral route because of clinical or laboratory side

effects. Clinical side effects leading to discontinuations from these studies were most commonly gastrointestinal (abdominal pain, nausea, vornting, diarrhea), and rashes; laboratory side effects leading to discontinuation were increases in transaminase levels and/or alkeline phosphatase levels.

Clinical: Overall, the most common side effects associated with treatment in adult patients who received I.V.P.O. Zomax in studies of community-acquired pneumonia were related to the gastrointestinal system with diarrhea/ loose stools (4.3%), nausea (3.9%), abdominal pain (2.7%), and vornting (1.4%) being the most frequently reported. Approximately 12% of patients experienced a side effect related to the instrevenous intusion; most common were pain at the injection sits (6.5%) and local inflammation (3.1%). The most common side effects associated with treatment in adult women who recarved I.V.P.O. Zomax in studies of pelvic inflammatory disease were related to the gastrointestinal system. Diarrhea (8.5%) and nausea (6.5%) were most commonly reported, followed by vagnifits (2.4%), abdominal pain (1.9%), oncreate (1.9%), rash and prudius (1.9%). When azithromycin was co-administered with metronidazole in these studies, a higher proportion of women experienced side effects of nauses (10.3%), abdominal pain (3.7%), -omiting (2.8%), application site reaction, stomatifis, dizziness, or dyspine (all at 1.9%). No other side effects of occurred in patients on the multiple dose I.V.P.O. regimen of Zomax in these studies with a frequency greater than 1%.

reo uner side effects occurred in patients on the multiple dose I.V./P.O. regimen frequency greater than 1%. Side effects that occurred with a frequency of 1% or less included the following: Gastrothnesthad: dyspepsia, flatulence, mucositis, oral monificasis, and gastritis. Nervous System: headache, somnolence.

Allergis: bronchospasm.
Special Senses: taste perversion.

Newton System: reactacine, soffmonthers.

Altergic: bronchospasm.

Special Sanses: tasts perversion.

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Post-Marketing Experience: Adverse events reported with azithromycin during the post-marketing period in adult and/or pediatric patients for which a causal relationship may not be established include:

Altergic: Arthraigia, adema, urbicaria and angioedema.

Cardiovascular: Arrhythmias including ventricular tachycardia and hypotension. There have been rare reports of OT prolongation and torsades de pointes.

Gastrointestinal: Anorexia, constipation, dyspepsia, flatulence, vomiting/diarrhea rurely resulting in dehydration, pseudomembranous colitis, pancreatitis, oral candidiasis and rare reports of tenque discoloration.

General: Astheria, paresthesia, fatigue, maiaise and anaphyticis (rarely fatal).

Genitourinary: Interstitial nephritis and acute rend fatigue and vagnitis.

Hematopoletic: Thrombocytopenia.

Liver/Bilary: Ahoromeli liver function including hepatitis and cholestatic jaundice, >s well as rare cases of hepatic necrosis and hepatic failure, some of which have resulted in death.

Nervous System: Convulsions, dizziness/vertigo, headache, somnolence, hyperactivity, nervousness, agitation and synoope.

and synk-ope.

Psychiatric: Aggressive reaction and anxiety.

Skint/Appendages: Pruritus, rarely serious skin reactions including erythema multiforme, Stevens-Johnson Syndrome and toxic epidemal necodysis.

Special Senses: Hearing disturbances including hearing loss, deafness and/or finnitus and rare reports of taste

perversion.

Laboratory Abnormalities: Significant abnormalities (irrespective of drug relationship) occurring during the clinical trials were reported as follows:

- With an incidence of 4-8%, elevated ALT (SGPT), AST (SGOT), creatinine.

- With an incidence of 1-8%, elevated LDH, bilirubin.

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- With an incidence of less than 1%, leukopenia, neutropenia, decreased platelet count, and elevated serum alkaline phosphatase.

- When follow-up was provided, changes in laboratory tests appeared to be raversible.

STORAGE

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Store between 15-25°C. When diluted according to the instructions (1.0 mg/ml. to 2.0 mg/ml.), Zomax (azilthomycin for injection) is stable for 24 hours at or below room temperature (30°C or 86°F), or for 7 days if stored under refrigeration (5°C or 41°F).

PRESENTATIONS ZOMAX 500 mg IV :

Azithromycin 500 mg for intravenous infusion Excipients: Sodium hydroxide, Citric acid



- THIS IS A MEDICAMENT

  A medicament is a product which affects your health, and its consumption contrary
- A monicament is a product which alrects your nearth, and its consumption contra-to instructions is dengerous.

  Follow the doctor's prescription strictly, the method of use and the instructions of pharmacist who sold the medicament.

  The doctor and the pharmacist are experts in medicine, its benefits and risks.

  Do not by yourself interrupt the period of treatment prescribed for you.

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