HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use AZITHROMYCIN FOR ORAL
SUSPENSION safely, and effectively. See full prescribing information for AZITHROMYCIN FOR
ORAL SUSPENSION.

nitial U.S. Approval: 1991

Initial U.S. Approval: 1991

RECENT MAJOR CHANGES

Warnings and Precautions. Hypersensitivity (5.1), 3/2017

Warnings and Precautions, infantile Hypertrophic Pyloric Stenosis (5.3) 2/2017

Warnings and Precautions, infantile Hypertrophic Pyloric Stenosis (5.3) 2/2017

MDICATIONS AND USAGE

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Acute bacterial exacerabations of chronic bronchits in adults (1.1)

4 Acute bacterial exacerabations of chronic bronchits in adults (1.1)

4 Acute bacterial sinusitis in adults (1.1)

4 Cute bacterial sinusitis in adults (1.1)

5 Central Lucer desases in med (1.1)

1 Urethrifts and cervicitis in adults (1.1)

4 Acute otitis media in padatirc patients (1.2)

5 Community-acquired penumonia in adults and pediatric patients (1.1, 1.2)

7 Pharyngitis/tonsilitis in adults and pediatric patients (1.1, 1.2)

Limitation of Use:
Acknowlysis should not be used in patients with pneumonia who are judged to be inappropriate for oral
Acknowlysis should not be used in patients with pneumonia who are judged to be inappropriate for oral
To reduce the development of drug-resistant bacteria and maintain the effectiveness of azithromycin for
oral suspension USP and other antibacterial drugs, azithromycin for oral suspension USP should be used
only to treat infections that are proven or strongly suspected to be caused by susceptible bacteria. (1.4)

• Adult Patients (2.1)

• Infection	Recommended Dose/Duration of Therapy
Community-acquired pneumonia (mild severity) Pharyngitis/tonsillitis (second-line therapy) Skin/skin structure (uncomplicated)	500 mg as a single dose on Day 1, followed by 250 mg once daily on Days 2 through 5.
Acute bacterial exacerbations of chronic bronchitis (mild to moderate)	500 mg as a single dose on Day 1, followed by 250 mg once daily on Days 2 through 5 or 500 mg once daily for 3 days.
Acute bacterial sinusitis	500 mg once daily for 3 days.
Genital ulcer disease (chancroid) Non-gonococcal urethritis and cervicitis	One single 1 gram dose.
Gonococcal urethritis and cervicitis	One single 2 gram dose.

• Pediatric Patient(2.2)

Infection	Recommended Dose/Duration of Therapy
Acute otitis media	 30 mg/kg as a single dose or 10 mg/kg once daily for 3 days or 10 mg/kg as a single dose on Day 1 followed by 5 mg/kg/day on Days 2 through 5.
Acute bacterial sinusitis	10 mg/kg once daily for 3 days.
Community-acquired pneumonia	10 mg/kg as a single dose on Day 1 followed by 5 mg/kg once daily on Days 2 through 5.
Pharyngitis/tonsillitis	12 mg/kg once daily for 5 days.

DOSAGE FORMS AND STRENGTHS
 Azithromycin for oral suspension 100 mg/5 mL and 200 mg/5 mL (3)

- CONTRAINDICATIONS
 Patients with known hypersensitivity to azikhromycin, erythromycin, any macrolide or ketolide drug. (
- 4.1)
 Patients with a history of cholestatic jaundice/hepatic dysfunction associated with prior use of azithromycin. (4.2)

- azithromycin. (4.2)

 WARNINGS AND PRECAUTIONS.

 Serious (including fatal) allergic and skin reactions: Discontinue azithromycin if reaction occurs. (5.1) as the strong of the property of the

Most common adverse reactions are diarrhea (5 to 14%), nausea (3 to 18%), abdominal pain (3 to 7 %), or vomiting (2 to 7 %), (6.1)

un wurmung (2 to 7 %), (0.1) To report SUSPECTED ADVERSE REACTIONS, contact Epic Pharma, LLC at 1-888-374-2791 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

- FDA at 1-800-FDA-1088 or www.fda.gov/medvatch.

 Nelfinavir: Close monitoring for known adverse reactions of azithromycin, such as liver enzyme abnormalities and hearing impairment, is warranted. (7.1)

 Warfarin: Use with azithromycin may increase coagulation times; monitor prothrombin time. (7.2)
- Pediatric use: Safety and effectiveness in the treatment of patients under 6 months of age have not been established. (8.4)
- Geriatric use: Elderly patients may be more susceptible to development of torsades de pointes arrhythmia. (8.5)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling. Revised: 12/2022

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Arithromycin for oral suspension USP is a macrolide antibacterial drug indicated for the treatment of patients with mild to moderate infections caused by susceptible strains of the designated microorganisms in the specific conditions listed below. Recommended dosages and durations of therapy in adult and pediatric patient populations vary in these indications. [see Dosage and Administration (2)]

1.1 Adult Patients

- Acute bacterial exacerbations of chronic bronchitis due to Haemophilus influenzae, Moraxella catarrhalis, or Streptococcus pneumoniae.

 Acute bacterial sinusitis due to Haemophilus influenzae, Moraxella catarrhalis, or
- Streptococcus pneumoniae.

- Streptococcus pneumoniae
 Community-acquired pneumonia due to Chlamydophila pneumoniae, Haemophilus influenzae, Mycoplasma pneumoniae, or Streptococcus pneumoniae in patients appropriate for oral therapy.
 Pharyngits/tonsillits caused by Streptococcus pyogenes as an alternative to first-line therapy in individuals who cannot use first-line therapy.
 Uncomplicated skin and skin structure infections due to Staphylococcus aureus, Streptococcus pyogenes, or Streptococcus agadectiee.
 Urethritis and cervicits due to Chlamydia trachomatis or Neisseria gonorrhoeae.
 Gental ulcer disease in men due to Haemophilus ducreyi (chancroid). Due to the small number of women included in clinical trials, the efficacy of azhtromycin in the treatment of chancroid in women has not been established.

1.2 Pediatric Patients

- 1.2 Pediatric Patients

 [see Use in Specific Populations (8.4) and Clinical Studies (14.2)]

 Acute otitis media (2.6 months of age) caused by Haemophilus influenzae, Moraxella catarhalis, or Streptococcus pneumonia

 Community-acquired pneumonia (2.6 months of age) due to Chlamydophila pneumoniae, Haemophilus influenzae, Mycoplasma pneumoniae, or Streptococcus pneumoniae in patients appropriate for oral therapy.

 Pharyngitis/fonsilitis (2.2 years of age) caused by Streptococcus progenes as an alternative to first-line therapy in individuals who cannot use first-line therapy.

1.3 Limitations of Use

L.3 Limitations of use

Azithromycin should not be used in patients with pneumonia who are judged to be inappropriate for oral therapy because of moderate to severe illness or risk factors such as any of the following:

• patients with cystic fibrosis,

• patients with noscomalia infections,

• patients with known or suspected bacteremia,

• patients requiring hosplatization,

• elderly or debilitated patients, or

• patients reth significant underlying health problems that may compromise their ability to respond to their illness (including immunodeficiency or functional asplenia).

To reduce the development of drug-resistant bacteria and maintain the effectiveness of azithromycin and other antibacterial drugs, azithromycin should be used only to treat 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 antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy.

2 DOSAGE AND ADMINISTRATION

[see Indications and Usage (1.1) and Clinical Pharmacology (12.3)]

Infection*	Recommended Dose/Duration of Therapy
Community-acquired pneumonia Pharyngitis/tonsillitis (second-line therapy) Skin/skin structure (uncomplicated)	500 mg as a single dose on Day 1, followed by 250 mg once daily on Days 2 through 5
Acute bacterial exacerbations of chronic obstructive pulmonary disease	500 mg once daily for 3 days OR 500 mg as a single dose on Day 1, followed by 250 mg once daily on Days 2 through 5
Acute bacterial sinusitis	500 mg-once daily for 3 days
Genital ulcer disease (chancroid)	One single 1 gram dose
Non-gonococcal urethritis and cervicitis	One single 1 gram dose
Gonococcal urethritis and cervicitis	One single 2 gram dose
*DUE TO THE INDICATED ORGANISMS [see	Indications and Usage (1.1)]

Azithromycin tablets can be taken with or without food

2.2 Pediatric Patients 1

Recommended Infection*Dose/Duration of Therapy	otitis	a alaala	Acute bacteria sinusitis	10 mg/kg once daily for 3 days.	Community- acquired pneumonia	10 mg/kg as a single dose on Day 1 followed by 5 mg/kg once doiey on Days 2 through 5.	Pharyngitis/tonsillitis	12 mg/kg once daily for 5 days.	*DUE TO THE INDICATED ORGANISMS [see Indications and Usage (1.2)] 1see dosing tables below for maximum doses evaluated by indication
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Azithromycin for oral suspension can be taken with or without food

Based on	(Age 6 (5-I months and above, [see Use in Specific Populations (8.4)])	AND on 10 INITY-mg/kg/da IRED Day 1 and ONIA: 5	y 10 d Weight mg m	00 200 g/5mg/s nL mL	per 5	Total mg per Treatment Course		Day 1	yDays 2-5	DayD 1 2	ays 5- 5	2. <u>5</u> 11ml.;(tsp	1/2 (1/4	7.515 mL m	0 102	5 2 mL; (1 tsp)	2.5 mL; (½ tsp)	15 300 mL mg		5 mL; (1 tsp)	mL; 1 (½ r	15 60 nL m	93060	mL; (1½	3.75; mL; ; mL; ; (%4) tsp)	22.59 mL r	900 mg 40		10 mL; rm; (2 (2 (2ssp)t	5 nL; 3' (1 m sp)	0 1200 nL mg	50 and above	110 and above	12.56. mL; n (2½ (1 tsp) ts	.25 nL; 37. 1¼ ml sp)	.51500 L mg)
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acquired pneumonia has not been established

OTITIS MEDIA AND ACUTE BACTERIAL SINUSITIS: (3-Day Regimen)*	on 10	Weight			Total mL per Treatment Course	Total mg per Treatment Course	Kg	Lbs.	Days 1-3	Days 1-3	511	2.5 mL; (½ tsp)	7.51 mL	150 mg	022	5 mL; : (1 r:sp)	15 300 mL mg	2044	5 mL (1 tsp	mL	600 ₃		7.5 mL (1½ tsp)	22.5 mL	900 mg	4088	10 mL (2 tsp	30 mL	1200 . mg	50 and above	110 and above	12.5 mL (2½ tsp)	37.5 mL	1500 mg
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*Effectiveness of the 5-day or 1-day regimen in pediatric patients with acute bacterial sinusitis has not been established.

OTITIS MEDIA: (1-Day Regimen)	Dosing Calculated on 30mg/kg as a single dose.	Weight	200 mg/5, mL	Total mL per Treatment Course	Total mg per Treatment Course	KgLbs	1-Day Regimen	511	3.75 mL; (¾ tsp)	3.75 mL	150 mg	022	7.5 mL; 7 (1½ n tsp)	.5300 ₂ nL mg	044	15 mL; (3 tsp)	15 6 mL m	00 ng 30 (66	22.5 mL; (4½ tsp)	2.590 mL m	0 9	88	30 mL; (6 r tsp)	30 12 nL m	าต		110 and bove	37.5 mL; 37 (7½ mL tsp)	5150 . mg	10
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The safety of re-dosing azithromycin in pediatric patients who vomit after receiving 30 mg/kg as a single dose has not been established. In clinical studies involving 487 patients with acute otitis media given a single 30 mg/kg dose of azithromycin, 8 patients who vomited within 30 minutes of dosing were re-dosed et he same total dose.

<u>Pharyngitis/Tonsillitis:</u> The recommended dose of azithromycin for children with pharyngitis/tonsillitis is 12 mg/kg once daily for 5 days. (See chart below.)

PEDIATRIC DOSAGE GUIDELINES FOR	Dosing Calculated		Total mL	Total mg			2.5		5		7.5		10		12.5
PHARYNGITIS/TONSILLITIS (Age 2 years and above, I see Use in Specific (5-Day	Regimen) mg/kg/day	200 Veight mg/ ml	5 Treatment	per Treatment	KgLbs	Day 1-5	18 mL;	12.5500 mL mg	737 mL; 2 (1 m	5 1000 L mg 25	55 mL; 37.5 (1½ mL	1500 mg 33	73 ^{mL;}	50 2000 mL mg	088 mL; 62.52500 (2½ mL mg
Populations (8.4)]) Based on Body Weight	for 5 days.	"	Course	Course			tsp)		tsp)		tsp)		tsp)		tsp)

Constituting instructions for Azithromycin Oral Suspension 300, 600, 900, 1200 mg bottles. The table below indicates the volume of water to be used for constitution:

Amount	Total volume	Azithromycin	0	15		0	15		12	22.5		15	20		ı
of	after	Aziciii Olliyciii	1	13	100	1		200	12		200	13	30	200	ı
water	constitution	Azithromycin concentration after	IIIL	LIIL	mg/5	(EOO	(EOO	mg/5	(OOO	(OOO	mg/5	(1200	1111	mg/5	ı
to be	(azithromycin	constitution	(300	(300	mL	(000)	ma)	mL	(300	ma)	mL	ma)	ma)	mL	ı
added	content)	Constitution	mg)	mg)		mg)	mg)		mg)	mg)		mg)	mg)		ı

Shake well before each use. Oversized bottle provides shake space. Keep tightly closed. After mixing, store suspension at 5° to 30°C (41° to 86°F) and use within 10 days. Discard after full dosing is completed.

3 DOSAGE FORMS AND STRENGTHS

Azithromycin for oral suspension USP after constitution contains a banana-cherry flavored suspension. Azithromycin for oral suspension, USP is flavored suspension. Azithromycin for oral suspension USP is supplied to provide 100 mg/5 mL or 200 mg/5 mL suspension in bottles.

4 CONTRAINDICATIONS

4.1 Hypersensitivity

Azithromycin for oral suspension is contraindicated in patients with known hypersensitivity to azithromycin, erythromycin, any macrolide or ketolide drug.

4.2 Hepatic Dysfunction

Azithromycin for oral suspension is contraindicated in patients with a history of cholestatic jaundice/hepatic dysfunction associated with prior use of azithromycin.

5 WARNINGS AND PRECAUTIONS

5.1 Hypersensitivity

Serious allergic reactions, including angioedema, anaphylaxis, and dermatologic reactions including Stevens-Johnson syndrome, and toxic epidermal necrolysis have been reported in patients on azithromycin therapy. Serious allergic reactions, including angioedema, anaphylaxis, and dermatologic reactions including Stevens-Johnson syndrome, and toxic epidermal necrolysis have been reported in patients on azithromycin therapy. [see Contraindications (4.1)]

Fatalities have been reported. Cases of Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) have also been reported. Despike initially successful symptomatic treatment of the allergic symptoms, when symptomatic therapy was discontinued, the allergic symptoms recurred soon thereafter in some patients without further azktromycin exposure. These patients required prolonged periods of observation and symptomatic treatment. The relationship of these episodes to the long tissue half-life of azktromycin and subsequent prolonged exposure to antigen is presently unknown.

If an allergic reaction occurs, the drug should be discontinued and appropriate therapy should be instituted. Physicians should be aware that allergic symptoms may reappear when symptomatic therapy has been discontinued. If an allergic reaction occurs, the drug should be discontinued and appropriate therapy should be instituted. Physicians should be aware that allergic symptoms may reappear when symptomatic therapy has been discontinued.

Abnormal liver function, hepatitis, cholestatic jaundice, hepatic necrosis, and hepatic failure have been reported, some of which have resulted in death. Discontinue azithromycin immediately if signs and symptoms of hepatitis occur.

5.3 Infantile Hypertrophic Pyloric Stenosis

Following the use of azithromycin in neonates (treatment up to 42 days of life), IHPS has been reported. Direct parents and caregivers to contact their physician if vomiting or irritability with feeding occurs.

5.4 QT Prolongation

Prolonged cardiac repolarization and QT interval, imparting a risk of developing cardiac Prolonged cardiac repolarization and QT interval, imparting a risk of developing cardiac arrhythmia and torsades de pointes, have been seen with treatment with macroidles, including azithromycin. Cases of torsades de pointes have been spontaneously reported during postmarketing surveillance in patients receiving azithromycin. Providers should consider the risk of QT prolongation which can be fatal when weighing the risks and benefits of azithromycin for al-risk groups including:

• patients with known prolongation of the QT interval, a history of torsades de pointes, congenital long QT syndrome, bradyarrhythmias or uncompensated heart failure

• patients with ongoing proarrhythmic conditions such as uncorrected hypokalemia or hypomagnesemia, clinically significant bradycardia, and in patients receiving Class IA (quinidine, procainamide) or Class III (dofetiide, amiodarone, sotalol) antiarrhythmic agents.

Elderly patients may be more susceptible to drug-associated effects on the QT interval.

5.5 Clostridium difficile-Associated Diarrhea (CDAD)

Clostridium difficile-associated diarrhea has been reported with use of nearly all antibacterial agents, including azithromycin, and may range in severity from mild diarrhea to fatla colits. Treatment with antibacterial agents alters the normal flora of the colon, leading to overgrowth of C. difficile.

C. difficile produces toxins A and B which contribute to the development of CDAD. Hypertoxin producing strains of C. difficile cause increased morbidity and mortality, as these infections can be refractory to antibacterial therapy and may require colectomy. CDAD must be considered in all patients who present with diarrhea following antibiotic use. Careful medical history is necessary since CDAD has been reported to occur over two months after the administration of antibacterial agents.

If CDAD is suspected or confirmed, ongoing antibiotic use not directed against C. difficile may need to be discontinued. Appropriate fluid and electrolyte management, protein supplementation, antibiotic treatment of C. difficile, and surgical evaluation should be instituted as clinically indicated.

5.6 Exacerbation of Myasthenia Gravis

Exacerbation of symptoms of myasthenia gravis and new onset of myasthenic syndrome have been reported in patients receiving azithromycin therapy.

5.7 Use in Sexually Transmitted Infections

Azithromycin, at the recommended dose, should not be relied upon to treat syphilis. Antibacterial agents used to treat non-gonococcal urethritis may mask or delay the symptoms of incubating syphilis. All patients with sexually transmitted urethritis or cervicitis should have a serologic test for syphilis and appropriate testing for gonorrhea performed at the time of diagnosis. Appropriate antibacterial therapy and follow-up tests for these diseases should be initiated if infection is confirmed.

5.8 Development of Drug-Resistant Bacteria

Prescribing azkhromycin in the absence of a proven or strongly suspected bacterial infection is unlikely to provide benefit to the patient and increases the risk of the development of drug-resistant bacteria.

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

In clinical trials, most of the reported side effects were mild to moderate in severity and were reversible upon discontinuation of the drug. Potentially serious adverse reactions of angioedema and cholestatic jaundice were reported. Approximately 0.7% of the patients (adults and pediatric patients) from the 5-day multiple-dose clinical trials discontinued azkthromycin therapy because of treatment-related adverse reactions. In adults given 500 mg/day for 3 days, the discontinuation rate due to treatment-related adverse reactions was 0.6%. In clinical trials in pediatric patients given 30 mg/day, either as a single dose or over 3 days, discontinuation from the trials due to treatment-related adverse reactions was approximately 1%. Most of the adverse reactions leading to discontinuation were related to the gastrointesthal tract, e.g., nausea, vomiting, diarrhea, or abdominal pain. *Isea Clinical Studies* (14.2)!

Adults

Multiple-dose regimens: Overall, the most common treatment-related adverse reactions in adult patients receiving multiple-dose regimens of azithromycin were related to the gastrointestinal system with diarrhea/loose stools (4 to 5%), nausea (3%), and abdominal pain (2 to 3%) being the most frequently reported.

No other adverse reactions occurred in patients on the multiple-dose regimens of azithromycin with a frequency greater than 1%. Adverse reactions that occurred with a frequency of 1% or less included the following:

Cardiovascular: Palpitations, chest pain.

Gastrointestinal: Dyspepsia, flatulence, vomiting, melena, and cholestatic jaundice

Genitourinary: Monilia, vaginitis, and nephritis

Nervous System: Dizziness, headache, vertigo, and somnolence.

General: Fatigue.

Allergic: Rash, pruritus, photosensitivity, and angioedema.

Single 1-gram dose regimen:

Overall, the most common adverse reactions in patients receiving a single-dose regimen of 1 gram of azithromycin were related to the gastrointestinal system and were more frequently reported than in patients receiving the multiple-dose regimen.

Adverse reactions that occurred in patients on the single 1 gram dosing regimen of azithromycin with a frequency of 1% or greater included diarrhea/loose stools (7%), nausea (5%), abdominal pain (5%), vomiting (2%), dyspepsia (1%), and vaginitis (1%).

Single 2-gram dose regimen:

Overall, the most common adverse reactions in patients receiving a single 2 gram dose of azithromycin were related to the gastrointestinal system. Adverse reactions that occurred in patients in this study with a frequency of 1% or greater included nausea (18%), diarrhea/loose stools (14%), vomiting (7%), abdominal pain (7%), vaginits (2%), dyspepsia (1%), and dizziness (1%). The majority of these complaints were mild in nature.

Pediatric Patients

Single and Multiple-dose regimens: The types of adverse reactions in pediatric patients were comparable to those seen in adults, with different incidence rates for the dosage regimens recommended in pediatric patients.

Acute Otitis Media: For the recommended total dosage regimen of 30 mg/kg, the most frequent adverse reactions (21%) attributed to treatment were diarrhea, abdominal pain, vomiting, nausea, and rash. [see Dosage and Administration (2) and Clinical Studies (14.2)]

The incidence, based on dosing regimen, is described in the table below

Dosage Regimen	Diarrhea %	Abdominal Pain %	Vomiting %	Nausea %	Rash %
1-day	4.3%	1.4%	4.9%	1.0%	1.0%
3-day	2.6%	1.7%	2.3%	0.4%	0.6%
5-day	1.8%	1.2%	1.1%	0.5%	0.4%

Community-Acquired Pneumonia: For the recommended dosage regimen of 10 mg/kg on Day 1 followed by 5 mg/kg on Days 2-5, the most frequent adverse reactions attributed to treatment were diarrhea/loose stools, abdominal pain, vorniling, nausea,

The incidence is described in the table below:

Dosage Regimen	Diarrhea/Loose stools %	Abdominal Pain %	Vomiting %	Nausea %	Rash %
5-day	5.8%	1.9%	1.9%	1.9%	1.6%

Pharyngitis/Tonsilitis: For the recommended dosage regimen of 12 mg/kg on Days 1-5, the most frequent adverse reactions attributed to treatment were diarrhea, vomiting, abdominal pain, nausea, and headache.

The incidence is described in the table below

Dosage Regimen	Diarrhea %	Abdominal Pain %	Vomiting %	Nausea %	Rash %	Headache %
5-day	5.4%	3.4%	5.6%	1.8%	0.7%	1 1%

With any of the treatment regimens, no other adverse reactions occurred in pediatric patients treated with azikhromycin with a frequency greater than 1%. Adverse reactions that occurred with a frequency of 1% or less included the following:

Cardiovascular: Chest pain.

Gastrointestinal: Dyspepsia, constipation, anorexia, enteritis, flatulence, gastritis, jaundice, loose stools, and oral moniliasis.

Hematologic and Lymphatic: Anemia and leukopenia.

Nervous System: Headache (otitis media dosage), hyperkinesia, dizziness, agitation, nervousness, and insomnia.

General: Fever, face edema, fatigue, fungal infection, malaise, and pain

Allergic: Rash and allergic reaction.

Respiratory: Cough, pharyngitis, pleural effusion, and rhinitis.

Skin and Appendages: Eczema, fungal dermatitis, pruritus, sweating, urticaria, and vesiculobullous rash.

Special Senses: Conjunctivitis.

6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of azkhromycin. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Adverse reactions reported with azithromycin during the postmarketing period in adult and/or pediatric patients for which a causal relationship may not be established include:

Allergic: Arthralgia, edema, urticaria, and angioedema.

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

Gastrointestinal: Anorexia, constipation, dyspepsia, flatulence, vomiting/diarrhea, pseudomembranous colitis, pancreatitis, oral candidiasis, pyloric stenosis, and reports

of tongue discoloration. General: Asthenia, paresthesia, fatigue, malaise, and anaphylaxis

Genitourinary: Interstitial nephritis and acute renal failure and vaginitis.

Hematopoietic: Thrombocytopenia.

Liver/Biliary: Abnormal liver function, hepatitis, cholestatic jaundice, hepatic necrosis, and hepatic failure. [see Warnings and Precautions (5.2)]

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

Psychiatric: Aggressive reaction and anxiety.

Skin/Appendages: Pruritus serious skin reactions including erythema multiforme, Stevens-Johnson Syndrome, toxic epidermal necrolysis, and DRESS.

Special Senses: Hearing disturbances including hearing loss, deafness and/or tinnitus, and reports of taste/smell perversion and/or loss.

6.3 Laboratory Abnormalities

Adults:

Adults:

(Inically significant abnormalities (irrespective of drug relationship) occurring during the clinical trials were reported as follows: with an incidence of greater than 1%: decreased hemoglobin, hematocric. lymphocytes, neutrophis, and blood glucose; elevated serum creatine phosphokinase, potassium, ALT, GGT, AST, BUN, creatinine, blood glucose, platelet count, lymphocytes, neutrophis, and eosinophils; with an incidence of less than 1%: leukopenia, neutropenia, decreased sodium, potassium, platelet count, elevated monocytes, basophils, bicarbonate, serum alkaline phosphatase, blirubin, LDH, and phosphata. The majority of subjects with elevated serum creatinine also had abnormal values at baseline. When follow-up was provided, changes in laboratory tests appeared to be reversible. to be reversible.

In multiple-dose clinical trials involving more than 5000 patients, four patients discontinued therapy because of treatment-related liver enzyme abnormalities and one because of a renal function abnormality.

One, Three, and Five Day Regimens

One, Times, and Irve by Regimens.

Laboratory data collected from comparative clinical trials employing two 3-day regimens (30 mg/kg or 60 mg/kg in divided doses over 3 days), or two 5-day regimens (30 mg/kg or 60 mg/kg in divided doses over 5 days) were similar for regimens of azithromycin and all comparators combined, with most clinically significant baboratory abnormalities occurring at incidences of 1-5%. Laboratory data for patients receiving 30 mg/kg as a single dose were collected in one single center trial. In that trial, an absolute neutrophil count between 500-1500 cells/mm 3 was observed in 10/64 patients receiving 30 mg/kg as a single dose, 9/62 patients receiving 30 mg/kg given over 3 days, and 8/63 comparator patients. No patient had an absolute neutrophil count <500 cells/mm 3 .

In multiple-dose clinical trials involving approximately 4700 pediatric patients, no patients discontinued therapy because of treatment-related laboratory abnormalities.

7 DRUG INTERACTIONS

Co-administration of nelfinavir 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 nelfinavir, close monitoring for known adverse reactions of azithromycin, such as liver enzyme abnormalities and hearing impairment, is warranted. [see Adverse Reactions (6)]

Spontaneous postmarketing reports suggest that concomitant administration of aziktromycin may potentiate the effects of oral anticoagulants such as warfarin, although the prothrombin time was not affected in the dedicated drug interaction study with aziktromycin and warfarin. Prothrombin times should be carefully monitored while patients are receiving aziktromycin and oral anticoagulants concomitantly

7.3 Potential Drug-Drug Interactions with Macrolides

Interactions with digoxin or phenytoin have not been reported in clinical trials with azikhromycin; however, no specific drug interaction studies have been performed to evaluate potential drug-drug interactions. However, drug interactions have been observed with other macroide products. Until further data are developed regarding drug interactions when digoxin or phenytoin are used concomitantly with azikhromyc careful monitoring of patients is advised.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Teratogenic Effects: Pregnancy Category B: Reproduction studies have been performed i reatogenic Effects: "regnancy Category B: Reproducton studies have been performed in ratis and mice at doses up to moderately maternally toxic dose concentrations (i.e., 200 mg/kg/day). These daily doses in ratis and mice, based on body surface area, are estimated to be 4 and 2 times, respectively, an adult daily dose of 500 mg, in the animal studies, no evidence of harm to the fetus due to azthromycin was found. There as thowever, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, azthromycin should be used during pregnancy only if clearly needed.

8.3 Nursing Mothers

Azithromycin has been reported to be excreted in human breast milk in small amounts. Caution should be exercised when azithromycin is administered to a nursing woman.

[see Clinical Pharmacology (12.3), Indications and Usage (1.2), and Dosage and Administration (2.2)]

Administration (2.2) Safety and effectiveness in the treatment of pediatric patients with acute otitis media, acute bacterial sinusitis and community-acquired pneumonia under 6 months of age have not been established. Use of azithromycin for the treatment of acute bacterial sinusits and community-acquired pneumonia in pediatric patients (6 months of age o greater) is supported by adequate and well-controlled trials in adults.

Pharyngitis/Tonsillitis: Safety and effectiveness in the treatment of pediatric patients with pharyngitis/tonsillitis under 2 years of age have not been established

In multiple-dose clinical trials of oral azithromycin, 9% of patients were at least 65 years of age (458/4949) and 3% of patients (144/4949) were at least 75 years of age. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in response between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

Elderly patients may be more susceptible to development of torsades de pointes arrhythmias than younger patients. [see Warnings and Precautions (5.4)]

Adverse reactions experienced at higher than recommended doses were similar to those seen at normal doses particularly nausea, diarrhea, and vomiting. In the event of overdosage, general symptomatic and supportive measures are indicated as required.

11 DESCRIPTION

Azhtromycin for oral suspension USP contains the active ingredient azithromycin monohydrate, USP, a macrolide antibacterial drug, for oral administration. Azithromycin has the chemical name (2R,3S,4R,5R,8R,10R,11R,12S,13S,14R)-13-(2,6-dideoxy-3-C-methy4-3-0-methy4-0-1-ribo-hexopyranosy)loxy]-2-ethy4-3,4,10-trihydroxy-3,5,68,10,12,14-heptamethy1-11-[[3,4.6-trideoxy-3-(dimethylamino)-β-D-xylo-hexopyranosy)loxy]-1-cxa-6-zazqv(opentadecan-15-one monohydrate. Azithromycin is derived from erythromycin; however, 8 differs chemically from erythromycin in that a methyl-substitude nitrogen atom is incorporated into the lactione ring, 1ts molecular formula is C 3₈H 7₂N 20 12+H 20, and its molecular weight is 767.00. Azithromycin has

Azithromycin, USP, as the monohydrate, is a white to off-white crystalline powder with a molecular formula of C $_{38}$ H $_{72}$ N $_2$ O $_{12}$ +H $_2$ O and a molecular weight of 767.00.

Azhthomycin for Oral Suspension USP is supplied in bottles containing azhthromycin monohydrate powder equivalent to 300 mg, 600 mg, 900 mg, or 1200 mg azhthromycin USP per bottle and the following inactive ingredients: colloida silicon dioxide, EP & C Red No. 40 Aluminum Lake, hydroxypropyl cellulose, sodium phosphate tribasic anhydrous, sucrose, natural and artificial benary flavor and xanthan gum. After constitution, each 5 mL of suspension contains 100 mg or 200 mg of azithromycin, USP. The dry powder before constitution is off-white to pinkish in color. The suspension after constitution is pink to red in color.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Azithromycin is a macrolide antibacterial drug. [see Microbiology (12.4)]

12.2 Pharmacodynamics

Based on animal models of infection, the antibacterial activity of azithromycin appears to correlate with the ratio of area under the concentration-time curve to minimum inhibitory concentration (AUC/MIC) for certain pathogens (S. pneumoniae and S. aureus). The principal pharmacokinetic/pharmacodynamic parameter best associated with clinical and microbiological curve has not been elucidated in clinical trials with azithromycin.

Cardiac Electrophysiology

QTC interval prolongation was studied in a randomized, placebo-controlled parallel trial in 116 healthy subjects who received either chloroquine (1000 mg) alone or in combination with oral azithromycin (500 mg, 1000 mg, and 1500 mg once daily). Co-administration of azithromycin increased the QTc interval in a dose- and concentration-dependent manner. In comparison to chloroquine alone, the maximum mean (95% upper confidence bound) increases in QTcF were 5 (10) ms, 7 (12) ms and 9 (14) ms with the co-administration of 500 mg, 1000 mg and 1500 mg azithromycin, respectively.

12.3 Pharmacokinetics

Following oral administration of a single 500 mg dose (two 250 mg tablets) to 36 fasted healthy male volunteers, the mean (SD) pharmacokinetic parameters were AUC $_{0.72}$ =4. (1.2) mcg + Nrim; C $_{max}$ =0.5 (0.2) mcg/ml; r_{max} =2.2 (0.9) hours. Two azithromycin 250 mg tablets are bioequivalent to a single 500 mg tablet.

In a two-way crossover study, 12 adult healthy volunteers (6 males, 6 females) received In a two-way crossover study, 12 adult heathy volunteers (b males, b females) received 1500 mg of azhromycin administered in single daly doses over either 5 days (two 250 mg tablets on day 1, followed by one 250 mg tablet on days 2 to 5) or 3 days (500 mg per day for days 1 to 3). Due to limited serum samples on day 2 (3 day regimen) and days 2 to 4 (5 day regimen), the serum concentration-time profile of each subject was fit to a 3-compartment model and the AUC _{p.s.} for the fitted concentration profile was comparable between the 5 day and 3 day regimens.

	3-Day Regimen	l	5-Day Regimen	
Pharmacokinetic Parameter [mean (SD)]		Day 3	Day 1	Day 5
C _{max} (serum, mcg/mL)	0.44 (0.22)	0.54 (0.25)	0.43 (0.20)	0.24 (0.06)
Serum AUC _{0-∞} (mcg•hr/mL)	17.4 (6.2)*		14.9 (3.1)*	
Serum T 1/2	71.8 hr		68.9 hr	
*Total AUC for the	entire 3-day and	5 day regimens.		

The absolute bioavailability of azithromycin 250 mg capsules is 38%.

In a two-way crossover study in which 12 healthy subjects received a single 500 mg dose of azithromycin (two 250 mg tablets) with or without a high fat meal, food was shown to increase C $_{\rm max}$ by 23% but had no effect on AUC.

When azithromycin oral suspension was administered with food to 28 adult healthy male subjects, C $_{\rm max}$ increased by 56% and AUC was unchanged.

Distribution

The serum protein binding of azithromycin is variable in the concentration range approximating human exposure, decreasing from 51% at 0.02 mcg/mL to 7% at 2 mcg/mL.

The antibacterial activity of azithromycin is pH related and appears to be reduced with decreasing pH. However, the extensive distribution of drug to tissues may be relevant to clinical activity.

Azithromycin has been shown to penetrate into human tissues, including skin, lung, Azztromycn has been shown to penetrate into numan tissues, including skin, lung, tonsil, and cervix. Extensive tissue distribution was confirmed by examination of additional tissues and fluids (bone, ejaculum, prostate, ovary, uterus, salphix, stomach, liver, and galibladder). As there are no data from adequate and well-controlled studies of azthromycin treatment of infections in these additional body sites, the clinical significance from the site of concentration data is unknown.

Following a regimen of 500 mg on the first day and 250 mg daily for 4 days, very low concentrations were noted in cerebrospinal fluid (less than 0.01 mcg/mL) in the presence of noninflamed meninges.

In vitro and in vivo studies to assess the metabolism of azithromycin have not been performed.

Elimination

Plasma concentrations of azithromycin following single 500 mg oral and IV doses Plasma concentrations of azthromycin following single 500 mg oral and IV doses declined in a polyphasic pattern resulting in a mean apparent plasma clearance of 630 ml/min and terminal elimination half-life of 68 hours. The prolonged terminal half-life is thought to be due to extensive uptake and subsequent release of drug from tissues. Biliary excretion of azthromycin, predominantly as unchanged drug, is a major route of elimination. Over the course of a week, approximately 6% of the administered dose appears as unchanged drug in urine.

Renal Insufficiency

Azithromycin pharmacokinetics was investigated in 42 adults (21 to 85 years of age) with varying degrees of renal impairment. Following the oral administration of a single 1.0 g dose of azithromycin (4 x 250 mg capsules), mean C max and AUC _p.12p increased by 5.1% and 4.2%, respectively, in subjects with mild to moderate renal impairment (GFR 10 to 80 mL/min) compared to subjects with normal renal function (GFR > 80 mL/min). The mean C max and AUC _p.12p increased 61% and 35%, respectively, in subjects with severe renal impairment (GFR < 10 mL/min) compared to subjects with normal renal function (GFR > 80 mL/min).

The pharmacokinetics of azithromycin in subjects with hepatic impairment has not been established.

There are no significant differences in the disposition of azithromycin between male and female subjects. No dosage adjustment is recommended based on gender

Pharmacokinetic parameters in older volunteers (65 to 85 years old) were similar to those in young adults (18 to 40 years old) for the 5-day therapeutic regimen. Dosage adjustment does not appear to be necessary for older patients with normal renal and hepatic function receiving treatment with this dosage regimen. (see Geriatric Use (8.5))

Pediatric Patients

In two clinical studies, azithromycin for oral suspension was dosed at 10 mg/kg on day 1, followed by 5 mg/kg on days 2 through 5 in two groups of pediatric patients (aged 1 to 5 years and 5 to 15 years, respectively). The mean pharmacokinetic parameters on day 5 were C $_{\rm max} = 0.216$ mcg/mL, $T_{\rm max} = 1.9$ hour, and AUC $_{0.24} = 1.822$ mcg/hr/mL for the 1 to 5-year-old group and were C $_{\rm max} = 0.383$ mcg/mL, T $_{\rm max} = 2.4$ hour, and AUC $_{0.24} = 3.109$ mcg/hr/mL for the 5 to 15-year-old group.

AUC $_{0.24}$ = 3.109 mcg-hr/ml. for the 5 to 15-year-old group. In another study, 33 pediatric patients received doses of 12 mg/kg/day (maximum daily dose 500 mg) for 5 days, of whom 31 patients were evaluated for azithromycin paramacokinetix following a low fat breakfast. In this study, azithromycin concentrations were determined over a 24 hour period following the last daily dose. Patients weighing above 41.7 kg received the maximum adult daily dose of 500 mg. Seventeen patients (weighing 41.7 kg or less) received a total dose of 60 mg/kg. The following table shows pharmacokinetic data in the subset of pediatric patients who received a total dose of 60 mg/kg.

Pharmacokinetic Parameter [mean (SD)]	5-Day Regimen (12 mg/kg for 5 days)
N	17
C _{max} (mcg/mL)	0.5 (0.4)
T _{max} (hr)	2.2 (0.8)
AUC o 24 (mcg • hr/ml.)	3.9 (1.9)

Single dose pharmacokinetics of azithromycin in pediatric patients given doses of 30 mg/kg have not been studied. [see Dosage and Administration (2)]

Drug interaction studies were performed with azithromycin and other drugs likely to be co-administered. The effects of co-administration of azithromycin on the pharmacokinetics of other drugs are shown in Table 1 and the effects of other drugs on the pharmacokinetics of azithromycin are shown in Table 2.

Co-administration of azithromycin at therapeutic doses had a modest effect on the pharmacoknetics of the drugs listed in Table 1. No dosage adjustment of drugs listed in Table 1 is recommended when co-administered with azithromycin.

Co-administration of azithromycin with efavirenz or fluconazole had a modest effect on the pharmacokinetics of azithromycin. Nelfinavir significantly increased the C $_{\rm max}$ and AUC of azithromycin. No dosage adjustment of azithromycin is recommended when administered with drugs listed in Table 2. [see Drug Interactions (7.3)]

Table 1. Drug Ir		the Presence	of Azithro		
Co- administered Drug	Dose of Co- administered Drug	Dose of Azithromycin	n	Ratio (with, azithromyci administer Pharmaco Parameters No Effect	n) of Co- ed Drug kinetic (90% CI);
				Mean C max	
Atorvastatin	10 mg/day for 8 days	500 mg/day orally on days 6-8	12	0.83 (0.63 to 1.08)	1.01 (0.81 to 1.25)
Carbamazepine	200 mg/day for 2 days, then 200 mg twice a day for 18 days	500 mg/day orally for days 16-18	7	0.97 (0.88 to 1.06)	0.96 (0.88 to 1.06)
Cetirizine	11 days	500 mg orally on day 7, then 250 mg/day on days 8-11	14	1.03 (0.93 to 1.14)	1.02 (0.92 to 1.13)
Didanosine	200 mg orally twice a day for 21 days	1200 mg/day orally on days 8-21	6	1.44 (0.85 to 2.43)	1.14 (0.83 to 1.57)
Efavirenz	400 mg/day for 7 days	600 mg orally on day 7	14	1.04*	0.95*
Fluconazole	200 mg orally single dose	1200 mg orally single dose	18	1.04 (0.98 to 1.11)	1.01 (0.97 to 1.05)
Indinavir	800 mg three times a day for 5 days	1200 mg orally on day 5	18	0.96 (0.86 to 1.08)	0.90 (0.81 to 1.00)
Midazolam	15 mg orally on day 3	500 mg/day orally for 3 days	12	1.27 (0.89 to 1.81)	1.26 (1.01 to 1.56)
Nelfinavir	750 mg three times a day for 11 days	1,200 mg orally on day 9	14	0.90 (0.81 to 1.01)	0.85 (0.78 to 0.93)
Sildenafil	100 mg on days 1 and 4	500 mg/day orally for 3 days	12	1.16 (0.86 to 1.57)	0.92 (0.75 to 1.12)
Theophylline	4 mg/kg IV on days 1, 11, 25	mg/day on days 8-11	10	1.19 (1.02 to 1.40)	1.02 (0.86 to 1.22)
Theophylline	300 mg orally twice a day for 15 days	on days 7-10	8	1.09 (0.92 to 1.29)	1.08 (0.89 to 1.31)
Triazolam	0.125 mg on day 2	500 mg orally on day 1, then 250 mg/day on day 2	12	1.06*	1.02*
Trimethoprim/ Sulfamethoxazole	for / days	1200 mg orally on day 7	12	0.85 (0.75 to 0.97) / 0.90 (0.78 to 1.03)	0.87 (0.80 to 0.95) / 0.96 (0.88 to 1.03)
Zidovudine	500 mg/day orally for 21 days	600 mg/day orally for 14 days	5	1.12 (0.42 to 3.02)	0.94 (0.52 to 1.70)
Zidovudine	500 mg/day orally for 21 days	1200 mg/day orally for 14 days	4	1.31 (0.43 to 3.97)	1.30 (0.69 to 2.43)

the Pr	esence of Co			eters for Azith Orug Interaction Ratio (with/v administere Azithro Pharmace Parameters No Effect	s (7)] vithout co- d drug) of mycin okinetic (90% CI);
				Mean C max	Mean AUC
Efavirenz	400 mg/day for 7 days	600 mg orally on day 7	14	1.22 (1.04 to 1.42)	0.92*
Fluconazole	200 mg orally single dose	1,200 mg orally single dose	18	0.82 (0.66 to 1.02)	1.07 (0.94 to 1.22)
Nelfinavir	750 mg three times a day for 11 days	1,200 mg orally on day 9	14	2.36 (1.77 to 3.15)	2.12 (1.80 to 2.50)
* - 90% Confid	ence interval no	t reported			

12.4 Microbiology

Mechanism of Action

Azithromycin acts by binding to the 23S rRNA of the 50S ribosomal subunit of susceptible microorganisms inhibiting bacterial protein synthesis and impeding assembly of the 50S ribosomal subunit.

Resistance

Azithromycin demonstrates cross resistance with erythromycin. The most frequently encountered mechanism of resistance to azithromycin is modification of the 235 rRNA target, most often by methylation. Ribosomal modifications can determine cross resistance to other macrolides, lincosamides, and streptogramin B (MLS β phenotype).

Azithromycin has been shown to be active against most isolates of the following microorganisms, both in vitro and in clinical infections. [see Indications and Usage (1)]

Gram-Positive Bacteria

- Staphylococcus aureus
 Streptococcus agalactia
 Streptococcus pneumoi
 Streptococcus pyogene

Gram-Negative Bacteria

- Haemophilus ducrey
- Haemophilus influenzae
- Moraxella catarrhalis
- Neisseria gonorrhoea

The following in vitro data are available, but their clinical significance is unknown. At least 90 percent of the following bacteria exhibit an in vitro minimal inhibitory concentration (MIC) less than or equal to the susceptible breakpoint for azthromycin against sloates of similar genus or organism group. However, the efficacy of azthromycin in treating clinical infections caused by these bacteria has not been established in adequate and well-controlled clinical trials

Gram-Positive Bacteria

- Beta-hemolytic streptococci (Groups C, F, G)
 Viridans group streptococci

- Gram-Negative Bacteria

 Bordetella pertussis

 Legionella pneumoph

Anaerobic Bacteria

- Prevotella bivia
- · Peptostreptococcus species

Other Bacteria
• Ureaplasma urealyticui

Susceptibility Testina

For specific information regarding susceptibility test interpretive criteria and associated test methods and quality control standards recognized by FDA for this drug, please see: https://www.fda.gov/STIC.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term studies in animals have not been performed to evaluate carcinogenic potential. Azithromycin 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 in rats given daily doses up to 10 mg/kg (approximately 0.2 times an adult daily dose of 500 mg based on body surface area).

13.2 Animal Toxicology and/or Pharmacology

13.2 Animal Toxicology and/or Pharmacology
Phospholipidosis (Intracellular phospholipid accumulation) has been observed in some tissues of mice, rats, and dogs given mutiple doses of azithromycin. It has been demonstrated in numerous organ systems (e.g., eye, dorsal root ganglia, liver, gallbiadder, kitdney, spleen, and/or pancreas) in dogs and rats treated with azithromycin at doses which, expressed on the basis of loods surface area, are similar to or less than the highest recommended adult human dose. This effect has been shown to be reversible affer cessation of azithromycin treatment. Based on the pharmacokinetic data, phospholipidosis has been seen in the rat (So mg/kg/day dose) at the observed maximal plasma concentration of 1.3 mcg/ml. (1.6 times the observed a max of 0.821 mcg/ml. at the adult dose of 2 g). Similarly, it has been shown in the dog (10 mg/kg/day dose) at the observed maximal serum concentration of 1 mcg/ml. (1.2 times the observed C max of 0.821 mcg/ml. at the adult dose of 2 g). Phospholipidosis was also observed in neonatal rats dosed for 18 days at 30 mg/kg/day, which is less than the pediatric dose of 60 mg/kg/day based on the surface area. It was not observed in neonatal rats treated for 10 days at 40 mg/kg/day when maximal serum concentrations of 1.86 mcg/ml., approximately 1.5 times the C max of 1.27 mcg/ml. at the pediatric dose. Phospholipidosis has been observed in neonatal dogs (10 mg/kg/day) at the pediatric dose. Phospholipidosis has been observed in neonatal dogs (10 mg/kg/day) at the pediatric dose. C max. The significance of these findings for animals and for humans is unknown.

Acute Bacterial Exacerbations of Chronic Bronchitis

In a randomized, double-blind controlled clinical trial of acute exacerbation of chronic bronchits (AECB), azikhromycin (500 mg once daily for 3 days) was compared with clarikhromycin (500 mg twice daily for 10 days). The primary endpoint of this trial was the clinical cure rate at Days 21 to 24. For the 304 patients analyzed in the modified intent-to-treat analysis at the Days 21 to 24 visit, the clinical cure rate for 3 days of azithromycin was 85% (125/147) compared to 82% (129/157) for 10 days of clarithromycin.

The following outcomes were the clinical cure rates at the Days 21 to 24 visit for the bacteriologically evaluable patients by pathogen:

Pathogen	Azithromycin (3 Days)	Clarithromycin (10 Days)
S. pneumoniae	29/32 (91%)	21/27 (78%)
H. influenzae	12/14 (86%)	14/16 (88%)
M. catarrhalis	11/12 (92%)	12/15 (80%)

Acute Bacterial Sinusitis

Acute Bacterial Sinusitis
In a randomized, double-blind, double-dummy controlled clinical trial of acute bacterial sinusitis, azithromycin (500 mg once daily for 3 days) was compared with amoxicilim/clavulanate (500/125 mg three times a day for 10 days). Clinical response assessments were made at Day 10 and Day 28. The primary endpoint of this trial was prospectively defined as the clinical cure rate at Day 28. For the 594 patients analyzed in the modified intent to treat analysis at the Day 10 visit, the clinical cure rate for 3 days of azithromycin was 88% (268/03) compared to 85% (248/291) for 10 days of azithromycin was 71.5% (213/298) compared to 71.5% (206/288), with a 97.5% confidence interval of -8.4 to 8.3, for 10 days of amoxicillin/clavulanate. Put 10 days of anoxicillin/clavulanate.

In an open label, non-comparative study requiring baseline transantral sinus punctures, the following outcomes were the clinical success rates at the Day 7 and Day 28 visits for the modified intent to treat patients administered 500 mg of azithromycin once daily for 3 days with the following pathogens:

Clinical Success Rates of Azithromycin (500 mg per day for 3 Days)						
Pathogen	Day 7	Day 28				
S. pneumoniae	23/26 (88%)	21/25 (84%)				
H. influenzae	28/32 (87%)	24/32 (75%)				
M. catarrhalis	14/15 (93%)	13/15 (87%)				

14.2 Pediatric Patients

on-therapy evaluations because of the extended half-life of azithromycin. Days 11 to 14 data are provided for clinical guidance. Days 24 to 32 evaluations were considered the primary test of cure endpoint.

Pharyngitis/Tonsillitis

In three double-blind controlled studies, conducted in the United States, azithromycin (12 mg/kg once a day for 5 days) was compared to penicilin V (250 mg three times a day for 10 days) in the treatment of pharyngitis due to documented Group A βhemolyfic streptococci (GABHS or 5. progenes). Azithromycin was clinically and microbiologically statistically superior to penicillin at Day 14 and Day 30 with the following clinical success (i.e., cure and improvement) and bacteriologic efficacy rates (for the combined evaluable patient with documented GABHS):

Three U.S. Streptococcal Pharyngitis Studies Azithromycin vs. Penicillin V

	EFFICACY RESULTS	
	Day 14	Day 30
Bacteriologic Eradication	:	
Azithromycin	323/340 (95%)	255/330 (77%)
Penicillin V	242/332 (73%)	206/325 (63%)
Clinical Success (cure plus improvement):		
Azithromycin	336/343 (98%)	310/330 (94%)
Penicillin V	284/338 (84%)	241/325 (74%)

Approximately 1% of azithromycin-susceptible $\it S.$ $\it pyogenes$ isolates were resistant to azithromycin following therapy.

Acute Otitis Media

Efficacy using azithromycin given over 5 days (10 mg/kg on Day 1 followed by 5 mg/kg on Days 2 to 5).

Trial 1

In a double-blind, controlled clinical study of acute othis media performed in the United States, azithromycin (10 mg/kg on Day 1 followed by 5 mg/kg on Days 2 to 5) was compared to amoxicillin/cleavulantee potassium (4:1). For the 553 patients who were evaluated for clinical efficacy, the clinical success rate (i.e., cure plus improvement) at the Day 11 visit was 88% for azithromycin and 88% for the control agent. For the 521 patients who were evaluated at the Day 30 visit, the clinical success rate was 73% for azithromycin and 71% for the control agent.

Trial 2

In a non-comparative clinical and microbiologic trial performed in the United States, 131 where significant reates of beta-lactamase producing organisms (35%) were found, 131 patients were evaluable for clinical efficacy. The combined clinical success rate (i.e., cure and improvement) at the Day 11 visit was 84% for azithromycin. For the 122 patients who were evaluated at the Day 30 visit, the clinical success rate was 70% for azithromycin.

Microbiologic determinations were made at the pre-treatment visit. Microbiology was not reassessed at later visits. The following clinical success rates were obtained from the evaluable group:

Pathogen		
	Day 11	Day 30
	Azithromycin	Azithromycin
S. pneumoniae	61/74 (82%)	40/56 (71%)
H. influenzae	43/54 (80%)	30/47 (64%)
M. catarrhalis	28/35 (80%)	19/26 (73%)
S. pyogenes	11/11 (100%)	7/7 (100%)
Overall	177/217 (82%)	97/137 (73%)

In another controlled comparative clinical and microbiologic study of otitis media In another controlled comparative clinical and microbiologic study of otitis media performed in the United States, azithromycin (10 mg/kg on Days 1 followed by 5 mg/kg on Days 2 to 5) was compared to amoxicillin/clavulanate potassium (4:1). This study utilized two of the same investigators as Protocol 2 (above), and these two investigators enrolled 90% of the patients in Protocol 3. For this reason, Protocol 3 was not considered to be an independent study. Significant rates of beta-lactamase producing organisms (20%) were found. Ninety-two (92) patients were evaluable for clinical and microbiologic efficacy. The combined clinical success rate (Le., cure and improvement) of those patients with a baseline pathogen at the Day 11 visit was 88% for azithromycin vs. 100% for control; at the Day 30 visit, the clinical success rate was 82% for azithromycin vs. 80% for control.

Microbiologic determinations were made at the pre-treatment visit. Microbiology was not reassessed at later visits. At the Day 11 and Day 30 visits, the following clinical success rates were obtained from the evaluable group:

	Day	11	Day 30			
Pathogen	Azithromycin Control		Azithromycin	Control		
S. pneumoniae	25/29 (86%)	26/26 (100%)	22/28 (79%)	18/22 (82%)		
H. influenzae	9/11 (82%)	9/9 (100%)	8/10 (80%)	6/8 (75%)		
M. catarrhalis	7/7 (100%)	5/5 (100%)	5/5 (100%)	2/3 (66%)		
S. pyogenes	2/2 (100%)	5/5 (100%)	2/2 (100%)	4/4 (100%)		
Overall	43/49 (88%)	45/45 (100%)	37/45 (82%)	30/37 (81%)		

Efficacy using azithromycin given over 3 days (10 mg/kg/day).

Trial 4

In a double-blind, controlled, randomized clinical study of acute otitis media in pediatric matubuse-unit, of months to 12 years of age, azithromycin (10 mg/kg per day for 3 days) was compared to amoxicillin/clavulanate potassium (7.1) in divided doses q12h for 10 days. Each patient received active drug and placebo matched for the comparator.

For the 366 patients who were evaluated for clinical efficacy at the Day 12 visit, the clinical success rate (i.e., cure plus improvement) was 83% for azhtromycin and 88% for the control agent. For the 362 patients who were evaluated at the Days 24 to 28 visits, the clinical success rate was 74% for azhtromycin and 69% for the control agent.

Efficacy using azithromycin 30 mg/kg given as a single dose

Trial 5

A double-blind, controlled, randomized trial was performed at nine clinical centers. Pediatric patients from 6 months to 12 years of age were randomized 1:1 to treatment with either azikhromycin (given at 30 mg/kg as a single dose on Day 1) or amoxicillin/clavulanate potassium (7:1), divided q12h for 10 days. Each child received active drug, and placebo matched for the comparator.

Clinical response (Cure, Improvement, Fallure) was evaluated at End of Therapy (Days 12 to 16) and Test of Cure (Days 28 to 32). Safety was evaluated throughout the trial for all treated subjects. For the 231 subjects who were evaluated at End of Treatment, the clinical success rate (cure plus improvement) was 87% for azithromycin, and 88% for the comparator. For the 305 subjects who were evaluated at Test of Cure, the clinical success rate was 75% for both azithromycin and the comparator.

In a non-comparative clinical and microbiological trial, 248 patients from 6 months to 12 years of age with documented acute othis media were dosed with a single oral dose of azithromycin (30 mg/kg on Day 1).

For the 240 patients who were evaluable for clinical modified Intent-to-Treat (MITT) analysis, the clinical success rate (i.e., cure plus improvement) at Day 10 was 89% and for the 242 patients evaluable at Days 24 to 28, the clinical success rate (cure) was 85%.

Presumed Bacteriologic Eradication					
	Day 10	Days 24-28			
S. pneumoniae	70/76 (92%)	67/76 (88%)			
H. influenzae	30/42 (71%)	28/44 (64%)			
M. catarrhalis	10/10 (100%)	10/10 (100%)			
Overall	110/128 (86%)	105/130 (81%)			

16 HOW SUPPLIED/STORAGE AND HANDLING

flavored suspension. Azithromycin for oral suspension USP is supplied to provide 100 mg/5 mL or 200 mg/5 mL suspension in bottles as follows:

NDC 68071-4795-3 BOX OF 30ml

Dosage and Administration (2)1 for constitution instructions with each bottle type.

Storage: Store dry powder below 30°C (86°F). Store constituted suspension between 5° to 30°C (41° to 86°F) and discard when full dosing is completed.

17 PATIENT COUNSELING INFORMATION

General Patient Counseling

Azithromycin for oral suspension can be taken with or without food

Patients should also be cautioned not to take aluminum- and magnesium-containing antacids and azithromycin simultaneously.

The patient should be directed to discontinue azithromycin immediately and contact a physician if any signs of an allergic reaction occur.

Direct parents or caregivers to contact their physician if vomiting and irritability with feeding occurs in the infant.

feeding occurs in the infant.

Patients should be counseled that antibacterial drugs including azikhromycin for oral suspension should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When azikhromycin for oral suspension is prescribed to treat a bacterial infection, patients should be told that although it is common to feel better early in the course of the therapy, the medication should be taken exactly as directed. Sichping doses or not completing the full course of therapy may (1) decrease the effectiveness of the immediate treatment and (2) increase the likelihood that bacteria will develop resistance and will not be treatable by azikhromycin for oral suspension or other antibacterial drugs in the future.

Diarrhea is a common problem caused by antibacterials which usually ends when the antibacterial is discontinued. Sometimes after starting treatment with antibacterials patients can develop watery and bloody stools (with or without stomach cramps and fever) even as late as two or more months after having taken the last dose of the antibacterial drug. If this occurs, patients should contact their physician as soon as possible

See FDA-approved Patient Labeling

Manufactured by:

Epic Pharma, LLC

Laurelton, NY 11413

Revised 03/2018 MF0147RFV03/18

OF1490

Patient Information

Azithromycin for Oral Suspension USP

(a-ZITH-roe-MYE-sin)

Read this Patient Information leaflet before you start taking azithromycin for oral suspension and each time you get a refill. There may be new information. This information does not take the place of taking to your healthcare provider about your medical condition or your treatment.

What is azithromycin for oral suspension?

Azithromycin for oral suspension is a macrolide antibiotic prescription medicine used in adults 18 years or older to treat certain infections caused by certain germs called adults 18 years or older to treat certain info bacteria. These bacterial infections include:

- acute worsening of chronic bronchitis
- acute sinus infection
- community-acquired pneumonia infected throat or tonsils
- skin infections
- infections of the urethra or cervix genital ulcers in men

Azithromycin for oral suspension is also used in children to treat:

- ear infections
 community-acquired pneumonia
 infected throat or tonsils

Azithromycin should not be taken by people who cannot tolerate oral medications because they are very ill or have certain other risk factors including:

• have hospital acquired infections
• have known or suspected bacteria in the blood
• need to be in the hospital

- need to be in the nospital are elderly have any medical problems that can lower the ability of the immune system to fight infections

Azithromycin for oral suspension is not for viral infections such as the common cold.

It is not known if azithromycin for oral suspension is safe and effective for genital ulcers

It is not known if azkhromycin for oral suspension is safe and effective for children ear infections, sinus infections, and community-acquired pneumonia under 6 month age.

It is not known if azithromycin for oral suspension is safe and effective for infected throat or tonsils in children under 2 years of age.

Who should not take azithromycin for oral suspension?

- Do not take azithromycin for oral suspension if you:

 have had a severe allergic reaction to certain antibiotics known as macrolides or ketolides including azithromycin and erythromycin.

 have a history of cholestatic jaundice or hepatic dysfunction that happened with the use of azithromycin.

What should I tell my healthcare provider before taking azithromycin for oral suspension?

- suspension?

 Before you take azikhromycin for oral suspension, tell your healthcare provider if you:

 have pneumonia
 have systic fibrosis
 have known or suspected bacteremia (bacterial infection in the blood)
 have liver or kidney problems
 have an irregular heartheat, especially a problem called "OT prolongation"
 have a problem that causes muscle weakness (myasthenia gravis)
 have any other medical problems
 are pregnant or plan to become pregnant. It is not known if azikhromycin for oral suspension will harm your unborn baby.
 are breastfeeding or plan to breastfeed. Azikhromycin has been reported to pass into breast milk. Tak to your healthcare provider about the best way to feed your baby while you take azikhromycin for oral suspension.

Tell your healthcare provider about all the medicines you take, including prescription and non-prescription medicines, vitamins, and herbal supple

Azithromycin for oral suspension and other medicines may affect each other causing side effects. Azithromycin for oral suspension may affect the way other medicines work, and other medicines may affect how azithromycin for oral suspension works.

Especially tell your healthcare provider if you take:

• pelfinavir

- neffinavir
 a blood thinner (warfarin)
 digoxin
 phenytoin
 an antacid that contains aluminum or magnesium

Know the medicines you take. Keep a list of your medicines and show it to your healthcare provider and pharmacist when you get a new medicine.

How should I take azithromycin for oral suspension?

- Take azithromycin for oral suspension exactly as your healthcare provider tells you to take it.
- Azithromycin for oral suspension can be taken with or without food.
 If you take azithromycin for oral suspension, shake the bottle well just before you
- Do not skip any doses of azithromycin for oral suspension or stop taking it, even if

you begin to feel better, until you finish your prescribed treatment unless you have a serious allergic reaction or your healthcare provider tells you to stop taking azithromycin for oral suspension. See "What are the possible side effects of azithromycin for oral suspension?" If you skip doses, or do not complete total course of azithromycin for oral suspension your treatment may not work as well and your infection may be harder to treat. Taking all of your azithromycin for oral suspension doses will help lower the chance that the bacteria will become resistant to azithromycin for oral suspension, azithromycin for oral suspension and other antibiotic medicines may not work for you in the future. you begin to feel better, until you finish your prescribed treatment unless you have a

- If you take too much azithromycin for oral suspension, call your healthcare provider or get medical help right away.

What are the possible side effects of azithromycin for oral suspension?

Azithromycin for oral suspension can cause serious side effects, including:

- Serious allergic reactions. Allergic reactions can happen in people taking azithromycin the active ingredient in azithromycin for oral suspension, even after only 1 dose. Stop taking azithromycin for oral suspension and get emergency medical help right away if you have any of the following symptoms of a severe allergic reaction:
 trouble breathing or swallowing
 swelling of the lips, tongue, face
 throat tightness, hoarseness

- rapid heartbeat
- faintness

- o new onset of fever and swolen lymph nodes
 Stop taking azithromycin for oral suspension at the first sign of a skin rash and call your healthcare provider. Skin rash may be a sign of a more serious reaction to azithromycin for oral suspension.
- Liver damage (hepatotoxicity). Hepatotoxicity can happen in people who take azkhromycin for oral suspension. Call your healthcare provider right away if you have unexplained symptoms such as:
 - nausea or vomiting
- stomach pain
- fever
- weakness
- abdominal pain or tenderness
- itching unusual tiredness

- loss of appetite change in the color of your bowel movements dark colored urine

- dark coored urne
 yellowing of your skin or of the whites of your eyes
 Stop taking azithromycin for oral suspension and tell your healthcare provider right away if you have yellowing of your skin or white part of your eyes, or if you have dark urine. These can be signs of a serious reaction to azithromycin for oral suspension (a liver problem).
- Serious heart rhythm changes (QT prolongation and torsades de pointes). Tell your healthcare provider right away if you have a change in your heartbeat (a fast or irregular heartbeat), or if you feel faint and dizzy. Azthromycin for oral suspension may cause a rare heart problem known as prolongation of the QT interval. This condition can cause an abnormal heartbeat and can be very dangerous. The chances of this happening are higher in people: who are elderly

- with a family history of prolonged QT interval
 with a family history of prolonged QT interval
 with low blood potassium
 o who take certain medicines to control heart rhythm (antiarrhythmics)
 Worsening of myasthenia gravis (a problem that causes muscle
 weakness). Certain antibiotics like azithromycin for oral suspension may cause
 worsening of myasthenia gravis symptoms, including muscle weakness and
 breathing problems. Call your healthcare provider right away if you have any
 worsening muscle weakness or breathing problems. orsening muscle weakness or breathing problems
- Worseling muscle weakless or integring proteins. Diarrhea. Tell your healthcare provider right away if you have watery diarrhea, diarrhea that does not go away, or bloody stools. You may experience cramping and a fever. This could happen after you have finished your azithromycin for oral
- suspension.
 The most common side effects of azithromycin for oral suspension include
- 1. nausea stomach pain
- 3. vomiting

These are not all the possible side effects of azithromycin for oral suspension. Tell your healthcare provider about any side effect that bothers you or that does not go away.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store azithromycin for oral suspension? • Store azithromycin for oral suspension at 41°F to 86°F (5°C to 30°C).

- Keep azithromycin for oral suspension in a tightly closed container.
 Safely throw away any medicine that is out of date or no longer needed.

General information about the safe and effective use of azithromycin for oral suspension.

Medicines are sometimes prescribed for purposes other than those listed in the Patient Information leaflet. Do not use azthromycin for oral suspension for a condition for which it was not prescribed. Do not give azthromycin for oral suspension to other people, even if they have the same symptoms you have. It may harm them.

This Patient Information leaflet summarizes the most important information about azithromycin for oral suspension. If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about azithromycin for oral suspension that is written for health professionals.

For more information, call Epic Pharma, LLC at 1-888-374-2791.

What are the ingredients in azithromycin for oral suspension USP?

Active ingredient: azithromycin monohydrate, USP

Inactive ingredients: colloidal silicon dioxide, FD & C Red No. 40 Aluminum Lake hydroxypropyl cellulose, sodium phosphate tribasic anhydrous, sucrose, natur artificial banana flavor, natural and artificial cherry flavor and xanthan gum.

This Patient Information has been approved by the U.S. Food and Drug Administration

Manufactured by:

Epic Pharma, LLC

Laurelton, NY 11413

Revised 03/2018

MF0147REV03/18 OE1490

PACKAGE/LARFI PRINCIPAL DISPLAY PANEL -



AZITHROMYCIN

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Labeler - NuCare Pharmaceuticals,Inc. (010632300)

Establishment							
Name	Address	ID/FEI	Business Operations				
NuCare Pharmaceuticals, Inc.		010632300	relabel(68071-4795)				

Revised: 6/2024

NuCare Pharmaceuticals,Inc.