

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use AMOXICILLIN capsules and AMOXICILLIN for oral suspension safely and effectively. See full prescribing information for AMOXICILLIN capsules and AMOXICILLIN for oral suspension.

AMOXICILLIN capsules, for oral use
AMOXICILLIN for oral suspension
Initial U.S. Approval: 1974

INDICATIONS AND USAGE

Amoxicillin is a penicillin-class antibacterial indicated for treatment of infections due to susceptible strains of designated microorganisms.

- Infections of the ear, nose, throat, genitourinary tract, skin and skin structure, and lower respiratory tract. (1.1 to 1.4)
 - In combination for treatment of *H. pylori* infection and duodenal ulcer disease. (1.5)
- To reduce the development of drug-resistant bacteria and maintain the effectiveness of amoxicillin and other antibacterial drugs, amoxicillin should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria. (1.6)

DOSAGE AND ADMINISTRATION

- In adults, 750-1750 mg/day in divided doses every 8 to 12 hours. In Pediatric Patients > 3 Months of Age, 20 to 45 mg/kg/day in divided doses every 8 to 12 hours. Refer to full prescribing information for specific dosing regimens. (2.1, 2.2, 2.3)
- The upper dose for neonates and infants ≤ 3 months is 30 mg/kg/day divided every 12 hours. (2.2)
- Dosing for *H. pylori* Infection: Triple therapy: 1 gram amoxicillin, 500 mg clarithromycin, and 30 mg lansoprazole, all given twice daily (every 12 hours) for 14 days. Dual therapy: 1 gram amoxicillin and 30 mg lansoprazole, each given three times daily (every 8 hours) for 14 days. (2.3)
- Reduce the dose in patients with severe renal impairment (GFR < 30 mL/min). (2.4)

DOSAGE FORMS AND STRENGTHS

- Capsules: 250 mg, 500 mg (3)
- For Oral Suspension: 125 mg/5 mL, 250 mg/5 mL (3)

FULL PRESCRIBING INFORMATION: CONTENTS*

- INDICATIONS AND USAGE
 - Infections of the Ear, Nose, and Throat
 - Infections of the Genitourinary Tract
 - Infections of the Skin and Skin Structure
 - Infections of the Lower Respiratory Tract
 - Helicobacter pylori* Infection
 - Usage
- DOSAGE AND ADMINISTRATION
 - Dosing for Adult and Pediatric Patients > 3 Months of Age
 - Dosing in Neonates and Infants Aged ≤ 12 Weeks (≤ 3 Months)
 - Dosing for *H. pylori* Infection
 - Dosing in Renal Impairment
 - Directions for Mixing Oral Suspension
- DOSAGE FORMS AND STRENGTHS
- WARNINGS AND PRECAUTIONS
 - Anaphylactic Reactions
 - Drug-Induced Enterocolitis Syndrome (DIES)
 - Clostridium difficile*-Associated Diarrhea
 - Development of Drug-Resistant Bacteria
 - Use in Patients with Mononucleosis
- ADVERSE REACTIONS
 - Clinical Trials Experience
 - Postmarketing or Other Experience
- DRUG INTERACTIONS
 - Probenecid

CONTRAINDICATIONS

- History of a serious hypersensitivity reaction (e.g., anaphylaxis or Stevens-Johnson syndrome) to Amoxicillin or to other beta-lactams (e.g., penicillins or cephalosporins) (4)

WARNINGS AND PRECAUTIONS

- Anaphylactic reactions: Serious and occasionally fatal anaphylactic reactions have been reported in patients on penicillin therapy. Serious anaphylactic reactions require immediate emergency treatment with supportive measures. (5.1)
- Drug-induced enterocolitis syndrome (DIES) has been reported with amoxicillin use. If this occurs, discontinue Amoxicillin and institute appropriate therapy. (5.2)
- Clostridium difficile*-associated diarrhea (ranging from mild diarrhea to fatal colitis): Evaluate if diarrhea occurs. (5.3)

ADVERSE REACTIONS

The most common adverse reactions (> 1%) observed in clinical trials of amoxicillin capsules, tablets or oral suspension were diarrhea, rash, vomiting, and nausea. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact USAntibiotics, LLC at 1-844-454-5532 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Probenecid decreases renal tubular secretion of amoxicillin which may result in increased blood levels of amoxicillin. (7.1)
- Concomitant use of amoxicillin and oral anticoagulants may increase the prolongation of prothrombin time. (7.2)
- Coadministration with allopurinol increases the risk of rash. (7.3)
- Amoxicillin may reduce the efficacy of oral contraceptives. (7.4)

USE IN SPECIFIC POPULATIONS

- Pediatric: Modify dose in patients 12 weeks or younger (≤ 3 months). (8.4)

See 17 for PATIENT COUNSELING INFORMATION

Revised: 06/2025

- Oral Anticoagulants
- Allopurinol
- Oral Contraceptives
- Other Antibacterials
- Effects on Laboratory Tests
- USE IN SPECIFIC POPULATIONS
 - Pregnancy
 - Labor and Delivery
 - Nursing Mothers
 - Pediatric Use
 - Geriatric Use
 - Dosing in Renal Impairment
- OVERDOSAGE
- DESCRIPTION
- CLINICAL PHARMACOLOGY
 - Mechanism of Action
 - Pharmacokinetics
 - Microbiology
- NONCLINICAL TOXICOLOGY
 - Carcinogenesis, Mutagenesis, Impairment of Fertility
- CLINICAL STUDIES
 - H. pylori* Eradication to Reduce the Risk of Duodenal Ulcer Recurrence
- REFERENCES
- HOW SUPPLIED/STORAGE AND HANDLING
- PATIENT COUNSELING INFORMATION

*Sections or subsections omitted from the full prescribing information are not listed.

DOSAGE AND ADMINISTRATION

Dosing for Adult and Pediatric Patients > 3 Months of Age

Treatment should be continued for a minimum of 48 to 72 hours beyond the time that the patient becomes asymptomatic, or evidence of bacterial eradication has been obtained. It is recommended that there be at least 10 days' treatment for any infection caused by *Streptococcus pyogenes* to prevent the occurrence of acute rheumatic fever. In some infections, therapy may be required for several weeks. It may be necessary to continue clinical and/or bacteriological follow-up for several months after cessation of therapy.

Table 1. Dosing Recommendations for Adult and Pediatric Patients > 3 Months of Age

Infection	Severity ^a	Usual Adult Dose	Usual Dose for Children > 3 Months ^b
Ear/Nose/Throat Skin/Skin Structure Genitourinary Tract	Mild/Moderate	500 mg every 12 hours or 250 mg every 8 hours	25 mg/kg/day in divided doses every 12 hours or 20 mg/kg/day in divided doses every 8 hours
	Severe	875 mg every 12 hours or 500 mg every 8 hours	45 mg/kg/day in divided doses every 12 hours or 40 mg/kg/day in divided doses every 8 hours
Lower Respiratory Tract	Mild/Moderate or Severe	875 mg every 12 hours or 500 mg every 8 hours	45 mg/kg/day in divided doses every 12 hours or 40 mg/kg/day in divided doses every 8 hours

^a Dosing for infections caused by bacteria that are intermediate in their susceptibility to amoxicillin should follow the recommendations for severe infections.

^b The children's dosage is intended for individuals whose weight is less than 40 kg. Children weighing 40 kg or more should be dosed according to the adult recommendations.

Dosing in Neonates and Infants Aged ≤ 12 Weeks (≤ 3 Months)

Treatment should be continued for a minimum of 48 to 72 hours beyond the time that the patient becomes asymptomatic, or evidence of bacterial eradication has been obtained. It is recommended that there be at least 10 days' treatment for any infection caused by *Streptococcus pyogenes* to prevent the occurrence of acute rheumatic fever. Due to incompletely developed renal function affecting elimination of amoxicillin in this age group, the recommended upper dose of amoxicillin is 30 mg/kg/day divided every 12 hours. There are currently no dosing recommendations for pediatric patients with impaired renal function.

Dosing for *H. pylori* Infection

Triple therapy: The recommended adult oral dose is 1 gram amoxicillin, 500 mg clarithromycin, and 30 mg lansoprazole, all given twice daily (every 12 hours) for 14 days.

Dual therapy: The recommended adult oral dose is 1 gram amoxicillin and 30 mg lansoprazole, each given three times daily (every 8 hours) for 14 days. Please refer to clarithromycin and lansoprazole full prescribing information.

Dosing in Renal Impairment

- Patients with impaired renal function do not generally require a reduction in dose unless the impairment is severe.
- Severely impaired patients with a glomerular filtration rate of < 30 mL/min. should not receive a 875 mg dose.
 - Patients with a glomerular filtration rate of 10 to 30 mL/min should receive 500 mg or 250 mg every 12 hours, depending on the severity of the infection.
 - Patients with a glomerular filtration rate less than 10 mL/min should receive 500 mg or 250 mg every 24 hours, depending on severity of the infection.
 - Hemodialysis patients should receive 500 mg or 250 mg every 24 hours, depending on severity of the infection. They should receive an additional dose both during and at the end of dialysis.

Directions for Mixing Oral Suspension

Tap bottle until all powder flows freely. Add approximately 1/3 of the total amount of water for reconstitution (see Table 2) and shake vigorously to wet powder. Add remainder of the water and again shake vigorously.

Table 2. Amount of Water for Mixing Oral Suspension

Strength	Bottle Size	Amount of Water Required for Reconstitution
Oral Suspension 125 mg/5 mL	80 mL	62 mL
	100 mL	78 mL
	150 mL	116 mL
Oral Suspension 250 mg/5 mL	80 mL	59 mL
	100 mL	74 mL
	150 mL	111 mL

After reconstitution, the required amount of suspension should be placed directly on the child's tongue for swallowing. Alternate means of administration are to add the required amount of suspension to formula, milk, fruit juice, water, ginger ale, or cold drinks. These preparations should then be taken immediately.

NOTE: SHAKE ORAL SUSPENSION WELL BEFORE USING. Keep bottle tightly closed. Any unused portion of the reconstituted suspension must be discarded after 14 days. Refrigeration is preferable, but not required.

DOSAGE FORMS AND STRENGTHS

Amoxicillin capsules, USP: blue and pink capsule

250 mg, 500 mg. Each capsule of amoxicillin, with royal blue opaque cap and pink opaque body, contains 250 mg or 500 mg of amoxicillin as the trihydrate. The cap and body of the 250 mg capsule are imprinted with "AMOXIL[®]" over "250"; the cap and body of the 500 mg capsule are imprinted with "AMOXIL[®]" over "500".

Amoxicillin capsules, USP: white capsule

Each capsule of amoxicillin, with white cap and body, contains 500 mg of amoxicillin as the trihydrate. The cap and body of the 500 mg capsule are imprinted with "AMOXIL[®]" over "500".

Amoxicillin for oral suspension, USP:

125 mg/5 mL, 250 mg/5 mL. Each 5 mL of reconstituted strawberry flavored suspension contains 125 mg of amoxicillin as the trihydrate. Each 5 mL of reconstituted bubble-gum flavored suspension contains 250 mg amoxicillin as the trihydrate.

CONTRAINDICATIONS

Amoxicillin is contraindicated in patients who have experienced a serious hypersensitivity reaction (e.g., anaphylaxis or Stevens-Johnson syndrome) to amoxicillin or to other β-lactam antibiotics (e.g., penicillins and cephalosporins).

WARNINGS AND PRECAUTIONS

Anaphylactic Reactions

Serious and occasionally fatal hypersensitivity (anaphylactic) reactions have been reported in patients on penicillin therapy including amoxicillin. Although anaphylaxis is more frequent following parenteral therapy, it has occurred in patients on oral penicillins. These reactions are more likely to occur in individuals with a history of penicillin hypersensitivity and/or a history of sensitivity to multiple allergens. There have been reports of individuals with a history of penicillin hypersensitivity who have experienced severe reactions when treated with cephalosporins. Before initiating therapy with amoxicillin, careful inquiry should be made regarding previous hypersensitivity reactions to penicillins, cephalosporins, or other allergens. If an allergic reaction occurs, amoxicillin should be discontinued and appropriate therapy instituted.

Drug-Induced Enterocolitis Syndrome (DIES)

Drug-induced enterocolitis syndrome (DIES) has been reported with amoxicillin use [see Adverse Reactions (6.2)], with most cases occurring in pediatric patients ≤ 18 years of age. DIES is a non-IgE mediated hypersensitivity reaction characterized by protracted vomiting occurring 1 to 4 hours after drug ingestion in the absence of skin or respiratory symptoms. DIES may be associated with pallor, lethargy, hypotension, shock, diarrhea within 24 hours after ingesting amoxicillin, and leukocytosis with neutrophilia. If DIES occurs, discontinue Amoxicillin and institute appropriate therapy.

Clostridium difficile-Associated Diarrhea

Clostridium difficile-associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including amoxicillin, and may range in severity from mild diarrhea to fatal colitis. 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 antimicrobial therapy and may require colectomy. CDAD must be considered in all patients who present with diarrhea following antibacterial use. Careful medical history is necessary since CDAD has been reported to occur over 2 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.

Development of Drug-Resistant Bacteria

Prescribing amoxicillin 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.

Use in Patients with Mononucleosis

A high percentage of patients with mononucleosis who receive amoxicillin develop an erythematous skin rash. Thus, amoxicillin should not be administered to patients with mononucleosis.

ADVERSE REACTIONS

The following are discussed in more detail in other sections of the labeling:

- Anaphylactic reactions [see Warnings and Precautions (5.1)]
- Drug-Induced Enterocolitis Syndrome (DIES) [see Warnings and Precautions (5.2)]
- CDAD [see Warnings and Precautions (5.3)]

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.

The most common adverse reactions (> 1%) observed in clinical trials of amoxicillin capsules, tablets or oral suspension were diarrhea, rash, vomiting, and nausea.

Triple therapy: The most frequently reported adverse events for patients who received triple therapy (amoxicillin/clarithromycin/lansoprazole) were diarrhea (7%), headache (6%), and taste perversion (5%).

Dual therapy: The most frequently reported adverse events for patients who received double therapy (amoxicillin/lansoprazole) were diarrhea (8%) and headache (7%). For more information on adverse reactions with clarithromycin or lansoprazole, refer to the Adverse Reactions section of their package inserts.

Postmarketing or Other Experience

In addition to adverse events reported from clinical trials, the following events have been identified during postmarketing use of penicillins. Because they are reported voluntarily from a population of unknown size, estimates of frequency cannot be made. These events have been chosen for inclusion due to a combination of their seriousness, frequency of reporting, or potential causal connection to amoxicillin.

- Infections and Infestations:** Mucocutaneous candidiasis, and hemorrhagic/pseudomembranous colitis.
- Gastrointestinal:** Drug-induced enterocolitis syndrome (DIES), black hairy tongue, and onset of pseudomembranous colitis symptoms may occur during or after antibacterial treatment [see Warnings and Precautions (5.3)].
- Hypersensitivity Reactions:** Anaphylaxis [see Warnings and Precautions (5.1)]. Serum sickness-like reactions, erythematous maculopapular rashes, erythema multiforme, Stevens Johnson syndrome, exfoliative dermatitis, toxic epidermal necrolysis, acute generalized exanthematous pustulosis, linear IgA bullous dermatosis, hypersensitivity vasculitis, and urticaria have been reported.
- Liver:** A moderate rise in AST and/or ALT has been noted, but the significance of this finding is unknown. Hepatic dysfunction including cholestatic jaundice, hepatic cholestasis and acute cytolytic hepatitis have been reported.
- Renal:** Crystalluria has been reported [see Overdosage (10)].
- Hemic and Lymphatic Systems:** Anemia, including hemolytic anemia, thrombocytopenia, thrombocytopenic purpura, eosinophilia, leukopenia, and agranulocytosis have been reported. These reactions are usually reversible on discontinuation of therapy and are believed to be hypersensitivity phenomena.
- Central Nervous System:** Reversible hyperactivity, agitation, anxiety, insomnia, confusion, convulsions, behavioral changes, and/or dizziness have been reported.
- Miscellaneous:** Tooth discoloration (brown, yellow, or gray staining) has been reported. Most reports occurred in pediatric patients. Discoloration was reduced or eliminated with brushing or dental cleaning in most cases.

DRUG INTERACTIONS

Probenecid

Probenecid decreases the renal tubular secretion of amoxicillin. Concurrent use of amoxicillin and probenecid may result in increased and prolonged blood levels of amoxicillin.

Oral Anticoagulants

Abnormal prolongation of prothrombin time (increased international normalized ratio [INR]) has been reported in patients receiving amoxicillin and oral anticoagulants. Appropriate monitoring should be undertaken when anticoagulants are prescribed concurrently. Adjustments in the dose of oral anticoagulants may be necessary to maintain the desired level of anticoagulation.

Allopurinol

The concurrent administration of allopurinol and amoxicillin increases the incidence of rashes in patients receiving both drugs as compared to patients receiving amoxicillin alone. It is not known whether this potentiation of amoxicillin rashes is due to allopurinol or the hyperuricemia present in these patients.

Oral Contraceptives

Amoxicillin may affect the gut flora, leading to lower estrogen reabsorption and reduced efficacy of combined oral estrogen/progesterone contraceptives.

Other Antibacterials

Chloramphenicol, macrolides, sulfonamides, and tetracyclines may interfere with the bactericidal effects of penicillin. This has been demonstrated *in vitro*; however, the clinical significance of this interaction is not well documented.

