

# amoxicillin-clavulanate

<b>Warnings</b>	<b>Classification</b> aminopenicillin antibiotic, beta-lactam antibiotic & beta-lactamase inhibitor	<b>Alternate Names</b> CLAVULIN amoxicillin sodium and potassium clavulanate
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## Indications

- for the treatment of moderate to severe infections caused by susceptible strains of bacteria

## Reconstitution and Stability

- store vials at room temperature  
*available as:*
  - 500 mg-100 mg vial (contains amoxicillin 500 mg and clavulanate 100 mg)
  - 1000 mg-200 mg vial (contains amoxicillin 1000 mg and clavulanate 200 mg)
  - 2000 mg-200 mg vial (contains amoxicillin 2000 mg and clavulanate 200 mg)*reconstitute each vial with sterile water for injection as follows:*
  - 500 mg-100 mg vial: add 10 mL
  - 1000 mg-200 mg vial: add 20 mL
  - 2000 mg-200 mg vial: add 20 mL*on dissolution/reconstitution, the solution may transiently look pink, but rapidly returns to being clear; reconstituted solution is only stable for 15 minutes:*
  - dilute immediately and administer promptly
  - diluted solution stable for 60 minutes at room temperature
- also available as Minibag Plus, store at room temperature once the vial is activated (drug diluted in the bag), use immediately

## Compatibility

- compatible in NS, lactated ringers

## Preparation and Administration

Administration Route	Approved	Preparation and Administration Instructions	<a href="#">Required Monitoring</a>
<b>Subcutaneous</b>	NO		
<b>Intramuscular</b>	NO		
<b>IV direct</b>	YES	<ul style="list-style-type: none"><li>maximum dose 1000 mg-200 mg</li><li>undiluted over 3 to 4 minutes</li></ul>	Basic Monitoring
<b>IV intermittent</b>	YES	<ul style="list-style-type: none"><li>dilute 500 mg-100 mg in NS 50 mL</li><li>dilute 1000 mg-200 mg <i>or</i> 2000 mg-200 mg in NS 100 mL</li><li>administer over 30 minutes</li></ul>	Basic Monitoring
<b>Continuous IV infusion</b>	NO		

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## Dosage

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- amoxicillin-clavulanate vials available as 500 mg-100 mg, 1000 mg-200 mg and 2000 mg-200 mg

### Dosing is based on the amoxicillin component

- *Usual:* 1000 mg every 8 hours.
  - (each dose = two 500 mg-100 mg vials or one 1000 mg-200 mg vial)
  - provides a 5:1 ratio of amoxicillin to clavulanic acid
- *For severe infections:* 2000 mg every 12 hours, to a maximum of 2000 mg every 8 hours
  - (only use 2000 mg-200 mg vial)
  - provides a 10:1 ratio of amoxicillin to clavulanic acid; this formulation is preferred to avoid unnecessarily high clavulanate exposure
- Dosage adjustments for renal impairment as follows (*only use 500 mg-100 mg or 1000 mg-200 mg vials*):  
Creatinine clearance less than 30 mL/minute: 1000 mg IV once, followed by 500 mg IV Q12H

## Potential Hazards of Parenteral Administration

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- hypersensitivity reactions (immediate and delayed) e.g. pruritus, rash, severe cutaneous reactions and anaphylaxis

## Important Implications

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### Contraindications/Cautions

- Contraindicated if allergy to penicillin antibiotics; refer to [Beta-Lactam Antibiotic Cross-Allergy Chart](#) or consult pharmacist if patient has an allergy to a cephalosporin.
- Contraindicated in patients with a history of amoxicillin-clavulanate associated hepatic dysfunction.
- Pregnancy/Lactation: refer to Lexicomp or Micromedex  
Use near delivery in the setting of preterm prelabour rupture of membranes has been associated with necrotizing enterocolitis in the newborn.

### Side effects

- *GI:* diarrhea, nausea, vomiting, mucocutaneous candidiasis
- *CNS:* seizures (with renal impairment or in those receiving high doses)

### Other

- sodium and potassium content:
  - 500 mg-100 mg vial: 31.4 mg (1.4 mmol) of sodium and 19.6 mg (0.5 mmol) of potassium
  - 1000 mg-200 mg vial: 62.9 mg (2.7 mmol) of sodium and 39.3 mg (1 mmol) of potassium
  - 2000 mg-200 mg vial: 125.9 mg (5.5 mmol) of sodium and 39.3 mg (1 mmol) of potassium