

Pharmaceutical Drug Manual

1. Drug Name

Amoxicillin 500 mg Capsules

2. Description

Amoxicillin is a broad-spectrum beta-lactam antibiotic used to treat various bacterial infections including respiratory, urinary tract, skin, and ear infections. It works by inhibiting bacterial cell wall synthesis.

3. Indications and Usage

- Upper and lower respiratory tract infections
- Urinary tract infections
- Skin and soft tissue infections
- Otitis media and sinusitis
- Post-surgical infection prevention

4. Dosage and Administration

Dosage must be determined by the physician based on patient age, weight, and severity of infection.

- Adults: 500 mg every 8 hours
- Severe infection: 875 mg every 12 hours
- Children: 20–40 mg/kg/day divided doses
- Administer with water after meals

5. Contraindications

- Hypersensitivity to penicillin-class antibiotics
- History of severe allergic reactions to beta-lactams

6. Warnings and Precautions

- Monitor for allergic reactions
- Discontinue if rash or breathing difficulty occurs
- Use cautiously in renal impairment
- Long-term use may cause superinfection

7. Drug Interactions

- Oral contraceptives effectiveness may decrease
- Allopurinol may increase risk of rash
- Anticoagulants may require monitoring

8. Adverse Reactions

- Nausea, vomiting, diarrhea
- Skin rash
- Headache
- Rare: anaphylaxis

9. Storage Instructions

- Store at 20–25°C
- Protect from moisture
- Keep out of reach of children

10. Clinical Summary

This drug manual is intended for healthcare professionals to provide safe prescribing information. Always follow institutional guidelines and regulatory requirements when administering medication.