SUPRAX® cefixime capsule
Denton Pharma, Inc. DBA Northwind Pharmaceuticals

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**HIGHLIGHTS OF PRESCRIBING INFORMATION**

These highlights do not include all the information needed to use SUPRAX® safely and effectively. See full prescribing information for SUPRAX®.

SUPRAX® (cefixime) tablets, for oral use
SUPRAX® (cefixime) capsules, for oral use
SUPRAX® (cefixime) chewable tablets, for oral use
SUPRAX® (cefixime) for oral suspension

**INITIAL U.S. APPROVAL:** 1986

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**RECENT MAJOR CHANGES**

- **Warnings and Precautions, Risk in Patients with Phenylketonuria (5.6)** 03/2017

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**INDICATIONS AND USAGE**

SUPRAX (cefixime) is a cephalosporin antibacterial drug indicated in the treatment of adults and pediatric patients six months and older with the following infections:

- Uncomplicated Urinary Tract Infections (1.1)
- Otitis Media (1.2)
- Pharyngitis and Tonsillitis (1.3)
- Acute Exacerbations of Chronic Bronchitis (1.4)
- Uncomplicated Gonorrhea (cervical/urethral) (1.5)

To reduce the development of drug-resistant bacteria and maintain the effectiveness of SUPRAX and other antibacterial drugs, SUPRAX should be used only to treat infections that are proven or strongly suspected to be caused by bacteria. (1.6)

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**DOSE AND ADMINISTRATION**

- **Adults:** 400 mg daily (2.1)
- **Pediatric patients (6 months and older):** 8 mg/kg/day (2.2)

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**DOSE FORMS AND STRENGTHS**

- Film-coated, scored Tablets: 400 mg (3)
- Capsules: 400 mg (3)
- Chewable Tablets: 100 mg, 150 mg and 200 mg (3)
- Oral Suspension: 100 mg/5 mL, 200 mg/5 mL and 500 mg/5 mL (3)

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**CONTRAINDICATIONS**

- Contraindicated in patients with known allergy to cefixime or other cephalosporins. (4)

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**WARNINGS AND PRECAUTIONS**

- Hypersensitivity reactions including shock and fatalities have been reported with cefixime. Discontinue use if a reaction occurs. (5.1)
- **Clostridium difficile** associated diarrhea: Evaluate if diarrhea occurs. (5.2)
- Risk in Patients with Phenylketonuria (PKU): Before prescribing SUPRAX chewable tablets in a patient with PKU, consider the combined daily amount of phenylalanine from all sources, including SUPRAX chewable tablets. (5.6)

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**ADVERSE REACTIONS**

Most common adverse reactions are gastrointestinal such as diarrhea (16%), nausea (7%), loose stools (6%), abdominal pain (3%), dyspepsia (3%), and vomiting. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Lupin Pharma at 1-800-399-2561 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

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**DRUG INTERACTIONS**

- Elevated carbamazepine levels have been reported in postmarketing experience when cefixime is administered concomitantly. (7.1)
- Increased prothrombin time, with or without clinical bleeding, has been reported when cefixime is administered concomitantly with warfarin and anticoagulants. (7.2)

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**USE IN SPECIFIC POPULATIONS**

- Pregnancy: Cefixime should be used during pregnancy only if clearly needed. (8.1)
- Nursing Mothers: Consideration should be given to discontinuing nursing temporarily during treatment with cefixime. (8.3)
- Children: Efficacy and safety in infants aged less than six months have not been established. (8.4)
- Geriatric Use: Clinical studies did not include sufficient numbers of subjects aged 65 and older to determine whether they respond differently than younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. (8.5)
- Renal Impairment: Cefixime may be administered in the presence of impaired renal function. Dose adjustment is required in patients whose creatinine clearance is less than 60 mL/min. (8.6)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 3/2017

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FULL PRESCRIBING INFORMATION: CONTENTS*

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   1.1 Uncomplicated Urinary Tract Infections
   1.2 Otitis Media
   1.3 Pharyngitis and Tonsillitis
   1.4 Acute Exacerbations of Chronic Bronchitis
   1.5 Uncomplicated Gonorrhea (cervical/urethral)
   1.6 Usage

2 DOSAGE AND ADMINISTRATION
   2.1 Adults
   2.2 Pediatric Patients (6 months or older)
   2.3 Renal Impairment
   2.4 Reconstitution Directions for Oral Suspension
SUPRAX is indicated in the treatment of adults and pediatric patients six months of age or older with uncomplicated urinary tract infections caused by susceptible isolates of *Escherichia coli* and *Proteus mirabilis*.

**1.2 Otitis Media**

SUPRAX is indicated in the treatment of adults and pediatric patients six months of age or older with otitis media caused by susceptible isolates of *Haemophilus influenzae*, *Moraxella catarrhalis*, and *Streptococcus pyogenes*. (Efficacy for *Streptococcus pyogenes* in this organ system was studied in fewer than 10 infections.)

Note: For patients with otitis media caused by *Streptococcus pneumoniae*, overall response was approximately 10% lower for cefixime than for the comparator [see Clinical Studies (14)].

**1.3 Pharyngitis and Tonsillitis**

SUPRAX is indicated in the treatment of adults and pediatric patients six months of age or older with pharyngitis and tonsillitis caused by susceptible isolates of *Streptococcus pyogenes*. (Note: Penicillin is the usual drug of choice in the treatment of *Streptococcus pyogenes* infections. SUPRAX is generally effective in the eradication of *Streptococcus pyogenes* from the nasopharynx; however, data establishing the efficacy of SUPRAX in the subsequent prevention of rheumatic fever is not available.)

**1.4 Acute Exacerbations of Chronic Bronchitis**

SUPRAX is indicated in the treatment of adults and pediatric patients six months of age or older with acute exacerbations of chronic bronchitis caused by susceptible isolates of *Streptococcus pneumoniae* and *Haemophilus influenzae*.

**1.5 Uncomplicated Gonorrhea (cervical/urethral)**

SUPRAX is indicated in the treatment of adults and pediatric patients six months of age or older with uncomplicated gonorrhea (cervical/urethral) caused by susceptible isolates of *Neisseria gonorrhoeae* (penicillinase-and non-penicillinase-producing isolates).

**1.6 Usage**

To reduce the development of drug resistant bacteria and maintain the effectiveness of SUPRAX and other antibacterial drugs, SUPRAX 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 antimicrobial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy.
2 DOSAGE AND ADMINISTRATION

2.1 Adults

The recommended dose of cefixime is 400 mg daily. This may be given as a 400 mg tablet or capsule daily or the 400 mg tablet may be split and given as one half tablet every 12 hours. For the treatment of uncomplicated cervical/urethral gonococcal infections, a single oral dose of 400 mg is recommended. The capsule and tablet may be administered without regard to food.

In the treatment of infections due to *Streptococcus pyogenes*, a therapeutic dosage of cefixime should be administered for at least 10 days.

2.2 Pediatric Patients (6 months or older)

The recommended dose is 8 mg/kg/day of the suspension. This may be administered as a single daily dose or may be given in two divided doses, as 4 mg/kg every 12 hours.

Note: A suggested dose has been determined for each pediatric weight range. Refer to Table 1. Ensure all orders that specify a dose in milliliters include a concentration, because SUPRAX for oral suspension is available in three different concentrations (100 mg/5 mL, 200 mg/5 mL, and 500 mg/5 mL).

Table 1. Suggested doses for pediatric patients

<table>
<thead>
<tr>
<th>Patient Weight (kg)</th>
<th>Dose/Day (mg)</th>
<th>Dose/Day (mL)</th>
<th>Dose/Day (mL)</th>
<th>Dose/Day (mL)</th>
<th>Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 to 7.5 *</td>
<td>50</td>
<td>2.5</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>7.6 to 10 *</td>
<td>80</td>
<td>4</td>
<td>2</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>10.1 to 12.5</td>
<td>100</td>
<td>5</td>
<td>2.5</td>
<td>1</td>
<td>1 tablet of 100 mg</td>
</tr>
<tr>
<td>12.6 to 20.5</td>
<td>150</td>
<td>7.5</td>
<td>4</td>
<td>1.5</td>
<td>1 tablet of 150 mg</td>
</tr>
<tr>
<td>20.6 to 28</td>
<td>200</td>
<td>10</td>
<td>5</td>
<td>2</td>
<td>1 tablet of 200 mg</td>
</tr>
<tr>
<td>28.1 to 33</td>
<td>250</td>
<td>12.5</td>
<td>6</td>
<td>2.5</td>
<td>1 tablet of 100 mg and 1 tablet of 150 mg</td>
</tr>
<tr>
<td>33.1 to 40</td>
<td>300</td>
<td>15</td>
<td>7.5</td>
<td>3</td>
<td>2 tablets of 150 mg</td>
</tr>
<tr>
<td>40.1 to 45</td>
<td>350</td>
<td>17.5</td>
<td>9</td>
<td>3.5</td>
<td>1 tablet of 150 mg and 1 tablet of 200 mg</td>
</tr>
<tr>
<td>45.1 or greater</td>
<td>400</td>
<td>20</td>
<td>10</td>
<td>4</td>
<td>2 tablets of 200 mg</td>
</tr>
</tbody>
</table>

* The preferred concentrations of oral suspension to use are 100 mg/5 mL or 200 mg/5 mL for pediatric patients in these weight ranges.

Children weighing more than 45 kg or older than 12 years should be treated with the recommended adult dose. SUPRAX (cefixime) chewable tablets must be chewed or crushed before swallowing.

Otitis media should be treated with the chewable tablets or suspension. Clinical trials of otitis media were conducted with the chewable tablets or suspension, and the chewable tablets or suspension results in higher peak blood levels than the tablet when administered at the same dose.

Therefore, the tablet or capsule should not be substituted for the chewable tablets or suspension in the treatment of otitis media [see Clinical Pharmacology (12.3)].

In the treatment of infections due to *Streptococcus pyogenes*, a therapeutic dosage of cefixime should be administered for at least 10 days.

2.3 Renal Impairment

SUPRAX may be administered in the presence of impaired renal function. Normal dose and schedule may be employed in patients with creatinine clearances of 60 mL/min or greater. Refer to Table 2 for dose adjustments for adults with renal impairment. Neither hemodialysis nor peritoneal dialysis removes significant amounts of drug from the body.

Table 2. Doses for Adults with Renal Impairment

<table>
<thead>
<tr>
<th>Renal Dysfunction</th>
<th>SUPRAX (cefixime) for oral suspension</th>
<th>Tablet</th>
<th>Chewable Tablet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creatinine Clearance (mL/min)</td>
<td>100 mg/5 mL</td>
<td>200 mg/5 mL</td>
<td>500 mg/5 mL</td>
</tr>
<tr>
<td>60 or greater</td>
<td>Normal dose</td>
<td>Normal dose</td>
<td>Normal dose</td>
</tr>
<tr>
<td>21 to 59 *</td>
<td>13</td>
<td>6.5</td>
<td>2.6</td>
</tr>
<tr>
<td>OR renal hemodialysis *</td>
<td>8.6</td>
<td>4.4</td>
<td>1.8</td>
</tr>
<tr>
<td>20 or less *</td>
<td>OR continuous peritoneal dialysis</td>
<td>1.8</td>
<td>2.6</td>
</tr>
</tbody>
</table>

* The preferred concentrations of oral suspension to use are 200 mg/5 mL or 500 mg/5 mL for patients with this renal dysfunction.

2.4 Reconstitution Directions for Oral Suspension

<table>
<thead>
<tr>
<th>Strength</th>
<th>Bottle Size</th>
<th>Reconstitution Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 mg/5 mL and 200 mg/5 mL</td>
<td>100 mL</td>
<td>Method: Tap the bottle several times to loosen powder contents prior to reconstitution. Add approximately half the total amount of water for reconstitution and shake well. Add the remainder of water and shake well.</td>
</tr>
<tr>
<td>100 mg/5 mL and 200 mg/5 mL</td>
<td>75 mL</td>
<td>Method: Tap the bottle several times to loosen powder contents prior to reconstitution. Add approximately half the total amount of water for reconstitution and shake well. Add the remainder of water and shake well.</td>
</tr>
</tbody>
</table>
5.4 Coagulation Effects

be monitored carefully continuous ambulatory peritoneal dialysis (CAPD) and hemodialysis (HD). Patients on dialysis should

5.3 Dose Adjustment in Renal Impairment

antibacterial drug treatment of need to be discontinued. Appropriate fluid and electrolyte management, protein supplementation,

If CDAD is suspected or confirmed, ongoing antibacterial drug use not directed against CDAD has been reported to occur over two months after the administration of antibacterial agents. Careful medical history is necessary since refractory to antimicrobial therapy and may require colectomy. CDAD must be considered in all patients producing isolates of C. difficile. Hypertoxin

5.2 Clostridium difficile-Associated Diarrhea

agents, including SUPRAX, 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 isolates 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 drug 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 antibacterial drug use not directed against C. difficile may need to be discontinued. Appropriate fluid and electrolyte management, protein supplementation, antibacterial drug treatment of C. difficile, and surgical evaluation should be instituted as clinically indicated.

5.1 Hypersensitivity Reactions

Anaphylactic/anaphylactoid reactions (including shock and fatalities) have been reported with the use of cefixime.

Before therapy with SUPRAX is instituted, careful inquiry should be made to determine whether the patient has had previous hypersensitivity reactions to cephalosporins, penicillins, or other drugs. If this product is to be given to penicillin-sensitive patients, caution should be exercised because cross hypersensitivity among beta-lactam antibacterial drugs has been clearly documented and may occur in up to 10% of patients with a history of penicillin allergy. An allergic reaction to SUPRAX occurs, discontinue the drug.

5.5 Clostridium difficile-Associated Diarrhea

C. difficile associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including SUPRAX, 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.

SUPRAX (cefixime) is contraindicated in patients with known allergy to cefixime or other cephalosporins.

5 WARNINGS AND PRECAUTIONS

5.4 Coagulation Effects

After reconstitution, the suspension may be kept for 14 days either at room temperature, or under refrigeration, without significant loss of potency. Keep tightly closed. Shake well before using.

Discard unused portion after 14 days.

SUPRAX is available for oral administration in the following dosage forms and strengths:

- Film-coated tablets provide 400 mg of cefixime as trihydrate. These are white to off-white, film-coated, capsule shaped tablets with beveled edges and a divided score line on each side. The tablet is debossed with “SUPRAX” across one side and “LUPEIN” across the other side.
- Capsules provide 400 mg of cefixime as trihydrate. These are size “00EL” capsules with pink opaque cap and pink opaque body with “LU” on the cap and “U43” on the body in black ink. Capsules contain white to yellowish white granular powder.
- Chewable tablets provide either 100 mg or 150 mg or 200 mg of cefixime as trihydrate. The 100 mg tablet is pink, round tablet, debossed with “SUPRAX 100” on one side and “LUPEIN” on other side. The 150 mg tablet is pink, round tablet, debossed with “SUPRAX 150” on one side and “LUPEIN” on other side. The 200 mg tablet is pink, round tablet, debossed with “SUPRAX 200” on one side and “LUPEIN” on other side.
- Powder for oral suspension, when reconstituted, provides either 100 mg/5 mL or 200 mg/5 mL or 500 mg/5 mL of cefixime as trihydrate. For 100 mg/5 mL and 200 mg/5 mL, the powder has an off white to pale yellow color and is strawberry flavored. For 500 mg/5 mL, the powder has an off white to cream color and is strawberry flavored.

4 CONTRAINDICATIONS

4.1 Clostridium difficile

C. difficile, may

3 DOSAGE FORMS AND STRENGTHS

To reconstitute, suspend with 34 mL water. Method: Tap the bottle several times to loosen powder contents prior to reconstitution. Add approximately half the total amount of water for reconstitution and shake well. Add the remainder of water and shake well.

To reconstitute, suspend with 26 mL water. Method: Tap the bottle several times to loosen powder contents prior to reconstitution. Add approximately half the total amount of water for reconstitution and shake well. Add the remainder of water and shake well.

To reconstitute, suspend with 17 mL water. Method: Tap the bottle several times to loosen powder contents prior to reconstitution. Add approximately half the total amount of water for reconstitution and shake well. Add the remainder of water and shake well.

To reconstitute, suspend with 14 mL water. Method: Tap the bottle several times to loosen powder contents prior to reconstitution. Add approximately half the total amount of water for reconstitution and shake well. Add the remainder of water and shake well.

To reconstitute, suspend with 8 mL water. Method: Tap the bottle several times to loosen powder contents prior to reconstitution. Add approximately half the total amount of water for reconstitution and shake well. Add the remainder of water and shake well.

Table:<br/>
<table>
<thead>
<tr>
<th>Dosage Form</th>
<th>Volume</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 mg/5 mL and 200 mg/5 mL</td>
<td>50 mL</td>
<td>To reconstitute, suspend with 34 mL water. Method: Tap the bottle several times to loosen powder contents prior to reconstitution. Add approximately half the total amount of water for reconstitution and shake well. Add the remainder of water and shake well.</td>
</tr>
<tr>
<td>200 mg/5 mL</td>
<td>37.5 mL</td>
<td>To reconstitute, suspend with 26 mL water. Method: Tap the bottle several times to loosen powder contents prior to reconstitution. Add approximately half the total amount of water for reconstitution and shake well. Add the remainder of water and shake well.</td>
</tr>
<tr>
<td>200 mg/5 mL</td>
<td>25 mL</td>
<td>To reconstitute, suspend with 17 mL water. Method: Tap the bottle several times to loosen powder contents prior to reconstitution. Add approximately half the total amount of water for reconstitution and shake well. Add the remainder of water and shake well.</td>
</tr>
<tr>
<td>500 mg/5 mL</td>
<td>20 mL</td>
<td>To reconstitute, suspend with 14 mL water. Method: Tap the bottle several times to loosen powder contents prior to reconstitution. Add approximately half the total amount of water for reconstitution and shake well. Add the remainder of water and shake well.</td>
</tr>
<tr>
<td>500 mg/5 mL</td>
<td>10 mL</td>
<td>To reconstitute, suspend with 8 mL water. Method: Tap the bottle several times to loosen powder contents prior to reconstitution. Add approximately half the total amount of water for reconstitution and shake well. Add the remainder of water and shake well.</td>
</tr>
</tbody>
</table>

After reconstitution, the suspension may be kept for 14 days either at room temperature, or under refrigeration, without significant loss of potency. Keep tightly closed. Shake well before using.

Discard unused portion after 14 days.

3 DOSAGE FORMS AND STRENGTHS

SUPRAX is available for oral administration in the following dosage forms and strengths:

- Film-coated tablets provide 400 mg of cefixime as trihydrate. These are white to off-white, film-coated, capsule shaped tablets with beveled edges and a divided score line on each side. The tablet is debossed with “SUPRAX” across one side and “LUPEIN” across the other side.
- Capsules provide 400 mg of cefixime as trihydrate. These are size “00EL” capsules with pink opaque cap and pink opaque body with “LU” on the cap and “U43” on the body in black ink. Capsules contain white to yellowish white granular powder.
- Chewable tablets provide either 100 mg or 150 mg or 200 mg of cefixime as trihydrate. The 100 mg tablet is pink, round tablet, debossed with “SUPRAX 100” on one side and “LUPEIN” on other side. The 150 mg tablet is pink, round tablet, debossed with “SUPRAX 150” on one side and “LUPEIN” on other side. The 200 mg tablet is pink, round tablet, debossed with “SUPRAX 200” on one side and “LUPEIN” on other side.
- Powder for oral suspension, when reconstituted, provides either 100 mg/5 mL or 200 mg/5 mL or 500 mg/5 mL of cefixime as trihydrate. For 100 mg/5 mL and 200 mg/5 mL, the powder has an off white to pale yellow color and is strawberry flavored. For 500 mg/5 mL, the powder has an off white to cream color and is strawberry flavored.

4 CONTRAINDICATIONS

SUPRAX (cefixime) is contraindicated in patients with known allergy to cefixime or other cephalosporins.

5 WARNINGS AND PRECAUTIONS

5.1 Hypersensitivity Reactions

Anaphylactic/anaphylactoid reactions (including shock and fatalities) have been reported with the use of cefixime.

Before therapy with SUPRAX is instituted, careful inquiry should be made to determine whether the patient has had previous hypersensitivity reactions to cephalosporins, penicillins, or other drugs. If this product is to be given to penicillin-sensitive patients, caution should be exercised because cross hypersensitivity among beta-lactam antibacterial drugs has been clearly documented and may occur in up to 10% of patients with a history of penicillin allergy. An allergic reaction to SUPRAX occurs, discontinue the drug.

5.2 Clostridium difficile-Associated Diarrhea

Clostridium difficile associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including SUPRAX, 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 isolates 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 drug 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 antibacterial drug use not directed against C. difficile may need to be discontinued. Appropriate fluid and electrolyte management, protein supplementation, antibacterial drug treatment of C. difficile, and surgical evaluation should be instituted as clinically indicated.

5.3 Dose Adjustment in Renal Impairment

The dose of SUPRAX should be adjusted in patients with renal impairment as well as those undergoing continuous ambulatory peritoneal dialysis (CAPD) and hemodialysis (HD). Patients on dialysis should be monitored carefully [see Dosage and Administration (2)].
Cephalosporins, including SUPRAX, may be associated with a fall in prothrombin activity. Those at risk include patients with renal or hepatic impairment, or poor nutritional state, as well as patients receiving a protracted course of antimicrobial therapy, and patients previously stabilized on anticoagulant therapy. Prothrombin time should be monitored in patients at risk and exogenous vitamin K administered as indicated.

5.5 Development of Drug-Resistant Bacteria

Prescribing Suprax (cefixime) 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.

5.6 Risk in Patients with Phenylketonuria

Phenylalanine can be harmful to patients with phenylketonuria (PKU). SUPRAX chewable tablets contain aspartame, a source of phenylalanine. Each 100 mg, 150 mg and 200 mg strength contains 3.3 mg, 5 mg and 6.7 mg of phenylalanine, respectively. Before prescribing SUPRAX chewable tablets in a patient with PKU, consider the combined daily amount of phenylalanine from all sources, including SUPRAX chewable tablets.

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.

The most commonly seen adverse reactions in U.S. trials of the tablet formulation were gastrointestinal events, which were reported in 30% of adult patients on either the twice daily or the once daily regimen. Five percent (5%) of patients in the U.S. clinical trials discontinued therapy because of drug-related adverse reactions. Individual adverse reactions included diarrhea 16%, loose or frequent stools 6%, abdominal pain 3%, nausea 7%, dyspepsia 3%, and flatulence 4%. The incidence of gastrointestinal adverse reactions, including diarrhea and loose stools, in pediatric patients receiving the suspension was comparable to the incidence seen in adult patients receiving tablets.

6.2 Post-marketing Experience

The following adverse reactions have been reported following the post-approval use of cefixime. Incidence rates were less than 1 in 50 (less than 2%).

Gastrointestinal

Several cases of documented pseudomembranous colitis were identified in clinical trials. The onset of pseudomembranous colitis symptoms may occur during or after therapy.

Hypersensitivity Reactions

Anaphylactic/anaphylactoid reactions (including shock and fatalities), skin rashes, urticaria, drug fever, pruritus, angioedema, and facial edema. Erythema multiforme, Stevens-Johnson syndrome, and serum sickness-like reactions have been reported.

Hepatic

Transient elevations in SGPT, SGOT, alkaline phosphatase, hepatitis, jaundice.

Renal

Transient elevations in BUN or creatinine, acute renal failure.

Central Nervous System

Headaches, dizziness, seizures.

Hemic and Lymphatic System

Transient thrombocytopenia, leukopenia, neutropenia, prolongation in prothrombin time, elevated LDH, pancytopenia, agranulocytosis, and eosinophilia.

Abnormal Laboratory Tests

Hyperbilirubinemia.

Other Adverse Reactions

Genital pruritus, vaginitis, candidiasis, toxic epidermal necrolysis.

Adverse Reactions Reported for Cephalosporin-class Drugs

Allergic reactions, superinfection, renal dysfunction, toxic nephropathy, hepatic dysfunction including cholestasis, aplastic anemia, hemolytic anemia, hemorrhage, and colitis.

Several cephalosporins have been implicated in triggering seizures, particularly in patients with renal impairment when the dosage was not reduced [see Dosage and Administration (2) and Overdosage (10)]. If seizures associated with drug therapy occur, the drug should be discontinued. Anticonvulsant therapy can be given if clinically indicated.

7 DRUG INTERACTIONS

7.1 Carbamazepine

Elevated carbamazepine levels have been reported in postmarketing experience when cefixime is administered concomitantly. Drug monitoring may be of assistance in detecting alterations in carbamazepine plasma concentrations.

7.2 Warfarin and Anticoagulants

Increased prothrombin time, with or without clinical bleeding, has been reported when cefixime is administered concomitantly.
7.3 Drug/Laboratory Test Interactions
A false-positive reaction for ketones in the urine may occur with tests using nitroprusside but not with those using nitroferricyanide.

The administration of cefixime may result in a false-positive reaction for glucose in the urine using Clinitest**, Benedict's solution, or Fehling's solution. It is recommended that glucose tests based on enzymatic glucose oxidase reactions (such as Clinistix *** or TesTape *** ) be used. A false-positive direct Coombs test has been reported during treatment with other cephalosporins; therefore, it should be recognized that a positive Coombs test may be due to the drug.

**Clinitest and Clinistix are registered trademarks of Ames Division, Miles Laboratories, Inc. TesTape is a registered trademark of Eli Lilly and Company.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy
Pregnancy Category B
Reproduction studies have been performed in mice and rats at doses up to 40 times the human dose and have revealed no evidence of harm to the fetus due to cefixime. There are no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

8.2 Labor and Delivery
Cefixime has not been studied for use during labor and delivery. Treatment should only be given if clearly needed.

8.3 Nursing Mothers
It is not known whether cefixime is excreted in human milk. Consideration should be given to discontinuing nursing temporarily during treatment with this drug.

8.4 Pediatric Use
Safety and effectiveness of cefixime in children aged less than six months old have not been established. The incidence of gastrointestinal adverse reactions, including diarrhea and loose stools, in the pediatric patients receiving the suspension, was comparable to the incidence seen in adult patients receiving tablets.

8.5 Geriatric Use
Clinical studies did not include sufficient numbers of subjects aged 65 and older to determine whether they respond differently than younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. A pharmacokinetic study in the elderly detected differences in pharmacokinetic parameters [see Clinical Pharmacology (12.3)]. These differences were small and do not indicate a need for dosage adjustment of the drug in the elderly.

8.6 Renal Impairment
The dose of cefixime should be adjusted in patients with renal impairment as well as those undergoing continuous ambulatory peritoneal dialysis (CAPD) and hemodialysis (HD). Patients on dialysis should be monitored carefully [see Dosage and Administration (2.3)].

10 OVERDOSAGE
Gastric lavage may be indicated; otherwise, no specific antidote exists. Cefixime is not removed in significant quantities from the circulation by hemodialysis or peritoneal dialysis. Adverse reactions in small numbers of healthy adult volunteers receiving single doses up to 2 g of cefixime did not differ from the profile seen in patients treated at the recommended doses.

11 DESCRIPTION
Cefixime is a semisynthetic, cephalosporin antibacterial for oral administration. Chemically, it is (6R,7R)-7-[2-(2-Amino-4-thiazolyl)glyoxylamido]-8-oxo-3-vinyl-5-thia-1-azabicyclo [4.2.0] oct-2-ene-2-carboxylic acid, 7-[2-(Z)-O-(carboxy methyl) oxime] trihydrate.

Molecular weight = 507.50 as the trihydrate. Chemical Formula is C_{16}H_{15}N_{5}O_{7}S_{2}H_{2}O

The structural formula for cefixime is:

- Inactive ingredients contained in SUPRAX (cefixime) 400 mg tablets USP are: dibasic calcium
Mechanism of Action
12.4 Microbiology
profiles as subjects with creatinine clearances of 21 to 60 mL/min. The study indicated that with doses of 400 mg, patients undergoing hemodialysis have similar blood concentrations occur between 3 and 8 hours following oral administration of a single 200 mg capsule. Peak serum concentrations occur between 2 and 6 hours following oral administration of a single 200 mg tablet, a single 400 mg tablet or 400 mg of cefixime suspension. Peak serum concentrations occur between 2 and 5 hours following a single administration of 200 mg of suspension. Peak serum concentrations occur between 3 and 8 hours following oral administration of a single 400 mg capsule. Distribution
Serum protein binding is concentration independent with a bound fraction of approximately 65%. In a multiple dose study conducted with a research formulation which is less bioavailable than the tablet or suspension, there was little accumulation of drug in serum or urine after dosing for 14 days. Adequate data on CSF levels of cefixime are not available. Metabolism and Excretion
There is no evidence of metabolism of cefixime in vivo. Approximately 50% of the absorbed dose is excreted unchanged in the urine in 24 hours. In animal studies, it was noted that cefixime is also excreted in the bile in excess of 10% of the administered dose. The serum half-life of cefixime in healthy subjects is independent of dosage form and averages 3 to 4 hours but may range up to 9 hours in some normal volunteers. Special Populations
Geriatrics: Average AUCs at steady state in elderly patients are approximately 40% higher than average AUCs in other healthy adults. Differences in the pharmacokinetic parameters between 12 young and 12 elderly subjects who received 400 mg of cefixime once daily for 5 days are summarized as follows:

| Pharmacokinetic Parameters (mean ± SD) for Cefixime in Both Young & Elderly Subjects |
|----------------|----------------|----------------|
| Pharmacokinetic parameter | Young | Elderly |
| C max (mg/L) | 4.74 ± 1.43 | 5.68 ± 1.83 |
| T max (h) * | 3.9 ± 0.3 | 4.3 ± 0.6 |
| AUC (mg.h/L) * | 34.9 ± 12.2 | 49.5 ± 19.1 |
| T ½ (h) * | 3.5 ± 0.6 | 4.2 ± 0.4 |
| C ave (mg/L) * | 1.42 ±0.50 | 1.99 ± 0.75 |

* Difference between age groups was significant. (p<0.05)

However, these increases were not clinically significant [see Dosage and Administration (2)]. Renal Impairment: In subjects with moderate impairment of renal function (20 to 40 mL/min creatinine clearance), the average serum half-life of cefixime is prolonged to 6.4 hours. In severe renal impairment (5 to 20 mL/min creatinine clearance), the half-life increased to an average of 11.5 hours. The drug is not cleared significantly from the blood by hemodialysis or peritoneal dialysis. However, a study indicated that with doses of 400 mg, patients undergoing hemodialysis have similar blood profiles as subjects with creatinine clearances of 21 to 60 mL/min.

12.4 Microbiology

Mechanism of Action
As with other cephalosporins, the bactericidal action of cefixime results from inhibition of cell wall synthesis. Cefixime is stable in the presence of certain beta-lactamase enzymes. As a result, certain organisms resistant to penicillins and some cephalosporins due to the presence of beta-lactamases may be susceptible to cefixime.

### Resistance

Resistance to cefixime in isolates of *Haemophilus influenzae* and *Neisseria gonorrhoeae* is most often associated with alterations in penicillin-binding proteins (PBPs). Cefixime may have limited activity against Enterobacteriaceae producing extended spectrum beta-lactamases (ESBLs). *Pseudomonas* species, *Enterococcus* species, strains of Group D streptococci, *Listeria monocytogenes*, most strains of staphylococci (including methicillin-resistant strains), most strains of *Enterobacter* species, most strains of *Bacteroides fragilis*, and most strains of *Clostridium* species are resistant to cefixime.

### Antimicrobial Activity

Cefixime 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**

- *Streptococcus pneumoniae*
- *Streptococcus pyogenes*

**Gram-negative Bacteria**

- *Escherichia coli*
- *Haemophilus influenzae*
- *Moraxella catarrhalis*
- *Neisseria gonorrhoeae*
- *Proteus mirabilis*

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* minimum inhibitory concentration (MIC) less than or equal to the susceptible breakpoint for cefixime against isolates of similar genus or organism group. However, the efficacy of cefixime in treating clinical infections caused by these bacteria has not been established in adequate and well-controlled clinical trials.

**Gram-positive Bacteria**

- *Streptococcus agalactiae*

**Gram-negative Bacteria**

- *Citrobacter amalonaticus*
- *Citrobacter diversus*
- *Haemophilus parainfluenzae*
- *Klebsiella oxytoca*
- *Klebsiella pneumoniae*
- *Pasteurella multocida*
- *Proteus vulgaris*
- *Providencia* species
- *Salmonella* species
- *Serratia marcescens*
- *Shigella* species

**Susceptibility Test Methods**

When available, the clinical microbiology laboratory should provide cumulative reports of *in vitro* susceptibility test results for antimicrobial drugs used in local hospitals and practice areas as periodic reports that describe the susceptibility profile of nosocomial and community-acquired pathogens. These reports should aid the physician in selecting an antibacterial drug for treatment.

**Dilution Techniques**

Quantitative methods are used to determine antimicrobial MICs. These MICs provide estimates of the susceptibility of bacteria to antimicrobial compounds. The MICs should be determined using a standardized test method [1,2](broth and/or agar). The MIC values should be interpreted according to criteria provided in Table 3.

**Diffusion Techniques**

Quantitative methods that require measurement of zone diameters can also provide reproducible estimates of the susceptibility of bacteria to antimicrobial compounds. The zone size should be determined using a standardized test method [2,3]. This procedure uses paper disks impregnated with 5 mcg cefixime to test the susceptibility of bacteria to cefixime. The disk diffusion breakpoints are provided in Table 3.

### Table 3: Susceptibility Interpretive Criteria for Cefixime

<table>
<thead>
<tr>
<th>Pathogen</th>
<th>Minimum Inhibitory Concentrations (mcg/mL)</th>
<th>Disk Diffusion Zone Diameters (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S</td>
<td>I</td>
</tr>
<tr>
<td><em>Enterobacteriaceae</em></td>
<td>≤1</td>
<td>2</td>
</tr>
<tr>
<td><em>Haemophilus influenzae</em></td>
<td>≤1</td>
<td>NA</td>
</tr>
<tr>
<td><em>Neisseria gonorrhoeae</em></td>
<td>≤0.25</td>
<td>NA</td>
</tr>
</tbody>
</table>
A report of Susceptible (S) indicates that the antimicrobial drug is likely to inhibit growth of the pathogen if the antimicrobial drug reaches the concentration usually achievable at the site of infection. A report of Intermediate (I) indicates that the result should be considered equivocal, and, if the microorganism is not fully susceptible to alternative, clinically feasible drugs, the test should be repeated. This category implies possible clinical applicability in body sites where the drug is physiologically concentrated or in situations where a high dosage of the drug can be used. This category also provides a buffer zone that prevents small uncontrolled technical factors from causing major discrepancies in interpretation. A report of Resistant (R) indicates that the antimicrobial drug is not likely to inhibit growth of the pathogen if the antimicrobial drug reaches the concentration usually achievable at the infection site; other therapy should be selected.

**Quality Control:**

Standardized susceptibility test procedures require the use of laboratory controls to monitor and ensure the accuracy and precision of supplies and reagents used in the assay, and the techniques of the individuals performing the test. 1,2,3 Standard cefixime powder should provide the following range of MIC values noted in Table 4. For the diffusion technique using the 5 mcg disk, the criteria in Table 4 should be achieved.

### Table 4: Acceptable Quality Control Ranges for Cefixime

<table>
<thead>
<tr>
<th>Quality Control Organisms</th>
<th>Minimum Inhibitory Concentrations (mcg/mL)</th>
<th>Disk Diffusion Zone Diameters (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E. coli ATCC 25922</td>
<td>0.25 to 1</td>
<td>23 to 27</td>
</tr>
<tr>
<td>H. influenzae ATCC 49247</td>
<td>0.12 to 1</td>
<td>25 to 33</td>
</tr>
<tr>
<td>N. gonorrhoeae ATCC 49226</td>
<td>0.004 to 0.03</td>
<td>37 to 45</td>
</tr>
<tr>
<td>S. pneumoniae ATCC 49619</td>
<td>NA</td>
<td>16 to 23</td>
</tr>
<tr>
<td>S. aureus ATCC 29213</td>
<td>8 to 32</td>
<td>NA</td>
</tr>
</tbody>
</table>

ATCC = American Type Culture Collection

### 13 NONCLINICAL TOXICOLOGY

#### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Lifetime studies in animals to evaluate carcinogenic potential have not been conducted. Cefixime did not cause point mutations in bacteria or mammalian cells, DNA damage, or chromosome damage *in vitro* and did not exhibit clastogenic potential *in vivo* in the mouse micronucleus test. In rats, fertility and reproductive performance were not affected by cefixime at doses up to 25 times the adult therapeutic dose.

### 14 CLINICAL STUDIES

Comparative clinical trials of otitis media were conducted in nearly 400 children between the ages of 6 months to 10 years. *Streptococcus pneumoniae* was isolated from 47% of the patients, *Haemophilus influenzae* from 34%, *Moraxella catarrhalis* from 15% and *S. pyogenes* from 4%.

The overall response rate of *Streptococcus pneumoniae* to cefixime was approximately 10% lower and that of *Haemophilus influenzae* or *Moraxella catarrhalis* approximately 7% higher (12% when beta-lactamase positive isolates of *H. influenzae* are included) than the response rates of these organisms to the active control drugs.

In these studies, patients were randomized and treated with either cefixime at dose regimens of 4 mg/kg twice a day or 8 mg/kg once a day, or with a comparator. Sixty-nine to 70% of the patients in each group had resolution of signs and symptoms of otitis media when evaluated 2 to 4 weeks post-treatment, but persistent effusion was found in 15% of the patients. When evaluated at the completion of therapy, 17% of patients receiving cefixime and 14% of patients receiving effective comparative drugs (18% including those patients who had *Haemophilus influenzae* resistant to the control drug and who received the control antibacterial drug) were considered to be treatment failures. By the 2 to 4 week follow-up, a total of 30%-51% of patients had evidence of either treatment failure or recurrent disease.

#### Bacteriological Outcome of Otitis Media at Two to Four Weeks Post-Therapy Based on Repeat Middle Ear Fluid Culture or Extrapolation from Clinical Outcome

<table>
<thead>
<tr>
<th>Organism</th>
<th>Cefixime(a)</th>
<th>Cefixime(a)</th>
<th>Control(a)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4 mg/kg BID</td>
<td>8 mg/kg QD</td>
<td>drugs</td>
</tr>
<tr>
<td><em>Streptococcus pneumoniae</em></td>
<td>48/70 (69%)</td>
<td>18/22 (82%)</td>
<td>82/100 (82%)</td>
</tr>
<tr>
<td><em>Haemophilus influenzae</em></td>
<td>24/34 (71%)</td>
<td>13/17 (76%)</td>
<td>23/34 (68%)</td>
</tr>
<tr>
<td>Beta-lactamase negative</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Haemophilus influenzae</em></td>
<td>17/22 (77%)</td>
<td>9/12 (75%)</td>
<td>1/1 (b)</td>
</tr>
<tr>
<td>Beta-lactamase positive</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Moraxella catarrhalis</em></td>
<td>26/31 (84%)</td>
<td>5/5</td>
<td>18/24 (75%)</td>
</tr>
<tr>
<td><em>S. pyogenes</em></td>
<td>5/5</td>
<td>3/3</td>
<td>6/7</td>
</tr>
<tr>
<td>All Isolates</td>
<td>120/162 (74%)</td>
<td>48/59 (81%)</td>
<td>130/166 (78%)</td>
</tr>
</tbody>
</table>

(a) Number eradicated/number isolated.

(b) An additional 20 beta-lactamase positive isolates of *Haemophilus influenzae* were isolated, but were excluded from this analysis because they were resistant to the control antibacterial drug. In nineteen of these, the clinical course could be assessed and a favorable outcome occurred in 10. When these cases are included in the overall bacteriological evaluation of therapy with the control drugs, 140/185 (76%) of pathogens were considered to be eradicated.

### 15 REFERENCES

16 HOW SUPPLIED/STORAGE AND HANDLING

SUPRAX® is available for oral administration in following dosage forms, strengths and packages listed in the table below:

<table>
<thead>
<tr>
<th>Dosage Form</th>
<th>Strength</th>
<th>Description</th>
<th>Package Size</th>
<th>NDC Code</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SUPRAX® (cefixime) tablets USP</strong></td>
<td>400 mg</td>
<td>White to off-white, film-coated, capsule shaped tablets with beveled edges and a divided score line on each side, debossed with “SUPRAX” across one side and “LUPIN” across other side, containing 400 mg of cefixime as the trihydrate.</td>
<td>Bottles of 10 tablets</td>
<td>27437-201-10</td>
<td>Store at 20 to 25°C (68 to 77°F) [See USP Controlled Room Temperature].</td>
</tr>
<tr>
<td><strong>SUPRAX® (cefixime) capsules</strong></td>
<td>400 mg</td>
<td>Size “00EL” capsules with pink opaque cap and pink opaque body, imprinted with “LU” on cap and “U43” on body in black ink, containing white to yellowish white granular powder containing 400 mg of cefixime as the trihydrate.</td>
<td>Bottle of 50 capsules</td>
<td>27437-208-08</td>
<td>Store at 20 to 25°C (68 to 77°F) [See USP Controlled Room Temperature].</td>
</tr>
<tr>
<td><strong>SUPRAX® (cefixime) chewable tablets</strong></td>
<td>100 mg</td>
<td>Pink, round tablet, debossed with “SUPRAX 100&quot; on one side and “LUPIN&quot; on other side.</td>
<td>Bottles of 50 tablets</td>
<td>27437-203-08</td>
<td></td>
</tr>
<tr>
<td><strong>SUPRAX® (cefixime) chewable tablets</strong></td>
<td>150 mg</td>
<td>Pink, round tablet, debossed with “SUPRAX 150” on one side and “LUPIN” on other side.</td>
<td>Bottles of 50 tablets</td>
<td>27437-204-08</td>
<td>Store at 20 to 25°C (68 to 77°F) [See USP Controlled Room Temperature].</td>
</tr>
<tr>
<td><strong>SUPRAX® (cefixime) chewable tablets</strong></td>
<td>200 mg</td>
<td>Pink, round tablet, debossed with “SUPRAX 200” on one side and “LUPIN” on other side.</td>
<td>Bottles of 50 tablets</td>
<td>27437-205-08</td>
<td></td>
</tr>
<tr>
<td><strong>SUPRAX® USP</strong></td>
<td>100 mg/5 mL</td>
<td>Off-white to pale yellow colored powder. After reconstituted as directed, each 5 mL of reconstituted suspension contains 100 mg of cefixime as the trihydrate.</td>
<td>Bottle of 50 mL</td>
<td>68180-202-03</td>
<td></td>
</tr>
<tr>
<td><strong>SUPRAX® USP</strong></td>
<td>100 mg/5 mL</td>
<td>Off-white to pale yellow colored powder. After reconstituted as directed, each 5 mL of reconstituted suspension contains 100 mg of cefixime as the trihydrate.</td>
<td>Bottle of 75 mL</td>
<td>68180-202-02</td>
<td></td>
</tr>
<tr>
<td><strong>SUPRAX® USP</strong></td>
<td>100 mg/5 mL</td>
<td>Off-white to pale yellow colored powder. After reconstituted as directed, each 5 mL of reconstituted suspension contains 100 mg of cefixime as the trihydrate.</td>
<td>Bottle of 100 mL</td>
<td>68180-202-01</td>
<td></td>
</tr>
<tr>
<td><strong>SUPRAX® USP</strong></td>
<td>100 mg/5 mL</td>
<td>Off-white to pale yellow colored powder. After reconstituted as directed, each 5 mL of reconstituted suspension contains 100 mg of cefixime as the trihydrate.</td>
<td>Bottle of 25 mL</td>
<td>27437-205-06</td>
<td></td>
</tr>
<tr>
<td><strong>SUPRAX® USP</strong></td>
<td>100 mg/5 mL</td>
<td>Off-white to pale yellow colored powder. After reconstituted as directed, each 5 mL of reconstituted suspension contains 100 mg of cefixime as the trihydrate.</td>
<td>Bottle of 37.5 mL</td>
<td>27437-206-05</td>
<td></td>
</tr>
</tbody>
</table>
| **SUPRAX® USP** | 100 mg/5 mL | Off-white to pale yellow colored powder. After reconstituted as directed, each 5 mL of reconstituted suspension contains 100 mg of cefixime as the trihydrate. | Bottle of 75 mL | 27437-206-06 | Prior to reconstitution Store drug powder at
**SUPRAX® (cefixime) for oral suspension USP**

<table>
<thead>
<tr>
<th>Strength</th>
<th>Description</th>
<th>Bottle Size</th>
<th>NDC Code</th>
<th>Storage Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 mg/5 mL</td>
<td>Off-white to pale yellow colored powder. After reconstituted as directed, each 5 mL of reconstituted suspension contains 200 mg of cefixime as the trihydrate.</td>
<td>Bottle of 50 mL</td>
<td>27437-206-03</td>
<td>20 to 25°C (68 to 77°F) [See USP Controlled Room Temperature].</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bottle of 75 mL</td>
<td>27437-206-02</td>
<td>After reconstitution: Store at room temperature or under refrigeration.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bottle of 100 mL</td>
<td>27437-206-01</td>
<td>Keep tightly closed.</td>
</tr>
<tr>
<td>500 mg/5 mL</td>
<td>Off-white to cream colored powder forming off-white to pale yellow suspension with characteristic fruity odor on constitution. After reconstituted as directed, each mL of reconstituted suspension contains 100 mg of cefixime as the trihydrate.</td>
<td>Bottle of 10 mL</td>
<td>27437-207-02</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bottle of 20 mL</td>
<td>27437-207-03</td>
<td></td>
</tr>
</tbody>
</table>

**17 PATIENT COUNSELING INFORMATION**

**17.1 Information for Patients**

Counsel patients that antibacterial drugs, including cefixime, should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When cefixime is prescribed to treat a bacterial infection, patients should be told that although it is common to feel better early in the course of therapy, the medication should be taken exactly as directed. Skipping 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 cefixime for oral suspension or cefixime chewable tablets or other antibacterial drugs in the future.

Counsel patients with phenylketonuria that SUPRAX chewable tablets contain aspartame, a source of phenylalanine as follows: Each SUPRAX chewable tablet contains 3.3 mg, 5 mg and 6.7 mg of phenylalanine per 100 mg, 150 mg and 200 mg strength, respectively.

Advise patients that diarrhea is a common problem caused by antibacterial drugs which usually ends when the antibacterial drug is discontinued. Sometimes after starting treatment with antibacterial drugs, 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.

**Products**

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Manufacturer</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPRAX® (cefixime) tablets, 400 mg</td>
<td>Lupin Pharma</td>
<td>Baltimore, Maryland 21202</td>
</tr>
<tr>
<td>SUPRAX® (cefixime) capsules, 400 mg</td>
<td>Lupin Limited</td>
<td>United States.</td>
</tr>
<tr>
<td>SUPRAX® (cefixime) chewable tablets, 100 mg, 150 mg and 200 mg</td>
<td>United States.</td>
<td>Mandideep 462 046</td>
</tr>
<tr>
<td>SUPRAX® (cefixime) for oral suspension, 200 mg/5 mL</td>
<td>Lupin Pharmaceuticals, Inc.</td>
<td>Baltimore, Maryland 21202</td>
</tr>
<tr>
<td>SUPRAX® (cefixime) for oral suspension, 500 mg/5 mL</td>
<td>Lupin Pharmaceuticals, Inc.</td>
<td>United States.</td>
</tr>
<tr>
<td>SUPRAX® (cefixime) for oral suspension, 100 mg/5 mL</td>
<td>Lupin Pharmaceuticals, Inc.</td>
<td>Baltimore, Maryland 21202</td>
</tr>
</tbody>
</table>

**Principal Display Panel**

NDC: 70934-079-01

**SUPRAX**

cefixime capsule

**Product Information**

| Item Code (Source) | NDC:70934-079(NDC:27437-208) |

| Route of Administration | ORAL |

**Active Ingredient/Active Moiety**

| Ingredient Name | Basis of Strength | Strength |
### Inactive Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>CROSPovidone (UNII: 68401950MB)</td>
<td></td>
</tr>
<tr>
<td>Ferric Oxide Red (UNII: 1K16F3G675)</td>
<td></td>
</tr>
<tr>
<td>Ferric Oxide (UNII: XM0M7I357)</td>
<td></td>
</tr>
<tr>
<td>Gelatin (UNII: 1G16F3G675)</td>
<td></td>
</tr>
<tr>
<td>Ferrorferric Oxide (UNII: XM0M87F357)</td>
<td></td>
</tr>
<tr>
<td>Hydroxypropyl Cellulose, Low Substituted (UNII: 2165RE0K14)</td>
<td></td>
</tr>
<tr>
<td>Magnesium Stearate (UNII: 70097M6I30)</td>
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<tr>
<td>Mannitol (UNII: 3OWL53L36A)</td>
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<tr>
<td>Potassium Hydroxide (UNII: WZH3C48M4T)</td>
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<td>Propylene Glycol (UNII: 6DC9Q167V3)</td>
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<tr>
<td>Shellac (UNII: 46N107B71O)</td>
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<tr>
<td>Silicon Dioxide (UNII: 3OWL53L36A)</td>
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</tr>
<tr>
<td>Sodium Lauryl Sulfate (UNII: 368GB5141J)</td>
<td></td>
</tr>
<tr>
<td>Titanium Dioxide (UNII: 5FCXCVV7X)</td>
<td></td>
</tr>
</tbody>
</table>

### Product Characteristics

- **Color**: pink (Pink Opaque Cap), pink (Pink Opaque Body)
- **Score**: no score
- **Shape**: CAPSULE
- **Size**: 26mm
- **Flavor**: Imprint Code: LU;U43

### Packaging

<table>
<thead>
<tr>
<th>#</th>
<th>Item Code</th>
<th>Package Description</th>
<th>Marketing Start Date</th>
<th>Marketing End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NDC:70934-079-01</td>
<td>1 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product</td>
<td>02/09/2018</td>
<td></td>
</tr>
</tbody>
</table>

### Marketing Information

- **Marketing Category**: NDA
- **Application Number or Monograph Citation**: NDA203195
- **Marketing Start Date**: 02/09/2018
- **Marketing End Date**: |

### Labeler
- Denton Pharma, Inc. DBA Northwind Pharmaceuticals (080355546)

### Registrant
- Denton Pharma, Inc. DBA Northwind Pharmaceuticals (080355546)

### Establishment

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>ID/FEI</th>
<th>Business Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Denton Pharma, Inc. DBA Northwind Pharmaceuticals</td>
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Revised: 12/2019