



ithromycin. This hepatic dysfunction may be severe and is usually reversible. In very rare instances, hepatic failure with fatal outcome has been reported and generally has been associated with serious underlying diseases and/or concomitant medications.

There have been rare reports of hypocalcemia, some of which have occurred in patients taking oral hypoglycemic agents or insulin.

As with other macrolides, clarithromycin has been associated with QT prolongation and ventricular arrhythmias, including ventricular tachycardia and torsades de pointes. There have been reports of interstitial nephritis coincident with clarithromycin use.

There have been postmarketing reports of colchicine toxicity with concomitant use of clarithromycin and colchicine, especially in the elderly, some of which occurred in patients with renal insufficiency. Deaths have been reported in some such patients (see **WARNINGS and PRECAUTIONS**).

**Changes in Laboratory Values:** Changes in laboratory values with possible clinical significance were as follows:

Hepatic - elevated SGPT (ALT) < 1%, SGOT (AST) < 1%, GGT < 1%; alkaline phosphatase < 1%; LDH < 1%; total bilirubin < 1%  
Hematologic - decreased WBC < 1%; elevated prothrombin time 1%  
Renal - elevated BUN 4%; elevated serum creatinine < 1% GGT, alkaline phosphatase, and prothrombin time data are from adult studies only.

**OVERDOSAGE**  
Overdosage of clarithromycin can cause gastrointestinal symptoms such as abdominal pain, vomiting, nausea, and diarrhea.

Adverse reactions accompanying overdosage should be treated by the prompt elimination of unabsorbed drug and supportive measures. As with other macrolides, clarithromycin serum concentrations are not expected to be appreciably affected by hemodialysis or peritoneal dialysis.

**DOSE AND ADMINISTRATION**  
Clarithromycin immediate-release tablets and clarithromycin for oral suspension may be given with or without food.

Infection	ADULT DOSAGE GUIDELINES	
	Clarithromycin Immediate-Release Tablets	Duration (days)
Pharyngitis/Tonsillitis due to <i>S. pyogenes</i>	250mg	10
Acute maxillary sinusitis due to <i>H. influenzae</i> , <i>M. catarrhalis</i> , <i>S. pneumoniae</i>	500 mg	14
Acute exacerbation of chronic bronchitis due to <i>H. influenzae</i> , <i>H. parainfluenzae</i> , <i>M. catarrhalis</i> , <i>S. pneumoniae</i>	500 mg 500 mg 250 mg 250 mg	7 to 14 7 to 14 7 to 14 7 to 14
Community-Acquired Pneumonia due to <i>H. influenzae</i> , <i>H. parainfluenzae</i> , <i>M. catarrhalis</i> , <i>S. pneumoniae</i> , <i>C. pneumoniae</i> , <i>M. pneumoniae</i>	250 mg 250 mg 250 mg 250 mg	7 7 7 to 14 7 to 14
Uncomplicated skin and skin structure	250 mg	7 to 14
<i>S. aureus</i> , <i>S. pyogenes</i>		

*H. pylori* Eradication to Reduce the Risk of Duodenal Ulcer Recurrence  
Triple therapy: clarithromycin/ lansoprazole/amoxicillin

The recommended adult dose is 500 mg clarithromycin, 30 mg lansoprazole, and 1 gram amoxicillin, all given twice daily (q12h) for 10 or 14 days. (See **INDICATIONS AND USAGE and CLINICAL STUDIES** sections.)

Triple therapy: clarithromycin/omeprazole/amoxicillin  
The recommended adult dose is 500 mg clarithromycin, 20 mg omeprazole, and 1 gram amoxicillin, all given twice daily (q12h) for 10 days. (See **INDICATIONS AND USAGE and CLINICAL STUDIES** sections.)

Quadruple therapy: clarithromycin/omeprazole/amoxicillin/ranitidine bismuth citrate  
The recommended adult dose is 500 mg clarithromycin given twice daily (q12h) or three times daily (q8h) and 400 mg omeprazole given once daily (qAM) for 14 days. (See **INDICATIONS AND USAGE and CLINICAL STUDIES** sections.)

Quadruple therapy: clarithromycin/ranitidine bismuth citrate  
The recommended adult dose is 500 mg clarithromycin given twice daily (q12h) or three times daily (q8h) and 400 mg ranitidine bismuth citrate given twice daily (q12h) for 14 days. An additional 14 days of 400 mg twice daily is recommended for ulcer healing and symptom relief. Clarithromycin and ranitidine bismuth citrate combination therapy is not recommended in patients with creatinine clearance less than 25 mL/min. (See **INDICATIONS AND USAGE and CLINICAL STUDIES** sections.)

Children - The usual recommended daily dosage is 15 mg/kg/day divided q12h for 10 days.

PEDIATRIC DOSAGE GUIDELINES				
Based on Body Weight				
Weight		Dosing Calculated on 7.5 mg/kg q12h		
kg	lbs	125 mg/5 mL	250 mg/5 mL	
9	20	62.5 mg	2.5 mL q12h	1.25 mL q12h
17	37	125 mg	5 mL q12h	2.5 mL q12h
25	55	187.5 mg	7.5 mL q12h	3.75 mL q12h
33	73	250 mg	10 mL q12h	5 mL q12h

Clarithromycin may be administered without dosage adjustment in the presence of hepatic impairment if there is normal renal function. However, in the presence of severe renal impairment (CrCl < 30 mL/min), with or without coexisting hepatic impairment, the dose should be halved or the dosing interval doubled.

**Mycobacterial Infections:**  
**Prophylaxis:** The recommended dose of clarithromycin for the prevention of disseminated *Mycobacterium avium* disease is 500 mg b.i.d. In children, the recommended dose is 7.5 mg/kg b.i.d. up to 500 mg b.i.d. No studies of clarithromycin for MAC prophylaxis have been performed in pediatric populations and the doses recommended for prophylaxis are derived from MAC treatment studies in children. Dosing recommendations for children are in the table above.

**Treatment:** Clarithromycin is recommended as the primary agent for the treatment of disseminated infection due to *Mycobacterium avium* complex. Clarithromycin should be used in combination with other antimycobacterial drugs that have shown *in vitro* activity against MAC or clinical benefit in MAC treatment. (See **CLINICAL STUDIES**.) The recommended dose for mycobacterial infections in adults is 500 mg b.i.d. In children, the recommended dose is 7.5 mg/kg b.i.d. up to 500 mg b.i.d. Dosing recommendations for children are in the table above.

Clarithromycin therapy should continue for life if clinical and mycobacterial improvements are observed.

**Constituting Instructions**  
The table below indicates the volume of water to be added when constituting.

Total volume after constitution	Clarithromycin concentration after constitution	Amount of water to be added*
50 mL	125 mg/5 mL	32 mL
100 mL	125 mg/5 mL	64 mL
50 mL	250 mg/5 mL	32 mL
100 mL	250 mg/5 mL	64 mL

\*See instructions below.  
Add half the volume of water to the bottle and shake vigorously. Add the remainder of water to the bottle and shake.

Shake well before each use. Oversize bottle provides shake space. Keep tightly closed. Do not refrigerate. After mixing, store at 20 - 25° C (68 - 77° F) (see USP Controlled Room Temperature) and use within 14 days.

**HOW SUPPLIED**  
Clarithromycin Tablets, USP 250 mg and 500 mg are light yellow, capsule shaped, biconvex, film coated tablets. They are supplied as follows:  
**250 mg tablets:** are printed in black ink with "RX 725" on one side and plain on the other side. They are supplied as follows:  
NDC 63304-725-82 Bottles of 12  
NDC 63304-725-05 Bottles of 50  
NDC 63304-725-77 Blister unit-dose of 100 (10 x 10)

**500 mg tablets:** are printed in black ink with "RX 726" on one side and plain on the other side. They are supplied as follows:  
NDC 63304-726-82 Bottles of 12  
NDC 63304-726-05 Bottles of 50  
NDC 63304-726-77 Blister unit-dose of 100 (10 x 10)

Store at 20 - 25° C (68 - 77° F) (see USP Controlled Room Temperature) in a well closed container.

Clarithromycin For Oral Suspension, USP is a white to off-white granular powder forming white to off-white suspension on constitution with water. The resulting suspension has a sweet taste and fruity flavor. They are supplied as follows:

125 mg/5 mL	50 mL Bottles
NDC 63304-821-03	50 mL Bottles
NDC 63304-821-04	100 mL Bottles

250 mg/5 mL	50 mL Bottles
NDC 63304-822-03	50 mL Bottles
NDC 63304-822-04	100 mL Bottles

Store clarithromycin for oral suspension at 20 - 25° C (68 - 77° F) (see USP Controlled Room Temperature) in a well closed container. Do not refrigerate clarithromycin for oral suspension.

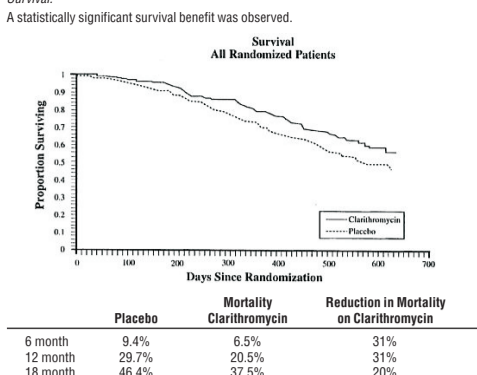
**CLINICAL STUDIES**  
**Mycobacterial Infections**  
**Prophylaxis:**

A randomized, double-blind study (561) compared clarithromycin 500 mg b.i.d. to placebo in patients with CDC-defined AIDS and CD<sub>4</sub> counts < 100 cells/μL. This study accrued 682 patients from November 1992 to January 1994, with a median CD<sub>4</sub> cell count at study entry of 30 cells/μL. Median duration of clarithromycin was 10.6 months vs. 8.2 months for placebo. More patients in the placebo arm than the clarithromycin arm discontinued prematurely from the study (75.6% and 67.4%, respectively). However, if premature discontinuations due to MAC or death are excluded, approximately equal percentages of patients on each arm (54.8% on clarithromycin and 52.5% on placebo) discontinued study drug early for other reasons. The study was designed to evaluate the following endpoints:

1. MAC bacteremia, defined as at least one positive culture for *M. avium* complex bacteria from blood or another normally sterile site.
2. Survival.
3. Clinically significant disseminated MAC disease, defined as MAC bacteremia accompanied by signs or symptoms of serious MAC infection, including fever, night sweats, weight loss, anemia, or elevations in liver function tests.

**MAC Bacteremia:**  
In patients randomized to clarithromycin, the risk of MAC bacteremia was reduced by 69% compared to placebo. The difference between groups was statistically significant (p < 0.001). On an intent-to-treat basis, the one-year cumulative incidence of MAC bacteremia was 5% for patients randomized to clarithromycin and 19.4% for patients randomized to placebo. While only 19 of the 341 patients randomized to clarithromycin developed MAC, 11 of these cases were resistant to clarithromycin. The patients with resistant MAC bacteremia had a median baseline CD<sub>4</sub> count of 10 cells/mm<sup>3</sup> (range 2 to 25 cells/mm<sup>3</sup>). Information regarding the clinical course and response to treatment of the patients with resistant MAC bacteremia is limited. The 8 patients who received clarithromycin and developed susceptible MAC bacteremia had a median baseline CD<sub>4</sub> count of 25 cells/mm<sup>3</sup> (range 10 to 80 cells/mm<sup>3</sup>). Comparatively, 53 of the 341 placebo patients developed MAC, none of these isolates were resistant to clarithromycin. The median baseline CD<sub>4</sub> count was 15 cells/mm<sup>3</sup> (range 2 to 130 cells/mm<sup>3</sup>) for

placebo patients that developed MAC.  
**Survival:**  
A statistically significant survival benefit was observed.



Since the analysis at 18 months includes patients no longer receiving prophylaxis the survival benefit of clarithromycin may be underestimated.

**Clinically significant disseminated MAC disease:**  
In association with the decreased incidence of bacteremia, patients in the group randomized to clarithromycin showed reductions in the signs and symptoms of disseminated MAC disease, including fever, night sweats, weight loss, and anemia.

In AIDS patients treated with clarithromycin over long periods of time for prophylaxis against *M. avium*, it was often difficult to distinguish adverse events possibly associated with clarithromycin administration from underlying HIV disease or intercurrent illness. Median duration of treatment was 10.6 months for the clarithromycin group and 8.2 months for the placebo group.

**Treatment-related Adverse Event Incidence Rates (% in Immunocompromised Adult Patients Receiving Prophylaxis Against M. avium Complex)**

Body System <sup>1</sup> Adverse Event	Clarithromycin (n = 338) %	Placebo (n = 339) %
Body as a Whole		
Abdominal pain	5%	3.5%
Headache	2.7%	0.9%
Digestive		
Diarrhea	7.7%	4.1%
Dyspepsia	3.8%	2.7%
Flatulence	2.4%	0.9%
Nausea	11.2%	7.1%
Vomiting	5.9%	3.2%
Skin & Appendages		
Rash	3.2%	3.5%
Special Senses		
Taste Perversion	8%	0.3%

<sup>1</sup> Includes those events possibly or probably related to study drug and excludes concurrent conditions.  
<sup>2</sup> > 2% Adverse Event Incidence Rates for either treatment group.

Among these events, taste perversion was the only event that had significantly higher incidence in the clarithromycin-treated group compared to the placebo-treated group.

Discontinuation due to adverse events was required in 18% of patients receiving clarithromycin compared to 17% of patients receiving placebo in this trial. Primary reasons for discontinuation in clarithromycin treated patients include headache, nausea, vomiting, depression and taste perversion.

**Changes in Laboratory Values of Potential Clinical Importance:**  
In immunocompromised patients receiving prophylaxis against *M. avium*, evaluations of laboratory values were made by analyzing those values outside the seriously abnormal value (i.e., the extreme high or low limit) for the specified test.

**Percentage of Patients<sup>1</sup> Exceeding Extreme Laboratory Value in Patients Receiving Prophylaxis Against M. avium Complex**

Parameter	Clarithromycin 500 mg b.i.d.	Placebo
Hemoglobin < 8 g/dL	4/118 3%	5/103 5%
Platelet Count < 50 x 10 <sup>9</sup> /L	11/249 4%	12/250 5%
WBC Count < 1 x 10 <sup>9</sup> /L	2/103 4%	0/95 0%
SGOT > 5 x ULN <sup>2</sup>	7/196 4%	5/208 2%
SGPT > 5 x ULN <sup>2</sup>	6/217 3%	4/222 2%
Alk. Phos. > 5 x ULN <sup>2</sup>	5/220 2%	6/218 3%

(a) Includes only patients with baseline values within the normal range or borderline high (hematology variables) and within the normal range or borderline low (chemistry variables).  
(b) ULN = Upper Limit of Normal

**Treatment:**  
Three randomized studies (500, 577, and 521) compared different dosages of clarithromycin in patients with CD<sub>4</sub>-clarified AIDS and CD<sub>4</sub> counts < 100 cells/μL. These studies accrued patients from May 1991 to March 1992. Study 500 was randomized, double-blind. Study 577 was open-label compassionate use. Both studies used 500 and 1000 mg b.i.d. doses. Study 500 also had a 2000 mg b.i.d. group. Study 521 was a pediatric study at 3.75, 7.5, and 15 mg/kg b.i.d. Study 500 enrolled 154 adult patients, Study 577 enrolled 468 adult patients, and Study 521 enrolled 25 patients between the ages of 1 to 20. The majority of patients had CD<sub>4</sub> cell counts < 50/μL at study entry. The studies were designed to evaluate the following endpoints:

1. Change in MAC bacteremia or blood cultures negative for *M. avium*.
2. Change in clinical signs and symptoms of MAC infection including one or more of the following: fever, night sweats, weight loss, diarrhea, splenomegaly, and hepatomegaly.

The results for the 500 study are described below. The 577 study results were similar to the results of the 500 study. Results with the 7.5 mg/kg b.i.d. dose in the pediatric study were comparable to those for the 500 mg b.i.d. regimen in the adult studies.

Study 069 compared the safety and efficacy of clarithromycin in combination with ethambutol versus clarithromycin in combination with ethambutol and clofazimine for the treatment of disseminated MAC (dMAC) infection.<sup>3</sup> This 24-week study enrolled 106 patients with AIDS and dMAC, with 55 patients randomized to receive clarithromycin and ethambutol, and 51 patients randomized to receive clarithromycin, ethambutol, and clofazimine. Baseline characteristics between study arms were similar with the exception of median CFU counts being at least 1 log higher in the clarithromycin, ethambutol, and clofazimine arm.

Compared to prior experience with clarithromycin monotherapy, the two-drug regimen of clarithromycin and ethambutol was well tolerated and extended the time to microbiologic relapse, largely through suppressing the emergence of clarithromycin resistant strains. However, the addition of clofazimine to the regimen did not provide additional microbiologic or clinical benefit. Tolerability of both multidrug regimens was comparable with the most common adverse events being gastrointestinal in nature. Patients receiving the clofazimine-containing regimen had reduced survival rates; however, their baseline mycobacterial colony counts were higher. The results of this trial support the addition of ethambutol to clarithromycin for the treatment of initial dMAC infections but do not support adding clofazimine as a third agent.

**MAC bacteremia:**  
Decreases in MAC bacteremia or negative blood cultures were seen in the majority of patients in all dose groups. Mean reductions in colony forming units (CFU) are shown below. Included in the table are results from a separate study with a four drug regimen<sup>4</sup> (ciprofloxacin, ethambutol, rifampin, and clofazimine). Since patient populations and study procedures may vary between these two studies, comparisons between the clarithromycin results and the combination therapy results should be interpreted cautiously.

Mean Reductions in Log CFU from Baseline (After 4 Weeks of Therapy)				
500 mg b.i.d. (N = 35)	1000 mg b.i.d. (N = 32)	2000 mg b.i.d. (N = 26)	Four Drug Regimen (N = 24)	
1.5	2.3	2.3	1.4	

Although the 1000 mg and 2000 mg b.i.d. doses showed significantly better control of bacteremia during the first four weeks of therapy, no significant differences were seen beyond that point. The percent of patients whose blood was sterilized as shown by one or more negative cultures at any time during acute therapy was 61% (30/49) for the 500 mg b.i.d. group and 59% (29/49) and 52% (26/48) for the 1000 and 2000 mg b.i.d. groups, respectively. The percent of patients who had 2 or more negative cultures during acute therapy that were sustained through study Day 84 was 25% (12/49) in both the 500 and 1000 mg b.i.d. groups and 5% (4/48) for the 2000 mg b.i.d. group. By Day 84, 23% (11/49), 37% (18/49), and 56% (27/48) of patients had died or discontinued from the study, and 14% (7/49), 12% (6/49), and 13% (6/48) of patients had relapsed in the 500, 1000, and 2000 mg b.i.d. dose groups, respectively. All of the isolates had an MIC < 8 mcg/mL at pretreatment. Relapse was almost always accompanied by an increase in MIC. The median time to first negative culture was 54, 41, and 23 days for the 500, 1000, and 2000 mg b.i.d. groups, respectively. The time to first decrease of at least 1 log in CFU count was significantly shorter with the 1000 and 2000 mg b.i.d. doses (median equal to 16 and 15 days, respectively) in comparison to the 500 mg b.i.d. group (median equal to 29 days). The median time to first positive culture or study discontinuation during the first negative culture was 43, 59 and 43 days for the 500, 1000, and 2000 mg b.i.d. groups, respectively.

**Clinically significant disseminated MAC Disease:**  
Among patients experiencing night sweats prior to therapy, 84% showed resolution or improvement at some point during the 12 weeks of clarithromycin at 500 to 2000 mg b.i.d. doses. Similarly, 77% of patients reported resolution or improvement in fevers at some point. Response rates for clinical signs of MAC are given below.

Resolution of Fever				Resolution of Night Sweats				
b.i.d. dose (mg)	% ever	% resolving ≥ 6 weeks	% resolving ≥ 6 weeks	b.i.d. dose (mg)	% ever	% resolving ≥ 6 weeks	% resolving ≥ 6 weeks	
500	67%	23%	500	85%	42%	500	87%	12%
1000	62%	22%	1000	70%	33%	1000	62%	22%
2000	62%	22%	2000	72%	36%	2000	62%	18%

The median duration of response, defined as improvement or resolution of clinical signs and symptoms, was 2 to 6 weeks.

Since the study was not designed to determine the benefit of monotherapy beyond 12 weeks, the duration of response may be underestimated for the 25 to 33% of patients who continued to show clinical response after 12 weeks.

**Survival:**  
Median survival time from study entry (Study 500) was 249 days at the 500 mg b.i.d. dose compared to 215 days with the 1000 mg b.i.d. dose. However, during the first 12 weeks of therapy, there were 2 deaths in 53 patients in the 500 mg b.i.d. group versus 13 deaths in 51 patients in the 1000 mg b.i.d. group. The reason for this apparent mortality difference is not known. Survival in the two groups was similar beyond 12 weeks. The median survival times for these dosages were similar to recent historical controls with MAC when treated with combination therapies.<sup>5</sup>

Median survival time from study entry in Study 577 was 199 days for the 500 mg b.i.d. dose and 179 days for the 1000 mg b.i.d. dose. During the first four weeks of therapy, while patients were maintained on their originally assigned dose, there were 11 deaths in 255 patients taking 500 mg b.i.d. and 18 deaths in 214 patients taking 1000 mg b.i.d.

**Safety:**  
The adverse event profiles showed that both the 500 and 1000 mg b.i.d. doses were well tolerated. The 2000 mg b.i.d. dose was poorly tolerated and resulted in a higher proportion of premature discontinuations.

In AIDS patients and other immunocompromised patients treated with the higher doses of clarithromycin over long periods of time for mycobacterial infections, it was often difficult to distinguish adverse events possibly associated with clarithromycin administration from underlying signs of HIV disease or intercurrent illness.

The following analyses summarize experience during the first 12 weeks of therapy with clarithromycin. Data are reported separately for Study 500 (randomized, double-blind) and Study

577 (open-label, compassionate use) and also combined. Adverse events were reported less frequently in Study 577, which may be due in part to differences in monitoring between the two studies. In adult patients receiving clarithromycin 500 mg b.i.d., the most frequently reported adverse events, considered possibly or probably related to study drug, with an incidence of 5% or greater, are listed below. Most of these events were mild to moderate in severity, although 5% (Study 500: 8%; Study 577: 4%) of patients receiving 500 mg b.i.d. and 5% (Study 500: 4%; Study 577: 6%) of patients receiving 1000 mg b.i.d. reported severe adverse events. Excluding those patients who discontinued therapy or died due to complications of their underlying non-mycobacterial disease, approximately 8% (Study 500: 15%; Study 577: 7%) of the patients who received 500 mg b.i.d. and 12% (Study 500: 14%; Study 577: 12%) of the patients who received 1000 mg b.i.d. discontinued therapy due to drug-related events during the first 12 weeks of therapy. Overall, the 500 and 1000 mg b.i.d. doses had similar adverse event profiles.

**Treatment-related Adverse Event Incidence Rates (% in Immunocompromised Adult Patients During the First 12 Weeks of Therapy with 500 mg b.i.d. Clarithromycin Dose)**

Adverse Event	Study 500 (n = 53)	Study 577 (n = 255)	Combined (n = 308)
Abdominal Pain	7.5	2.4	3.2
Diarrhea	9.4	1.6	2.9
Flatulence	7.5	0	1.3
Headache	< 1 x 10 <sup>9</sup> /L	0%	1%
Nausea	28.3	9	12.3
Rash	9.4	2	3.2
Taste Perversion	18.9	0.4	3.6
Vomiting	24.5	3.9	7.5

<sup>1</sup> Includes those events possibly or probably related to study drug and excludes concurrent conditions.

A limited number of pediatric AIDS patients have been treated with clarithromycin suspension for mycobacterial infections. The most frequently reported adverse events, excluding those due to the patient's concurrent condition, were consistent with those observed in adult patients.

**Changes in Laboratory Values:**  
In immunocompromised patients treated with clarithromycin for mycobacterial infections, evaluations of laboratory values were made by analyzing those values outside the seriously abnormal level (i.e., the extreme high or low limit) for the specified test.

**Percentage of Patients<sup>1</sup> Exceeding Extreme Laboratory Value Limits During First 12 Weeks of Treatment 500 mg b.i.d. Dose<sup>2</sup>**

Parameter	Study 500	Study 577	Combined
BUN > 50 mg/dL	0%	< 1%	< 1%
Platelet Count < 50 x 10 <sup>9</sup> /L	0%	< 1%	< 1%
SGOT > 5 x ULN <sup>2</sup>	0%	3%	2%
SGPT > 5 x ULN <sup>2</sup>	0%	2%	1%
WBC < 1 x 10 <sup>9</sup> /L	0%	1%	1%

<sup>1</sup> Includes only patients with baseline values within the normal range or borderline high (hematology variables) and within the normal range or borderline low (chemistry variables).  
<sup>2</sup> ULN = Upper Limit of Normal

**OTitis Media**  
In a controlled clinical study of acute otitis media performed in the United States, where significant rates of beta-lactamase producing organisms were found, clarithromycin was compared to an oral cephalosporin. In this study, very strict evaluability criteria were used to determine clinical response. For the 223 patients who were evaluated for clinical efficacy, the clinical success rate (i.e., cure plus improvement) at the post-therapy visit was 88% for clarithromycin and 91% for the cephalosporin.

In a smaller number of patients, microbiologic determinations were made at the pretreatment visit. The following presumptive bacterial eradication/clinical cure outcomes (i.e., clinical success) were obtained:

**U.S. Acute Otitis Media Study Clarithromycin vs. Oral Cephalosporin EFFICACY RESULTS**

PATHOGEN	OUTCOME
<i>S. pneumoniae</i>	clarithromycin success rate, 13/15 (87%), control 4/5
<i>H. influenzae</i> *	clarithromycin success rate, 10/14 (71%), control 3/4
<i>M. catarrhalis</i>	clarithromycin success rate, 4/5, control 1/1
<i>S. pyogenes</i>	clarithromycin success rate, 3/3, control 0/1
Overall	clarithromycin success rate, 30/37 (81%), control 8/11 (73%)

\* None of the *H. influenzae* isolated pretreatment was resistant to clarithromycin; 6% were resistant to the control agent.

**Safety:**  
The incidence of adverse events in all patients treated, primarily diarrhea and vomiting, did not differ clinically or statistically for the two agents.

In two other controlled clinical trials of acute otitis media performed in the United States, where significant rates of beta-lactamase producing organisms were found, clarithromycin was compared to an oral antimicrobial agent that contained a specific beta-lactamase inhibitor. In these studies, very strict evaluability criteria were used to determine the clinical responses. In the 233 patients who were evaluated for clinical efficacy, the combined clinical success rate (i.e., cure and improvement) at the post-therapy visit was 91% for both clarithromycin and the control agent.

For the patients who had microbiologic determinations at the pretreatment visit, the following presumptive bacterial eradication/clinical cure outcomes (i.e., clinical success) were obtained:

**Two U.S. Acute Otitis Media Cephalosporin vs. Antimicrobial/Beta-lactamase Inhibitor EFFICACY RESULTS**

PATHOGEN	OUTCOME
<i>S. pneumoniae</i>	clarithromycin success rate, 43/51 (84%), control 55/56 (98%)

4.33"x1.93"

Manufactured for:  
 Ranbaxy Pharmaceuticals Inc.  
 Jacksonville, FL 32237 USA  
 or Ranbaxy Laboratories Limited  
 New Delhi - 110 019, India

**RANBAXY**  
 NDC 63304-821-03

**CLARITHROMYCIN  
 FOR ORAL  
 SUSPENSION, USP**

**125 mg/5 mL**

**50 mL (When reconstituted)**

**Rx only**

**USUAL DOSAGE:** Children: 15 mg/kg/day divided in 2 equal doses. See enclosure for adult dose and full prescribing information.  
**Prior to Mixing:** Store granules at 20 - 25° C (68 - 77° F) (see USP Controlled Room Temperature).  
**Directions for Mixing:** VOLUME OF WATER: 32 mL. Measure the required volume of water using a graduated cylinder. Add half the volume of water to the bottle and shake vigorously. Add the remainder of water to the bottle and shake.  
 When reconstituted as directed, each teaspoonful (5 mL) contains: Clarithromycin...125 mg in a fruitily-flavored, aqueous vehicle.  
**Phenylethanamines:** Contains phenylethylamine 11.2 mg per 5 mL. Shake well before using. Oversized bottle provides shake space. Keep tightly closed. After mixing, store at 20 - 25° C (68 - 77° F) (see USP Controlled Room Temperature) and use within 14 days.  
**DO NOT REFRIGERATE.**  
 DOSAGE MAY BE ADMINISTERED WITHOUT REGARD TO MEALS.

1205

LOT: 00000000  
 EXP: 16 3 0 4 18 2 1 0 3 1 1 8

non varnish area

4.88" x 2.36"

Manufactured for:  
 Ranbaxy Pharmaceuticals Inc.  
 Jacksonville, FL 32237 USA  
 or Ranbaxy Laboratories Limited  
 New Delhi - 110 019, India

**RANBAXY**  
 NDC 63304-821-04

**CLARITHROMYCIN  
 FOR ORAL  
 SUSPENSION, USP**

**125 mg/5 mL**

**100 mL (When reconstituted)**

**Rx only**

**USUAL DOSAGE:** Children: 15 mg/kg/day divided in 2 equal doses. See enclosure for adult dose and full prescribing information.  
**Prior to Mixing:** Store granules at 20 - 25° C (68 - 77° F) (see USP Controlled Room Temperature).  
**Directions for Mixing:** VOLUME OF WATER: 64 mL. Measure the required volume of water using a graduated cylinder. Add half the volume of water to the bottle and shake vigorously. Add the remainder of water to the bottle and shake.  
 When reconstituted as directed, each teaspoonful (5 mL) contains: Clarithromycin...125 mg in a fruitily-flavored, aqueous vehicle.  
**Phenylethanamines:** Contains phenylethylamine 11.2 mg per 5 mL. Shake well before using. Oversized bottle provides shake space. Keep tightly closed. After mixing, store at 20 - 25° C (68 - 77° F) (see USP Controlled Room Temperature) and use within 14 days.  
**DO NOT REFRIGERATE.**  
 DOSAGE MAY BE ADMINISTERED WITHOUT REGARD TO MEALS.

1205

LOT: 00000000  
 EXP: 16 3 0 4 18 2 1 0 3 1 1 8

non varnish area

4.33"x1.93"

Manufactured for:  
Ranbaxy Pharmaceuticals Inc.  
Jacksonville, FL 32237 USA  
Ranbaxy Laboratories Limited  
New Delhi - 110 019, India

**R RANBAXY**  
NDC 63304-822-03

**CLARITHROMYCIN  
FOR ORAL  
SUSPENSION, USP**

**250 mg/5 mL**

**50 mL (When reconstituted)**

**Rx only**

**USUAL DOSAGE:** Children: 15 mg/kg/day divided in 2 equal doses. See enclosure for adult dose and full prescribing information.  
**Prior to Mixing:** Store granules at 20 - 25° C (68 - 77° F) (see USP Controlled Room Temperature).  
**Directions for Mixing:** VOLUME OF WATER: 32 mL. Measure the required volume of water using a graduated cylinder. Add half the volume of water to the bottle and shake vigorously. Add the remainder of water to the bottle and shake.  
When reconstituted as directed, each teaspoonful (5 mL) contains: Clarithromycin.....250 mg in a fruiti-flavored, aqueous vehicle.  
**Net contents:** Equivalent to 2.5 g of clarithromycin.  
**Pharmaceuticals:** Contains phenylalanine 11.2 mg per 5 mL. Shake well before using. Oversized bottle provides shake space. Keep tightly closed. After mixing, store at 20 - 25° C (68 - 77° F) (see USP Controlled Room Temperature) and use within 14 days.  
**DO NOT REFRIGERATE.**  
DOSAGE MAY BE ADMINISTERED WITHOUT REGARD TO MEALS.

1205

6 3 3 0 4 1 8 2 2 0 3 1 8

00000000  
FPO

LOT:  
EXP:

non varnish area

4.88" x 2.36"

Manufactured for:  
Ranbaxy Pharmaceuticals Inc.  
Jacksonville, FL 32237 USA  
Ranbaxy Laboratories Limited  
New Delhi - 110 019, India

**R RANBAXY**  
NDC 63304-822-04

**CLARITHROMYCIN  
FOR ORAL  
SUSPENSION, USP**

**250 mg/5 mL**

**100 mL (When reconstituted)**

**Rx only**

**USUAL DOSAGE:** Children: 15 mg/kg/day divided in 2 equal doses. See enclosure for adult dose and full prescribing information.  
**Prior to Mixing:** Store granules at 20 - 25° C (68 - 77° F) (see USP Controlled Room Temperature).  
**Directions for Mixing:** VOLUME OF WATER: 64 mL. Measure the required volume of water using a graduated cylinder. Add half the volume of water to the bottle and shake vigorously. Add the remainder of water to the bottle and shake.  
When reconstituted as directed, each teaspoonful (5 mL) contains: Clarithromycin.....250 mg in a fruiti-flavored, aqueous vehicle.  
**Net contents:** Equivalent to 5 g of clarithromycin.  
**Pharmaceuticals:** Contains phenylalanine 11.2 mg per 5 mL. Shake well before using. Oversized bottle provides shake space. Keep tightly closed. After mixing, store at 20 - 25° C (68 - 77° F) (see USP Controlled Room Temperature) and use within 14 days.  
**DO NOT REFRIGERATE.**  
DOSAGE MAY BE ADMINISTERED WITHOUT REGARD TO MEALS.

1205

6 3 3 0 4 1 8 2 2 0 4 1 8

00000000  
FPO

LOT:  
EXP:

non varnish area