

**CHLORHEXIDINE GLUCONATE- chlorhexidine gluconate rinse**  
**RPK Pharmaceuticals, Inc.**

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**Xttrium 0.12% CHG Oral Rinse**

**Chlorhexidine Gluconate 0.12%, Oral Rinse, USP**

**Rx Only, NDC 0116-2001-16, 0116-2001-04, 0116-2001-15, 0116-2001-05**

**CLINICAL PHARMACOLOGY**

Chlorhexidine gluconate oral rinse provides antimicrobial activity during oral rinsing. The clinical significance of chlorhexidine gluconate oral rinse's antimicrobial activities is not clear. Microbiological sampling of plaque has shown a general reduction of counts of certain assayed bacteria, both aerobic and anaerobic, ranging from 54-97% through six-months use.

Use of chlorhexidine gluconate oral rinse in a six-month clinical study did not result in any significant changes in bacterial resistance, overgrowth of potentially opportunistic organisms or other adverse changes in the oral microbial ecosystem. Three months after chlorhexidine gluconate oral rinse use was discontinued, the number of bacteria in plaque had returned to baseline levels and resistance of plaque bacteria to chlorhexidine gluconate was equal to that at baseline.

**Pharmacokinetics:** Pharmacokinetic studies with chlorhexidine gluconate oral rinse indicate approximately 30% of the active ingredient, chlorhexidine gluconate, is retained in the oral cavity following rinsing. This retained drug is slowly released into the oral fluids. Studies conducted on human subjects and animals demonstrate chlorhexidine gluconate is poorly absorbed from the gastrointestinal tract. The mean plasma level of chlorhexidine gluconate reached a peak of 0.206 mcg/g in humans 30 minutes after they ingested a 300-mg dose of the drug. Detectable levels of chlorhexidine gluconate were not present in the plasma of these subjects 12 hours after the compound was administered. Excretion of chlorhexidine gluconate occurred primarily through the feces (~90%). Less than 1% of the chlorhexidine gluconate ingested by these subjects was excreted in the urine.

**INDICATION**

Chlorhexidine gluconate oral rinse is indicated for use between dental visits as part of a professional program for the treatment of gingivitis as characterized by redness and swelling of the gingivae, including gingival bleeding upon probing. Chlorhexidine gluconate oral rinse has not been tested among patients with acute necrotizing ulcerative gingivitis (ANUG). For patients having coexisting gingivitis and periodontitis, see PRECAUTIONS.

**CONTRAINDICATIONS**

Chlorhexidine gluconate oral rinse should not be used by persons who are known to be

hypersensitive to chlorhexidine gluconate or other formula ingredients.

## **WARNINGS**

The effect of chlorhexidine gluconate oral rinse on periodontitis has not been determined. An increase in supragingival calculus was noted in clinical testing in chlorhexidine gluconate oral rinse users compared with control users. It is not known if chlorhexidine gluconate oral rinse use results in an increase in subgingival calculus. Calculus deposits should be removed by a dental prophylaxis at intervals not greater than six months. Anaphylaxis, as well serious allergic reactions, have been reported during postmarketing use with dental products containing chlorhexidine. SEE CONTRAINDICATIONS.

## **PRECAUTIONS**

### **General Precautions**

1. For patients having coexisting gingivitis and periodontitis, the presence or absence of gingival inflammation following treatment with chlorhexidine gluconate oral rinse should not be used as a major indicator of underlying periodontitis.
2. Chlorhexidine gluconate oral rinse can cause staining of oral surfaces, such as tooth surfaces, restorations, and the dorsum of the tongue. Not all patients will experience a visually significant increase in toothstaining. In clinical testing, 56% of chlorhexidine gluconate oral rinse users exhibited a measurable increase in facial anterior stain, compared to 35% of control users after six months; 15% of chlorhexidine gluconate oral rinse users developed what was judged to be heavy stain, compared to 1% of control users after six months. Stain will be more pronounced in patients who have heavier accumulations of unremoved plaque.

Stain resulting from use of chlorhexidine gluconate oral rinse does not adversely affect health of the gingivae or other oral tissues. Stain can be removed from most tooth surfaces by conventional professional prophylactic techniques. Additional time may be required to complete the prophylaxis.

Discretion should be used when prescribing to patients with anterior facial restorations with rough surfaces or margins. If natural stain cannot be removed from these surfaces by a dental prophylaxis, patients should be excluded from chlorhexidine gluconate oral rinse treatment if permanent discoloration is unacceptable. Stain in these areas may be difficult to remove by dental prophylaxis and on rare occasions may necessitate replacement of these restorations.

3. Some patients may experience an alteration in taste perception while undergoing treatment with chlorhexidine gluconate oral rinse. Rare instances of permanent taste alteration following chlorhexidine gluconate oral rinse use have been reported via post-marketing product surveillance.

### **Nursing Mothers**

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when chlorhexidine gluconate oral rinse is administered to nursing women.

In parturition and lactation studies with rats, no evidence of impaired parturition or of toxic effects to suckling pups was observed when chlorhexidine gluconate was administered to dams at doses that were over 100 times greater than that which would result from a person's ingesting 30 ml (2 capfuls) of chlorhexidine gluconate oral rinse per day.

### **Pediatric Use**

Clinical effectiveness and safety of chlorhexidine gluconate oral rinse have not been established in children under the age of 18.

### **Carcinogenesis, Mutagenesis, and Impairment of Fertility**

In a drinking water study in rats, carcinogenic effects were not observed at doses up to 38 mg/kg/day. Mutagenic effects were not observed in two mammalian in vivo mutagenesis studies with chlorhexidine gluconate. The highest doses of chlorhexidine used in a mouse dominant-lethal assay and a hamster cytogenetics test were 1000 mg/kg/day and 250 mg/kg/day, respectively. No evidence of impaired fertility was observed in rats at doses up to 100 mg/kg/day.

### **Pregnancy: Teratogenic Effects**

Reproduction studies have been performed in rats and rabbits at chlorhexidine gluconate doses up to 300 mg/kg/day and 40 mg/kg/day, respectively, and have not revealed evidence of harm to the fetus. However, adequate and well-controlled studies in pregnant women have not been done. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

## **ADVERSE REACTIONS**

The most common side effects associated with chlorhexidine gluconate oral rinses are; 1) an increase in staining of teeth and other oral surfaces; 2) an increase in calculus formation; and 3) an alteration in taste perception; see WARNINGS and PRECAUTIONS. Oral irritation and local allergy-type symptoms have been spontaneously reported as side effects associated with the use of chlorhexidine gluconate rinse.

The following oral mucosal side effects were reported during placebo-controlled adult clinical trials: aphthous ulcer, grossly obvious gingivitis, trauma, ulceration, erythema, desquamation, coated tongue, keratinization, geographic tongue, mucocele, and short frenum. Each occurred at a frequency of less than 1%.

Among post marketing reports, the most frequently reported oral mucosal symptoms associated with chlorhexidine gluconate oral rinse are stomatitis, gingivitis, glossitis, ulcer, dry mouth, hypesthesia, glossal edema, and paresthesia.

Minor irritation and superficial desquamation of the oral mucosa have been noted in patients using chlorhexidine gluconate oral rinse.

There have been cases of parotid gland swelling and inflammation of the salivary glands (sialadenitis) reported in patients using chlorhexidine gluconate oral rinse.

## OVERDOSAGE

Ingestion of 1 or 2 ounces of chlorhexidine gluconate oral rinse by a small child (~10 kg body weight) might result in gastric distress, including nausea, or signs of alcohol intoxication. Medical attention should be sought if more than 4 ounces of chlorhexidine gluconate oral rinse is ingested by a small child or if signs of alcohol intoxication develop.

## DOSAGE AND ADMINISTRATION

Chlorhexidine gluconate oral rinse therapy should be initiated directly following a dental prophylaxis. Patients using chlorhexidine gluconate oral rinse should be reevaluated and given a thorough prophylaxis at intervals no longer than six months.

Recommended use is twice daily oral rinsing for 30 seconds, morning and evening after tooth brushing. Usual dosage is 15 ml (marked in cap) of undiluted chlorhexidine gluconate oral rinse. Patients should be instructed to not rinse with water, or other mouthwashes, brush teeth, or eat immediately after using chlorhexidine gluconate oral rinse. Chlorhexidine gluconate oral rinse is not intended for ingestion and should be expectorated after rinsing.

## HOW SUPPLIED

Product: 53002-5110

NDC: 53002-5110-1 473 mL in a BOTTLE

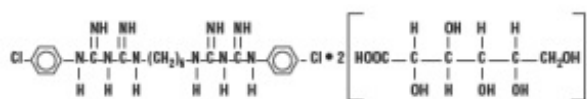
## DESCRIPTION

NDC 0116-2001-16



## CHLORHEXIDINE GLUCONATE 0.12% ORAL RINSE, USP

0.12% chlorhexidine gluconate (CHG) is an oral rinse containing (1,1'-hexamethylene bis [5-(p-chlorophenyl) biguanide]di-D-gluconate) in a base containing water, 11.6% alcohol, glycerin, PEG-40 sorbitan diisostearate, flavor, sodium saccharin, and FD&C Blue No.1. Chlorhexidine gluconate product is a near neutral solution (pH range 5-7). Chlorhexidine gluconate is a salt of chlorhexidine and gluconic acid. Its chemical structure is:



## Chlorhexidine Gluconate 0.12% Oral Rinse

NDC# 53002-5110-1  
 LIST# 0116-2001-16  
**CHLORHEXIDINE GLUCONATE**  
 0.12% ORAL RINSE  
 16 oz Bottle  
 LOT# 18134-029  
 EXP DATE: 01-31-2021  
 Shape & Color Markings

16 oz Bottle PATIENT NAME: \_\_\_\_\_  
**CHLORHEXIDINE 0.12% ORAL RINSE**  
 ATTRAUM LABEL Ref# 182870411000 ITEM# 5110 511-00  
**USE AS DIRECTED.**



R# 182870411000 ITEM# 5110

LO (AGE)  
 LOT# 18134-029 EXP 01-31-2021  
 Ref# 182870411 000 FDA- 5110  
 16 oz CHLORHEXIDINE 0.12% ORAL RINSE  
**CHLORHEXIDINE GLUCONATE**  
 0.12% ORAL RINSE  
 16 oz Bottle  
 BILLING NDC# 00116-2001-16 DISCARD BY 01-31-2021  
 Ref# 182870411 000 NDC# 53002-5110-1  
 16 oz CHLORHEXIDINE 0.12% ORAL RINSE Ref# 182870411 000  
 BILLING NDC# 00116-2001-16  
 Ref# 182870411 000  
 16 oz CHLORHEXIDINE 0.12% ORAL RINSE  
 Clinic Name Here  
 BILLING NDC# 00116-2001-16  
 Ref# 182870411 000  
 16 oz CHLORHEXIDINE 0.12% ORAL RINSE

CONTAINS  
 CHLORHEXIDINE GLUCONATE 0.12%  
 STORE ABOVE FREEZING (32deg F)  
 MADE BY: PHARMEDIX, UNION CITY, NJ 07087-1100  
 Dist. by Pharmedix, Union City, CA 94587

CLINIC NAME GOES HERE  
 Prescriber Name \_\_\_\_\_  
 Date Dispensed \_\_\_\_\_  
 IMPORTANT: READ PATIENT INFORMATION SHEET BEFORE USING. USE ONLY AS DIRECTED BY YOUR PRESCRIBER.

# CHLORHEXIDINE GLUCONATE

chlorhexidine gluconate rinse

## Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:53002-5110(NDC:0116-2001)
<b>Route of Administration</b>	ORAL		

## Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>CHLORHEXIDINE GLUCONATE</b> (UNII: MOR84MUD8E) (CHLORHEXIDINE - UNII:R4KO0DY52L)	CHLORHEXIDINE GLUCONATE	1.2 mg in 1 mL

## Inactive Ingredients

Ingredient Name	Strength
<b>GLYCERIN</b> (UNII: PDC6A3C0OX)	
<b>PEG-40 SORBITAN DIISOSTEARATE</b> (UNII: JL4CCU7I1G)	
<b>ALCOHOL</b> (UNII: 3K9958V90M)	
<b>SACCHARIN SODIUM</b> (UNII: SB8ZUX40TY)	
<b>FD&amp;C BLUE NO. 1</b> (UNII: H3R47K3TBD)	
<b>WATER</b> (UNII: 059QF0KO0R)	

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:53002-5110-1	473 mL in 1 BOTTLE; Type 0: Not a Combination Product	10/01/2018	

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA07789	06/01/2010	

**Labeler** - RPK Pharmaceuticals, Inc. (147096275)

**Establishment**

<b>Name</b>	<b>Address</b>	<b>ID/FEI</b>	<b>Business Operations</b>
RPK Pharmaceuticals, Inc.		147096275	RELABEL(53002-5110)

Revised: 6/2023

RPK Pharmaceuticals, Inc.