

PRODUCT MONOGRAPH

Pr CHLORHEXIDINE GLUCONATE ORAL RINSE

Chlorhexidine Gluconate 0.12% Oral Rinse Liquid, USP

0.12% Chlorhexidine Gluconate Antigingivital Oral Rinse

Colgate-Palmolive Canada Inc.
Two Morneau Shepell Centre, 5th Floor,
895 Don Mills Road,
Toronto, Ontario
M3C 1W3

Date of Preparation:
August 17, 2017

Submission Control No.: 207101

Table of Contents

PART I: HEALTH PROFESSIONAL INFORMATION.....	3
SUMMARY PRODUCT INFORMATION	3
INDICATIONS AND CLINICAL USE	3
CONTRAINDICATIONS	3
WARNINGS AND PRECAUTIONS	4
ADVERSE REACTIONS.....	6
DOSAGE AND ADMINISTRATION	6
OVERDOSAGE	7
ACTION AND CLINICAL PHARMACOLOGY	8
STORAGE AND STABILITY	9
SPECIAL HANDLING INSTRUCTIONS	9
DOSAGE FORMS, COMPOSITION AND PACKAGING	10
PART II: SCIENTIFIC INFORMATION	11
PHARMACEUTICAL INFORMATION.....	11
CLINICAL TRIALS	12
DETAILED PHARMACOLOGY	13
MICROBIOLOGY	13
TOXICOLOGY	14
REFERENCES	15
PART III: PATIENT MEDICATION INFORMATION	16



CHLORHEXIDINE GLUCONATE ORAL RINSE

chlorhexidine gluconate 0.12% oral rinse, USP

PART I: HEALTH PROFESSIONAL INFORMATION

SUMMARY PRODUCT INFORMATION

Route of Administration	Dosage Form / Strength	All Nonmedicinal Ingredients
Oral	Liquid/0.12% w/w	Alcohol, FD&C Blue # 1, flavour, glycerine, PEG 40-sorbitan diisostearate, saccharin sodium and USP Purified

INDICATIONS AND CLINICAL USE

Chlorhexidine gluconate 0.12% oral rinse is indicated for use as part of a professional program for the treatment of moderate to severe gingivitis, and for the management of associated gingival bleeding and inflammation between dental visits. For patients having coexisting gingivitis and periodontitis, see PRECAUTIONS

Geriatrics (> 65 years of age):

No data is available

Pediatrics (< 18 years of age):

Since the safety and efficacy of chlorhexidine gluconate oral rinse has not yet been fully established, the benefits of its use should be weighed against the possible risks.

CONTRAINDICATIONS

Chlorhexidine gluconate 0.12 % oral rinse should not be used by persons who are known to be hypersensitive to chlorhexidine gluconate or other formula ingredients.

WARNINGS AND PRECAUTIONS

General

1. For patients having coexisting gingivitis and periodontitis, the absence of gingival inflammation following treatment with chlorhexidine gluconate oral rinse may not be indicative of the absence of underlying periodontitis. Appropriate treatment of periodontitis is therefore indicated.
2. Chlorhexidine gluconate oral rinse may cause staining of oral surfaces such as the film on tooth surfaces, restorations, and the dorsum of the tongue. Stain will be more pronounced in patients who have heavier accumulations of un-removed plaque. Stain resulting from use of chlorhexidine gluconate oral rinse does not adversely affect the health of gingivae or other oral tissue. 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 treating patients with exposed root surfaces or anterior facial restorations with rough surfaces or margins. If natural stains cannot be removed from these surfaces by a dental prophylaxis, patients should be excluded from chlorhexidine gluconate oral rinse treatment if the risk of permanent discolouration is unacceptable. Stains in these areas may be difficult to remove by dental prophylaxis and on rare occasions may necessitate replacement of these restorations.
3. A few patients may experience an alteration in taste perception while undergoing treatment with chlorhexidine gluconate oral rinse. Most of these patients accommodate to this effect with continued use of chlorhexidine gluconate oral rinse. Rare instances of permanent taste alteration following chlorhexidine gluconate oral rinse use have been reported via post-marketing product surveillance.
4. For maximum effectiveness the patient should avoid rinsing their mouth (with water or other mouthwashes), brushing their teeth, eating or drinking for about 30 minutes after using chlorhexidine gluconate oral rinse.

Carcinogenesis and Mutagenesis

No evidence of carcinogenicity was reported in two rat studies in which chlorhexidine was administered in their drinking water. The studies were two years in duration and delivered chlorhexidine at dose levels of up to 200 mg/kg/day.

No evidence of mutagenicity was observed when chlorhexidine gluconate was evaluated by the dominant lethal assay in mice and micronucleus assay in hamsters. Mutagenicity studies, using bacterial cell system, with or without metabolic activation, produced contradictory results, which are unexpected with drugs having antibacterial activity. While Suessmuth et al. (1979) and Ackerman-Schmidt et al. (1982) obtained positive results, Evans et al. (1978) and Sakagami et

al. (1988) found no evidence of genotoxicity for chlorhexidine. The clinical significance of these results is unclear

Special Populations

Pregnant Women:

Reproduction and fertility studies with chlorhexidine gluconate have been conducted. No evidence of impaired fertility was observed in male and female rats at doses up to 100 mg/kg/day, and no evidence of harm to the fetus was observed in rats and rabbits at doses up to 300 mg/kg/day and 40 mg/kg/day, respectively. These doses are approximately 100, 300, and 40 times that which would result from a person ingesting 30 mL (2 capfuls) of chlorhexidine gluconate 0.12% oral rinse per day. Since controlled studies in pregnant women have not been conducted, the benefits of use of the drug in pregnant women should be weighed against possible risk to the fetus.

Nursing Women:

It is unknown whether this drug is excreted in human milk. 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 the dose which would result if a person ingested the entire recommended dose of chlorhexidine gluconate 0.12% oral rinse on a daily basis.

Pediatrics (< 18 years of age):

Since the safety and efficacy of chlorhexidine gluconate oral rinse has not yet been fully established, the benefits of its use should be weighed against the possible risks.

Geriatrics (> 65 years of age):

No data is available

ADVERSE REACTIONS

Adverse Drug Reaction Overview

No serious systemic reactions associated with use of chlorhexidine Gluconate 0.12% oral rinse were observed in clinical testing. However, some adverse reactions have been reported in studies with chlorhexidine gluconate 0.12% oral rinse or other chlorhexidine containing mouth rinses. The most common side effects associated with chlorhexidine gluconate oral rinse are (1) an increase in staining of oral surfaces, (2) an increase in supragingival tartar (3) an alteration in taste perception to which most patients accommodate (see PRECAUTIONS).

Epithelial irritation and superficial desquamation of the oral mucosa have been noted in studies of children using 0.12% chlorhexidine gluconate which were reversible upon discontinuation.

There have been rare cases of parotid gland swelling and inflammation of the salivary glands, in patients using chlorhexidine gluconate oral rinse.

Oral irritation and local allergy-type symptoms have been spontaneously reported as side effects associated with 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, ulcerations, erythma, desquamation, coated tongue, keratinization, geographic tongue, mucocele, and short frenum. Each occurred at a frequency of less than 1.0%.

Among postmarketing 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.

DOSAGE AND ADMINISTRATION

Dosing Considerations

Chlorhexidine gluconate 0.12% 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; they should be referred for periodontal consultation as necessary.

The suggested initial course of therapy is 3 months, at which time patients should be recalled for evaluation. At the time of the recall visit, the dental professional should:

- Evaluate progress, remove any stain, and reinforce proper home care techniques.

- If gingival inflammation and bleeding is controlled, discontinue chlorhexidine gluconate oral rinse therapy and recall the patient in 3 months to assess gingival health.
- If gingival inflammation and bleeding persist, continue chlorhexidine gluconate oral rinse therapy for an additional 3 months and schedule a three-month recall for evaluation.
- Evaluate for evidence of epithelial irritation, desquamation and parotitis.

The following generally accepted grading scheme may be of use in evaluating the severity of gingivitis.

Loe and Silness Gingival Index (GI)

Grade	Description
1	Normal gingival, no inflammation, no discolouration, no bleeding
2	Mild inflammation, slight colour change, mild alteration of gingival surface. No
3	Moderate inflammation, erythema, swelling, bleeding on probing or when pressure applied.
4	Severe inflammation, severe erythema and swelling, tendency toward spontaneous haemorrhage, some ulceration.

Recommended Dose and Dosage Adjustment

Recommended use is twice daily oral rinsing for 30 seconds, morning and evening after tooth brushing. Usual dosage is 15 mL (3 tsp) of undiluted chlorhexidine gluconate oral rinse. Chlorhexidine gluconate oral rinse is not intended for ingestion and should be expectorated after rinsing. Rinsing the mouth (with water or other mouthwashes), brushing teeth, or eating or drinking should be avoided for about 30 minutes after using chlorhexidine gluconate oral rinse.

Missed Dose

An occasional missed dose can be ignored if the patient is generally compliant with the prescribed regimen.

OVERDOSAGE

Ingestion of 30 or 60 mL of chlorhexidine gluconate 0.12% oral rinse by a small child (10 kg or less in body weight) might result in gastric distress, including nausea, or signs of alcohol intoxication. Medical attention should be sought if more than 120 mL of chlorhexidine gluconate 0.12% oral rinse is ingested by a small child or if signs of alcohol intoxication develop.

For management of a suspected drug overdose, contact your regional Poison Control Centre immediately.

ACTION AND CLINICAL PHARMACOLOGY

Mechanism of Action

Chlorhexidine gluconate 0.12% oral rinse provides antimicrobial activity during oral rinsing which is maintained between rinsings. Microbiologic sampling of plaque has shown a general reduction of both aerobic and anaerobic bacterial counts ranging from 54-97% through six months' clinical use. Rinsing with chlorhexidine gluconate oral rinse inhibits the buildup and maturation of plaque by reducing certain microbes regarded as gingival pathogens, thereby reducing gingivitis^{1,4,5}.

Chlorhexidine gluconate oral rinse provided antimicrobial activity during rinsing and for several hours thereafter.

No significant changes in bacterial sensitivity, overgrowth of potentially opportunistic organisms or other adverse changes in the oral microbial flora were observed following the use of chlorhexidine gluconate oral rinse for six months. Three months after chlorhexidine gluconate oral rinse use was discontinued, the number of bacteria in plaque had returned to pre-treatment levels and sensitivity of plaque bacteria to chlorhexidine gluconate remained unchanged.

Studies conducted with human subjects and animals demonstrate that any ingested chlorhexidine gluconate is poorly absorbed from the gastrointestinal tract. Excretion of chlorhexidine gluconate occurred primarily through the feces (approximately 90%). Less than 1% of the chlorhexidine gluconate ingested by these subjects was excreted in the urine.

Pharmacodynamics

Two clinical studies examined dose-response relationships and confirmed earlier animal studies. One short term study demonstrated equal efficacy, as measured by plaque reduction, for 0.10% and 0.20% chlorhexidine gluconate solutions while a 0.05% chlorhexidine gluconate solution was less effective. In a three month study, anti-gingivitis efficacy was equal for 0.12% and 0.20% chlorhexidine gluconate mouth rinses. However, tooth and tongue discoloration increases with chlorhexidine concentration in both studies. Therefore, the chlorhexidine gluconate concentration for chlorhexidine gluconate oral rinse was set at 0.12% to optimize efficacy while minimizing side effects.

The effect of duration and frequency of rinsing on plaque formation and tooth and tongue discoloration was examined in another 88 day study. The data demonstrated that shorter, more frequent rinsing (i.e. 2 x 30 sec.) provided optimal efficacy as compared to longer, less frequent rinsing (i.e. 1 x 60 sec.).

Pharmacokinetics

Approximately 30% of the chlorhexidine present in the mouth rinse is retained in the oral cavity after rinsing. The amount retained was directly related to drug concentration, with an average of 6.3 and 2.7 mg (mean) of chlorhexidine being retained orally after a single use of a mouth rinse containing 0.12% and 0.06% chlorhexidine gluconate, respectively. The release rate of chlorhexidine from oral surfaces was similar for both treatments. Based on morning/evening rinses, previous exposure to a chlorhexidine-containing mouth rinse was observed to have little effect on subsequent retention of chlorhexidine.

Absorption:

Chlorhexidine gluconate 0.12% oral rinse is to be used topically as an oral rinse, not to be ingested. Studies were conducted to study its metabolic pathway in the event of oral ingestion.

Human studies using radiological markers indicated that chlorhexidine gluconate is poorly absorbed from the gastrointestinal tract. This is in agreement with the findings from animal studies. Among five normal male volunteers, GI transit time was 31 to 53 hours as indicated by radio-opaque markers.

Excretion:

The primary route for the excretion of chlorhexidine was through the feces (approximately 90%). The mean peak plasma level of chlorhexidine was 0.206 µg/g, reached 30 minutes after ingestion of a 300 mg dose of the drug. Chlorhexidine was not detectable in plasma 12 hours after ingestion. Urine samples contained 0.5 to 1% of the ¹⁴C-chlorhexidine gluconate administered to the study subjects.

STORAGE AND STABILITY

Temperature/Light:

Preserve in tight containers, protected from light, at controlled room temperature (15°C to 30°C).

Incompatibilities:

Chlorhexidine gluconate 0.12% oral rinse is not to be mixed/diluted with any other product.

SPECIAL HANDLING INSTRUCTIONS

None

DOSAGE FORMS, COMPOSITION AND PACKAGING

Chlorhexidine gluconate oral rinse contains 0.12% of the medicinal ingredient, chlorhexidine gluconate and the following non-medicinal ingredients: alcohol, FD&C Blue # 1, flavour, glycerin, PEG 40-sorbitan diisostearate, saccharin sodium and USP Purified water.

Chlorhexidine gluconate 0.12% oral rinse is supplied as a blue liquid in 1-oz (15 mL) and 16-oz (473 mL) amber plastic bottles with child-resistant dispensing closures.

PART II: SCIENTIFIC INFORMATION

PHARMACEUTICAL INFORMATION

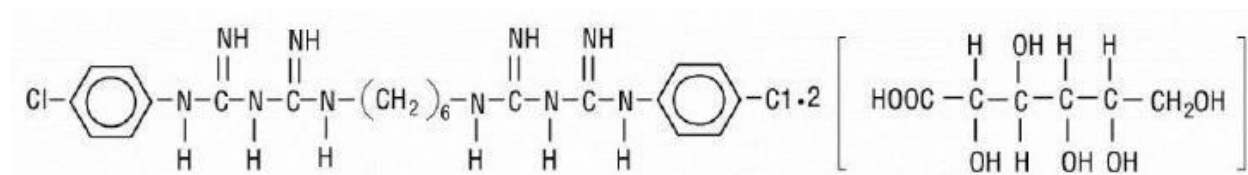
Drug Substance

Proper name: Chlorhexidine gluconate (U.S.A.N.)

Chemical name: 1,1'-hexamethylene bis [5- (p-chlorophenyl) biguanide] di-D-gluconate

Molecular formula and molecular mass: $C_{22}H_{30}Cl_2N_{10} \cdot 2C_6H_{12}O_7$

Structural formula:



Molecular Weight: 897.8

Physicochemical properties:

Chlorhexidine has basic character and exists in the di-cationic form at physiological pH. The two protonic positive charges become somewhat localized on the bi-guanide portion of the molecule. Both pKa's are reported⁶ as 10.78 ± 0.06 . The gluconate salt is soluble in excess of 70% (w/v) in water at 20°C.

At 19-21% w/v chlorhexidine gluconate solution is colourless to pale straw-coloured and is odourless to almost odourless (British Pharmacopeia).

CLINICAL TRIALS

Efficacy and Safety Studies

The efficacy of 0.12% chlorhexidine gluconate oral rinse in the treatment and prevention of gingivitis has been supported in three pivotal clinical trials and in several supporting studies. The pivotal clinical studies are summarized in the following chart:

Study Location	Study Duration	No. Patients	Age	Sex	Usage Regimen	Reduction in*		
						Plaque Index Scores	Gingival Inflammation Scores	Bleeding Sites
San Antonio, TX	3 Mon.	597	18-60	M & F	According to pkg. instructions 15 mL bid	36.1%	27.8-45.8%	48.4%
Northfield, NJ	6 Mon.	430	18-60			60.9%	33.5-45.4%	41.6-52.2%
London, ON	2 Yr.	456	18-72			34.6-56.4%	39.6%	50.3%

¹Results shown are those obtained for the final examination at completion of test product use. The data are expressed as covariance adjusted % reduction vs. placebo; a range is reported when there were duplicate examiners. All reductions were significantly different from placebo ($p < 0.05$; nonparametric Wilcoxon pair test)

DETAILED PHARMACOLOGY

MICROBIOLOGY

In Vitro

Because of its nonspecific mechanism of action, chlorhexidine has a wide range of antimicrobial activity against both Gram-positive and Gram-negative bacteria. An *in-vitro* study of the microbicidal effect of 0.12% chlorhexidine gluconate oral rinse following a 30 second exposure resulted in greater than a 99.9% reduction in the following microorganisms: *Actinomyces viscosus*, *Candida albicans*, *Staphylococcus aureus*, *Streptococcus mutans*, *Streptococcus sanguis*, *Fusobacterium nucleatum*, *Neisseria sicca*, *Pseudomonas aeruginosa*, *Veillonella parvula*.

In Vivo

To determine the efficacy of chlorhexidine gluconate oral rinse *in vivo*, various bacteria in the microbial flora of plaque were assayed in subjects who had used either chlorhexidine gluconate oral rinse or a placebo.

During six months' chlorhexidine gluconate oral rinse use,^{2,3} subjects showed reductions in total load/tooth, *streptococci* and *actinomyces* ranging from 54% to 97%. *Neisseria* and *fusobacteria* were not detected in over half of the subjects assayed. No changes in numbers of yeast-like organisms and Gram-negative enterics were observed. There were no adverse changes in the oral microbial flora. Three months following cessation of treatment, the reductions observed during mouth rinsing were no longer evident, indicating no "carryover" effect. The results were interpreted as indicating that the use of chlorhexidine gluconate oral rinse was associated only with a decrease in the number of microbes in plaque and no change in bacterial sensitivity.

Another study was conducted to investigate whether changes occurred in resistance to chlorhexidine which might limit efficacy of the mouth rinse, and if such changes occurred, whether they dissipated or disappeared after cessation of use of the mouth rinse. Minimum Inhibitory Concentrations (MIC's) for chlorhexidine were determined on isolates of *streptococci* and *actinomyces* obtained from patients during six months' use of the mouth rinse and three months after cessation of use of the mouth rinse⁵. Changes in bacterial sensitivity due to exposure to chlorhexidine were slight, sporadic and had returned to pre-treatment values three months after product usage was discontinued.

These results support that chlorhexidine gluconate oral rinse usage does not result in significant changes in plaque bacterial resistance and does not cause significant changes in the plaque flora.

TOXICOLOGY

Acute Toxicity Studies

The oral LD₅₀ of chlorhexidine gluconate was estimated as 1.476 g/kg in rats and 0.1122 g/kg in rabbits. The oral LD₅₀ of the mouth rinse formulation was estimated at > 20 g/kg in rats.

• Chronic and Subchronic Toxicity Studies

The only consistently observed finding in eight subchronic and chronic toxicity studies was the accumulation of foamy macrophages in the mesenteric lymph nodes of rats. Representative samples of these lesions were evaluated by two independent pathologists. They concluded that the lesions did not represent a significant toxic effect. This conclusion is supported by the following facts: 1) The macrophages do not contain bacteria, indicating that a significant change in the intestinal flora has not occurred. 2) The reaction is not associated with increased morbidity or mortality. 3) The reaction does not become progressively more severe with continued exposure to chlorhexidine. 4) The reaction is reversible after administration of chlorhexidine is discontinued.

Reproduction and Teratology

No adverse reproductive or teratologic effects on rats or rabbits were observed in studies with the mouth rinse formulation.

The effect of chlorhexidine gluconate on various aspects of reproductive processes has been evaluated using both the rat and rabbit as a model. An apparent embryotoxic effect was observed in rabbits that received a daily 40 mg/kg dose of chlorhexidine by gavage and in rats that ingested a 300 mg/kg dose of chlorhexidine from their diet each day. These doses are about 140 and 1040 times, respectively, the estimated daily ingestion from chlorhexidine gluconate oral rinse with the recommended dose.

Carcinogenicity

No evidence of carcinogenicity was reported in two rat studies in which chlorhexidine was administered in their drinking water. The studies were two years in duration and delivered chlorhexidine at dose levels of up to 200 mg/kg/day.

Mutagenicity

No evidence of mutagenicity was observed when chlorhexidine gluconate was evaluated by the dominant lethal assay in mice and micronucleus assay in hamsters. Mutagenicity studies, using bacterial cell system, with or without metabolic activation, produced contradictory results, which are unexpected with drugs having antibacterial activity. While Suessmuth et al. (1979) and Ackerman-Schmidt et al. (1982) obtained positive results, Evans et al. (1978) and Sakagami et al. (1988) found no evidence of genotoxicity for chlorhexidine. The clinical significance of these results is unclear.

Immediate Hypersensitivity

A variety of regimens were used in an attempt to induce and elicit immediate hypersensitivity to chlorhexidine gluconate in guinea pigs, rabbits, rats and man. No evidence of immediate

hypersensitivity was observed in any of the tests.

Other Studies

The emetic dose, irritation potential, and sensitization potential have also been determined for 0.12% chlorhexidine gluconate oral rinse. chlorhexidine gluconate oral rinse has an emetic ED₅₀ of approximately 13.4 mL/kg (tested in dogs using the oral route of administration), is only slightly irritating to the eye (tested in rabbits), and was not irritating to the oral mucosa (tested in dogs). In addition, the mouth rinse does not induce delayed contact sensitization.

REFERENCES

1. Grossman, E.; Reiter, G.; Sturzenberger, O.P.; De la Rosa, M.; Dickinson, T.D.; Ferretti, G.A.; Ludlam, G.E.; Meckel, A.H.: "Six-month study of the effects of a chlorhexidine mouth rinse on gingivitis in adults." J. Periodont. Res. 1986; 21 (Suppl. 16): 33-43.
2. Briner, W.W.; Grossman, E.; Buckner, R.Y.; Rebitski, G.F.; Sox, T.E.; Setser, R.E.; Ebert, M.L.: "Effect of Chlorhexidine gluconate mouthrinse on plaque bacteria." J. Periodont. Res. 1986; 21 (Suppl. 16): 44-52.
3. Briner, W.W.; Grossman, E.; Buckner, R.Y.; Rebitski, G.F.; Sox, T.E.; Setser, R.E.; Ebert, M.L.: "Assessment of susceptibility of plaque bacteria to chlorhexidine after six months' oral use." J. Periodont. Res. 1986; 21 (Suppl. 16): 53-59.
4. Loe, H.; Rindom-Schiott, C.; Glavind, L.; Karring, T.: "Two years' oral use of chlorhexidine in man: I. General design and clinical effects." J. Periodont. Res. 1976: 11: 135-144.
5. Rindom Schiott, C.; Briner, W.W.; Loe, H.: "Two Years Oral Use of Chlorhexidine In Man. II. The effect on the Salivary Bacterial Flora." J. Periodont. Res. 1976: 11: 145- 152.
6. Warner, V.D.; Lunch, D.M.; Kim, K.H.; Grunewald, G.L.: "Quantitative Structure – Activity Relationships for Biguanides, Carbamimidates and Bisbiguanides as Inhibitors of Streptococcus Mutans." J. Med. Chem.. 22: Issue 4, 1978, 359-66
7. Suessmuth, R.; Lingens, F.; Ackermann, B.: "Mutagenic effect of 1,1'-Hexamethylene-Bis ((5-p- Chlorophenyl)-Biguanide)." Chem-Biol. Interact.: 28 (2-3) 1979, 249-258
8. Achermann-Schmidt, B.; Suessmuth, R; Lingens F.: "Effects of 1,1'-Hexamethylene-Bis ((5-p- Chlorophenyl)-Biguanide) on the genome and on the synthesis of nucleic acid and proteins in the bacterial cells." Chem-Biol. Interact.; Vol. 40, Iss. 1, 1982. 85-96.
9. Evans, R.T.; Baker, P.J.; Coburn, R.A.; Genco, R.J.; Paigen, B.J.: "Evaluation of chlorhexidine, Tribromsalan and a limited series of alkyl bis biguanides in an in-vitro mutagenicity assay." J. Dent. Res.; 1978, 57:290
10. Product Monograph: Peridex® Oral Rinse, Preparation Date December 12, 2007, 3M Canada Company Dental Products

**READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE
PATIENT MEDICATION INFORMATION**

**CHLORHEXIDINE GLUCONATE ORAL RINSE
Chlorhexidine Gluconate 0.12% Oral Rinse, USP**

Read this carefully before you start taking **chlorhexidine gluconate 0.12% oral rinse** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **chlorhexidine gluconate 0.12% oral rinse**.

“WHAT TO EXPECT WHEN USING CHLORHEXIDINE GLUCONATE 0.12% ORAL RINSE”

Your dentist has prescribed Chlorhexidine Gluconate 0.12% Oral Rinse to treat your gingivitis – to help reduce the redness and swelling of your gums, and also to help you control any gum bleeding. Use Chlorhexidine Gluconate 0.12% Oral Rinse regularly, as directed by your dentist, in addition to daily brushing and flossing. Do not swallow Chlorhexidine Gluconate 0.12% Oral Rinse.

Chlorhexidine Gluconate 0.12% Oral Rinse may cause some tooth discoloration or increases in tartar (calculus) formation, particularly in areas where plaque is more difficult to remove with normal brushing alone. It is important to do a thorough job of cleaning your teeth and to see your dentist at least every six months, or more frequently if your dentist advises.

- Both stain and tartar can be removed by your dentist or hygienist. Chlorhexidine Gluconate 0.12% Oral Rinse may cause permanent discoloration of some front-tooth fillings. To minimize discoloration, you should brush and floss daily, emphasizing areas which begin to discolor. In some cases discoloration may be permanent.
- Chlorhexidine Gluconate 0.12% Oral Rinse should not be used by persons who have a sensitivity to chlorhexidine gluconate.
- Chlorhexidine Gluconate 0.12% Oral Rinse may taste bitter to some patients and may affect the taste of foods and beverages. This will become less noticeable in most cases with continued use of Chlorhexidine Gluconate 0.12% Oral Rinse. To avoid taste interference, rinse with Chlorhexidine Gluconate 0.12% Oral Rinse after meals. Do not rinse with water or other mouth rinses immediately after rinsing with Chlorhexidine Gluconate 0.12% Oral Rinse.
- For maximum effectiveness avoid rinsing your mouth, brushing your teeth, eating or drinking for about 30 minutes after using Chlorhexidine Gluconate 0.12% Oral Rinse.

If you have any questions or comments about Chlorhexidine Gluconate 0.12% Oral Rinse, contact your dentist or pharmacist.

What is chlorhexidine gluconate 0.12% oral rinse used for?

- Treatment of moderate to severe gingivitis and management of associated gingival bleeding and inflammation between dental visits.

How does chlorhexidine gluconate 0.12% oral rinse work?

Chlorhexidine gluconate 0.12% oral rinse provides antimicrobial activity during oral rinsing which is maintained between rinsings. Microbiologic sampling of plaque has shown a general reduction of both aerobic and anaerobic bacterial counts ranging from 54-97% through six months' clinical use. Rinsing with chlorhexidine gluconate 0.12% oral rinse inhibits the buildup and maturation of plaque by reducing certain microbes regarded as gingival pathogens, thereby reducing gingivitis.

What are the ingredients in chlorhexidine gluconate 0.12% oral rinse?

Medicinal ingredients: Chlorhexidine gluconate

Non-medicinal ingredients: Alcohol, FD&C Blue # 1, flavour, glycerine, PEG-40 sorbitan diisostearate, saccharin sodium, USP purified water.

Chlorhexidine gluconate 0.12% oral rinse comes in the following dosage forms:

Chlorhexidine gluconate 0.12% oral rinse is supplied as a blue liquid in 1-oz (15-mL) and 16- ounce (473-mL) amber bottles.

Do not use chlorhexidine gluconate 0.12% oral rinse if:

- You have any allergies to this drug or its ingredients or components of the container (Contraindications).

To help avoid side effects and ensure proper use, talk to your healthcare professional before you take chlorhexidine gluconate 0.12% oral rinse. Talk about any health conditions or problems you may have, including if you:

- Have allergies to this drug or its ingredients or components of the container

Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.

Usual dose:

Usual dose is 15-mL of undiluted chlorhexidine gluconate 0.12% oral rinse used twice daily for oral rinsing for 30 seconds. Chlorhexidine gluconate 0.12% oral rinse is not intended for ingestion and should be expectorated after rinsing.

Overdose:

Ingestion of 30 or 60 mL of chlorhexidine gluconate 0.12% oral rinse by a small child (10 kg or less in body weight) might result in gastric distress, including nausea, or signs of alcohol intoxication. Medical attention should be sought if more than 120 mL of chlorhexidine gluconate 0.12% oral rinse is ingested by a small child or if signs of alcohol intoxication develop.

If you think you have taken too much chlorhexidine gluconate oral rinse, contact your healthcare professional, hospital emergency department or regional Poison Control Centre immediately, even if there are no symptoms.

Missed Dose:

An occasional missed dose can be ignored if the patient is generally compliant with the prescribed regimen.

What are possible side effects from using chlorhexidine gluconate 0.12% oral rinse?

The most common side effects associated with chlorhexidine gluconate 0.12% oral rinse are (1) an increase in staining of oral surfaces, (2) an increase in supragingival tartar (3) an alteration in taste perception to which most patients accommodate.

These are not all the possible side effects you may feel when taking chlorhexidine gluconate 0.12% oral rinse. If you experience any side effects not listed here, contact your healthcare professional. Please also see Warnings and Precautions.

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, talk to your healthcare professional

Reporting Side Effects

You can help improve the safe use of health products for Canadians by reporting serious and unexpected side effects to Health Canada. Your report may help to identify new side effects and change the product safety information.

3 ways to report:

- Online at [MedEffect](#);
- By calling 1-866-234-2345 (toll-free);
- By completing a Consumer Side Effect Reporting Form and sending it by:
 - Fax to 1-866-678-6789 (toll-free), or
 - Mail to: Canada Vigilance Program
Health Canada, Postal Locator
0701E Ottawa, ON
K1A 0K9

Postage paid labels and the Consumer Side Effect Reporting Form are available at [MedEffect](#).

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

Storage:

Preserve in tight containers, protected from light, at controlled room temperature (15°C to 30°C).

Keep out of reach and sight of children.

If you want more information about chlorhexidine gluconate 0.12% oral rinse:

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by calling 1-800-268-6757.

This leaflet was prepared by:

Colgate-Palmolive Canada Inc .
Two Morneau Shepell Centre, 5th Floor,
895 Don Mills Road,
Toronto, Ontario
M2N 1G5

Last Prepared: August 17, 2017