

THE DENTAL ADVISOR™

"Improving Patient Care Through Research & Education"

OraVerse® + + + + ½

Novalar Pharmaceuticals, Inc.

858.436.1100

888.888.1441

www.OraVerse.com



Description

OraVerse is a local anesthesia reversal agent that accelerates the return to normal sensation and function for patients after routine dental procedures. It is a formulation of phentolamine mesylate and is recommended for adults and children age 6 and older and weighing 33 lbs or more. **OraVerse** is dispensed in a standard dental cartridge marked with a green label for ease of identification. It is administered by injection with a standard dental syringe in the same injection site as that used for the local anesthetic. **OraVerse** is used in a 1:1 ratio to local anesthetic. Each package includes 10, 1.7mL cartridges and prescribing information. **OraVerse** was used by 16 consultants in 128 cases. Seventy-five patients responded to surveys. **OraVerse** received a 93% clinical rating.

Suggested Retail Cost

- \$130.00/Box of 10 Cartridges (\$13/Cartridge)
- \$650.00/Box of 50 Cartridges (\$13/Cartridge)

Product Features

Consultants commented that **OraVerse** was easy to use and effective. Cartridges are well marked to differentiate it from anesthetic. Consultants reported that some patients experienced more



Consultants' Comments

- ◆ *"It really works! I found that patients responded very well and loved that the numbness wore off faster than normal."*
- ◆ *"Patients appreciated having an option to reverse the effects of anesthetic."*
- ◆ *"I had patients report that the injections sites were more sore, tender and sometimes bruised due to an additional injection."*

Patients' Comments

- ◆ *"The best dental invention ever!"*
- ◆ *"Numbness was wearing off within 25 minutes and was totally gone by 35 minutes."*
- ◆ *"I had less drooling and cheek biting."*
- ◆ *"I had soreness at the injection site the next day."*

REPRINT

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Ratings

Excellent	+++++
Very Good	++++
Good	+++

soreness or bruising from the additional injection. Most of the patients responded that numbness wore off quickly - within an hour - and they tolerated **OraVerse** well. Ninety-three percent of patients surveyed felt that **OraVerse** was effective at lessening the amount of time they were numb. Eighty-four percent of patients reported that **OraVerse** improved their dental experience and they would request it again. Seventy-five percent of consultants would continue to use **OraVerse** in their practice and 94% would recommend it.

Clinical Tips

- Ratio is 1:1 – use one cartridge of **OraVerse** for each cartridge of anesthetic.
- The maximum recommended dose of **OraVerse** is two cartridges in patients age 12 or greater, one cartridge in children age 6-11 years and weighing over 66 lbs, and one half cartridge in children 6-11 years and weighing 33 to 66 lbs.
- **OraVerse** is not indicated in children under 6 years of age or weighing less than 33 lbs.
- Do not use after invasive procedures such as endodontic treatment or surgery, where post-operative discomfort is anticipated. ■

OraVerse®

Phentolamine Mesylate

OraVerse® is indicated for the reversal of soft-tissue anesthesia, i.e., anesthesia of the lip and tongue, and the associated functional deficits resulting from an intraoral submucosal injection of a local anesthetic containing a vasoconstrictor. OraVerse is not recommended for use in children less than 6 years of age or weighing less than 33 lbs.

Important Safety Information

In clinical trials, the most common adverse events with OraVerse (phentolamine mesylate) vs. control were post procedural pain (6% vs. 6%), injection site pain (5% vs. 4%), tachycardia (5% vs. 6%), bradycardia (2% vs. 0.3%) and headache (3% vs. 4%). Following parenteral use of phentolamine in non-dental indications, myocardial infarction and cerebrovascular spasm and occlusion have been reported, usually in association with marked hypotensive episodes producing shock-like states. Although such effects are uncommon with OraVerse, clinicians should be alert to the signs and symptoms of tachycardia and cardiac arrhythmias, particularly in patients with a history of cardiovascular disease, as these symptoms may occur with the use of phentolamine or other alpha-adrenergic blocking agents.

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

OraVerse (phentolamine mesylate) Injection
Initial U.S. Approval: 1952

INDICATIONS AND USAGE

OraVerse is indicated for the reversal of soft-tissue anesthesia, i.e., anesthesia of the lip and tongue, and the associated functional deficits resulting from an intraoral submucosal injection of a local anesthetic containing a vasoconstrictor. OraVerse is not recommended for use in children less than 6 years of age or weighing less than 15 kg (33 lbs). (1)

DOSING AND ADMINISTRATION

Amount of Local Anesthetic Administered	Dose of OraVerse
½ Cartridge	½ Cartridge (0.2 mg)
1 Cartridge	1 Cartridge (0.4 mg)
2 Cartridges	2 Cartridges (0.8 mg)

OraVerse is administered using the same location(s) and same technique(s) (infiltration or block injection) used for the administration of local anesthetic. (2.1)

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FULL PRESCRIBING INFORMATION

1. INDICATIONS AND USAGE

OraVerse is indicated for reversal of the soft-tissue anesthesia, i.e., anesthesia of the lip and tongue, and the associated functional deficits resulting from an intraoral submucosal injection of a local anesthetic containing a vasoconstrictor. OraVerse is not recommended for use in children less than 6 years of age or weighing less than 15 kg (33 lbs).

2. DOSAGE AND ADMINISTRATION

2.1 General Dosing Information

The recommended dose of OraVerse is based on the number of cartridges of local anesthetic with vasoconstrictor administered:

Amount of Local Anesthetic Administered	Dose of OraVerse [mg]	Dose of OraVerse [Cartridge(s)]
½ Cartridge	0.2	½
1 Cartridge	0.4	1
2 Cartridges	0.8	2

OraVerse should be administered following the dental procedure using the same location(s) and technique(s) (infiltration or block injection) employed for the administration of the local anesthetic.

Note: Do not administer OraVerse if the product is discolored or contains particulate matter.

2.2 Dosing in Special Populations

In pediatric patients weighing 15–30 kg, the maximum dose of OraVerse recommended is 1/2 cartridge (0.2 mg).

(**Note:** Use in pediatric patients under 6 years of age or weighing less than 15 kg (33 lbs) is not recommended.

A dose of more than 1 cartridge (0.4 mg) of OraVerse has not been studied in children less than 12 years of age.)

3. DOSAGE FORMS AND STRENGTHS

0.4 mg/1.7 mL solution per cartridge

4. CONTRAINDICATIONS

None.

5. WARNINGS AND PRECAUTIONS

5.1 Cardiovascular Events

Myocardial infarction, cerebrovascular spasm, and cerebrovascular occlusion have been reported to occur following the parenteral administration of phentolamine. These events usually occurred in association with marked hypotensive episodes producing shock-like states.

Tachycardia and cardiac arrhythmias may occur with the use of phentolamine or other alpha-adrenergic blocking agents. Although such effects are uncommon after administration of OraVerse, clinicians should be alert to the signs and symptoms of these events, particularly in patients with a prior history of cardiovascular disease.

6. ADVERSE REACTIONS

In clinical trials, the most common adverse reaction with OraVerse that was greater than the control group was injection site pain.

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.

DOSAGE FORM AND STRENGTH

0.4 mg/1.7 mL solution per cartridge (3)

CONTRAINDICATIONS

None (4)

WARNINGS AND PRECAUTIONS

Myocardial infarction, cerebrovascular spasm, and cerebrovascular occlusion have been reported to occur following the intravenous or intramuscular administration of phentolamine, usually in association with marked hypotensive episodes or shock-like states which occasionally follow parenteral administration.

Tachycardia and cardiac arrhythmias may occur with the use of phentolamine or other alpha-adrenergic blocking agents. (5.1)

ADVERSE REACTIONS

The most common adverse reaction with OraVerse (incidence \geq 5% and > control) is injection-site pain. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Novalar at 1-888-888-1441 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

USE IN SPECIFIC POPULATIONS

- Use in pediatric patients less than 6 years of age or <15 kg (33 lbs) is not recommended. (8.4)
- In pediatric patients weighing less than 30 kg (66 lbs), the maximum dose of OraVerse recommended is 1/2 cartridge (0.2 mg). (8.4)

Revised: January 2009

Dental patients were administered a dose of either 0.2, 0.4 or 0.8 mg of OraVerse. The majority of adverse reactions were mild and resolved within 48 hours. There were no serious adverse reactions and no discontinuations due to adverse reactions.

Table 1 lists adverse reactions where the frequency was greater than or equal to 3% in any OraVerse dose group and was equal to or exceeded that of the control group.

Table 1: Adverse Reactions with Frequency Greater Than or Equal to 3% and Equal to or Exceeding Control					
Adverse Event	OraVerse			Total (N = 418)	Control (N = 359)
	0.2 mg (N = 83)	0.4 mg (N = 284)	0.8 mg (N = 51)		
	N (%)	N (%)	N (%)	N (%)	N (%)
Patients with AEs	15 (18)	82 (29)	20 (39)	117 (28)	96 (27)
Tachycardia	0 (0)	17 (6)	2 (4)	19 (5)	20 (6)
Bradycardia	0 (0)	5 (2)	2 (4)	7 (2)	1 (0.3)
Injection site pain	5 (6)	15 (5)	2 (4)	22 (5)	14 (4)
Post procedural pain	3 (4)	17 (6)	5 (10)	25 (6)	23 (6)
Headache	0 (0)	10 (4)	3 (6)	13 (3)	14 (4)

An examination of population subgroups did not reveal a differential adverse reaction incidence on the basis of age, gender, or race.

Results from the pain assessments in Study 1 and Study 2, involving mandibular and maxillary procedures, respectively, indicated that the majority of dental patients in both OraVerse and control groups experienced no or mild oral pain, with less than 10% of patients in each group reporting moderate oral pain with a similar distribution between the OraVerse and control groups. No patient experienced severe pain in these studies.

6.2 Adverse Reactions in Clinical Trials

Adverse reactions reported by less than 3% but at least 2 dental patients receiving OraVerse and occurring at a greater incidence than those receiving control, included diarrhea, facial swelling, increased blood pressure/hypertension, injection site reactions, jaw pain, oral pain, paresthesia, pruritus, tenderness, upper abdominal pain and vomiting. The majority of these adverse reactions were mild and resolved within 48 hours. The few reports of paresthesia were mild and transient and resolved during the same time period.

6.3 Post Marketing Adverse Reactions Reports from Literature and Other Sources

The following adverse reactions have been identified during postapproval parenteral use of phentolamine mesylate. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Acute and prolonged hypotensive episodes and cardiac arrhythmias have been reported with the use of phentolamine. In addition, weakness, dizziness, flushing, orthostatic hypotension, and nasal stuffiness have occurred.

7. DRUG INTERACTIONS

There are no known drug interactions with OraVerse.

7.1 Lidocaine and Epinephrine

When OraVerse was administered as an intraoral submucosal injection 30 minutes after injection of a local anesthetic, 2% lidocaine HCl with 1:100,000 epinephrine, the lidocaine concentration increased immediately after OraVerse intraoral injection. Lidocaine AUC and Cmax values were not affected by administration of OraVerse. OraVerse administration did not affect the PK of epinephrine.

8. USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category C

There are no adequate and well-controlled studies in pregnant women. OraVerse should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Oral administration of phentolamine to pregnant rats and mice at doses at least 24 times the recommended dose (based on a 60 kg human) resulted in slightly decreased growth and slight skeletal immaturity of the fetuses. Immaturity was manifested by increased incidence of incomplete or unossified calcaneal and phalangeal nuclei of the hind limb and of incompletely ossified sternebrae. At oral phentolamine doses at least 60 times the recommended dose (based on a 60 kg human), a slightly lower rate of implantation was found in the rat. Phentolamine did not affect embryonic or fetal development in the rabbit at oral doses at least 20 times the recommended dose (based on a 60 kg human). No teratogenic or embryotoxic effects were observed in the rat, mouse, or rabbit studies.

8.3 Nursing Mothers

It is not known whether OraVerse is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when OraVerse is administered to a nursing woman. The unknown risks of limited infant exposure to phentolamine through breast milk following a single maternal dose should be weighed against the known benefits of breastfeeding.

8.4 Pediatric Use

In clinical studies, pediatric patients between the ages of 3 and 17 years received OraVerse. The safety and effectiveness of OraVerse have been established in the age group 6-17 years. Effectiveness in pediatric patients below the age of 6 years has not been established. Use of OraVerse in patients between the ages of 6 and 17 years old is supported by evidence from adequate and well-controlled studies of OraVerse in adults, with additional adequate and well-controlled studies of OraVerse in pediatric patients ages 12-17 years old (Studies 1 (mandibular procedures) and 2 (maxillary procedures)) and ages 6-11 years old (Study 3 (mandibular and maxillary procedures)). The safety, but not the efficacy, of OraVerse has been evaluated in pediatric patients under the age of 6 years old. Dosages in pediatric patients may need to be limited based on body weight. [see Dosage and Administration (2)]

8.5 Geriatric Use

Of the total number of patients in clinical studies of OraVerse, 55 were 65 and over, while 21 were 75 and over. No overall differences in safety or effectiveness were observed between these patients and younger patients, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

10. OVERDOSAGE

No deaths due to acute poisoning with phentolamine have been reported.

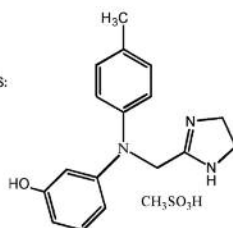
Overdosage with parenterally administered phentolamine is characterized chiefly by cardiovascular disturbances, such as arrhythmias, tachycardia, hypotension, and possibly shock. In addition, the following might occur: excitation, headache, sweating, pupillary contraction, visual disturbances, nausea, vomiting, diarrhea, or hypoglycemia.

There is no specific antidote; treatment consists of appropriate monitoring and supportive care. Substantial decreases in blood pressure or other evidence of shock-like conditions should be treated vigorously and promptly.

11. DESCRIPTION

Phentolamine mesylate is phenol,3-[[[4,5-dihydro-1H-imidazol-2-yl)methyl](4-methyl-phenyl)amino]-,methanesulfonate (salt), a non-specific alpha adrenergic blocker.

Phentolamine mesylate USP is a white to off-white, odorless crystalline powder with a molecular weight of 377.46. It is sparingly soluble in water, soluble in alcohol, and slightly soluble in chloroform. The empirical formulation is $C_{17}H_{19}N_3O_3S$, and the chemical structure is:



OraVerse (phentolamine mesylate) Injection is a clear, colorless, sterile, non pyrogenic, isotonic, preservative free solution. Each 1.7 mL cartridge contains 0.4 mg phentolamine mesylate, D-mannitol, edetate disodium, and sodium acetate. Either acetic acid or sodium hydroxide is used as necessary to adjust the pH.

12. CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The mechanism by which OraVerse accelerates reversal of soft-tissue anesthesia and the associated functional deficits is not fully understood. Phentolamine mesylate, the active ingredient in OraVerse, produces an alpha-adrenergic block of relatively short duration resulting in vasodilatation when applied to vascular smooth muscle. In an animal model, OraVerse increased local blood flow in submucosal tissue of the dog when given after an intraoral injection of lidocaine 2% with 1:100,000 epinephrine.

12.3 Pharmacokinetics

Following OraVerse administration, phentolamine is 100% available from the submucosal injection site and peak concentrations are achieved 10-20 minutes after injection. Phentolamine systemic exposure increased linearly after 0.8 mg compared to 0.4 mg OraVerse intraoral submucosal injection. The terminal elimination half-life of phentolamine in the blood was approximately 2-3 hours.

Pediatrics

Following OraVerse administration, the phentolamine C_{max} was higher (approximately 3.5-fold) in children who weighed between 15 and 30 kg (33 and 66 lbs) than in children who weighed more than 30 kg. However, phentolamine AUC was similar between the two groups. It is recommended that in children weighing 15-30 kg, the maximum dose of OraVerse should be limited to 1/2 cartridge (0.2 mg) (see Dosage and Administration section).

The pharmacokinetics of OraVerse in adults and in children who weighed more than 30 kg (66 lbs) are similar after intraoral submucosal injection.

OraVerse has not been studied in children under 3 years of age or weighing less than 15 kg (33 lbs). The pharmacokinetics of OraVerse after administration of more than 1 cartridge (0.4mg) has not been studied in children.

13. NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity studies with OraVerse have not been conducted.

Phentolamine was not mutagenic in the *in-vitro* bacterial reverse mutation (Ames) assay. In the *in-vitro* chromosomal aberration study in Chinese hamster ovary cells, numerical aberrations were slightly increased after a 4-hour exposure to phentolamine without metabolic activation and structural aberrations were slightly increased after a 4-hour exposure to phentolamine with metabolic activation only at the highest concentrations tested, but neither numerical nor structural aberrations were increased after a 20-hour exposure without metabolic activation. Phentolamine was not clastogenic in two *in-vivo* mouse micronucleus assays. At doses up to 150 mg/kg (143 times human therapeutic exposure levels at the C_{max}), phentolamine mesylate was shown to have no adverse effects on male fertility in the rat.

14. CLINICAL STUDIES

The safety and efficacy of OraVerse when used for reversal of soft-tissue anesthesia (STA), i.e., anesthesia of the lips and tongue following a dental procedure that required local anesthesia containing a vasoconstrictor, were evaluated in the following clinical studies. OraVerse-induced reversal of local anesthetic effects on the teeth, mandible and maxilla has not been assessed.

Two Phase 3, double-blinded, randomized, multi-center, controlled studies were conducted in dental patients who had mandibular (Study 1) or maxillary (Study 2) restorative or periodontal maintenance procedures and who had received a local anesthetic that contained a vasoconstrictor. The primary endpoint was time to normal lip sensation as measured by patient reported responses to lip palpation. The secondary endpoints included patients' perception of altered function, sensation and appearance, and their actual functional deficits in smiling, speaking, drinking and drooling, as assessed by both the patient and an observer blinded to the treatment. In the mandibular study, the time to recovery of tongue sensation was also a secondary endpoint. Patients were stratified by type and amount of anesthetic administered. OraVerse was administered at a cartridge ratio of 1:1 to local anesthetic. The control was a sham injection.

OraVerse reduced the median time to recovery of normal sensation in the lower lip by 85 minutes (55%) compared to control. The median time to recovery of normal sensation in the upper lip was reduced by 83 minutes (62%). The differences between these times for both studies are depicted in Kaplan-Meier plots for time to normal lip sensation in

Figures 1 and 2. Within 1 hour after administration of OraVerse, 41% of patients reported normal lower lip sensation as compared to 7% in the control group, and 59% of patients in the OraVerse group reported normal upper lip sensation as compared to 12% in the control group.

Figure 1: Kaplan-Meier Plot of Time to Recovery of Normal Sensation in the Lower Lip (ITT Analysis Data Set)

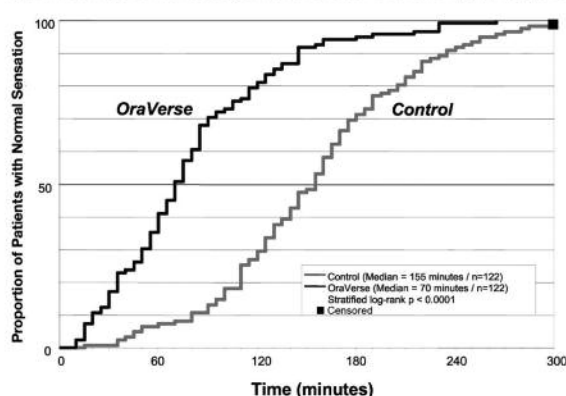
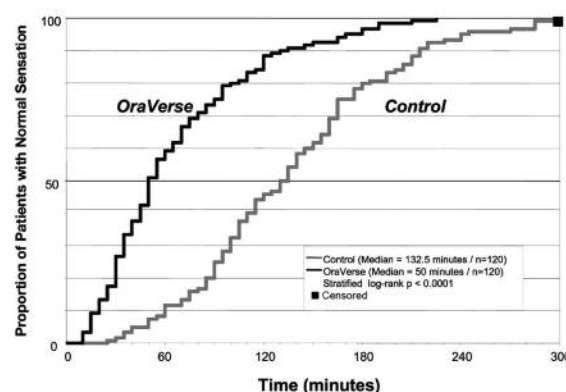


Figure 2: Kaplan-Meier Plot of Time to Recovery of Normal Sensation in the Upper Lip (ITT Analysis Data Set)



In Study 1 (mandibular), OraVerse accelerated: a) the recovery of the perception of normal appearance and function by 60 minutes (40%), b) the recovery of normal function by 60 minutes (50%), and c) the recovery of normal sensation in the tongue by 65 minutes (52%). In Study 2 (maxillary), the recovery of the perception of normal appearance and function was reduced by 60 minutes (50%) and the recovery of normal function was reduced by 45 minutes (43%).

Study 3, a pediatric, Phase 2, double-blinded, randomized, multi-center, controlled study was conducted in dental patients who had received 2% lidocaine with 1:100,000 epinephrine. Dental patients (n = 152, ages 4-11 years) received 1/2 cartridge of local anesthetic if they weighed ≥ 15 kg but < 30 kg, and one-half or one full cartridge if they weighed ≥ 30 kg at a cartridge ratio of 1:1 to local anesthetic.

The median time to normal lip sensation in patients 6 to 11 years of age who were trainable in the lip-palpation procedures, for mandibular and maxillary procedures combined, was reduced by 75 minutes (56%). Within 1 hour after administration of OraVerse, 44 patients (61%) reported normal lip sensation, while only 9 patients (21%) randomized to the control group reported normal lip sensation. In this study, neither the patients' perception of their appearance or ability to function nor their actual ability to function was evaluated.

16. HOW SUPPLIED/STORAGE AND HANDLING

OraVerse (phentolamine mesylate) Injection 0.4 mg/1.7 mL is supplied in a dental cartridge, in cartons of 10 and 50 cartridges. Each cartridge is individually packaged in a separate compartment of a 10 cartridge blister pack.

NDC 45293-101-01
NDC 45293-101-02

Store at controlled room temperature, 20-25°C (68-77°F) with brief excursions permitted between 15-30°C (59-86°F) (see USP Controlled Room Temperature)

Protect from direct heat and light. Do not permit to freeze.

Manufactured by

Novocol Pharmaceutical of Canada, Inc.

Cambridge, Ontario, Canada

for

Novalar Pharmaceuticals, Inc.

San Diego, CA 92130

US Patent Nos.: 6,764,678; 6,872,390; 7,229,630
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17. PATIENT COUNSELING INFORMATION

Patients should be instructed not to eat or drink until normal sensation returns.

Novalar™

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