Articaine hydrochloride and adrenaline (epinephrine) solution for injection 1:200,000
2 QUALITATIVE AND QUANTITATIVE COMPOSITION

1 ml solution for injection contains 40 mg articaine hydrochloride and 0.005 mg adrenaline (epinephrine) as adrenaline tartrate.

One cartridge of 1.8 ml of solution for injection contains 72 mg articaine hydrochloride and 0.009 mg adrenaline (epinephrine) as adrenaline tartrate. Excipients with known effect: tains sodium metabisulphite (E223) 0.5 mg/ml and sodium 4.5 mg/ml.

For the full list of excipients, see section 6.1. 3 PHARMACEUTICAL FORM

In isolated cases, an additional vestibular injection of 1-1.8 ml may be necessary to achieve complete anaesthesia. Injection via the painful palatine

oute is normally not necessary.

Where the palate requires incision or suture, a palatine depot of about 0.1 ml per puncture is sufficient. Where multiple extractions of adjacent teeth

Where the palate requires incision or suture, a palatine depot of about 0.1 ml per puncture is sufficient. Where multiple extractions of adjacent teeth are necessary, it is possible in most cases to reduce the number of vestibilities injections required.

In uncomplicated forceps extraction of lower premolars where no inflammation is present, injection of 1.8 ml per tooth is usually sufficient. However, if the aneasthesis is incomplete, an additional vestibilities injection of 1.8 ml is recommended. Conventional mandibular aneasthesis is indicated only where the above mentioned procedure does not result in a complete aneasthesis.

For cavity preparations and grinding of crown sturps— with the exception of the lower molars – a vestibular injection of 0.5-1.8 ml Orabioc per tooth is indicated, the specific dose depends on scope and duration of treatment.

Over the course of treatment, adults may be given up to 7 mg articatine per ig body weight. Using the aspiration technique, doses of up to 500 mg (equivalent to 12.5 ml of solution for injection) were well tolerated.

Eladerly patients and patients with severe hepatic and renal dysfunction.

Increased plasma articative levels may occur in elderly patients and in patients with severe hepatic and renal dysfunction.

care should be taken to use the minimum dose needed to achieve required anaesthesia

Paediatric population
When using Orabloc in children and adolescents, the minimum volume necessary to achieve adequate anaesthesia should be used; the injection amount should be individually failored to the age and weight of the child and adolescent.

A maximum dose of 5 mg articaine per kg of body weight should not be exceeded.

This product has not been studied in children less than 1 year old.

Method of administration

For use in ideatrial anaesthesis only.

r systemic reactions as a result of accidental intravascular injection can be avoided in most cases by an injection technique – after aspiration, injection of 0.1–0.2 ml and slow application of the rest – not earlier than 20–30 seconds later.

To avoid risk of infection (e.g. hepatitis transmission), syringe and needles used to draw up the solution must always be fresh and sterile. For single use. Any unused solution should be discarded.

dicinal product should not be used if cloudy or discoloured.

On account of the effect of the articaine content, Orabloc must not be used in:
- hypersensitivity to other local anaesthetics of the amide type,

- children under 4 years of age.

On account of the effect of the adrenaline (epinephrine) content, Orabloc must not be used in:

patients with paroxysmal tachycardia or absolute arrhythmias with rapid heart rate, patients with recent (3 to 6 months) myocardial infarction,

patients with recent (3 to 6 months) myocardia infarction,
 patients with recent (3 months) coronary afterly bypass surgery,
 patients with praced-to-monoyloma,
 patients with phaeochromocyloma,
 patients with phaeochromocyloma,
 patients with severe hypertension,
 concomitant treatment with tricyclic antidepressants or MAO inhibitors, as these active substances can intensify the cardiovascular effects of adrenaline (epinephrine). This can occur up to 14 days after MAO inhibitor treatment has ended.
 Intravenous use is contraindicated.
 Orabloc must not be used in persons with bronchial asthma with hypersensitivity to sulphites. In such individuals, Orabloc may precipitate acute alterior reactions with ananhylactic symptoms.

Orabloc must not be used in persons with uncertaint sentine with impersonsitivity to surprise. In soon interface, oracle may program allergic reactions with enaphylactic symptoms, such as bronchospasm.

4.4 Special warnings and precautions for use
In patients with cholinesterase deficiency, Orabloc must only be given in the presence of compelling indications, since its action is likely to be

prolonged and may sometimes be too strong.

Orabloc must be used with particular caution in cases of:

Injection into an inflamed (infected) area is discouraged (increased uptake of Orabloc with reduced efficacy).

Injection into an inflamed (infected) area is discouraged (increased uptake of Virabious with reduced embacy).

Before using this product it is necessary to ask the patient questions on medical history, concomitant treatment and to keep verbal contact with patient, and to practice an injection test with 5 or 10% of the dose in case of risk of allergy.

To avoid occurrence of adverse effects the following must be taken into account:

- choose the lowest possible dose,

- before injection, aspiration in two stages (to avoid inadvertent intravascular injection).

Equipment and drugs necessary for monitoring and emergency resuscitation should be immediately available (Oxygen, anticonvulsive drugs as benzodiazapines or barbiturates, muscle relaxants, atropin and vascopressin or epinephrine (adrenalin) in case of severe allergic or anaphylactic reservices.

Carers of young children should be warned of the risk of accidental soft tissue injury due to self-biting, due to prolonged soft tissue numbness. This medicinal product contains metabisulphite (E223) which may rarely cause severe hypersensitivity reactions and bronchospasm.

This medicinal product contains less than 1 mmol sodium (23 mg) per dose, i.e. essentially 'sodium-free'.

4.5 Interaction with other medicinal products and other forms of interaction

Combinations of different anaesthetics cause additive effects on cardiovascular system and CNS.

The blood-pressure-increasing effects of sympathomimetic-type vasoconstrictors (such as adrenaline) may be intensified by tricyclic antidepressants or MAO inhibitors and these are therefore contraindicated (see section 4.3).

Prenomazines can imisence the dioco-pressure-increasing energs or epireprime.

Therefore concommentar teatment should be avoided. If concomitant treatment should be avoided. If concomitant treatment should be avoided if the concentration of the control of the c

4.6 Fertility, pregnancy and lactation

A. 6 Fertility, pregnancy and lactation
Pregnancy
There is no experience of the use of articaine in pregnant women, except during childbirth. Animal studies do not indicate that articaine has direct or indirect harmful effects on pregnancy, embryonal/florated development, birth or postnatal development.
Animal studies have shown that adrenaline (epinephine) is toxic to reproduction at doses higher than maximal recommended dose (see section 5.3).
Adrenaline (epinephine) and articaine cross the placental barrier, although articaine dose so to a lesser extent than other local anaesthetics.
Serum concentrations of articaine measured in newborn infants were approx. 30% of maternal levels. In the event of inadvertent intravascular administration in the mother, adrenaline (epinephrine) can reduce uterine perfusion.
During pregnancy, Orabics should only be used after a careful analysis of the beneficto-risk ratio has been made.
Breastfeeding
As a result of the rapid drop in serum levels and rapid elimination, clinically relevant quantities of articaine are not found in breast milk. Adrenaline (epinephrine) passes into breast-fleeding for short-term use.

Animal studies with articaine 40 mg/ml + adrenaline (epinephrine) 0.01 mg/ml have not shown effects on fertility (see section 5.3). At therapeutic doses, adverse effects on human fertility are not expected.

AT Effects on ability to drive and use machines

After application of Órabloc the dentist must decide when a patient is capable again of operating a vehicle or machinery.

Apprehension and operation related stress may affect performance capabilities; although, in relevant tests, local anaesthesia with articaine caused

no discernible impairment in normal driving ability.

4.8 Undesirable effects

The following categories are used for classifying the frequency of undesirable effects:

Not known (cannot be estimated from the available data)

Not known: Allergic or allergy-like hypersensitivity type reactions. These may manifest themselves as oedematous swelling and/or inflamms at the injection site or manifestations appearing independently of the site may include skin reddening, itching, conjunctivitis, rhinitis, facial swe

Lose-telescipacion, nervousness, supor osmellines progressing to loss of consciousness, come, respiratory disorders sometimes progressing to respiratory arrest, muscular tremor and muscular hintóring sometimes progressing to generalised conculsions.
 Nerve lesions (e.g. facial nerve paresis) and reduced gustatory sensitivity in the ordiccial regionare not side effects specific to articaine.
 However, such reactions are theoretically possible with any dental intervention, due to anatomical conditions in the injection area or incorrect injection techniques.

injeculor examilized. Eye disorders

Not known: Temporary visual disturbances (blurred vision, blindness, double vision) or
in the area of the head.

Cardiac disorders

Uncommon: Earbycardia

Not known: cardiac arrhythmias, rise in blood pressure, hypotension, bradycardia, ca
Respiratory, floracia and mediastinal disorders

Not know respiratory dysfunction (tachypnea, bradypnea) that may lead to apnea
Castronistersial disorders

Gastrointestinal disorders Common: Nausea, vomiting

General disorders and administration site conditions

And to how the dependent intravacual registron may lead to the development of ischaemic zones in the injection site, sometimes progressing to issue necrosis (see also section 4.2).

repower you waspection adverse reactions after authorisation of the medicinal product is important. It allows confinued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the Yellow Card Scheme Website: www.mhra.gov.uk/yellowcard or search for MHRA Yellow Card in the Google Play or Apple App Store.
4.9 Overdose:

o) Emergency measures and amounts.
At the first gain, of side effects or intoxication, e.g. dizziness, motor restlessness, or stupor, the injection should be stopped and the patient placed in a horizontal position. The patient's airway should be kept clear and pulse and blood pressure monitored.
It is recommended, including when the symptoms of intoxication seem not to be severe, to insert an I.V. catheter, for immediate intravenous

In respiratory disorders, depending on their severity, the administration of oxygen, as well as – where necessary – that of artificial respiration are recommended, as is where necessary, the performance of endotracheal intubation and controlled ventilation.

Muscular whiching or generalised convulsions may be removed by intravenous injection of a short acting antispasmodic (e.g. suxamethonium chloride, diseapem). Artificial respiration (oxygen) is also recommended.

nous administration of a glucocorticoid (e.g. 250-1000 mg prednisolone or the equivalent amount of a derivative, e.g.

volume substitution (additionally, if necessary, plasma expander, human albumin). - Volume substitution (adoitionally, if necessary, plasma expancer, numan albumin). If roulating violating appear and praintend and brady-card worsens, intravenous adrenaline (epinephrine) should be given immediately. After diluting 1 ml of a commercial 11,1000 adrenaline (epinephrine) solution to 10 ml (a 11:0,000 adrenaline (epinephrine) solution to 10 ml (a 11:0,000 adrenaline (epinephrine) solution to 2 ml (a 11:0,000 adrenaline) epinephrine) is injected stowly with monitoring of pulse and blood pressure

(caution: cardiac arrhythmias).

Do not exceed 1 ml (0.1 mg adrenaline (epinephrine)) per single intravenous injection.

Where additional amounts of adrenaline are required, recommendation is given to administering these together with the infusion solution (adjust drip rate according to pulse rate and blood pressure). Severe tachycardia and tachycarthythmias may be treated with anti-arrhythmic drugs, but not with noncardioselective beta-blockers, e.g. proprantiol (see section 4.5). In such cases, oxygen must be given and circulation monitored.

Increase of blood pressure in hypertensive patients must be treated with peripheral vasodilators, if necessary.

5 PHARMACOLOGICAL PROPERTIES

Orabloc is an acid amide-type local anaesthetic used for terminal and nerve-block anaesthesia in dentistry. It is fast-acting (latency time 1-3 min) with a potent angle price of the control of the con

with carboviscusure useases.

Paediatric population
In children 3.5 to 16 years of, clinical studies including up to 210 patients, have shown that 4% articaine + 0.005 mg/ml adrenaline (epinephina) at doses up to 5 mg/kg and 4% articaine + 0.010 mg/ml adrenaline (epinephina) at doses up to 5 mg/kg provided successful local aneesth, if given by (mandibular) infiltration or
(maxillary) nerve block. The arresthesia duration was similar for all age groups and depended on the volume administered.

3.2 Prantacoxinetic properties In serum, articaine is bound to plasma-proteins at 95%. The elimination half-life after intraoral submucosal injection is 25.3 ± 3.3 min. 10% of articaine is metabolised in the liver, mainly by plasma and tissue esterases. Articaine is subsequently excreted via the renal route, mainly as

ren, overall exposure after vestibular infiltration is similar to those in adults, but maximum serum concentration is reached faster.

The challent, overlar exposure rater vestical minimation is similar to those in adults, but intentions section to identifications resolved issels.

3.3 Preclinical stafer years a pecial hazard for humans at therapeutic doses, based on conventional studies of safety pharmacology, chronic toxicity, reproductive toxicity and gendroxicity. As upratherapeutic doses, articaine has cardiodepressant properties and can exert vascolidatory effects.

Adreanline (epinephrine) exhibits sympathomimetic effects.

In embryotoxicity studies with articaine, no increase in the feetal mortality rate or maiformations were observed at daily i.v. doses of up to 20 mg/kg (rat) and 12.5 mg/kg (ratbath), Adreanline (epinephrine) showed reproductive toxicity in animals at doses ranging from 0.1 to 5 mg/kg (several folds the maximal dose of adrenatine (epinephrine) when using Orablico with evidence of congenital maiformations and impaired uteroplacental perfusion.

In embryofoetotoxicity studies with articaine and adrenaline (epinephrine), no increase in malformations were observed at daily s.c. doses of

In a fertility and early embryonic development study in rats no adverse effects on male or female fertility were noted at doses causing parental

10 DATE OF REVISION OF THE TEXT

6.3 Shelf life

Do not store above 25°C. Store in the original package in order to protect from light. 6.5 Nature and contents of container Clear glass cartridges (Type I) closed at one end with a bromobutylic rubber plunger and at the other with an aluminium cap and rubber seal. The cartridge is available in different packages:

The cartidge is available in different packages:
The cartridges are packaged in PVC blisters (10 cartridges/blister); the blisters are packaged in a cardboard box containing 5 x 10 or 10 x 10.

Each cartridge is assembled in a plastic injector, sech injector containing a cartridge is placed in a sealed blister; the injectors are packaged in a cardboard box together with a Instructions for use of the injector: 50 or 100 units per commercial pack.

Not all pack sizes may be marketed.

6.5 Special precautions for disposal.

As for any cartridge, the nubber seal (diaphragm) will be disinfected just before use with either pharmaceutical grade ethyl alcohol (70%) or pharmaceutical grade Isopropyl alcohol (90%).

The cartridges must not be immersed in the above solutions. Do not mix the injectable solution with other products in the same syringe. Any unused solution or waste material should be disposed of in accordance with local requirements.
7 MARKETING AUTHORISATION HOLDER

9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

THE QUALITY THAT YOU NEED, THE PRICE THAT YOU WANT





Orabloc[®]

(articaine HCI 4% and epinephrine 1:100,000 and epinephrine 1:200,000) Injection



Orabloc[®]

Manufactured in Italy by: Pierrel S.p.A. Strada Statale Appia 46/48 - 81043

Articaine HCI 4% and epinephrine 1:100,000 and epinephrine 1:200,000. Injection.

- » Rapid onset of anesthesia within 1-3 minutes.
- » Complete anesthesia lasts about 1 hour for infiltrations, up to 2 hours for nerve block.
- > 10% overage of epinephrine¹.
- 24 month shelf life at room temperature.
- Sodium edetate free, methylparaben free and latex free.
- » Most common adverse reactions (incidence >2%) are headache and pain.
- » Each cartridge is sealed individually in the blister for maximum protection.

Orabloc is indicated for local, infiltrative, or conductive anesthesia in both simple and complex dental procedures:

- » For most routine dental procedures, Orabloc containing epinephrine 1:200.000 is preferred.
- When more pronounced homeostasis or improved visualization of the surgical field are required, Orabloc containing epinephrine 1:100,000 may be used.

Both Orabloc strengths have a 24 month shelf life

- Store at room temperature; 25°C (77°F), with brief excursions permitted between 15°C (59°F) and 30°C(86°F).
- » Protect from light.
- Do not freeze.

Orabloc packaging

- » Each cartridge is individually sealed for maximum protection up to the moment of use.
- » Cartridges packed 10 to a blister tray to avoid glass to glass contact
- » Blister trays packaged in boxes of 50.

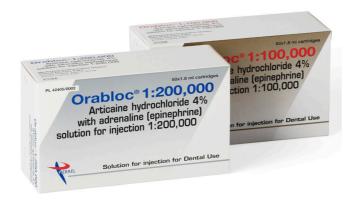
Dosage and administration - Adults

- » For normal healthy adults, the maximum dose of Orabloc administered by submucosal infiltration and/or nerve block should not exceed 7mg/kg (0.175 mL/kg) of articaine HCl.
- » Dosage should be reduced in elderly patients and in patients with cardiac or liver disease.

Pediatric patients ages 4 to 16 years

- » The quantity of Orabloc in children ages 4 to 16 years of age to be injected should be determined by the age and weight of the child and the magnitude of the operation.
- The maximum dose of Orabloc should not exceed 7 mg/ kg (0.175 mL/kg) of articaine HCI (see Use in Specific Populations). Use in pediatric patients under 4 years of age is not recommended.

The American Heart Association (AHA) recommends using the lowest possible quantity of eninephrine (Kaplan EL ed. Cardiovascular disease in dental practice. Dallas, TX: American Heart Association, 1986



IMPORTANT SAFETY INFORMATION

Care should be taken to avoid accidental intravascular injection, which may be associated with convulsions followed by coma and respiratory arrest. Local anesthetic solutions that contain a vasoconstrictor should be used cautiously, especially in patients with impaired cardiovascular function or vascular disease. Administration of Orabloc results in a 3 to 5 fold increase in plasma epinephrine concentrations compared to baseline. However, in healthy adults it does not appear to be associated with marked increases in blood pressure or heart rate, except in the case of accidental intravascular injection. The most common adverse reactions (incidence >2%) are headache and pain. Inform patients in advance of the possibility of temporary loss of sensation and muscle function following infiltration and nerve block injections. Instruct patients not to eat or drink until normal sensation returns.

Please see accompanying full prescribing information or visit www.orabloc.com

Orablocis an amide local anesthetic containing a vasoconstrictor indicated for local, infiltrative, or conductive anesthesia in both simple and complex dental procedures. Orabloc contains sodium metabisulfite. Orabloc is contraindicated in patients who are hypersensitive to products containing sulfites. Products containing sulfites may cause allergic-type reaction including anaphylactic symptoms and life-threatening or less severe asthmatic episodes in certain susceptible people. Please to see or download the full prescribing information visit www.orabloc.com



SUMMARY OF PRODUCT CHARACTERISTICS

1 NAME OF THE MEDICINAL PRODUCT

Orabice 1:100,000

Articaine hydrochloride and adrenaline (epinephrine) solution for injection 1:100,000

2 QUALITATIVE AND QUANTITATIVE COMPOSITION

1 ml solution for injection contains 40 mg articaine hydrochloride and 0.01 mg adrenalin

Cone cartridge of 1.8 ml of solution for injection contains 72 mg articaine hydrochloride at Excipients with known effect. nloride and 0.01 mg adrenaline (epinephrine) as adrenaline tartrate 2 mg articaine hydrochloride and 0.018 mg adrenaline (epinephrine)

ns sodium metabisulphite (E223) 0.5 mg/ml and sodium 4.5 mg/ml.

For the full list of excipients, see section 6.1.

3 PHARMACEUTICAL FORM

Solution for injection. Clear, colourless solution for injection

Clear, colourless solution for injection.
The pH of the solution ranges from 3.0 to 4.5.
Osmolarity, 270 mOsmikG
4.1 Therapeutic indications
Orabios in indications
Orabios is indicated in adults, adolescents and childre
- mucosal and bone surgery requiring stronger ischdental pulp surgery (amputation and estimpation),
- extraction of fractured teeth (coteotomy),
- protracted surgical interventions,
- perculamous celenolymiess,

4.2 Posology and method of administration

not necessary pelate requires incision or suture, a palatine depot of about 0.1 ml per puncture is sufficient. Where multiple extractions of adjacent teeth are it is possible in most cases to reduce the number of vestibular injections required.

sary, it is possible in most cases to reduce the number of vestibular njections required. complicated forceps extraction of lower premolars where no inflammation is present, injection of 1.8 ml per tooth is usually sufficient. However, if the sthesia is incomplete, an additional vestibular injection of 1-1.8 ml is recommended. Conventional mandibular anaesthesia is indicated only where the

above mentioned procedure does not result in a complete aneasthesa.

For surgical operations, its recommended that the dose of Orabico be adjusted individually based on the operation's severity and duration.

Over the course of treatment, adults may be given up to 7 mg articaine per kg body weight. Using the aspiration technique, doses of up to 500 mg (equivalent to 12.5 mil or solution for injection) were well tolerated.

Elderly patients and patients with severe hepatic and renal dysfunction
Increased pleams articaine levels may occur in elderly patients and in patients with severe hepatic and renal dysfunction. In such patients, particular care should be taken to use the minimum dose needed to achieve required aneasthesia.

Paediatric population

When using Charbico in children and adolescents, the minimum volume necessary to achieve adequate aneasthesia should be used; the injection amount should be individually lativate to the age and weight of the child and adolescent.

A maximum dose of 5 mg articaine per kg of body verigit should not be exceeded.

This product has not been shudied in children less than 1 year old.

Matherol of administration.

Method of administration
For use in dental anaesth

Before injection, aspiration is always recommended to avoid intravascular injection. Aspiration should be performed in two stages, i.e. needle rotation by

ions as a result of accidental intravascular injection can be avoided in most cases by an injection technique – after aspiration, slow njection of 0.1-0.2 ml and slow application of the rest - not earlier than 20-30 seconds later.

injection of 0.1–0.2 ml and slow application of the rest – not earlier than 20–30 seconds later.

To avoid risk of infection (e.g., hepathis transmission), syringe and needles used to draw up the solution must always be fresh and sterile. For single use Any unused solution should be discarded.

This medicinal product should not be used if bloudy or discoloured.

4.3 Contrainfactations

Hypersensitivity to the active substances or to any of the excipients isted in section 6.1.

On account of the effect of the articaine content, Orabbic must not be used in:

hypersensitivity to other local ansesthetics of the article byee,

severe candiac impulse formation and conduction disturbances (e.g. 2nd or 3rd degree AV block, marked bradycardie),

acute decompensated heart failure (acute congestive heart failure),

account of the effect of the adrenaline (epinephrine) content, Orabioc must not be used in:

- anaesthesia of the terminal nerve branches,

- patients with nerrow-angle glaucoma,

- patients with hyperthyroidsm,

- patients with premthyroidsm,

- patients with postroysmal tachycardia or absolute arrhythmias with rapid heart rate,

- patients with recent (3 to 6 months) myocardial infarction,

- patients with recent (3 to 6 months) coronary artery bypass surgery,

- patients with resent (3 months) coronary artery bypass surgery,

- patients with phaeochromocytoma,

- patients with phaeochromocytoma,

- patients with phaeochromocytoma,

omitant treatment with tricvolic antideoressants or MAO inhibitors, as these active substances can intensify the cardiovascular effects of adrenaline (epinephrine). This can occur up to 14 days after MAO inhibitor treatm

Orabloc must not be used in persons with bronchial asthma with hypersensitivity to sulphites. In such individuals, Orabloc may precipitate acute alleroic

In patients with cholinesterase deficiency, Orabioc must only be given in the presence of compelling indications, since its action is likely to be prolonged and may sometimes be too strong.

Trabloc must be used with particular caution in cases of:

- blood coagulation disturbances.

history of epilepsy (see section 4.8),
and use of Orabloc 1:200,000 solution for injection

solution for injection should be considered on account of its lower adrenaline (epinephrine) content of 0.005 mg/ml in patients with:
- cardiovascular diseases (e.g. heart failure, coronary heart disease, angina pectoris, history of myocardial infarction, cardiac ant

useues ineliatis, severe anxiety.

tion into an inflamed (infected) area is discouraged (increased uptake of Orabioc with reduced efficacy), ton into an inflamed tinfected area is discouraged (increased uptake of Orabioc with reduced efficacy), to use using this product it is necessary to ask the patient questions on medical history, concomitant treatment actice an injection test with 5 or 10% of the dose in case of risk of allergy, concomitant treatment would occurrence of adverse effects the following must be taken into account: choose the lowest possible dose,

Equipment and drops necessary for monitoring and emergency resuscitation should be immediately available (Oxygen, anticonvulsive drugs as benzodiazeprines or barbiturates, muscle relaxants, afropin and vasopressin or epinephrine (adrenalin) in case of severe allergic or anaphylactic reactions). It is recommended that the petient refrain from eating until the anaesthesis has worn off.

Adrenaline (epinephrine) may inhibit the release of insulin in the pancreas, thereby attenuating the effect of oral antidiabetics.

Certain inhalation anaesthetics, such as halothane, may increase myocardial sensitivity to catecholamines, and may therefore precipitate arrhythmias

following administration of Orabioc.

Phenothiazines can influence the blood-pressure-increasing effects of epinephrine. Therefore concomitant treatment should be avoided. If concomitant treatment should be avoided. If concomitant treatment should be monitored carefully.

It should be remembered that, in patients receiving anticoagulation treatment (e.g. heparin or acetylsalicyfic acid), inadvertent vascular puncture during local anaesthesia may lead to serious bleeding, and that the tendency to bleed is generally increased in such patients.

4.6 Fertility, pregnancy and lactation

Pregnancy
There is no experience of the use of articaine in pregnant women, except during childbirth. Animal studies do not indicate that articaine has direct or indirect
There is no experience of the use of articaine in pregnant women, except during childbirth. Animal studies have shown that adrenaline (epinephrine) is
toxic to reproduction at doses higher than maximal recommended dose (see section 5.3).
Adrenaline (epinephrine) and articaine cross the placental barrier, although articaine does so to a lesser extent than other local anaesthetics. Serum
concentrations of articaine measured in newborn infants were approx. 30% of maternal levels. In the event of inadvertent intravescular administration in
the mother, adrenaline (epinephrine) can reduce uterine perfusion. During pregnancy, Orabioc should only be used after a careful analysis of the benefit

On account of its lower adrenaline (epinephrine) content, use of Orabloc 1:200,000 solution for injection over Orabloc 1:100,000 solution for injection should be preferred.

aoverse enect on nume nemuy are not expection.

AT Effects on ability to drive and use machines.

After any of Crabico the dentification and the second of the control of the dentification of the den

discernible impairment in normal driving ability.

Not known (cannot be estimated from the available data)
Immune system disorders
Not known: Allergic or allergy-like hypersensitivity type reactions. These may manifest themselves as oedematous swelling and/or inflammation at the injection site or manifestations appearing independently of the site may include skin reddening, Itching, conjunctivits, fihnitis, facial swelling (angioedema) with swelling of the upper and/or lower jip and/or cheeks, glottal oedema with globus pharyngs and difficulty in swallowing, urticaria and difficulty in breathing which may progress to anaphylactic shock.

Nervous system disorders
Common: paresthesia, hypoesthesia; headaches, due presumably to the adrenaline component.

of known:

- Dose-related (particularly at excessively high dosages or after inadvertent intravascular injection), central nervous system reactions may occur:
agilation, nervousness, stupor sometimes progressing to loss of consciousness, coma, respiratory disorders sometimes progressing to respiratory
arrest, unsucial returner and musualer whiching sometimes progressing to generalised convolutions.

- Nerve lesions (e.g. facial nerve paresis) and reduced gustatory sensitivity in the ordical regionare not side effects specific to articaine. Neverse
such reactions are thereetically possible with any detail intervention, due to anatomical conditions in the injection area or incorrect injection techniques.

Eye disorders

Not known: Temporary visual disturbances (blurred vision, blindness, double vision) occurring during or shortly after injection of local anaesthetics in the

nmias, rise in blood pressure, hypotension, bradycardia, cardiac failure and shock (possibly life-threatening).

Respiratory, thoracic and mediastinal disorders

Not know: respiratory dysfunction (tachypnea, bradypnea) that may lead to apnea

Gastrointestinal disorders

General disorders and administration site conditions

Not known: inadvertent intravascular injection may lead to the development of ischaemic zones in the injection site, sometimes progressing to tissue necrosis (see also section 4.2).

On account of its sodium metabisulphite content, the product can uneclaited humanscore.

tudies, the safety profile was similar in children and adolescents from 4 to 18 year old compared to adults. However, accidental soft tissue

injury was observed more frequently (in up to 16% of children), especially in 3 to 7 year of year of the other one to the prolonged soft lissue aneesthesia. In a retrospective study of 211 children, get of 1 years of age, dental treatment was carried out using up to 4.2 mil of 4% articaine ~ 0.005 mg/ml or 0.01 mg/ml adrenaline (geinpethine), who no reported side effects.

or 4's anceaine + u.u.or gmin or out inginia acreanine (epineprinile), with no reported side enects.

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions viathe Yellow Card Scheme

Website: www.mthra.gov.uk/yellow.card or search for MHRA Yellow Card in the Google Play or Appile App Store.

4.9 Overdose
a) Symptoms of over dosage

CNS stimulation: restlessness, anxiety, confusion, hyperpnose, tachycardia, rise in blood pressure with facial reddening, nausea, vomiting, tremor,

sion; dizziness, impairment of hearing, loss of ability to speak, loss of consciousness, muscle atony, vasomotor paralysis (weakness, pallor).

Cardiovascular depression: bradycardia, arrhythmia, ventricular fibrillation, fall in blood pressure, cyanosis, cardiac arrest

of child gency interactives and antitudes.

At the first signs of side effects or intoxication, e.g. dizziness, motor restlessness, or stupor, the injection should be stopped and the patient placed in a ontal position. The patient's airway should be kept clear and pulse and blood pressure monitored.

recommended, including when the symptoms of intoxication seem not to be severe, to insert an I.V. catheter, for immediate intrave

In respiratory disorders, depending on their severity, the administration or oxygen, as wen as — written incusposary — their or annual respiration are recommended, as is where necessary, the performance of endotraches intubation and controlled ventilation.

Muscular hylitching or generalised convulsions may be removed by intravenous injection of a short acting antispasmodic (e.g. suxamethonium chloride, diazepam). Artificial respiration (oxygen) is also recommended.

Affall in blood pressure, tachycardic, or bradycardia may be corrected simply by placing the patient in a horizontal or slightly head-down position.

In severe circulatory disturbances and shock – regardless of cause – the following emergency measures should be immediately implemented after stopping

- place the patient in a horizontal or 'head-down' position and keep the patient's airways clear (oxygen insufflation).

- place the patient in a horizontal or 'head-down' position and keep the patient's airways clear (oxygen insuffiation),
- set up an intravenous indison loalenade electrifyel solution),
- intravenous administration of a glucoconticol (e.g. 250-1000) mg predinisolone or the equivalent amount of a derivative, e.g. methylprednisolone),
- intravenous administration of a glucoconticol (e.g. 250-1000) mg predinisolone or the equivalent amount of a derivative, e.g. methylprednisolone),
- intravenous administration (additionally, if necessary, plasma expander, human albumin).

If circulatory collegase appears imminent and bradycardia worsens, intravenous adrenaline (epinephrine) should be given immediately. After diluting 1 ml of a commercial 11:1,000 adrenaline (epinephrine) position to 10 ml (a 11:0,000 adrenaline (epinephrine) shouldon car be used instead), 0.25-1 ml of the solution (-0.025-0.1 ml) adrenaline (epinephrine) pis ringile intravenous injection. Where additional amounts of adrenaline are required, recommendation is given to administering these together with the initiasion solution (adjust drip rate according to public arts and blood pressure).

Severe tachycardia and tachyarthyftmiss may be treated with anti-srrhythmic drugs, but not with noncardioselective beta-blockers, e.g. propranolol (see section 4.3). In such cases, oxygen must be given and circulation monitored.

Increase of blood pressure in hypertensive patients must be thered with peripheral vasodilators, if necessary,

5 PHARMACOLOGICAL PROPERTIES

5 PHARMACOLOGICAL PROPERTIES

abloc is an acid amide-type local anaesthetic used for terminal and nerve-block anaesthesia in dentistry. It is fast-acting (latency time 1-3 min) with a

potent analgesie effect and good tissue tolerability. The duration of effective anaesthesia is about 45 min for Orabioc 0.005 mg/ml and about 75 min for Orabioc 0.01 mg/ml. The mechanism of action of articarie is assumed to be based on inhibition of conduction in nerve fibres, due to blockade of voltage-dependent Na-

onanners in the cell membrane. Its extremely low adrenaline (epinephrine) concentration and high intensity of action make Orabloc 0.005 mg/ml suitable for use in patients with

Predicting population
In children 3.5 to 16 years old, clinical studies including up to 210 patients, have shown that 4% articaine + 0.005 mg/ml adrenaline (In children 3.5 to 19 years und, crimical sources induced up to 2 to personals, never substructions and access to 3.50 mg/kg provided successful local anaesthesia, infiltration or (maxillary) nerve block. The anaesthesia duration was similar for all age groups and depended on the volume adminis

n serum, articaine is bound to plasma-proteins at 95%. The elimination half-life after intraoral submucosal injection is 25.3 ± 3.3 min. 10% of articaine is metabolised in the liver, mainly by plasma and tissue esterases. Articaine is subsequently excreted via the renal route, mainly as articainic acid. In children, overall exposure after vestibular infiltration is similar to those in adults, but maximum serum concentration is reached faster.

5.3 Preclinical safety data
Preclinical data reveal no special hazard for humans at therapeutic doses, based on conventional studies of safety pharmacology, chronic toxicity,

Preclinical data reveal no special hazard for humans at threspectuc doses, based on conventional studies of safety plasmacology, crimon toworly, reproductive toxicyly and gendoxicyls, Ausprahlerapeutic doses, articane has a cardiodepressant properties and can evert vascoliatory effects.

Adrenaline (epinephrine) exhibits sympathorimizet effects.

In embryoticylis youldse with articane no increase in the fotell mortality rate or malformations were observed at daily i.v. doses of up to 20 mg/kg (rat) and 12.5 mg/kg (rabbit). Adrenaline (epinephrine) showed reproductive toxicity in animals at doses ranging from 0.1 to 5 mg/kg (several folds the maximal dose of administration of the control of the control

to 80 mg/kg (rat) and 40 mg/kg (rabbit). In a fertility and early embryonic developr 6 PHARMACEUTICAL PARTICULARS oment study in rats no adverse effects on male or female fertility were noted at doses causing parental toxicity

6.1 List of excipients

2 years

6.4 Special precautions for storage

Do not store above 25°C. Store in the original package in order to protect from light.

6.5 Nature and contents of container 6.5 Nature and contents of container

Clear glass cartridges (Type I) closed at one end with a bromobulytic rubber plunger and at the other with an aluminium cap and rubber seal. The cartridge is available in different packages.

The cartridge is available in different packages.

The cartridge is a packaged in PCU bilaters (10 cartridges) bilater); the bilaters are packaged in a cardboard box containing 5 x 10 or 10 x 10 cartridges. Each cartridge is assembled in a plastic injector, each injector containing a cartridge is placed in a sealed bilater; the injectors are packaged in a cardboard box together with an Instructions for use of the injector. 50 or 100 units per commercial pack.

Not all pack sizes may be marketed.

6.5 Special precautions for disposal

As for any cartridge, the rubber seal (diaphragm) will be disinfected just before use with either pharmaceutical grade ethyl alcohol (70%) or pharmaceutical grade isopropyl alcohol (90%).

The cartridges must not be immersed in the above solutions.

Do not mix the injectable solution with other products in the same syringe.

Any nurused solution or waste meterial should be dispressed of in annormance with lead providers and

Any unused solution or waste material should be disposed of in accord MARKETING AUTHORISATION HOLDER

Strada Statale Appia, 46/48 – 81043 Capua (CE)

9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

10 DATE OF REVISION OF THE TEXT