

01-12-2023 2nd Copy

(Revised due to Trade Mark ®)



has not been established.

210mm

120mm

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Many drugs have been shown to influence the meanitude and/or draition of action of non-depolarizing neuromuscular blocking agents, including the following: ncreased effect:
Anaesthetic agents such as enflurane, isoflurane, halothane and ketamine;
Non-depolarizing neuromuscular blocking agents;
Antibiotics (including the aminoglycosides, polymyxins, spectinomycin, tetracyclines, lincomycin and cindamycin);
Antiarrythmic drugs (including proprandol, calcium channel blockers, lincomycin and cindamycin);
Ganglion blocking drugs (trimetaphan, hexamethonium).
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 Ganglion blocking drugs (trimetaphan, hexamethonium).
 Rarely, certain drugs may agricavate or unmask latent myasthenia gravis or actually induce a myasthenic syndrome; such drugs include various antibiotics, beta blockers propranolol, oxprenolol), antiarrhythmic drugs (procainamide, quinidine), antirheumatic drugs (chloroquine, D-penicillamine), trimetaphan, chlorpromazine, steroids, phenytoin and filtium. Decreased effect:
 A decreased effect:
 A decreased effect is seen after prior chronic administration of phenytoin or carbamazepine.
 Treatment with anticholinesterases, isommony used in the treatment of Alzbeiner's classes (e.g., donegazi), may shorten the duration and diminist he magnitude of neuromuscular blockade with isotatracum.
 No effect: Prior administration of suxamethonium has no effect on the duration of neuromuscular block following bolus doses of cisatracurium or on infusion rate requirements. FERTILITY. PREGNANCY AND LACTATION: Fartility: Fartility studies have not been performed. Pregnancy: There are no adequate data from the use of cisatracurium in pregnant women. The potential risk for humans is junkrown. Cisatracurium should not be used during pregnancy. Breast-feeding: It is not known whether cisatracurium or its metabolites are excreted in human milk. As a precaution breast-feeding should be discontinued during treatment for at least the elimination half-lives of cisatracurium. For about 3 hours after the tast loss or the end of the soft beam of the use of cisatracurium, is, for about 3 hours after the tast beam of the soft beam of the soft beam of the soft beam of the soft beam of the use of cisatracurium. It is not soft beam of the soft beam nfusion of cisatracurium. EFFECTS ON ABILITY TO DRIVE AND USE MACHINES: his precaution is not relevant to the use of cisatracuri UNDESIRABLE EFFECTS: Common: Brackacia Errectors: Common: Brackardia, hypotension. Uncommon: Cutaneous flushing, bronchospasm, rash. Very rare: Anaphylactic reaction, anaphylactic shock; Anaphylactic reactions of varying degrees of severity are known to be observed after the administration of neuromuscular blocking agents, including anaphylactic shock. Very rarely, severe anaphylactic reactions have been reported in patients receiving cisatracurium in conjunction with one or more anashteic agents, myopathy, muscle weakness; There have been some reports of muscle weakness and for myopathy following prolonged use of muscle relaxants in severely ill patients in the ICU. Most patients were receiving concomitant corticosteroids. These events have been reported infrequently in association with cisatracurium and a causal relationship has not been established.

OVERDOSE:

210mm

Prolonged muscle paralysis and its consequences are expected to be the main signs of overdosage with cisatracurium. It is essential to maintain pulmonary ventilation and priterial oxygenation until adequate spontaneous respiration returns. Full sedation will be required since consciousness is not impaired by cisatracurium. Recovery may be picoelerated by the administration of anticholinesterase agents once evidence of spontaneous recovery is present.

INTERACTION WITH OTHER MEDICINAL PRODUCTS AND OTHER FORMS OF INTERACTION

PHARMACOLOGICAL PROPERTIES PHARMACOLOGICAL PROPERTIES: Pharmacotherapeutic group: Muscle relaxants, peripherally acting agents, other quaternary ammonium compounds. ATC code: M03AC11. Cisatracumina is intermediate duration, non-depolarizing benzylisoquinolinium skeletal muscle relaxant. Mechanism of action: Clsatracurium binds to cholinergic receptors on the motor end-plate to antagonize the action of acetylcholine, resulting in a competitive block of neuromuscular transmission. This action is readily reversed by anticholinesterase agents such as neostigmine or edrophonium. The EDes (dose required to produce 95% depresented in the twich response of the adductor policis muscle to stimulation of the unar nerve) of cisatracurium is estimated to be 0.05mg/kg bodyweight during opioid anaesthesia (thiopentone/fentanyl/midazolam). The ED95 of cisatracurium in children during halothane anaesthesia is 0.04mg/kg.

PTARMACUNINE IIC PROPERTIES: Biotransformation: Cistaracurium undergoes degradation in the body at physiological pH and temperature by Hofmann elimination (a chemical process) to form laudanosine and the monoquatemary acrylate metabolite. Elimination: Elimination of cisatracurium is largely organ independent but the liver and kidneys are primary pathways for the dearance of its metabolites. These metabolites do not possess neuromuscular blocking activity. Pharmacokinetics in adult patients: Non-compartmental pharmacokinetic of cisatracurium are independent of dose in the range studied (0.1 to 0.2mg/kg, i.e., 2 to 4 x EDs). Population pharmacokinetic modelling confirms and extends these findings up to 0.4mg/kg (8 x EDs). Pharmacokinetic parameters after doses of 0.1 and 0.2mg/kg cisatracurium administered to healthy adult surgical patients are summarized in the able below:

Parameter	Range of mean values
Clearance	4.7 to 5.7mL/min/kg
Volume of distribution at steady state	121 to 161mL/kg
Elimination half-life	22 to 29min

Pharmacokinetics in elderly patients: No clinically important differences in the pharmacokinetics of cisatracurium in elderly and young adult patients. The recovery profile is also unchanged. Pharmacokinetics in patients with renal/hepatic impairment: No clinically important differences in the pharmacokinetics of cisatracurium in patients with renal/hepatic impairment. No clinically important differences in the pharmacokinetics of cisatracurium in patients with renal/hepatic impairment. No clinically important differences in the pharmacokinetics of cisatracurium after infusions of cisatracurium are similar to hose after single bolus injection. The recovery profile after infusion of cisatracurium is patients with renal/hepatic impairment. Note after single bolus injection. The recovery profile after infusion of cisatracurium is patients with renal/hepatic impairment in those after single bolus injection. The recovery profile after infusions of cisatracurium is patients independent of duration of infusions of cisatracurium is patients. The pharmacokinetics of duration of infusions of cisatracurium is independent of duration of infusions or single bolus injection. The recovery profile after infusions or single bolus injection. The recovery profile after infusions or single bolus injection. The recovery profile after infusions or single bolus injection. The recovery profile after infusions or single bolus injection. The recovery profile after infusions or contribute to non too testimate the nearing under the outring to those in healthy surgical adults receiving infoloage inductions are inducted in the output of infusion. Concentrations of metabolites are higher in ICU patients with abnorma transit function. These metabolites are not contribute to hourcomscular block. anal and/or hepatic function. These metabolites do not contribute to neuromuscular block.

PHARMACEUTICAL PARTICULARS

NCOMPATIBILITIES: Degradation of cisatracurium besylate has been demonstrated to occur more rapidly in lactated Ringer's Injection and 5% Dextrose and lactated Ringer's Injection than in the infusion fluids mentioned below. Therefore, it is recommended that lactated Ringer's Injection and 5% Dextrose and lactated Ringer's Injection are not used as the diluent in preparing solutions of Cisatracurium for infusion. Since cisatracurium is stable only in acidic solutions is thould not be mixed in the same syntpe or administered simultaneously through the same enedle with alkaline solutions (e.g., sodium thiopentone). It is not compatible with ketorolac trometamol or proprior injectable enviroine. emulsion

SPECIAL PRECAUTIONS FOR DISPOSAL AND OTHER HANDLING

For single use only. The medicinal product should be used immediately after opening the ampoule. The medicinal product should be visually inspected prior to use. This

For single use only. The medicinal product should be used immediately after opening the ampoule. The medicinal product should be visually inspected prior to use. This medicine should not be used if there are any visible signs of deterioration (e.g., particles). Diluted cisatracurium solution is physically and chemically stable for at least 24 hours at 5°C and 25°C at concentrations between 0.1 fmg/ml and 1.5mg/ml in the following infusion fluids when in contact with polypropylene or Polycarbonate syringes; polyethyene or POL to this, and polypropylene or POL infusion bags: a Sodium chloride 0.9% solution; and polypropylene or POC infusion bags: b Sodium chloride 0.9% solution; and polypropylene or POC infusion bags: Sodium chloride 0.9% solution; and polypropylene or POC infusion bags: microsensity of the stable intravenous fluid, e.g., sodium chloride 0.9% solution. As with other drugs are administered through the same needle or cannula as cisatracurium, its recommended that each drug be fushed through with an adequate volume of a suitable intravenous fluid, e.g., sodium chloride 0.9% solution. As with other drugs are administered intravenous fluid, e.g., sodium chloride 0.9% solution. Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

SHELE LIFE

ee expiry on the pack

ΔΛΑΠ ΔΒΠ ΙΤΥ CISTARIUM[®] 2mg/ml Solution for Injection/IV (10mg/5ml) in a pack of 5's

INSTRUCTIONS

Dosage: As directed by the physician

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To be sold on the prescription of a physician only. Keep out of reach of children.

Store at 2 to 8°C, and protect from heat, light and freezing. Once removed from the refrigerator to room temperature (25°C), use

within 21 days even if re-refrigerated. Improper storage may deteriorate the medicine. Injection should not be used if container is leaking, solution is cloudy or it contains ndissolved particle(s).

ufactured by: SAMI Pharmaceuticals (Pvt.) Ltd. F-95, Off Hub River Road, S.I.T.E., Karachi-Pakistan F-95, Off Hub Kiver road www.samipharmapk.com Mfg. Lic. No. 000072

مسلسٹ بی**ر ایم** سیا ٹرا کیوریم)

لدایات: خوراک: ڈاکٹر کی ہدایت کے مطابق استعال کریں۔ . سرف ڈاکٹر کے نسخ کے مطابق فروخت کریں۔ بچوں کی پیچنچ سے دورر کھیں۔ د دا کو ۲ سے ۸ ڈ گری سینٹی گریڈ پر رکھیں اور گرمی ، روشنی اور منجمد ہونے سے محفوظ رکھیں ۔ ریفریجریٹر سے نکالنے کے بعد کمرے کے درجہ حرارت (۲۵ ڈگری سینٹی گریڈ)

یرلانے اور دوبارہ ریفریجریٹر میں رکھنے کی صورت میں ۲۱ دن کے اندراستعال کرلیں رنه دواخراب ہوجا ٹیگی۔

> انجکشن کے لیک ہونے ، ڈھندلا ہونے یااس میں کوئی غیر حل زیر شے نظر آنے کی صورت میں ہر گزاستعال نہ کریں۔ R.N-02/QC/12/2023

120mm