

Type Size: 8pt/8pt (MAX/MIN) kup_P, Lot, ExpirationDate_Hourg SET AT 100% ARTWORK Size: 8 Type 5394 Mioch PRINT No.: MiocholE_Lockup, DOES NOT SPEC INE Ő, DIEL Miochol-E Leafet, Singapore 200 XXXXPBXXX/X-XXX ES. Approved 2077170_U17_p1, Steri Logo, B & L Header, Manufacturer SPECIFICATION DESCRIPTION: A PART No.: 92842 SPECIAL INSTRUCTI PLACED IMAGES: A PER COATING I

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Parasympathomimetic

COMPOSITION AND PHARMACEUTICAL FORM Each vial contains 20 mg acetylcholine chloride

INDICATIONS

be required.

Miochol[®]-E contains 10mg/ml of acetylcholine chloride (20 mg in 2 ml) upon reconstitution. For excipients, see section **EXCIPIENTS**.

Powder and solvent for instillation solution for intraocular use. Miochol®-E is presented n a blister pack containing one vial and one ampoule: the vial contains 20 mg of acetylcholine chloride; the ampoule contains 2 ml of solvent. The reconstituted preparation is

Hypersensitivity to the active substance or to any of the excipients. a clear, colourless solution.

SPECIAL WARNINGS AND PRECAUTIONS FOR USE Minchol®-F is used to obtain minsis of the iris

seconds after placement of the intraocular In cataract surgery, use Miochol®-E only afte lens (IOI) in cataract surgery and in penetrating placement of the IOL. keratoplasty, iridectomy and other anterior INTERACTIONS

Paediatric use

been established.

segment surgery where rapid miosis may None known

DOSAGE AND ADMINISTRATION PREGNANCY AND LACTATION Adults and elderly In most cases, 0.5 to 2 ml produces Pregnancy Animal reproduction studies have not been

atisfactory miosis conducted with Miochol®-E. It is not known whether Miochol®-E can cause fetal harm when administered to pregnant women or can affect reproductive capacity. Miochol®-E The syringe containing the reconstituted preparation must be fitted with a suitable

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irrigation cannula for intraocular irrigation. The

Miochol®-E solution is instilled into the anterior clearly needed chamber before or after securing one or more Lactation

sutures. Instillation should be gentle and parallel

The solution should be reconstituted

Safety and effectiveness in children have not

should be given to pregnant women only if

of acetylcholine are unstable

CONTRAINDICATIONS

to the iris face and tangential to the pupil border. in human milk. Because many drugs are excreted in human milk, caution should be If there are no mechanical hindrances, the pupil exercised when Miochol®-E is administered to starts to constrict in seconds and the peripheral nursing women. iris is drawn away from the angle of the anterior

EFFECTS ON ABILITY TO DRIVE AND chamber. Any anatomical hindrance to miosis USE MACHINES such as anterior or posterior synechiae, must be released to permit the desired effect of the drug. Not applicable.

UNDESIRABLE EFFECTS immediately before use since aqueous solutions

Infrequent cases of corneal oedema, corneal clouding, and corneal decompensation have been reported with the use of intraocular acetylcholine Adverse reactions indicative of systemic absorption have been reported rarely. These include bradycardia, hypotension, flushing, breathing difficulties and sweating.

It is not known whether Miochol®-E is excreted

OVERDOSE

Systemic toxicity is low because of rapid local breakdown. Symptoms of overdose are likely to be effects resulting from systemic absorption (see section UNDESIRABLE EFFECTS). In case of overdose atropine sulphate (0.5 to 1 mg) should be given intramuscularly or intravenously and should be readily available. Epinephrine (0.1 to 1 mg s.c.) is also of value in overcoming severe cardiovascular or bronchoconstrictor responses.

neuro-hormone which mediates nerve impulse transmission at all cholinergic sites involving somatic and autonomic nerves. After release

inactivated by the enzyme acetylcholinesterase Amnoule by hydrolysis to acetic acid and choline. The

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potassium chloride, calcium chloride, water for injections.

INCOMPATIBILITIES None known.

The filter hub is recommended only for use

facilitates aqueous humour flow by opening the trabecular meshwork. In addition, acetylcholine can have an inhibitory effect on aqueous secretion. These two last factors result in a decrease in intraocular pressure at the level of the lacrimal glands, whose excitation causes tearing.

Direct application of acetylcholine to the iris will cause rapid miosis of short duration. opical ocular instillation of acetylcholine to the intact eve causes no discernible response as cholinesterase destroys the molecule more rapidly than it can penetrate the cornea.

density of ocular parasympathetic receptors of

the muscarinic type is high. They are localised:

at the level of the pupillary sphincter, whose

at the level of the ciliary muscle, whose

contraction allows accommodation and

contraction causes miosis.

PHARMACOKINETICS Due to rapid hydrolysis of acetylcholine to acetic acid and choline by cholinesterases there

are no pharmacokinetic data. PRECLINICAL SAFETY DATA There is no evidence of mutagenic,

carcinogenic, or teratogenic potential by acetylcholine chloride. Miochol®-E was well tolerated following intraocular injection of a dose of 0.5 ml/eye in cats

EXCIPIENTS Each pack contains Vial

5 Remove the needle protector and withdraw Explanation to the symbols: Sodium acetate, magnesium chloride, the solvent from the ampoule into the syringe, Discard ampoule, Remove and discard plastic cap from top of vial Insert the needle through the centre of the vial stopper.

with Miochol®-E. STORAGE Do not store above 25°C. Do not freeze.

Miochol®-E should not be used after the date marked "EXP" on the pack.

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INSTRUCTIONS FOR USE AND HANDLING

- Warning: Do not use if blister or neelable backing is damaged or broken. Open under asentic conditions only.
- Directions for Preparing Miochol®-E

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11 Discard needle.

12

the vial.

1. Inspect unopened blister to ensure that it is intact. Peel open blister

Aseptically transfer the ampoule, vial and filter hub to sterile field. Maintain asepsis during preparation of solution.

3 Asentically attach a sterile 18 to 20 gauge bevelled needle to the luer tip of a sterile disposable syringe with twisting motion to assure secure fit. 4. Break open the ampoule containing the solvent. The One Point Cut (OPC)

the existing cut under the point.

ampoule must be opened as follows: Hold the bottom part of the ampoule with the thumb pointing to the coloured point. Grasp the top of the ampoule with the

13. Aseptically attach filter hub onto luer tip of syringe with a twisting motion to assure secure fit. 14. Asentically attach a sterile blunt tip

- irrigation cannula to male luer of filter prior to intraocular irrigation.
- 15. Discard appropriately after use. Do not reuse the filter hub.

Transfer the solvent from the syringe to

10. Slowly withdraw the solution from the vial

through the needle into the syringe

Aseptically open filter hub pouch.

Shake gently to dissolve drug.

The solution must be mixed just before use since aqueous solutions of acetylcholine are

unstable. Only clear and colourless solutions should be used. Any residual quantities of acetylcholine chloride solution should be discarded after a maximum of 6 hours for stability reasons. Miochol®-E should not be re-sterilised The filter hub is recommended only for use with Miochol®-E. Aspiration through the filter

other hand, positioning the thumb at the

is not recommended. However, if utilized, discard needle and syringe filter to prevent

recontamination of fluids during injection. Do not aspirate and inject through the

same filter coloured point and press back to break at

REF Catalogue number Note: Miochol[®]-E should be kept out of the reach and sight of children.

LOT

Lot numbe

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use

See instructions for

STERILE EO

Sterilization with

ethylene oxide

(2)

For single use only

Manufacture date

Expiry date

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Bausch & Lomb Incorporated 1400 North Goodman Street Rochester, NY14609 USA

Manufacturer Novartis Pharma Stein AG Schaffhauserstrasse

Product Owner

4332 Stein Switzerland

Singapore Package Leaflet Information issued: June 2012

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PHARMACODYNAMICS Acetylcholine is a naturally occurring 5077170