NEW ZEALAND DATA SHEET

1. PRODUCT NAME

PATAROL Eye drops, solution 0.1% w/v

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each mL of Patanol Eye Drops contains 1.11 mg olopatadine hydrochloride which is equivalent to 1.0 mg olopatadine (0.1%).

Excipient with known effect
Benzalkonium chloride 0.1 mg per 1 mL as a preservative.
For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Eye drops, solution.
The solution is clear and colourless to pale yellow. The solution is buffered to a pH of approximately 7.

4. CLINICAL PARTICULARS

4.1. Therapeutic indications

Patanol Eye Drops are indicated for the treatment of the signs and symptoms of allergic conjunctivitis.

4.2. Dose and method of administration

The recommended therapy is one to two drops of Patanol Eye Drops in the affected eye(s) twice daily.

4.3. Contraindications

Patanol Eye Drops are contraindicated in patients hypersensitive to olopatadine hydrochloride or any other component of the preparation listed under Section 6.1.

4.4. Special warnings and precautions for use

Not for injection or oral ingestion.

Paediatric use
Safety and effectiveness have not been established in children below 3 years of age.

Instructions to patients
Patanol contains the preservative benzalkonium chloride, which may cause eye irritation and be deposited in or discolor soft (hydrophilic) contact lenses. Avoid contact with soft contact lenses. Patients who wear soft contact lenses should remove their lenses prior to instilling Patanol Eye Drops and should not reinsert their lenses until at least 15 minutes after instillation of the eye drops.

To prevent contaminating the dropper tip and solution, care should be taken not to touch the eyelids or surrounding areas with the dropper tip of the bottle. The bottle should be tightly closed when not in use.

Each bottle of Patanol Eye Drops should be discarded within 28 days of opening

4.5 Interactions with other medicinal products and other forms of interactions

Interactions with other medications have not been investigated in vivo. Drug interaction
studies on human liver microsomal preparation have shown that olopatadine is not an inhibitor of cytochrome P-450 isozymes 1A2, 2C8/9, 2C19, 2D6, 2E1 or 3A1. Patanol Eye Drops have low drug interaction potential as systemic levels of olopatadine achieved after ocular dosing are negligible and 60 - 70 % of the drug is excreted unchanged in the urine.

4.6 Fertility, pregnancy and lactation

Pregnancy

No adequate and well controlled studies have been performed with olopatadine in pregnant women, therefore, it should be carefully considered whether the potential benefit to the mother justifies the potential risk to the embryo or fetus.

See Section 5.2. Pre-clinical safety studies for animal reproductive studies of olopatadine.

Breast-feeding

It is not known whether topical ocular administration could result in sufficient systemic absorption to produce detectable quantities of olopatadine/metabolites in human breast milk.

Patients should be informed that antihistamines may affect the milk production of a nursing mother.

Patanol Eye Drops should be used with caution in breastfeeding woman.

See Section 5.2. Pre-clinical safety studies for animal lactation studies of olopatadine.

Fertility

There are no human data addressing the effects of topical ocular administration of olopatadine on human fertility.

4.7 Effects on ability to drive or use machines

Instillation of eye drops may cause transient blurring of vision or other visual disturbances which may affect the ability to drive or use machines. The patient must wait until vision clears before driving or operating machinery if blurred vision is experienced.

4.8 Undesirable effects

Headaches have been reported at an incidence of 7 %. The following adverse experiences have been reported in less than 5 % of patients: asthenia, blurred vision, burning or stinging, cold syndrome, dry eye, foreign body sensation, hyperaemia, hypersensitivity, keratitis, lid oedema, nausea, pharyngitis, pruritus, rhinitis, sinusitis and taste perversion. Some of these events are similar to the underlying disease being studied.

Post Marketing Experience

The following adverse reactions have been reported during clinical studies with Patanol Eye Drops and are classified according to the subsequent convention: very common (≥ 1/10), common (≥ 1/100 to<1/10), uncommon (≥1/1,000 to <1/100), rare (≥1/10,000 to <1/1,000) and very rare (<1/10,000). Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness.

Eye disorders

Uncommon (≥ 0.1% to < 1%): punctate keratitis, keratitis, eye pain, dry eye, eyelid oedema, eye pruritus, eye discharge, ocular hyperaemia, eyelid margin crusting, ocular discomfort.

Rare (≥ 0.01% to < 0.1%): photophobia, vision blurred, erythema of eyelid.
Nervous system disorders
Uncommon (≥ 0.1% to < 1%): headache, dysgeusia.
Rare (≥ 0.01% to < 0.1%): dizziness.

Respiratory, thoracic and mediastinal disorders
Uncommon (≥ 0.1% to < 1%): nasal dryness.

Gastrointestinal disorders
Rare (≥ 0.01% to < 0.1%): dry mouth.

Skin and subcutaneous tissue disorders
Rare (≥ 0.01% to < 0.1%): dermatitis contact.

General disorders and administration site conditions
Uncommon (≥ 0.1% to < 1%): fatigue.

Additional adverse reactions identified from post-marketing surveillance include the following. Frequencies cannot be estimated from the available data.

Eye disorders
Lacrimation increased.

Immune system disorders
Hypersensitivity

Gastrointestinal disorders
Nausea.

Reporting of suspected adverse reactions
Reporting suspected adverse reactions after authorisation of the medicine is important. It allows continued monitoring of the benefit/risk balance of the medicine. Healthcare professionals are asked to report any suspected adverse reactions https://nzphvc.otago.ac.nz/reporting.

4.9 Overdose

No specific ocular side effects are known for a topical overdosage of Patanol Eye Drops. Results from studies indicated that topical ocular administration resulted in very low systemic concentrations. Multiple oral doses that resulted in plasma concentrations at least 2 to 3 orders of magnitude greater than those from topical ocular dosing were well tolerated.

A topical overdosage of Patanol Eye Drops may be flushed from the eye(s) with warm tap water.

If Patanol Eye Drops are accidentally ingested the following information may be useful. One bottle contains 5 mg of olopatadine. In single dose oral studies, olopatadine was well tolerated up to a dose of 360 mg, with rapid absorption and rapid excretion of the parent drug in the urine. Approximately 84% of the dose was recovered in the urine as parent drug within the first 24 hours. The most often observed side effect was tiredness usually of a mild to moderate nature, although severe tiredness has been reported.

Due to the characteristics of this preparation, no toxic effects are to be expected with an ocular overdose of this product, nor in the event of accidental ingestion of the contents of one bottle.
For advice on the management of overdose please contact the National Poisons Centre on 0800 POISON or 0800 764 766.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic Group: ophthalmologicals; decongestant and antiallergics; other antiallergics, ATC code: S01GX 09.

Mechanism of action

Olopatadine is an anti-allergic compound which has been demonstrated to stabilize human conjunctival tissue mast cells, preventing the release of histamine and other inflammatory mediators.

Pharmacodynamic effects

Olopatadine is a selective histamine H1-antagonist (Ki values for Histamine H1, H2 and H3 receptors were 32 nM, 100 (M and 79 (M, respectively) that inhibits Type I immediate hypersensitivity reactions. It has been shown to inhibit the release of pro-inflammatory mediators from human conjunctival mast and epithelial cells. Olopatadine has no significant effects on alpha-adrenergic, dopamine and muscarinic Type 1 and 2 receptors.

Clinical efficacy and safety

The safety of Patanol Eye Drops was evaluated in 15 clinical studies in which 1,208 patients were evaluated for safety. These studies included three clinical pharmacology plasma level and tear studies, three comfort studies, five conjunctival antigen challenge studies, an environmental study, an adjunct study to loratadine and two additional safety studies. These 15 studies show no clinically significant change observed in visual acuity, pupil diameter, pupillary response, intraocular pressure, dilated fundus parameters, blood chemistry, haematology, urinalysis, pulse or mean arterial pressure in patients receiving Patanol Eye Drops.

Three studies assessed the comfort of Patanol relative to other agents. Each included 30 subjects. They were single dose crossover studies in which all subjects received all test agents, and single- blinded because the subjects themselves reported the comfort of the agents tested. In one study olopatadine 0.1% was compared to ketorolac 0.5%. In the two other studies, olopatadine 0.1% was compared to ketorolac 0.5% and levocabastine 0.05%. The studies showed that Patanol Eye Drops 0.1 % was significantly more comfortable than ketorolac 0.5 % and levocabastine 0.05 %.

Results from three pivotal conjunctival antigen challenge studies involving 278 patients demonstrated that, when subjects were challenged with antigen both initially and up to 8 hours after dosing, Patanol Eye Drops were significantly more effective than the placebo in preventing chemosis, ocular itching and redness.

Results are also available from a randomised, placebo-controlled study assessing the prophylactic use of Patanol Eye drops in 132 patients with seasonal allergic conjunctivitis or rhinoconjunctivitis. Patanol was found to significantly reduce (in comparison to placebo) the effects of pollen counts on ocular itching, redness, sneezing, runny nose, and itchy nose.

5.2 Pharmacokinetic properties

Following topical ocular administration in humans, olopatadine was shown to have low systemic exposure. Two studies in normal volunteers (totalling 24 subjects) dosed
bilaterally with olopatadine 0.15% ophthalmic solution once every 12 hours for two weeks demonstrated plasma concentrations to be generally below the quantitation limit of the assay (< 0.5 ng/mL). Samples in which olopatadine was quantifiable were typically found within 2 hours of dosing and ranged from 0.5 to 1.3 ng/mL. The half-life in plasma was approximately 8 - 12 hours and elimination was predominantly through renal excretion. Approximately 60 - 70 % of the dose was recovered in the urine as parent drug. Two metabolites, the mono-desmethyl and the N-oxide, were detected at low concentrations in the urine.

5.3 Preclinical safety data

Pregnancy

Studies in animals with olopatadine have shown reproductive toxicity following systemic administration. Olopatadine was not teratogenic in rats and rabbits at oral doses of 600 mg/kg and 400 mg/kg, respectively (> 90,000 and > 60,000 times the maximum recommended ocular human use level, respectively). Animal studies are not always predictive of human responses.

Breast-feeding

Olopatadine has been identified in the milk of nursing rats following oral administration. Rat pups of mothers administered olopatadine orally at greater than 4 mg/kg/day showed (625 times - but not at 312 times - the maximum recommended ocular human use level demonstrated) reduced body weight gain during the nursing period.

Fertility

In animal reproductive/fertility studies, olopatadine had no effect on the fertility of male and female rats at oral doses up to 50 mg/kg/day (7,800 times the maximum recommended ocular human use level). However, decreases in the fertility index, number of corpora lutea and implantation rate were seen at an oral dose of 400 mg/kg/day.

Carcinogenicity

Long term studies in mice and rats did not provide any evidence of carcinogenicity at oral olopatadine doses up to 500 mg/kg/day and 200 mg/kg/day, respectively (78,000 and 31,000 times the maximum recommended ocular human use level, respectively).

Mutagenicity

No mutagenic potential was observed when olopatadine was tested in an in vitro bacterial reverse mutation (Ames) test, an in vitro mammalian chromosome aberration assay or an in vivo mouse micronucleus test.

6. PHARMACEUTICAL PARTICULARS

6.1. List of excipients

Benzalkonium chloride
Sodium chloride
Dibasic sodium phosphate
Hydrochloric acid/sodium hydroxide to adjust pH
Purified water.

6.2 Incompatibilities

Not known.
6.3 Shelf life
24 month Shelf-life for Patanol eye drops manufactured by the Alcon Cusi SA, Spain manufacturing site.
36 month Shelf-life for Patanol eye drops supplied from all other manufacturing sites.

6.4 Special precautions for storage
Store below 25° C.
Discard container 28 days after opening.

6.5 Nature and contents of container
5 mL dispenser.

6.6 Special precautions for disposal
No special requirements for disposal.

7. MEDICINE SCHEDULE
Prescription Only Medicine

8. SPONSOR
Novartis New Zealand Limited
PO Box 99102
Newmarket
Auckland 1149
New Zealand.
Free Phone: 0800 354 335

9. DATE OF FIRST APPROVAL
7 August 2015

10. DATE OF REVISION OF THE TEXT
30 May 2023

SUMMARY TABLE OF CHANGES

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