Efemoline®

Composition
Active substances: Fluorometholone, tetryzoline hydrochloride
Freinients: Hypromellose; benzalkonium chloride as preservative, vehicle excipients

Pharmaceutical form and quantity of active substance per unit Eye drops (suspension): 1 mg fluorometholone per ml, 0.25 mg tetryzoline hydr

Indications / Potential uses
Acute, non-infectious allergic compinionity is and keratitis (especially when accompanied by severe swelling and intense injection).
Non-infectious inflammation of the anterior segment of the eye (incl. anterior usells, episcleritis and scleritis).
Post-operative conditions following surgery for strabismus, cataract or glaucoma; in combination with antimicrobial therapy.

Dosage and Administration

Adults
I drop, instilled into the conjunctival sac 2-3 times daily.
In adults, the dosage can be increased to 1 drop per hour for the first 24-48 hours. Caution is required in patients with reactive

Children No relevant adverse eff nt studies have been performed. Efemoline should not be used in children under 6 years of age due to the risk of systemic

Contraindications

Hypersensitivity to fluorometholone, tetryzoline or any other component of the formulation
Infectious conjunctivitis or keratitis.

- Hypersensitivity to fluorometholone, tetrozome or any unen components and interesting conjunctivities or keartists.

 Corneal lesions and ulcerative processes, particularly in patients with infections caused by viruses, bacteria or fungi (e.g. herpes simplex, vaccinia, untreated parulent infections, tuberculosis).

 Glaucoma.

 Topical application of steroids may lead to perforation in diseases that cause parenchymal thinning of the cornea or sclera. Etheroline eye drops are contraindicated in patients with dry eye, particularly those with keratoconjunctivitis sicca (Sjägen's syndrome).

 Etemoline must not be used in children under 6 years of age.

Etenoline must not be used in children under 5 years of age.

Warnings and Precautions

A cardial appraisal of the rick-benefit ratio must be undertaken before using the groduct in patients undergoing treatment with MAD inhibitors or thort furgist that mys increase blood pressure, in patients with severe cardiovescular disease (e.g. conorary heart disease, hypertension, placechromocytoma) or metabolic disorders (e.g. hyperthyroidism, diabetes), and in patients with a history of cataract or herpers simples infection.

Use with caution in patients with rhinitis sicca. Reactive hyperaemian may occur following withdrawal of the product. This medicinal product is not intended from learner use. Montringe — in particular of systemic adverse effects, intraocular pressure and secondary infections — is necessary if treatment is to last longer than 2–3 days.

The possibility of fungal interior must be considered if symptoms of chronic eye inflammation persist. Eye infections may be masked, activated or exacerbated by Efemoline. Hypersensitivity reactions to components of Efemoline may be masked.

maskeu. Corticost intraocul teroids may raise intraocular pressure in predisposed patients. Although this property is not very pronounced in fluor Iar pressure should be carefully checked when there is prolonged use. Prolonged use entails the risk of lens opacity.

Note for contact lens wearers Patients with eye inflammation sh

Interactions
Interactions known to oc
Concomitant administra
vasoconstrictor effect. occur with systemic corticosteroids are of secondary importance in patients undergoing topical administration. tration of MAO inhibitors and tricyclic antidepressants may cause elevated blood pressure by potentiating the

Pregnancy and Lactation

gelatify and Cactation of the control of the contro

Effects on ability to drive and use machines
Temporary blurring – or other impairment – of vision may adversely affect the patient's ability to drive or use machines. Patients should not carry out these activities until such disturbances have subsided.

not carry out these activities until such disturbances have subsided.

Adverse effects
Fee disorders

The following effects have been reported in conjunction with long-term topical steroid treatment:

Increase in intraocular pressure (regular monitoring of intraocular pressure is essential).

Posterior subcapsular cataract.

Promotion of secondary fungal infection in eye tissue.

Corneal melt.

Perforation of the eyeball.

Teltypoline may cause conjunctival irritation, nucosal dyness and, in rare cases, mydriasis.

A mild burning sensation may briefly occur after application. Reactive hyperaemia (rebound effect) may occur in conjunction with prolonged use of the poduct. In rare cases, there may be allergic reactions such as punctate keratitis, periocular dermatitis or eczema of the free magnis of the eyelids.

In general, the following adverse effects may occur in conjunction with topical steroid treatment:

Secondary infectious, elevated susceptibility to infection (in particular mycosis, herpes simplex).

Delayed wound healing.

Mydriasis and, in very rare cases, ptosis.

Tophic corneal damage (possible after only 1 week of treatment).

Rarely, exopitibalmus.

Ceneral disorders

General disorders

Despite the low doses used in topical application, it is not possible — particularly in children and in geriatric patients — to rule out the adverse systemic sympathomimetic effects of vasoconstrictors: palpitations, arrhythmia, anginal symptoms, hypertension, occipital headache, pallon, central excitation, termor, sweating.

Overdose
When the product is used as directed, there is almost no likelihood of an overdose. The symptoms of acute overdosage with tetryzoline are CNS, cardiac and psychiatric disturbances, mydriasis, cyanosis and fever. CNS functions may be inhibited under certain circumstances.

The following measures are possible in case of accidental oral ingestion and the occurrence of symptoms of intoxication: administration of activated charcosal, gastric lavage, artificial ventilation with oxygen, use of phentolamine to lower blood pressure (5 mg in saline solution, given i.v.). Vasopressors are contraindicated. Antipyretic and anticonvulsive therapy can be administered as necessary.

solution, given i.v.). Vasiopressors are contraindicated. Antipyretic and anticonvulsive therapy can be administered as necessary. Properties and Actions
ATC code. SDIGAS2
ATC code. SDIGAS2
ATC code. SDIGAS2
The anti-inflammatory effect of fluorometholone is, over 40 times greater than that of hydrocortisone. Like all glucocorticoids, fluorometholone inhibits phospholipose AZ, the first step in prostaglandin synthesis. In addition, it inhibits the chemotactic migration of neutrophils into the focus of inflammation. Unlike other floring oil phthaline glucocorticoids, fluorometholone has only a sight effect on intraocular pressure. It exerts less of an immunosuppressive effect than does decamethasone. Fluorometholone has less of an effect on intraocular pressure than other corticostroids because it is degraded more projity in tissues.

The alpha-sympathominetic agent tetryzoline brings about rapid local vasoconstriction, which alleviates conjunctival swelling, hyperaemia and irritation.

Elemoline contains hypromellose, a viscosity-enhancing excipient that prolongs retention time on the eye.

Pharmacokinetics
Fluorometholone
Peak concentrations of active substance were measured in the cornea and aqueous humour 30 minutes after a single application of eye drops containing 0.1% fluorometholone. The half-life of fluorometholone in the aqueous humour is reported to be 54 minutes.

Tetryzoline
Tetryzoline bydrochloride can be easily absorbed, even following topical application to the eye, so systemic effects may occur in the event of overdosage. The vasoconstrictor effect of tetryzoline hydrochloride has its onset 30 seconds to 1 minute after application, and lasts for 1-4 hours. Preclinical data

Preclinical data Fluoromethologe Generally, corticosteroids do not gose any risks unless there has been prolonged overdosage. Application of fluorometholone eye drops in rabbits three times a day for one month, at concentrations of 0.1%, 0.05% or 0.01%, did not cause any persistent local changes in the eyes. Tetryzoline can be considered moderately to slightly toxic, having an acute oral LD50 of 420 mg/kg in mice and 785 mg/kg in rats and an intravenous LD50 of 40 mg/kg and 35 mg/kg, respectively, in these species. No eye irritation was seen following repeated administration in rabbits. A sensitization test using a modified Draize method showed no contact ellegenic potential. The minimum lethal intransaci dose for a 2 year old child is reported to be 5 mg tetryzoline. Oral ingestion of 4 mg led to sever symptoms in a 16 month old by. Nasal application of tetryzoline at doses higher than about 1 mg may be toxic in infants.

Other information

When stored unopened, Efemoline eye drops may be used until the expiry date (= EXP) printed on the pack and on the dropper bottle

Special precautions for storage Store at room temperature.

Journe or commemperature.

Instructions for use and handling
Shake the dropper bottle prior to use. Close immediately after use. Do not touch the dropper tip. After opening, do not use for more
than I month.

Pack sizes Country specific pack sizes

Manufacturer See folding box

Information last revised November 2006

Approval date (text)

B = registered trade

Novartis Pharma AG, Basle, Switzerland

This is a medicament - A medicament is a product which affects your health, and its consumption co - Tollow strictly the doctor's prescription, the method of use and the instruction - The doctor and the pharmacist are experts in medicine, its benefits and risks. - Do not by yourself interrupt the period of treatment prescribed for you. - Do not repeat the same prescription without consulting your doctor.

- ontrary to instructions is dangerous for you. ns of the pharmacist who sold the medicament

Keep medicaments out of reach of children

Council of Arab Health Ministers Union of Arab Pharmacists **U** NOVARTIS

