

# 11 Eye

**Comment:** Preservative-free versions of eye drops can be prescribed in patients with allergy to preservatives or patients receiving more than 4 doses of preservative per day. Opt. specialists are defined as anyone in a primary or secondary care setting who may have specialist knowledge on the prescribing of medicines for eye conditions. Prescribing should be in line with competencies/specialist knowledge.

## 1 Allergic and inflammatory eye conditions

1.1 Allergic conjunctivitis		Primary Care	Acute/ Opt. Specialists
	Sodium Cromoglicate (1 <sup>st</sup> line)	✓	✓
	Olopatadine (Opatanol <sup>®</sup> ) (2 <sup>nd</sup> line)	✓	✓
	Lodoxamide (Alomide <sup>®</sup> ) (2 <sup>nd</sup> line)	✓	✓
	Antazoline with xylometazoline (Otrivine-Antistin <sup>®</sup> )	✓	✓
<b>Comment:</b> Otrivine-Antistin <sup>®</sup> contains the sympathomimetic xylometazoline. It should be avoided in angle-closure glaucoma.			
	Azelastine (Optilast <sup>®</sup> )	✓	✓

1.2 Inflammatory eye conditions		Primary Care	Acute/ Opt. Specialists
<b>Non-steroidal anti-inflammatory drugs</b>			
	Nepafenac (Nevanac <sup>®</sup> )	⊕	✓
<b>Corticosteroids</b>			
<b>Comment:</b> Steroid eye drops - Ophthalmologist recommendation only - GPs should not initiate.			
	Prednisolone 0.5% , 1.0% (Pred-Forte <sup>®</sup> ), 0.5% P/F (Minims <sup>®</sup> ) (1 <sup>st</sup> line)	⊕	✓
	Dexamethasone (Maxidex <sup>®</sup> drops, Maxitrol <sup>®</sup> drops, ointment, Dexafree <sup>®</sup> P/F UDV) (2 <sup>nd</sup> line)	⊕	✓
	Fluorometholone (FML <sup>®</sup> )	⊕	✓
	Hydrocortisone sodium phosphate (Softacort <sup>®</sup> )	⊕	✓
<b>Intravitreal Corticosteroids</b>			
	Dexamethasone intravitreal implant (Ozurdex <sup>®</sup> )		✓
<b>Immunosuppressants</b>			
	Ciclosporin eye drops 1mg/ml (Verkazia <sup>®</sup> ) (treatment of severe vernal keratoconjunctivitis in children from 4 years of age and adolescents)	⊕	✓

**Key** ✓ Initiate and continue ⊕ Continue where appropriate.

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1.2a Anterior Uveitis		Primary Care	Acute/ Opt. Specialists
<b>Antimuscarinics</b>			
	Atropine 1% (Minims <sup>®</sup> )	⊕	✓
	Cyclopentolate (Drops & Minims <sup>®</sup> )	✓	✓
<b>Uveitis</b>			
	Adalimumab (Imraldi <sup>®</sup> )		✓

2. Dry eye conditions		Primary Care	Acute/ Opt. Specialists
<b>Comment:</b> Preservative free products for use in patients with allergy to preservatives or patients receiving more than 4 doses of preservative per day To ensure the most cost-effective product is dispensed. Products should be prescribed by the brand name where specified.			
<b>1<sup>st</sup> line Ocular Lubricants (mild – moderate disease)</b>			
<b>Standard Eye Drops</b>			
	Carbomer 980 0.2% Gel (Clinitas <sup>®</sup> )	✓	✓
	Hypromellose 0.3% drops	✓	✓
<b>Preservative Free</b>			
<b>Eye Drops</b>			
	Carbomer 980 0.2% (Evolve <sup>®</sup> )	✓	✓
	Hypromellose 0.3% (Evolve <sup>®</sup> )	✓	✓
<b>Unit Dose Vials (UDV)</b>			
	Carbomer 980 0.2% (Viscotears <sup>®</sup> )	✓	✓
	Hypromellose 0.3% (Hydromoor <sup>®</sup> )	✓	✓
<b>Eye ointment</b>			
	Hylo-Night <sup>®</sup> (previously known as VitA-POS <sup>®</sup> )	✓	✓
	Xailin Night <sup>®</sup>	✓	✓
<b>2nd line Ocular Lubricants (moderate – severe disease)</b>			
<b>Preservative Free</b>			
<b>Eye Drops</b>			
	Carmellose sodium 0.5%, 1% (VIZcellose <sup>®</sup> )	✓	✓
	Sodium hyaluronate 0.1% (Hylo-Tear <sup>®</sup> , VIZhyal <sup>®</sup> ), 0.2% (Evolve HA, Hylo-Forte), 0.4% (VIZhyal <sup>®</sup> )	✓	✓

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Unit Dose Vials (UDV)			
	Carmellose sodium 0.5%, 1% (Celluvisc <sup>®</sup> )	✓	✓
	Sodium hyaluronate 0.2% (Blink <sup>®</sup> Intensive Tears), 0.4% (Hydramed <sup>®</sup> Forte)	✓	✓
<b>Comment:</b> Evolve range – can be used for up to 3 months after bottle has been opened Hylo- range can be used for up to 6 months after bottle has been opened			
	Sodium hyaluronate + Co-enzyme Q10 ( VisuXL <sup>®</sup> )	⊕	✓
<b>Comment:</b> VisuXL can be continued in primary care if recommended by the corneal ulcer clinic			
	Hydroxypropyl guar (Systane <sup>®</sup> ) (eye drops, unit dose vials)	⊕	✓
Miscellaneous			
	Acetylcysteine 5% (Ilube <sup>®</sup> )	⊕	✓
	Ciclosporin eye drops 1mg/ml (Ikervis <sup>®</sup> )	⊕	✓
<b>Comment :</b> For treatment of severe keratitis in adults with dry eyes which has not improved despite treatment with tear substitutes			
	Hydroxyethylcellulose eye drops 0.44% (Minims <sup>®</sup> Artificial Tears UDV)	⊕	✓

## 3. Eye Infections

3.1 Bacterial eye infections		Primary Care	Acute/ Opt. Specialists
	Chloramphenicol (1 <sup>st</sup> line)	✓	✓
<b>Comment:</b> Chloramphenicol eye drops are well tolerated and the recommendation that they should be avoided because of increased risk of aplastic anaemia is not well founded.			
	Fusidic acid (2 <sup>nd</sup> line)	✓	✓
	Gentamicin (2 <sup>nd</sup> line)	✓	✓
Corneal Ulcers			
	Ofloxacin (1 <sup>st</sup> line)	⊕	✓
<b>Comment:</b> Severe corneal infection (keratitis) should be managed with ofloxacin initially pending microbiology studies			
	Levofloxacin ( eye drops, P/F UDV) (2 <sup>nd</sup> line)	⊕	✓
Acanthamoeba Keratitis			
	Brolene <sup>®</sup> eye drops + chlorhexidine gluconate 0.02% eye drops (unlicensed)		✓
Prophylaxis of Endophthalmitis			
	Cefuroxime intracameral injection (Aprokam <sup>®</sup> )		✓

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3.2 Viral eye infection		Primary Care	Acute/ Opt. Specialists
	Ganciclovir (Virgan <sup>®</sup> ) (1 <sup>st</sup> line)	⊕	✓
	Aciclovir eye ointment (2 <sup>nd</sup> line)	⊕	✓

4. Eye procedures		Primary Care	Acute/ Opt. Specialists
<b>Mydriatics and cycloplegics</b>			
<b>Antimuscarinics</b>			
	Tropicamide Minims <sup>®</sup> 0.5%, 1%	⊕	✓
<b>Antiseptics and disinfectants</b>			
	Povidone-iodine 5%		✓
<b>Diagnostic agents - dyes</b>			
	Fluorescein sodium Minims <sup>®</sup>		✓
<b>Miotics</b>			
<b>Parasympathomimetics</b>			
	Acetylcholine (Miochol-E <sup>®</sup> )		✓
	Phenylephrine Minims <sup>®</sup>		✓

4.1 Post-operative pain and inflammation		Primary Care	Acute/ Opt. Specialists
<b>Eye, surgical and peri-operative drug use</b>			
<b>Anaesthetics, local</b>			
	Fluorescein with lidocaine Minims <sup>®</sup>	✓	✓
	Oxybupricaine Minims <sup>®</sup>	✓	✓
	Proxymetacaine Minims <sup>®</sup> (less stinging than others)	✓	✓
	Tetracaine 1% Minims <sup>®</sup>	✓	✓
<b>Analgesics – Non-steroidal ant-inflammatory drugs</b>			
	Diclofenac Sodium 0.1% (Voltarol Optha <sup>®</sup> )	⊕	✓
	Ketorolac trometamol 0.5% (Acular <sup>®</sup> )	⊕	✓
	Loteprednol (Lotemax <sup>®</sup> )		✓

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5. Glaucoma and ocular hypertension		Primary Care	Acute/ Opt. Specialists
<b>Comment:</b> Preservative-free versions of glaucoma eye drops can be prescribed in patients with allergy to preservatives or patients receiving more than 4 doses of preservative per day.			
<b>Beta-blockers</b>			
	Timolol 0.25%, 0.5% eye drops	⊕	✓
	Timoptol- LA <sup>®</sup> 0.25%, 0.5% eye gel (if compliance issues or once daily preparation required)	⊕	✓
<b>Preservative Free</b>			
	Timolol 0.1% unit dose eye gel (Tiopex <sup>®</sup> )	⊕	✓
	Timolol P/F eye drops 0.25% (Eysano <sup>®</sup> )	⊕	✓
<b>Carbonic anhydrase inhibitors</b>			
	Dorzolamide (1 <sup>st</sup> line)	⊕	✓
	Brinzolamide (2 <sup>nd</sup> line)	⊕	✓
<b>Preservative Free</b>			
	Dorzolamide P/F (Trusopt <sup>®</sup> )	⊕	✓
<b>Combination Products</b>			
	Dorzolamide + timolol	⊕	✓
	Brinzolamide + timolol	⊕	✓
<b>Preservative Free</b>			
	Dorzolamide + timolol P/F	⊕	✓
<b>Systemic drugs</b>			
	Acetazolamide	⊕	✓
	Acetazolamide 500mg IV injection		✓
<b>Miotics</b>			
	Pilocarpine	⊕	✓
<b>Prostaglandin analogues</b>			
	Latanoprost (1 <sup>st</sup> line)	⊕	✓
	Bimatoprost (1 <sup>st</sup> line)	⊕	✓
	Travoprost (3 <sup>rd</sup> line)	⊕	✓
<b>Preservative Free</b>			
	Latanoprost P/F (Monopost <sup>®</sup> )	⊕	✓

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	Bimatoprost P/F (Lumigan <sup>®</sup> )	⊕	✓
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Combination Products			
	Latanoprost + timolol	⊕	✓
	Bimatoprost + timolol (Ganfort <sup>®</sup> )	⊕	✓
	Travoprost + timolol (Duotrav <sup>®</sup> )	⊕	✓
Preservative Free			
	Latanoprost+ timolol P/F (Fixapost <sup>®</sup> )	⊕	✓
	Bimatoprost + timolol P/F (Ganfort <sup>®</sup> )	⊕	✓
Sympathomimetics			
	Apraclonidine 0.5% drops, 1% UDV (Lopidine <sup>®</sup> )	⊕	✓
	Brimonidine	⊕	✓
Combination Products			
	Brimonidine + timolol (Combigan <sup>®</sup> )	⊕	✓
	Brimonidine + brinzolamide (Simbrinza <sup>®</sup> )	⊕	✓

## 6. Retinal disorders

6.1 Macular degeneration	Primary Care	Acute/ Opt. Specialists
Vascular Endothelial Growth Factor Inhibitors		
	Aflibercept (Eylea <sup>®</sup> ) (1 <sup>st</sup> line)	✓
	Brolucizumab (Beovu <sup>®</sup> ) (1 <sup>st</sup> line)	✓
	Ranibizumab (Lucentis <sup>®</sup> ) (2 <sup>nd</sup> line)	✓

6.2 Macular oedema	Primary Care	Acute/ Opt. Specialists
	Fluocinolone acetonide implant (Iluvien <sup>®</sup> )	✓

**Comment:** Fluocinolone is approved for use for the prevention of relapse in recurrent non-infectious uveitis affecting the posterior segment of the eye

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6.3 Optic neuropathy		Primary Care	Acute/ Opt. Specialists
	Idebenone (Raxone <sup>®</sup> )		✓
6.4 Vitreomacular traction		Primary Care	Acute/ Opt. Specialists
	Ocriplasmin (Jetrea <sup>®</sup> )		✓
Peri-Operative Preparations/Emergency Use			
	Amikacin (endophthalmitis)		✓
	Amphotericin B (endophthalmitis)		✓
	Ceftazidime (endophthalmitis)		✓
	Cefuroxime 5% eye drops (severe keratitis) – unlicensed product		✓
	Dexamethasone sodium injection preservative free		✓
	Disodium edetate (EDTA) 0.37% eye drops (corneal burns)		✓
	Fluorescein IV 20%		✓
	Hydroxyamphetamine eye drops (for pupil testing)		✓
	Gentamicin 1.5% eye drops (severe keratitis) – unlicensed product		✓
	Mydrane <sup>®</sup>		✓
	Mydrasert <sup>®</sup>		✓
	Natamycin (fungal keratitis) – unlicensed product		✓
	Penicillin 0.3% eye drops (severe keratitis) – unlicensed product		✓
	Potassium ascorbate (ascorbic acid 10%)		✓
	Vancomycin (endophthalmitis)		✓
<b>Comment:</b> - Severe intraocular infection (endophthalmitis) should be managed as per Royal College of Ophthalmologist guidelines and following discussion with the local vitreoretinal unit			

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