

Clinical Guide to Ophthalmic Drugs 2016 Addendum for Canadian Optometrists

Compiled by Ety Bitton, OD, MSc, and Michelle Zakem

TOPICAL ANTI-INFECTIVE DRUGS						
BRAND NAME	GENERIC NAME	MANUFACTURER	GENERIC	PREPARATION	BOTTLE/TUBE	PEDIATRIC USE
ANTIBIOTIC DRUGS						
Fluoroquinolones						
Besivance	besifloxacin 0.6%	Bausch + Lomb		suspension	5mL	≥1 year
Ciloxan	ciprofloxacin 0.3%	Alcon	✓	sol./ung.	5mL, 10mL/3.5g	≥1 year
Ocuflox	ofloxacin 0.3%	Allergan	✓	sol.	5mL	≥18 years
Vigamox	moxifloxacin 0.5%	Alcon	✓	sol.	3mL	≥1 year
Zymar	gatifloxacin 0.3%	Allergan		sol.	1mL, 5mL	≥1 year
Aminoglycosides						
Gentamicin	gentamicin 0.3%	generic only	✓	sol./ung.	5mL/3.5g	≥6 years
Soframycin	framycetin 0.5%	ERFA Canada		sol./ung.	8mL/5g	N/A
Tobrex	tobramycin 0.3%	Alcon	✓	sol./ung.	5mL/3.5g	≥2 months
Polymyxin B Combinations						
Optimycin	polymyxin B, bacitracin	generics	✓	ointment	3.5g	N/A
Optimycin Plus	polymyxin B, gramacidin, neomycin	generics	✓	sol.	10mL	N/A
Polytrim	polymyxin B/trimethoprim	Allergan	✓	sol.	10mL	≥2 months
Polysporin Pink Eye Drops	polymyxin B/gramicidin	Johnson & Johnson		sol.	15mL	all ages
Macrolides						
erythromycin	erythromycin 0.5%	generic	✓	unguent	3.5g	all ages
Fusidic Acid						
Fucithalmic	fusidic acid 1%	Methapharm		suspension	5g	≥2 years
ANTI-VIRAL AGENT						
Viroptic	trifluridine 1.0%	Valeant		sol.	7.5mL	≥6 years
TOPICAL ANTI-INFLAMMATORY DRUGS						
BRAND NAME	GENERIC NAME	MANUFACTURER	GENERIC	PREPARATION	BOTTLE/TUBE	PEDIATRIC USE
Non-Steroidal Anti-Inflammatory Drugs (NSAIDs)						
Acular	ketorolac tromethamine 0.5%	Allergan	✓	sol.	5mL, 10mL	Not established
Acular LS	ketorolac tromethamine 0.4%	Allergan		sol.	5mL	Not established
Acuvail	ketorolac tromethamine 0.45%	Allergan		sol.	60 x 0.4mL	Not established
Ilevro	nepafenac 0.3%	Alcon		suspension	3mL	>18 years
Nevanac	nepafenac 0.1%	Alcon		suspension	5mL	>18 years
Prolensa	bromfenac 0.07%	Bausch + Lomb		sol.	3mL	≥18 years
Voltaren	diclofenac 0.1%	Alcon		sol.	10mL	>18 years
Corticosteroid Drugs						
Maximum Strength Steroids						
Durezol	difluprednate 0.05%	Alcon		emulsion	5mL	N/A
Lotemax gel	loteprednol etabonate 0.5%	Bausch + Lomb		gel	5g in 10mL	≥18 years
Lotemax Ointment (preservative free)	loteprednol etabonate 0.5%	Bausch + Lomb		ointment	3.5g	≥18 years
Maxidex	dexamethasone alcohol 0.1%	Alcon		susp./ung.	5mL/3.5g	≥18 years
dexamethasone phosphate	dexamethasone phosphate 0.1%	generics		sol./ung.	5mL	≥18 years
Pred Forte	prednisolone acetate 1%	Allergan	✓	suspension	1mL, 5mL, 10mL	≥18 years
Moderate and Lesser Strength Steroids						
Alrex	loteprednol etabonate 0.2%	Bausch + Lomb		suspension	5mL	≥18 years
Flarex	fluorometholone acetate 0.1%	Alcon	✓	suspension	3mL, 5mL	≥18 years
FML	fluorometholone 0.1%	Allergan	✓	suspension	5mL, 10mL	>2 years
Lotemax	loteprednol etabonate 0.5%	Bausch + Lomb		suspension	5mL, 10mL	≥18 years
Minims prednisolone phosphate	prednisolone phosphate 0.5%	Valeant	✓	sol.	20 x 0.5mL	N/A
Pred Mild	prednisolone acetate 0.12%	Allergan	✓	suspension	10mL	≥18 years
prednisolone phosphate	prednisolone phosphate 1%	generics	✓	sol.	5mL, 10mL	N/A
Anti-inflammatory/Immunomodulatory Drugs						
Restasis	cyclosporine 0.05%	Allergan		emulsion	unit dose (30 x 0.4mL, 60 x 0.4mL)	≥18 years

TOPICAL STEROID/ANTIBIOTIC COMBINATION DRUGS						
BRAND NAME	MANUFACTURER	ANTIBIOTIC/STEROID	GENERIC	PREPARATION	BOTTLE/TUBE	PEDIATRIC USE
Blephamide	Allergan	sodium sulfacetamide 10%/prednisolone acetate 0.2%	✓	susp./ung.	5mL, 10mL/ 3.5g	≥6 years
Maxitrol	Alcon	neomycin 0.35%, polymyxin B 6000 IU/dexamethasone 0.1%	✓	sol./ung.	5mL/ 3.5g	N/A
Opticort	Sandoz	framycetin sulfate 0.5% & gramicidin 0.005%/dexamethasone 0.05%		sol	8mL	N/A
Sofracort	Sanofi-Aventis	framycetin sulfate 0.5% & gramicidin 0.005%/dexamethasone 0.05%		sol./ung.		
Tobradex	Alcon	tobramycin 0.3%/dexamethasone 0.1%		sol./ung.	5mL/3.5g	>18 years

TOPICAL ANTI-ALLERGY MEDICATIONS

BRAND NAME	GENERIC NAME	MANUFACTURER	GENERIC	PREPARATION	BOTTLE SIZE(S)	PEDIATRIC USE	PREGNANCY CATEGORY
Acute Care Products							
Acular	ketorolac tromethamine 0.5%	Allergan	✓	sol.	5mL, 10mL	Not established	C
Acular LS	ketorolac tromethamine 0.4%	Allergan		sol.	5mL	Not established	C
Alrex	loteprednol etabonate 0.2%	Bausch + Lomb		sol.	5mL	≥18 years	C
Pataday	olopatadine hydrochloride 0.2%	Alcon	✓	sol.	2.5mL	≥18 years	C
Patanol	olopatadine hydrochloride 0.1%	Alcon	✓	sol.	5mL	≥3 years	C
Zaditor	ketotifen fumarate 0.025%	Laboratoires Thea	✓	sol.	5mL	≥3 years	C
Chronic Care Products							
Alocril	nedocromil sodium 2%	Allergan		sol.	5mL	≥3 years	B
Alomide	lodoxamide tromethamine 0.1%	Alcon		sol.	10mL	≥4 years	B
Cromolyn	cromoglycate sodium 2%	Pendopharm		sol.	5mL, 10mL, 12.5mL	≥5 years	B
Hyo-dual	sodium hyaluronate 0.5%, ectoine 20%, borate	CandorVision		sol.	10mL	≥6 years	N/A
Opticrom	cromoglycate sodium 2%	Allergan		sol.	5mL, 10mL	≥5 years	B
Soothe Allergy (previously Opcon-A)	naphazoline HCl 0.02675%, pheniramine 0.315%	Bausch + Lomb		sol.	15mL	≥18 years	N/A
Soothe Redness (previously Original Eye Drops)	naphazoline HCl 0.012%	Bausch + Lomb		sol.	15mL	≥18 years	N/A

TOPICAL GLAUCOMA DRUGS

BRAND NAME	GENERIC NAME	MANUFACTURER	GENERIC	PREPARATION	BOTTLE SIZE	PEDIATRIC USE	PREGNANCY CATEGORY
Prostaglandin Analogs							
Lumigan RC	bimatoprost 0.01%	Allergan		sol	5mL, 7.5mL	≥18 years	C
Travatan Z	travoprost 0.004%	Alcon	✓	sol	5mL	not established in children	C
Xalatan	latanoprost 0.005%	Pfizer	✓	sol	2.5mL	not established in children	C
Beta Blockers							
Betagan	levobunolol hydrochloride 0.50%	Allergan	✓	sol	10mL	not established in children	C
Betoptic-S	betaxolol hydrochloride 0.25%	Alcon		suspension	5mL, 10mL	not established in children	C
Timoptic	timolol maleate 0.50%	Merck	✓	sol	10mL	not established in children	C
Timoptic-XE	timolol maleate (gel) 0.25%/0.50%	Merck	✓	gel	5mL/5mL	not established in children	C
Alpha Agonists							
Alphagan	brimonidine 0.20%	Allergan	✓	sol	5mL, 10mL	≥18 years (contraindicated in ≤2 years; not recommended 2 to 18)	B
Alphagan P	brimonidine 0.15%	Allergan	✓	sol	5mL, 10mL	≥18 years (contraindicated in ≤2years; not recommended 2-18)	B
Iopidine	apraclonidine chlorhydrate 0.5%/1.0%	Alcon		sol	5mL, 10mL/ 0.1mL	≥18 years	C

Carbonic Anhydrase Inhibitors						
Azopt	brinzolamide 1%	Alcon		sol	5mL	not established in children C
Trusopt	dorzolamide 2%	Merck	✓	sol	5mL	not established in children C
Trusopt PF	dorzolamide 2%	Merck		sol	60 x 0.2mL	not established in children C

Combination Glaucoma Medications						
Azarga	brinzolamide 1%/timolol 0.5%	Alcon		sol	5mL	≥18 years C
Combigan	brimonidine 0.2%/timolol 0.5%	Allergan		sol	10mL	≥18 years C
Cosopt	dorzolamide 2%/timolol 0.5%	Merck/Purdue Pharma	✓	sol	10mL	≥18 years C
Cosopt PF	dorzolamide 2%/timolol 0.5%	Merck		sol	60 x 0.2mL	≥18 years C
DuoTrav PQ	travoprost 0.004%/timolol 0.5%	Alcon		sol	5mL	≥18 years C
Simbrinza	brinzolamide 1%/brimonidine 0.2%	Alcon		sol	10mL	≥18 years C
Xalacom	latanoprost 0.005%/timolol 0.5%	Pfizer	✓	sol	2.5mL	≥18 years C

Miotics						
Minims pilocarpine 2%	pilocarpine 2%	Valeant		sol	20 x 0.5mL	C
pilocarpine	pilocarpine 1%, 2%, 4%	generic	✓	sol	15mL	C

DRY EYE LUBRICANTS

BRAND NAME	INGREDIENTS	MANUFACTURER	PREPARATION	BOTTLE SIZE
Artificial tears				
Blink Intensive or Blink Gel Lubricant Eye Drops	sodium hyaluronate, PEG 400 0.25%	Abbott Medical Optics	sol	10mL
Blink Moisturizing Lubricant Eye Drops	sodium hyaluronate, PEG 400 0.25%	Abbott Medical Optics	sol	15mL, 30mL
GenTeal Artificial Tears	hypromellose 0.003%	Alcon	sol	15mL
Hyabak	sodium hyaluronate 0.15%	Labtician	sol	10 mL
Hylo drops	sodium hyaluronate 0.1%, citrate, sorbitol	CandorVision	sol	10mL
Hylo Gel	sodium hyaluronate 0.2%, citrate, sorbitol	CandorVision	gel drop	10mL
Hylo-dual	sodium hyaluronate 0.5%, ectoine 20%, borate	CandorVision	sol	10mL
I-Drop PM	hyaluronan 0.3%, glycerin	I-Med Pharma	sol	20 x 0.3mL uni-doses
I-Drop Pur (PF)	hyaluronan 0.18%, glycerin	I-Med Pharma	sol	10mL
I-Drop Pur Gel (PF)	hyaluronan 0.3%, glycerin	I-Med Pharma	sol	10mL
Isopto Tears	HPMC 0.5%/0.1%	Alcon	sol	15mL
Liposic Ophthalmic Drops	carbopol 980, sorbitol, triglycerides	Bausch + Lomb	sol	10mL
Refresh Celluvisc	CMC 1%	Allergan	sol	30 x 0.4mL
Refresh Endura	glycerin 1%, polysorbate 80	Allergan	emulsion	20 x 0.4mL
Refresh Liquigel	CMC 1%	Allergan	sol	15mL
Refresh Plus (PF)	CMC sodium 0.5%	Allergan	sol	30 x 0.4mL
Refresh Redness Relief Liquifilm	naphazoline 0.1%	Allergan	sol	15mL
Refresh Tears	CMC 0.5%	Allergan	sol	15mL
Refresh Optive Advanced	CMC 0.5%, glycerin 1%, polysorbate 80 0.5%	Allergan	emulsion	10mL
Refresh Optive Advanced Sensitive (PF)	CMC 0.5%, glycerin 1%, polysorbate 80 0.5%	Allergan	emulsion	30 x 0.4mL
Refresh Optive Fusion	CMC 0.5%, glycerin 0.9%	Allergan	sol	10mL
Refresh Optive Fusion Sensitive (PF)	CMC 0.5%, glycerin 0.9%	Allergan	sol	30 x 0.4mL
Refresh Solution (PF)	polyvinyl alcohol 1.4%	Allergan	sol	30 x 0.4mL
Refresh Ultra	glycerin 1%, polysorbate 80	Allergan	emulsion	15mL
Soothe Dry Eyes (formerly Moisture Eyes)	PG 1%, glycerin 0.3%	Bausch + Lomb	sol	15mL
Systane	PEG 400 0.4%, PG 0.3%, HP-GUAR 0.19%	Alcon	sol	15mL, 30mL
Systane Balance	PG 0.6%, Mineral oil 1.0%, HP-GUAR 0.5%	Alcon	sol	10mL
Systane Bion Tears	DUASORB, HPMC 0.3%, dextran 70 0.1%	Alcon	sol	24 x 0.4mL
Systane Gel Drops	PEG 400 0.4%, PG 0.3%, sorbitol, HP-GUAR	Alcon	sol	10mL
Systane Ultra	PEG 400 0.4%, PG 0.3%, sorbitol, aminomethylpropanol, HP-GUAR	Alcon	sol	10mL
Systane Ultra Hydration	Sodium hyaluronate 0.15%, PEG 400 0.4%, PG 0.3%, HP-GUAR	Alcon	sol	10mL
Systane Ultra (PF)	PEG 400 0.4%, PG 0.3%, HP-GUAR	Alcon	sol	28 x 0.4mL
Tears Naturale	HPMC 0.3%, dextran 70 0.1%	Alcon	sol	15mL, 30mL
Tears Naturale Forte	HPMC 0.3%, dextran 70 0.1%, glycerin 0.2%, trisorb	Alcon	sol	15mL
Tears Naturale Free	HPMC 0.3%, dextran 70 0.1%	Alcon	sol	24 x 0.6mL
Tears Naturale II	HPMC 0.3%, dextran 70 0.1%	Alcon	sol	15mL, 30mL
Tears Plus	polyvinyl alcohol 1.4%	Allergan	sol	15mL
Thealoz	trehalose 3%	Labtician	sol	10mL

TheraTears Lubricant Eye Drops	CMC 0.25%	Akorn	sol	24 x 0.6mL, 15mL, 30mL
Visine Advance Cool Red Eye	PEG 400 1%, tetrahydrozoline hydrochloride 0.05%	J&J	sol	15mL
Visine Advance Triple Action Red Eye	tetrahydrozoline hydrochloride 0.05%, PEG 400 1%, dextran 70 0.1%, povidone 1%	J&J	sol	15mL
Visine Advance True Tears Dry Eye	hypromellose 0.2%, glycerin 0.2%	J&J	sol	15mL
Visine Allergies Seasonal relief	tetrahydrozoline hydrochloride 0.05%, zinc sulphate 0.25%	J&J	sol	15mL
Visine for Dry Eye-Eye revival	glycerin, hypromellose	J&J	sol	15mL
Visine for Allergy Advance with Anti-histamine	pheniramine maleate 0.3%, naphazoline hydrochloride 0.025%	J&J	sol	15mL
Visine for Dry Eye-Tired Eye Relief	glycerin, hypermellose	J&J	sol	15mL
Visine Multi-symptom	tetrahydrozoline hydrochloride 0.05%, zinc sulfate 0.25%	J&J	sol	15mL
Visine Original for Red Eye	tetrahydrozoline hydrochloride 0.05%	J&J	sol	15mL
Visine for Red Eye-Workplace	dextran 70, PEG 400, povidone, tetrahydrozoline hydrochloride	J&J	sol	15mL
Visine for Dry Eye-Environmental relief	glycerin, hypromellose	J&J	sol	15mL

Ointments/Gels/Eye Sprays

DuoLube (PF)	vaseline 80%, mineral oil 20%	Bausch + Lomb	ointment	3.5g
GenTeal Gel ocular lubricant	hypromellose 0.3%, carbopol 980, Sorbitol	Alcon	ointment	10mL
Liposic Ophthalmic Gel	carbopol 980, sorbitol, triglycerides	Bausch + Lomb	gel	10g
Ocunox	250 IU/g retinol palmitate, paraffin, wool fat (lanolin), white petrolatum	CandorVision	ointment	5g
Refresh Lacri-Lube (sorbitol)	mineral oil 42.5%, petrolatum 57.3%	Allergan	ointment	3.5g, 7g
Systane Gel	hypromellose 0.3%, carbopol 980	Alcon	ointment	10mL
Systane Ointment	petrolatum 94%, mineral oil 3%, lanolin	Alcon	ointment	3.5g
TearGel	carbopol 980, sorbitol	Alcon	ointment	10g
Calmo	liposomes, despantenol (pro-vitamin B5)	CandorVision	eye spray	10mL

Inserts

Lacrisert*	vaseline 85%, mineral oil 15%	Valeant	insert	60 inserts
*CMC=carboxymethylcellulose PG=propylene glycol	HPMC=hydropropylmethylcellulose PEG=polyethylene glycol			

VITAMINS/OMEGA-3

BRAND NAME	INGREDIENTS	MANUFACTURER	PREPARATION	BOTTLE SIZE	DOSE
Omega-3 for Dry Eye					
Dry Eye Omega	Each softgel contains: Vitamin D3 6.25mcg, Fish oil (anchovies, sardines, mackerel) 1109mg: EPA 420mg, DHA 140mg, Other omega-3 fatty acids 107mg	Physician Recommended Nutraceuticals (PRN)	softgel	120	4/day
I-Vu Omega 3	DPA (70mg/softgel), DHA (300mg/softgel), EPA (400mg/softgel)	I-Med Pharma	softgel	180	1-2, 2X/day
TheraTears Eye Nutrition	Each softgel contains: Fish oil (body oil from anchovy) 549mg with a guaranteed potency of: 150mg EPA, 100mg DHA, Flaxseed oil (Linum usitatissimum) 334mg, Vitamin E (d-alpha tocopheryl acetate) 40.9mg AT	Akorn Consumer Health	softgels	90	3/day
Systane Omega-3 Supplement (previously Systane Vitamins)	fish oil 1,000mg, AEP 400 mg, ADH 400mh	Alcon	capsules	60	2-3/day
Vitamins/Omega-3 for Retina					
I-Vu Essentials	For 2 softgels: 500mg Vitamin C, 10mcg Selenium, 20mg Zinc, 2mg Copper, 20mg lutein, 2mg Zeaxanthin, 1200 IU 30mcg Vitamin D3, 800mg Flaxseed Oil	I-Med Pharma	softgel	180	1/day with meal
Ocuvite Adulte 50+	Fish oil 452 mg, ADH 90 mg, AEP 160 mg, Vitamin C 150mg, Vitamin E 30 IU, Zinc oxyde 9mg, Copper 1mg, Lutein 6mg, Zeaxanthin 1mg	Bausch + Lomb	gel capsules	50	1/day with meal
Ocuvite Plus	Vitamin A 1000 IU, Vitamin C 200 mg, Vitamin E 60 IU, Copper 2mg, Selenium 55mcg, Zinc oxyde 40mg, Lutein 2mg	Bausch + Lomb	capsules	60	1/day with meal
PreserVision AREDS 2	Vitamin C 250mg, Vitamin E 200 IU, Copper 1mg, Zinc oxyde 40mg, Lutein 5mg, Zeaxanthin 1mg	Bausch + Lomb	gel capsules	60/120	2/day with meal
PreserVision Omega-3	Fish oil 439.5mg, ADH 87.5 mg, AEO 162.5mg, Vitamin C 113 mg, Vitamin E 100 IU, Zinc oxyde 17.4mg, Copper 0.4mg, Lutein 2.5mg, Zeaxanthin 0.5mg	Bausch + Lomb	gel capsules	120	4/day with meal
Vitalux Advanced	Vitamin C 250mg, Vitamin E 200 UI, Lutein 5mg, Zeaxanthin 1mg, Zinc 40mg, Copper 1mg	Alcon	Tablets	60	2/day with meal
Vitalux Advanced chewable	Vitamin C 250mg, Vitamin E 200 UI, Lutein 5mg, Zeaxanthin 1,000mcg, Zinc 12.5mg, Copper 0.5mg	Alcon	Tablets	50	2/day
Vitalux Healthy Eyes	Vitamin C 150 mg, Vitamin E 50 IU, Vitamine B1 1.13 mg, Vitamin B2 (Riboflavin) 1.6 mg, Vitamin B6 4mg, Vitamin B12 12.5 mcg, Vitamin D 200 IU, Zinc 20 mg, Copper 1000 mcg, Lutein 5 mg, Zeaxanthin 1mg, Folate 250 mcg, Niacinamide (vitamine B3) 17.5 mg, Selenium 12.5 mcg, Biotin 22.5mcg, Calcium 81mg, Chlorine 36mg, Chromium 50mcg, Copper 1mg, Iodine 75mcg, Lycopene 150mcg, Magnesium 25mg, Manganese 2.5mg, Panthotenic acid 5mg, Phosphorus 65.5mg, Potassium 40mg, Selenium 12.5 mcg, Silicon 5mcg, Tin 5mcg	Alcon	Tablets	60	2/day with meal