

**APPENDIX A1.**

**MEDICATIONS FDA APPROVAL STATUS**

<b>Pharmacologic category</b>	<b>Generic Name</b>	<b>US Brand Name</b>	<b>FDA Status</b>	<b>Approval Date</b>	<b>Marketing Status</b>
Non-selective beta-adrenergic receptor blocker	Timolol	Betimol®	Approved - NDA 020439	3/31/1995	Prescription
		Istalol®	Approved - NDA 021516	06/04/2004	Prescription
		Timoptic®	Approved - NDA 018086	8/17/1978	Prescription
		Timoptic-XE®	Approved - NDA 020330	11/4/1993	Prescription
		Timoptic OcuDose®	Approved - NDA 019463	11/5/1986	Prescription
		Timolol GFS	Approved		
	Levobunolol	Betagan®	Approved - NDA 019219	12/19/1985	Prescription
	Metipranolol	OptiPranolol	Approved - NDA 019907	12/29/1989	Prescription
Beta 1 selective beta blocker	Betaxolol	Betoptic	Approved - NDA 019270	8/30/1985	Prescription
Alpha2 Agonist	Apraclonidine	Iopidine®	Approved - NDA 019779	12/31/1987	Prescription
		Brimonidine	Approved - NDA 020490	3/13/1997	Discontinued
		Alphagan P®	Approved - NDA 021262	3/16/2001	Prescription
Carbonic Anhydrase Inhibitor	Brinzolamide	Azopt®	Approved - NDA 020816	4/1/1998	Prescription
		Acetazolamide	Approved - NDA 012945		Prescription
		Sequels®			
	Dorzolamide	Trusopt®	Approved - NDA 020408	12/9/1994	Prescription
Cholinergic	Carbachol	Isopto® Carbachol	Approved		Discontinued
		Miostat®	Approved - NDA 016968	9/28/1972	Prescription
		Pilocarpine	Approved - NDA 200890		Prescription

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		Pilopine HS®	Approved - NDA 018796	10/1/1984	Prescription
		Salagen®	Approved - NDA 020237	3/22/1994	Prescription
Prostaglandin Analogs	Travoprost	Travatan®	Approved - NDA 021257	3/16/2001	Prescription
		Travatan® Z	Approved - NDA 021994	9/21/2006	Prescription
	Bimatoprost	Lumigan®	Approved - NDA 021275	3/16/2001	Prescription
		Latisse TM	Approved - NDA 022369	12/24/2008	Prescription
	Latanoprost	Xalatan®	Approved - NDA 020597	6/5/1996	Prescription
Combined	Dorzolamide and timolol	Cosopt®	Approved - NDA 020869	4/7/1998	Prescription
		Preservative-free Cosopt®			
	Brimonidine and timolol	Combigan®	Approved - NDA 021398	10/30/2007	Prescription
	Brinzolamide and Timolol	Azarga®	Not Approved		
	Travoprost and Timolol	DuoTrav®	Not Approved		
	Bimatoprost and Timolol	Ganfort®	Not Approved		

Laser, ophthalmic Product code: HQF			
COMPANY	PRODUCT	FDA STATUS*	APPROVAL DATE
20/20 TECHNOLOGIES, INC	HYPERION LTK SYSTEM (PMA Number P990078)	PMA	5/8/2002
ADVANCED SURGICAL PRODUCTS INC.	PRISMA DISPOSABLE ENDO-OCULAR PROBE	SE	4/13/1988
AESULAP-MEDITEC NORTH AMERICA	MEDITEC LINK	SE	6/17/1998
ALCON LABORATORIES	NEXT GENERATION LASER	SE	11/5/2007
ALCON RESEARCH, LTD	OPHTHALAS 532 SOLID STATE PHOTOCOAG	Registered	n/a
ALCON RESEARCH, LTD	NEXT GENERATION LASER; PUREPOINT LASER SYSTEM	Registered	n/a
ALCON RESEARCH, LTD	ALCON LIO	Registered	n/a
AMERICAN LASER CORP.	BQ/BM INTEGRATED LASER DELIVERY SYSTEM	SE	5/17/1999
AMERICAN MEDICAL OPTICS	ARGON LASER PHOTOCOAGULATOR SYS	SE	11/6/1984
AMERICAN MEDICAL OPTICS	AMERI. MEDICAL OPTICS ARGON LASER PHOTO	SE	8/15/1984
AMERICAN MEDICAL OPTICS	AMER. MEDICAL OPTICS ARGON/KRYPTON LASE	SE	8/15/1984
AMERICAN MEDICAL OPTICS	AMER. MED. OPTICS ARGON LASER PHOTO	SE	6/19/1984
AMERICAN MEDICAL OPTICS	AMER. MED. OPTICS ARGON/KRYPTON LASER	SE	6/7/1984
BAUSCH & LOMB INC.	MILLENNIUM MICROSURGICAL SYSTEM AND PERISTALTIC PHACO PACK	SE	2/10/2004
BIOPHYSIC MEDICAL INC.	INDIRECT OPHTHALMOSCOPE ACCESSORY DELIVERY SYSTEM	SE	3/24/1989
BIOPHYSIC MEDICAL INC.	OPHTHALAS DYE OPHTHALMIC LASER	SE	10/29/1987
BIOPHYSIC MEDICAL INC.	FOUR MODIFICATIONS TO OPHTHALAS ARGON/DYE LASER	SE	8/30/1988
BRITT CORP. INC.	LASER PHOTOCOAGULATOR 1520-A & K	SE	1/30/1984
BRITT CORP. INC.	BRITT KRYPTON LASERS 150K & 152K	SE	1/22/1982
CANDELA LASER CORP.	CANDELA DIODE TRABECULOPLASTY LASER DTL	SE	3/4/1991
CANDELA LASER CORP.	CANDELA UPC LASER PHOTOCOAGULATOR	SE	8/2/1989
CARL ZEISS INC.	VISULINK 900 ARGON	SE	8/14/1995
CARL ZEISS INC.	ZEISS VISULAS ARGON LASER	SE	1/6/1988
CARL ZEISS MEDITEC AG	VISUMAX LASER KERATOME	SE	7/8/2010
CARL ZEISS MEDITEC AG	VISULAS YAG II LASER	Registered	n/a
CARL ZEISS MEDITEC AG	VISUMAX LASER KERATOME	Registered	n/a
CARSON LASERWORKS	JR -- OPHTHALMIC ARGON LASER	SE	11/12/1993

PMA: Premarket approval

SE: Substantially equivalent; Premarket notification, 501(k)

CAVITRON CORP.	LASER PHOTOCOAGULATION	SE	12/28/1978
CERAMOPTEC INC.	CERALAS DIODE LASER SYSTEM (CERALAS D2)	SE	2/21/1997
CERAMOPTEC INC.	MEGABEAM ENDOCULAR PROBE	SE	4/1/1994
CHIRON VISION CORP.	LASAG MICRORUPTOR 2 ND:YAG OPHTH. LASER SYSTEM	SE	1/10/1989
COBURN OPTICAL IND. INC.	MEDITEC (RODENSTOCK) LASER PHOTOCOAGUL	SE	10/11/1979
COHERENT MEDICAL DIVISION	MODEL 900K PHOTOCOAGULATOR	SE	7/28/1980
COHERENT MEDICAL GROUP	COHERENT MARIE ARGON PHOTOCOAGULATOR	SE	6/15/1989
COHERENT MEDICAL GROUP	SYSTEM 920 PHOTOCOAGULATOR TO INCLUDE SCHIRMERSCOF	SE	1/3/1985
COHERENT MEDICAL GROUP	LDS - LASER DELIVERY SYSTEM	SE	10/7/1986
COHERENT MEDICAL GROUP	SYSTEM 920 ARGON/DYE PHOTOCOAGULATOR	SE	6/5/1985
COOPER LASERSONICS INC.	MONITOR CO2 LASER SURGICAL SYSTEM	SE	4/25/1984
COOPER LASERSONICS INC.	MODEL 8000 ND:YAG LASER SYS TREATMENT OF BENIGN LE	SE	1/3/1985
COOPER LASERSONICS INC.	MODEL 4000 MD-YAG LASER FOR MALIGNANT	SE	6/26/1984
COOPERVISION INC.	RESUBMITTED DIODE LASER COAGULATOR	SE	8/2/1988
COOPERVISION INC.	MODEL 9500 ARGON KRYPTON & DYE SURGICAL LASER SYS	SE	2/4/1986
COOPERVISION INC.	MODEL 1000 OPHTHALMIC LASER SYSTEM	SE	9/24/1986
D.O.R.C. INTL. B.V.	OPHTHALMIC LASER PROBE	Registered	n/a
D.O.R.C. INTL. B.V.	LASERSTAR 532	Registered	n/a
D.O.R.C. INTL. B.V.	OPHTHALMIC ILLUMINATED LASER PROBES	Registered	n/a
DIRECTED ENERGY INC.	MODEL 10-C W/FL-10A/U OPTICAL ATTACHMENT/OPHTHALMIC	SE	5/22/1987
DOUGLAS JAMES DONALDSON COMPLIANCE SERVICES	CRYSTAL FOCUS EMERALD-CW LASER PHOTOCOAGULATOR	SE	10/19/1990
DOUGLAS JAMES DONALDSON COMPLIANCE SERVICES	CRYSTAL FOCUS EMERALD LASER/SLT OPHF 0.6 ENDO HAND	SE	3/5/1991
ELLEX MEDICAL PTY. LTD.	LASEREX MODEL LP4532	SE	10/6/2004
ELLEX MEDICAL PTY. LTD.	LASEREX LP1532 PHOTOCOAGULATOR	SE	10/3/1997
ELLEX MEDICAL PTY. LTD.	INTEGRE MODEL LP581	SE	3/11/2008
ELLEX MEDICAL PTY. LTD.	INTEGRE PRO MODEL L2RY	SE	7/2/2008
ELLEX MEDICAL PTY. LTD.	INTEGRE FAMILY; SOLITAIRE LP4532	Registered	n/a
ELLEX MEDICAL PTY. LTD.	INTEGRE DUO LP1RG; INTEGRE LP5532	Registered	n/a

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ELLEX MEDICAL PTY. LTD.	INTEGRE PRO FAMILY	Registered	n/a
ELLEX MEDICAL PTY. LTD.	INTEGRE LP1561	Registered	n/a
ENDO OPTIKS, INC.	LASER, OPHTHALMIC (NOT SPECIFIED)	Registered	n/a
F. & F. KOENIGKRAMER	RELIANCE OPHTHALMIC SLIT LAMP R-083	SE	2/4/1984
G. RODENSTOCK INSTRUMENTE GMBH	RODENSTOCK LASER SLITLAMP	SE	11/4/1997
G. RODENSTOCK INSTRUMENTE GMBH	ORION 3001 LASER PHOTOCOAGULATOR	SE	11/13/1986
GLENDALE PROTECTIVE TECHNOLOGIES INC.	LASERMED* GOGGLES AND SPECTACLES	SE	9/21/1989
HCG INC.	HCG INC. MEDICAL LASER ENDOCOAGULATOR MODEL P.C.	SE	7/25/1985
HERAEUS LASERSONICS INC.	ND:YAG LASER SYSTEMS (VARIOUS MODELS)	SE	5/24/1991
HGM INC.	FLEISCHMAN-SWARTZ ENDO-OCULAR PROBE	SE	5/9/1984
HGM INC.	HGM ILLUMINATING IMAGING ENDOOCULAR PROBE	SE	3/1/1994
HGM INC.	MEDICAL LASER ENDOCOAGULATOR 5K	SE	4/2/1984
HGM INC.	FLEISCHMAN-SWARTZ ENDO-OCULAR PROBE (STERILE)	SE	3/21/1986
HGM INC.	HGM INC. MEDICAL LASER ENDOCOAGULATOR MODEL 8-K	SE	4/23/1985
HGM INC.	HGM ASPIRATING ENDOOCULAR(TM) PROBE	SE	8/17/1993
HGM MEDICAL LASER SYSTEMS INC.	COMPAC(TM) DIODE LASERS	SE	4/25/1991
INFINITECH INC.	INFINITECH MULTI-SPOT SLIT LAMP LASER ADAPTER	SE	8/1/1997
IRIDERM DIV.	DIOPEXY PROBE	SE	7/19/1996
IRIDERM DIV.	OCULIGHT GL	SE	8/28/1996
IRIDEX CORP.	IRIS MEDICAL IQ 810 PHOTOCOAGULATOR	SE	9/20/2004
IRIDEX CORP.	OCULIGHT SL/SLX	SE	5/3/2002
IRIDEX CORP.	IRIDEX WIRELESS FOOTSWITCH	SE	11/14/2006
IRIDEX CORP.	IRIS MEDICAL OCULIGHT GL/GLX LASER SYSTEMS	SE	8/27/2003
IRIDEX CORP.	LASER, OPHTHALMIC (NOT SPECIFIED)	Registered	n/a
IRIDEX CORP.	LASER, OPHTHALMIC (NOT SPECIFIED)	Registered	n/a
IRIDEX CORP.	LASER, OPHTHALMIC (NOT SPECIFIED)	Registered	n/a
KEELER INSTRUMENTS INC.	MICROLASE 8 0 0 (OPHTHALMIC LASER)	SE	3/15/1989
KEELER INSTRUMENTS INC.	MICROLASE BY LASER TRABECULOPLASTY	SE	10/31/1989
KEELER INSTRUMENTS INC.	KEELER MULTILASE 3000	SE	11/22/1994

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LASAG AG	LASAG MICRORUPTER 2 ND:YAG LASER TRABECULOPLASTY	SE	3/27/1990
LASER INDUSTRIES LTD.	OPHTHALMIC ARGON LASER #700A	SE	1/30/1984
LASERMED CORP.	OCULASE 514 OPHTHALMIC ARGON LASER	SE	2/4/1984
LASERTEK OY	LASER COAGULATOR MODEL 41AK	SE	2/8/1979
LASERTEK OY	COAGULATOR MODEL 40 AARGON	SE	2/8/1979
LASERTEK OY	MODEL 150K LASER COAGULATOR	SE	1/30/1984
LIGHT-MED (USA) INC.	LPULSA SYL-9000 OPHTHALMIC YAG LASER	SE	3/30/1999
LIGHTMED CORP.	LIGHTLAS 810 INFRARED LASER PHOTOCOAGULATOR	SE	8/8/2002
LIGHTMED CORP.	LIGHTLAS SELECTOR	SE	8/13/2009
LIGHTMED CORP.	LIGHTLAS 577 MEDICAL OPTICAL PUMPED SEMICONDUCTOR LASER	SE	9/28/2009
LIGHTMED CORP.	LIGHTLAS MODEL 532	SE	9/18/2009
LIGHTMED CORP.	LIGHTLAS 561 OPHTHALMIC PHOTOCOAGULATOR	SE	9/20/2007
LIGHTMED CORP.	LIGHTLAS 532 PHOTOCOAGULATOR	SE	8/22/2001
LIGHTMED CORP.	AURA PT; OPHTHALMIC YAG LASER; SYL-9000	Registered	n/a
LIGHTMED CORP.	LIGHTLAS 561	Registered	n/a
LIGHTMED CORP.	LIGHTLAS 532	Registered	n/a
LIGHTMED CORP.	LIGHTLAS 810	Registered	n/a
LIGHTMED CORP.	LIGHTLAS SELECTOR DEUX	Registered	n/a
LIGHTMED CORP.	LIGHTLAS 577	Registered	n/a
LIGHTMED CORP.	LIGHTLAS 532	Registered	n/a
LUMENIS INC.	FAMILY OF SELECTA OPHTHALMIC LASER SYSTEMS (SELECTA 1064 SELECTA SLT SELECTA DUO) DELIVERY DEVICE AND ACCESSORIES	SE	9/30/2005
LUMENIS INC.	MODEL 900S INTRAOCULAR PROBE	SE	11/16/1981
LUMENIS INC.	AURA PT-II	Registered	n/a
LUMENIS INC.	LASER, OPHTHALMIC (NOT SPECIFIED)	Registered	n/a
LUMENIS INC.	LASER, OPHTHALMIC (NOT SPECIFIED)	Registered	n/a
LUMENIS INC.	SELECTA 1064; SELECTA DUO; SELECTA SLT; SELECTA TRIO	Registered	n/a
LUMENIS INC.	NOVUS 2000	Registered	n/a
LUXTEC CORP.	LUXSCOPE	SE	11/21/1997
MARTIN S. KNOPF ASSOC. INC.	URAM OPHTHALMIC LASER ENDOSCOPE	SE	5/28/1991

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MEDITEC INC.	MDS 83 OPHTHALMIC DYE LASER SYSTEM	SE	8/1/1985
MEDITEC OF AMERICA	LASER LENS-VARIOUS MODELS	SE	4/5/1984
MERIDIAN AG	MERILAS 532A	SE	12/14/2007
MERIDIAN AG	MERILAS 532ALPHA	Registered	n/a
MIRA INC.	OPHTHALMIC LASER PHOTOCOAGULATOR	SE	11/12/1985
MIRA INC.	ENDOPHOTOCOAGULATION PROBE	SE	10/10/1986
MIRA INC.	OPHALMIC LASER PHOTOCOAGULATOR	SE	11/12/1985
MIRA INC.	MIRALITE	SE	10/31/1986
NIDEK CO., LTD. HAMACHO PLANT	LASER DIODE PHOTOCOAGULATOR DC-3300	Registered	n/a
NIDEK CO., LTD. HAMACHO PLANT	MC-300; MC-500; MULTICOLOR LASER PHOTOCOAGULATOR	Registered	n/a
NIDEK INC.	MODEL DC-1200 DIODE LASER PHOTOCOAGULATOR	SE	10/16/1989
NIDEK INC.	NIDEK ADC-8000 LASER SYSTEM	SE	10/15/1987
NIDEK INC.	ARGON/KRYPTON ION LASER PHOTOCOAGULA	SE	3/16/1984
NIDEK INC.	NIDEK MODEL AC-2300	SE	11/22/1993
NIDEK INC.	NIDEK MODEL GYC-1500 AND GYC-2000	SE	9/14/1995
NIDEK INC.	NIDEK MODEL AKC-8000	SE	8/7/1989
NIDEK INC.	DC-3300 LASER DIODE PHOTOCOAGULATOR	SE	2/11/2002
NIDEK INC.	NIDEK OPEATING MICROSCOPE DELIVERY SYSTEM (OMDS)	SE	9/15/1988
OCULAR INSTRUMENTS INC.	RITCH TRABECULOPLASTY LASER LENS	SE	7/11/1986
OCULAR INSTRUMENTS INC.	MULTIPLE RITCH TRABECULOPLASTY	Registered	n/a
OD -OS GMBH	NAVILAS LASER SYSTEM	SE	10/27/2009
OD -OS GMBH	NAVILAS LASER SYSTEM	Registered	n/a
OMNIGUIDE COMMUNICATIONS INC.	OMNIGUIDE BEAMPATH CO2 MARK I LASER BEAM DELIVERY	SE	5/9/2005
OMNIGUIDE, INC.	OMNIGUIDE BEAM PATH CO2 MARK	Registered	n/a
OPHTHALMED LLC	20G SMA LASER FIBER MODEL LF100	SE	9/21/2005
OPHTHALMED LLC	A1x010x (20g, 23g, 25g ILLUM PROBE); A4xx010 (20g LASER/ASP PROBE); A5xx100 (20g LASER/ILLUM PROBE); A6xx110 (20g LASER/ILLUM/ASP PROBE); OPHTHALMED LASER-ILLUMINATION	Registered	n/a
OPTIMEDICA CORPORATION	PASCAL STREAMLINE PHOTOCOAGULATOR	SE	5/4/2010
OPTIMEDICA CORPORATION	PASCAL STREAMLINE PHOTOCOAGULATOR	SE	9/25/2009

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OPTIMEDICA CORPORATION	PASCAL STREAMLINE PHOTOCOAGULATOR	Registered	n/a
OPTIMEDICA CORPORATION	PASCAL STREAMLINE	Registered	n/a
OPTO ELETRONICA S.A.	OPTO ADVANT YAG LASER	Registered	n/a
PEREGRINE SURGICAL LTD.	PEREGRINE SOFT TIP ASPIRATING LASER PROBE MODEL PD720.60	SE	6/21/2006
PEREGRINE SURGICAL LTD.	PEREGRINE ILLUMINATING LASER PROBE MODEL PD600.10	SE	6/27/2003
PEREGRINE SURGICAL LTD.	LASER, OPHTHALMIC (NOT SPECIFIED)	Registered	n/a
PEREGRINE SURGICAL LTD.	LASER, OPHTHALMIC (NOT SPECIFIED)	Registered	n/a
PEREGRINE SURGICAL LTD.	ASPIRATING LASER PROBE	Registered	n/a
PFIZER LASER SYSTEMS	CENTAURI	SE	2/11/1991
QUANTEL MEDICAL	Q-SWITCHED ND:YAG OPHTHALMIC LASER (WITH SLIT LAMP) MODEL OPTIMIS II	SE	3/24/2005
QUANTEL MEDICAL	FREQUENCY DOUBLED ND: YAG PHOTOCOAGULATOR MODEL VITRA	SE	2/7/2005
QUANTEL MEDICAL	SUPRA OPHTHALMIC LASER PHOTOCOAGULATOR	SE	4/24/2007
QUANTEL MEDICAL	SUPRA TWIN OPHTHALMIC LASER PHOTOCOAGULATOR	SE	3/25/2009
QUANTEL MEDICAL	SUPRA 577.Y LASER	SE	6/16/2009
QUANTEL MEDICAL	IRIDIS OPHTHALMIC PHOTOCOAGULATOR	SE	12/17/2002
QUANTEL MEDICAL	IRIDIS; OPTIMIS-II, VIRIDIS; SUPRA; VIRIDIS TWIN; VITRA	Registered	n/a
QUANTEL MEDICAL	LASER, OPHTHALMIC (NOT SPECIFIED)	Registered	n/a
SOLX INC.	SOLX 790 TITANIUM SAPPHIRE LASER	SE	9/12/2008
SOLX INC.	SOLX 790 TITANIUM SAPPHIRE LASER	Registered	n/a
STALLION MEDICAL, INC.	OPHTHALMIC PHOTOCOAGULATOR LASER	Registered	n/a
STEFANOVSKY & ASSOC.	LASER PROTECTIVE EYESHIELD	SE	12/30/1983
STERILMED, INC.	LASER, OPHTHALMIC (NOT SPECIFIED)	Registered	n/a
SUMMIT TECHNOLOGY INC.	LASER AND EMPHASIS SCLEROSTOMY TIP	SE	7/22/1993
SUNRISE TECHNOLOGIES, INC.	SUNRISE TECHNOLOGIES HYPERION(TM) HOLMIUM LASER SYSTEM FOR LASER THERMAL KERATOPLASTY (LTK) (PMA Number P990078)	PMA	3/16/2001
SUNRISE TECHNOLOGIES, INC.	HYPERION LTK SYSTEM (PMA Number P990078)	PMA	12/11/2000
SURGICAL LASER TECHNOLOGIES INC.	SLT CONTACT LASER SYSTEM OCULOPLASTICS	SE	6/6/1988
SURGICAL LASER TECHNOLOGIES INC.	SLT CL60 CONTACT LASER SYSTEM CUTTING & COAGULA.	SE	9/30/1988
SYNEMED INC.	DERMATOLOGY HANDPIECE-OPHTH LASER	SE	12/3/1983

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TARACAN PTY. LTD.	LASEREX ERA ARTICULATED ARM KIT MODEL LQP4106-AA	SE	7/6/2000
TOP CON	TOPCON EC-200 ENDO-PHOTOACOAGULATOR LASER	SE	12/18/1990
VISITEC CO.	HESSBURG GLIDE UNTRAOCULAR LENS GUIDES	SE	9/24/1985

Photocoagulator and Accessories Product code: HQB			
COMPANY	PRODUCT	FDA STATUS*	APPROVAL DATE
ADVANCED SURGICAL PRODUCTS INC.	REUSABLE FIBEROPTIC LIGHTPIPE	SE	6/6/1988
AMERICAN MEDICAL OPTICS	ARGON/KRYPTON LASER PHOTOCOAGULATOR SYS	SE	11/8/1984
CARL ZEISS INC.	ZIESS ENDOPROBE	SE	7/9/1992
CAVITRON CORP.	SLIT LAMP ATTACHMENT	SE	9/16/1980
CAVITRON CORP.	PHOTOCOAGULATOR LASER	SE	5/9/1978
COHERENT MEDICAL GROUP	SYSTEM 930 ARGON PHOTOCOAGULATOR	SE	5/16/1985
COOPER LASERSONICS INC.	ARGON/KRYPTON LASER SYSTEM 8500	SE	2/6/1985
ENDO OPTICS INC.	THE ENDO OPTIKS MICROPROBE	SE	2/1/1993
ENDO OPTIKS, INC	PHOTOCOAGULATOR AND ACCESSORIES (NOT SPECIFIED)	Registered	n/a
GAMP & ASSOC.	GAMP & ASSOC. DISPOSABLE ENDOOCULAR LASER PROBE	SE	12/22/1995
GAMP & ASSOC.	GAMP & ASSOC. DISPOSABLE ILL ENDOOCULAR LASER PROBE	SE	12/22/1995
GAMP & ASSOC.	GAMP & ASSOC. DISPOSABLE ASPIRATING ENDOOCULAR LASER PROBE	SE	12/22/1995
NIDEK INC.	ARGON/KRYPTON & KRYPTON LASER PHOTOCOAGULATION SYS	SE	12/24/1984
NIDEK INC.	NIDEK AC-2000 LASER SYSTEM	SE	2/7/1986
NIDEK INC.	ARGON LASER PHOTOCOAGULATOR SYS REPEAT MODE	SE	12/24/1984
NK-OPTIK AMERICA	LC-250 INFRARED LIGHT COAGULATOR	SE	1/22/1997
OPTOMED CORP.	OPTOSCALPEL I LASER SYSTEM	SE	11/12/1993
SURGICAL LASER TECHNOLOGIES INC.	SLT CONTACT LASER SYSTEM CYCLOPHOTOCOAGULATION	SE	12/14/1988
SURGICAL LASER TECHNOLOGIES INC.	SLT CONTACT LASER SYSTEM ENDOPHOTOCOAGULATION	SE	9/26/1988
SYNERGETICS, INC.	SYNERGETICS	Registered	n/a
VARIAN ASSOC. INC.	LAMP DELIVERY SYS.-PHOTOCOAGULATION	SE	12/13/1977
VARIAN ASSOC. INC.	PHOTOCOAGULATOR LOG 3 PORTABLE XENON	SE	8/26/1976

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Instrument, visual field, laser Product code: HPJ			
COMPANY	PRODUCT	FDA STATUS*	APPROVAL DATE
AMERICAN LASER CORP.	LASER PHOTOCOAGULATOR ARGON MED. LASER	SE	1/22/1982
COBURN OPTICAL IND. INC.	RETINOMETER	SE	11/15/1978
COHERENT MEDICAL DIVISION	THE OCUPLOT D	SE	9/7/1982
RANDWAL INSTRUMENT CO. INC.	IRAS PERIMETER	SE	12/12/1986
RANDWAL INSTRUMENT CO. INC.	LASER IRAS	SE	11/1/1985

Ultrasound, Cyclodestructive Product code: LZR			
COMPANY	PRODUCT	FDA STATUS*	APPROVAL DATE
SONOCARE INC.	THERAPEUTIC ULTRASOUND FOR TREATMENT OF GLAUCOMA	PMA	6/30/1988

Trabeculotome Product code: HMZ			
COMPANY	PRODUCT	FDA STATUS*	APPROVAL DATE
BAUSCH & LOMB INC.	MULTIPLE	Registered	n/a
DAHLGREN INDIA	DAHLGREN	Registered	n/a
DIMEDA INSTRUMENTE GMBH	MULTIPLE	Registered	n/a
DUCKWORTH & KENT LTD.	BLOOMBERG TRABECULOTOME SET	Registered	n/a
EPSILON EYE CARE PVT. LTD.	EPSILON	Registered	n/a
GUNTER MARTIN	HANDLE PAIR; TRAB HARMS W.	Registered	n/a
INDO WEBAL SURGICAL	INDO WEBAL	Registered	n/a
INDO-GERMAN SURGICAL CORP.	TRABECULOTOME (NOT SPECIFIED)	Registered	n/a
NEOMEDIX CORPORATION	TRABECULOTOME	Registered	n/a
OPHTHALMIC SURGICAL LLC	MANUAL OPHTHALMIC	Registered	n/a
PAUL INSTRUMENTS (INDIA)	TRABECULOTOME (NOT SPECIFIED)	Registered	n/a

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Electrosurgical cutting & coagulation & Accessories Product code: GEI			
COMPANY	PRODUCT	FDA STATUS*	APPROVAL DATE
NEOMEDIX CORPORATION	TRABECTOME HIGH FREQUENCY GENERATOR/LP	SE	5/18/2006
NEOMEDIX CORPORATION	NMX-1000	SE	4/22/2004
NEOMEDIX CORPORATION	MICROSURGICAL BIPOLAR HANDPIECE	SE	2/25/2003

Apparatus, Cutting, Radiofrequency, Electrosurgical, Battery-Powered Product code: NCR			
COMPANY	PRODUCT	FDA STATUS*	APPROVAL DATE
MEDISURG LTD.	THE FUGO BLADE	SE	8/10/2000
MEDISURG LTD.	FUGO BLADE FOR PERIPHERAL IRIDOTOMY MODEL M300	SE	12/9/2005
MEDISURG LTD.	THE FUGO BLADE FOR GLAUCOMA	SE	10/8/2004
MEDISURG R&MC	THE FUGO BLADE	Registered	n/a

Intraocular pressure lowering implant Product code: OGO			
COMPANY	PRODUCT	FDA STATUS*	APPROVAL DATE
GLAUKOS CORP.	iSTENT	Registered	n/a
STARR SURGICAL CO	AQUAFLOW COLLAGEN GLAUCOMA DRAINAGE DEVICES	Registered	n/a
STARR SURGICAL CO	AQUAFLOW COLLAGEN GLAUCOMA DRAINAGE DEVICES	PMA	6/17/2010
STARR SURGICAL CO	STAAR SURGICAL AQUAFLOW COLLAGEN GLAUCOMA DRAINAGE DEVICE	PMA	3/11/2009
STARR SURGICAL CO	STAAR SURGICAL AQUAFLOW COLLAGEN GLAUCOMA DRAINAGE DEVICE	PMA	3/10/2008
STARR SURGICAL CO	STAAR SURGICAL COMPANY AQUAFLOW(TM) COLLAGEN GLAUCOMA DRAINAGE DEVICE, MODEL CGDD-20	PMA	7/12/2001
STARR SURGICAL CO	AQUAFLOW COLLAGEN GLAUCOMA DRAINAGE	Registered	n/a

PMA: Premarket approval

SE: Substantially equivalent; Premarket notification, 501(k)

Implant, eye valve (aqueous shunts) Product code: KYF			
COMPANY	PRODUCT	FDA STATUS*	APPROVAL DATE
ABBOTT MEDICAL OPTICS INC. (AMO)	BAERVELDT GLAUCOMA IMPLANT	Registered	n/a
AMO GRONINGEN BV	BAERVELDT GLAUCOMA IMPLANT	Registered	n/a
AMO GRONINGEN BV	GLAUCOMA 350 PARS PLANA	Registered	n/a
EAGLE VISION INC.	MULTIPLE	Registered	n/a
HOOD LABORATORIES	KRUPIN EYE VALVE W/SCLERAL BUCKLE	SE	1/24/1989
HOOD LABORATORIES	KRUPIN EYE VALVE WITH DISK	SE	3/15/1991
IOP INC.	MOLTENO IMPLANT	SE	2/27/1989
IOP INC.	MOLTENO3	SE	9/27/2006
IOP INC.	MODIFIED MOLTENO(TM) IMPLANTS	SE	8/14/1990
MOLTENO OPHTHALMIC LTD.	MOLTENO	Registered	n/a
NEW WORLD MEDICAL INC.	AHMED GLAUCOMA VALVE IMPLANT	SE	7/13/1999
NEW WORLD MEDICAL INC.	AHMED GLAUCOMA VALVE MODEL M4	SE	9/18/2006
NEW WORLD MEDICAL INC.	AHMED GLAUCOMA VALVE MODEL S3	SE	4/20/1998
NEW WORLD MEDICAL INC.	AHMED GLAUCOMA VALVE IMPLANT	SE	11/12/1993
NEW WORLD MEDICAL INC.	AHMED GLAUCOMA VALVE IMPLANT	Registered	n/a
NEW WORLD MEDICAL INC.	AHMED GLAUCOMA VALVE IMPLANT	Registered	n/a
NEW WORLD MEDICAL INC.	AHMED GLAUCOMA VALVE IMPLANT	Registered	n/a
OPTIMED INC.	OPTIMED GLAUCOMA PRESSURE REGULATOR	SE	10/16/1990
OPTONOL LTD	EXPRESS MINI GLAUCOMA SHUNT	SE	3/13/2003
OPTONOL LTD	EX-PRESS MINATURE GLAUCOMA IMPLANT MODELS R-20 R-30 R-50 STS VERSIONS	SE	3/26/2002
OPTONOL LTD	EX-PRESS	Registered	n/a
PHARMACIA IOVISION INC.	BAERVELT PARS PLANA GLAUCOMA IMPLANT	SE	2/18/1997
PRECISION-COSMET CO. INC.	WHITE OCULAR PRESSURE RELIEF DEVICE	SE	2/15/1985
STAAR SURGICAL CO.	MOLTENO VALVE SETON	SE	3/30/1988
TAMCENAN CORP.	AQUEOUS SHUNT; PUMPSHUNT; VALVE SHUNT	Registered	n/a
TRANSCEND MEDICAL INC.	CYPASS GLAUCOMA IMPLANT	Registered	n/a

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VISIONEX INC.	TRABECULO-SUPRACHOROIDAL SHUNT	SE	3/14/1991
WRIGHT MEDICAL CORP.	BAERVELDT GLAUCOMA IMPLANT	SE	2/11/1991

Endoilluminator Product code: MPA			
COMPANY	PRODUCT	FDA STATUS*	APPROVAL DATE
ALCON RESEARCH LTD.	INFINITECH ENDOILLUMINATOR	Registered	n/a
ALCON RESEARCH LTD.	LASER PROBES	Registered	n/a
ALCON RESEARCH LTD.	INFINITECH ENDOILLUMINATOR	Registered	n/a
ALCON RESEARCH LTD.	LASER PROBES	Registered	n/a
AMERICAN MEDICAL DEVICES INC.	ENDOLIGHT END IRRIGATING ENDO-ILLUMINATOR (20 GA. AND 19 GA.)	SE	6/24/1997
AMERICAN MEDICAL DEVICES INC.	ENDOLIGHT FIBEROPTIC REGULAR MONOFILAMENT AND FINE MONOFILAMENT	SE	5/6/1997
AMERICAN MEDICAL DEVICES INC.	ENDOLIGHT FIBEROPTIC ENDO-ILLUMINATOR (20 GA. & 19 GA.)	SE	5/20/1997
BAUSCH & LOMB INC.	STORZ FIBEROPTIC ENDOILLUMINATOR	Registered	n/a
BAUSCH & LOMB INC.	PEREGRINE FIBEROPTIC MANIPULATOR	Registered	n/a
D.O.R.C. INTL. B.V.	OPHTHALMIC ENDOILLUMINATOR	Registered	n/a
DUTCH OPHTHALMIC RESEARCH CENTER INTERNATIONAL BV	XENON BRIGHTSTAR ILLUMINATION SYSTEM MODEL 1266.XIII	SE	10/13/2006
DUTCH OPHTHALMIC USA INC.	D.O.R.C. SOLUX LIGHT SOURCE	SE	11/7/1997
DUTCH OPHTHALMIC USA INC.	D.O.R.C. HEXON ILLUMINATION SYSTEM	SE	11/25/1997
ESCALON TREK MEDICAL	VITLITE (TR7700)	SE	12/20/1996
ESCALON TREK MEDICAL	VITLITE	Registered	n/a
GAMP & ASSOC.	GAMP & ASSOCIATES DISPOSABLE BARE END FIBER	SE	9/1/1995
GAMP & ASSOC.	GAMP & ASSOCIATES DISPOSABLE END IRRIGATING ENDOILLUMINATOR	SE	1/5/1996
GAMP & ASSOC.	GAMP & ASSOCIATES DISPOSABLE FIBEROPTIC VISCOINJECTOR	SE	1/5/1996
GAMP & ASSOC.	GAMP & ASSOCIATES DISPOSABLE FIBEROPTIC ENDOILLUMINATOR	SE	9/1/1995
GAMP & ASSOC.	GAMP & ASSOCIATES DISPOSABLE ENDOILLUMINATOR W/PICK	SE	9/1/1995
INFINITECH INC.	INFINITECH HIGH INTENSITY XENON LIGHT SOURCE SYSTEM	SE	10/19/1995
INSIGHT INSTRUMENTS MFG. INC.	INSIGHT 4000 ENDOSCOPE	SE	10/17/2000

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ISCIENCE INTERVENTIONAL	ISCIENCE INTERVENTIONAL OPHTHALMIC MICROCATHETER	SE	7/18/2008
ISCIENCE INTERVENTIONAL	ENDOILLUMINATOR (NOT SPECIFIED)	Registered	n/a
ISCIENCE INTERVENTIONAL	ENDOILLUMINATOR (NOT SPECIFIED)	Registered	n/a
ISCIENCE INTERVENTIONAL	ISCIENCE INTERVENTIONAL IL; ISCIENCE INTERVENTIONAL OPH	Registered	n/a
ISCIENCE SURGICAL	ISCIENCE SURGICAL FIBEROPTIC ILLUMINATOR MODEL FI - 100	SE	8/15/2006
ISCIENCE SURGICAL CORPORATION	ISCIENCE SURGICAL OPHTHALMIC MICROCANNULA	SE	6/22/2004
M.B. INDUSTRIES INC.	MBI CO-AXIAL ILLUMINATED RETINAL PICK	SE	5/13/1997
M.B. INDUSTRIES INC.	MBI ILLUMINATED RETINAL PICK	SE	5/13/1997
M.B. INDUSTRIES INC.	MBI FIBEROPTIC ENDO-ILLUMINATOR	SE	7/15/1996
OPHTHALMIC TECHNOLOGIES INC.	I-SCOPE OPHTHALMIC ENDOSCOPE	SE	6/25/1997
PEREGRINE SURGICAL LTD.	PEREGRINE TAPERED DIFFUSION PROBE	SE	3/31/1998
PEREGRINE SURGICAL LTD.	PEREGRINE FIBER OPTIC MULTI-FUNCTION MANIPULATOR	SE	5/19/1998
PEREGRINE SURGICAL LTD.	PEREGRINE FIBER OPTIC BIPOLAR STRAIGHT PICK AND ANGLED PICK MODELS PD100.12 AND PD100.13	SE	5/12/1998
PEREGRINE SURGICAL LTD.	PEREGRINE SHIELDED DIFFUSION PROBE	SE	3/31/1998
PEREGRINE SURGICAL LTD.	TAPERED DIFFUSION FIBER OPTIC PROBE	Registered	n/a
PEREGRINE SURGICAL LTD.	FIBER OPTIC MULTIFUNCTION MANIPULAT	Registered	n/a
PEREGRINE SURGICAL LTD.	FIBER OPTIC BIPOLAR STRAIGHT PICK	Registered	n/a
RETINALABS INC.	ENDOLIGHT END IRRIGATING	Registered	n/a
RETINALABS INC.	ENDOLIGHT ENDOILLUMINATOR	Registered	n/a
RETINALABS INC.	ENDOLIGHT MONOFILAMENT	Registered	n/a
RETINALABS.COM	TRANSPAK (VITREORETINAL INFUSION PAK) MODELS 90000 90001	SE	5/8/2000
STORZ	STORZ MVS 1011A DISPOSABLE FIBEROPTIC ENDOILLUMINATOR	SE	3/26/1996
SURGICAL TECHNOLOGIES INC.	INFINITECH LIGHTED INFUSION CANNULA	SE	10/2/1995
SYNERGETICS INC.	SYNERGETICS SYNERLIGHT FIBER OPTIC LIGHTSOURCE	SE	6/9/1997
SYNERGETICS INC.	SYNERGETICS SYNERLIGHT FIBER OPTIC LIGHTSOURCE	SE	11/24/2003
SYNERGETICS INC.	ENDOILLUMINATOR (NOT SPECIFIED)	Registered	n/a
SYNTEC INC.	SYNTEC INC. DISPOSABLE BARE END FIBER	SE	5/6/1997
VAUGHAN WEEKS	SYNTEC TRUE LIGHT END IRRIGATING ENDOILLUMINATOR	SE	11/18/1997
VAUGHAN WEEKS	SYNTEC TRUE LIGHT ENDOILLUMIINATOR WITH PICK	SE	11/14/1997

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SE: Substantially equivalent; Premarket notification, 501(k)

VITROTEC INC.	VITROTEC TRUE LIGHT ENDOILLUMINATOR (100-S)	SE	3/31/1997
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\* "Registration of a device establishment or assignment of a registration number does not in any way denote approval of the establishment or its products. Listing of a medical device is not approval of the establishment or a device by FDA." FDA

**APPENDIX A3**

**ADVERSE EFFECTS-PHARMACEUTICAL TREATMENTS**

Generic Name	Brand Name	Adverse Reaction			
		Ocular	Cardiovascular	Central Nervous System/Psychiatry	Other
Acetazolamide	Diamox®	<ul style="list-style-type: none"> <li>•Transient myopia</li> </ul>		<ul style="list-style-type: none"> <li>•Drowsiness,</li> <li>•Paresthesia (including numbness and tingling of extremities and face)</li> <li>•Depression</li> <li>•Excitement</li> <li>•Ataxia</li> <li>•Confusion</li> <li>•Convulsions dizziness</li> <li>•Flaccid paralysis</li> </ul>	<ul style="list-style-type: none"> <li>•Headache</li> <li>•Malaise</li> <li>•Fatigue</li> <li>•Fever</li> <li>•Flushing</li> <li>•Growth retardation in children</li> <li>•Anaphylaxis</li> <li>•Gastrointestinal disturbances; nausea, vomiting, diarrhea</li> <li>•Blood dyscrasias such as aplastic anemia, leukopenia thrombocytopenic purpura, agranulocytosis, and melena,</li> <li>•Abnormal liver function: Cholestatic jaundice, hepatic insufficiency, fulminant hepatic necrosis</li> <li>•Electrolyte imbalance including hypokalemia, hyponatremia, metabolic acidosis</li> <li>•Osteomalacia with long-term phenytoin therapy</li> <li>•Loss of appetite, dysgeusia</li> <li>•Hyper/hypoglycemia</li> <li>•Allergic skin reactions: urticaria, photosensitivity, Stevens-Johnson syndrome, toxic epidermal necrolysis</li> <li>•Hearing disturbances</li> <li>•Tinnitus</li> <li>•Crystalluria, glycosuria,</li> <li>•Increased risk of nephrolithiasis with long-term therapy</li> <li>•Hematuria</li> <li>•Renal failure, polyuria</li> </ul>



**APPENDIX A3**

**ADVERSE EFFECTS-PHARMACEUTICAL TREATMENTS**

Apraclonidine HCl 0.5%, 1%	Iopidine®	<ul style="list-style-type: none"> <li>• Conjunctival blanching</li> <li>• upper lid elevation</li> <li>• mydriasis</li> <li>• burning</li> <li>• discomfort</li> <li>• foreign body sensation</li> <li>• dryness</li> <li>• itching</li> <li>• hypotony</li> <li>• blurred or dimmed vision</li> <li>• allergic response</li> <li>• conjunctival microhemorrhage</li> </ul>	<ul style="list-style-type: none"> <li>•Bradycardia</li> <li>•Vasovagal attack</li> <li>•Palpitations</li> <li>•orthostatic episode</li> </ul>	<ul style="list-style-type: none"> <li>• Insomnia</li> <li>• dream disturbances</li> <li>• irritability</li> <li>• Decreased libido.</li> </ul>	<ul style="list-style-type: none"> <li>• Abdominal pain</li> <li>• Diarrhea</li> <li>• Stomach discomfort</li> <li>• Emesis, taste abnormalities</li> <li>• Dry mouth</li> <li>• Nasal burning or dryness</li> <li>• Headache</li> <li>• Head cold sensation</li> <li>• Chest heaviness or burning</li> <li>• Clammy or sweaty palms</li> <li>• Body heat sensation</li> <li>• Shortness of breath</li> <li>• Increased pharyngeal secretion, extremity pain or numbness, fatigue, paresthesia, pruritus not associated with rash.</li> </ul>
Bimatoprost 0.03%	Lumigan®B	None Available			
Brimonidine Tartrate & Timolol Maleate	Combigan™	<ul style="list-style-type: none"> <li>•diplopia</li> <li>•choroidal detachment following filtration surgery</li> <li>•cystoid macular edema</li> <li>•decreased corneal sensitivity</li> <li>•pseudophimoid</li> <li>•ptosis</li> <li>•refractive changes</li> <li>•tinnitus</li> </ul>	<ul style="list-style-type: none"> <li>•Arrhythmia</li> <li>•Bradycardia</li> <li>•cardiac arrest</li> <li>•cardiac failure</li> <li>•cerebral ischemia</li> <li>•cerebral vascular accident</li> <li>•claudication</li> <li>•cold hands and feet</li> <li>•edema</li> <li>•heart block</li> <li>•palpitation</li> <li>•pulmonary edema</li> <li>•Raynaud’s phenomenon</li> <li>•Syncope</li> <li>•worsening of angina pectoris</li> </ul>	<ul style="list-style-type: none"> <li>•Anorexia</li> <li>•insomnia</li> <li>•nightmares</li> <li>•paresthesia</li> <li>•behavioral changes and psychic disturbances including confusion</li> <li>•hallucinations</li> <li>•anxiety</li> <li>•disorientation</li> <li>•nervousness</li> <li>•memory loss</li> <li>•Decreased libido</li> <li>•signs and symptoms of myasthenia gravis</li> </ul>	<ul style="list-style-type: none"> <li>•chest pain</li> <li>•Diarrhea</li> <li>•Nausea</li> <li>•Lupus erythematosus</li> <li>•Alopecia</li> <li>•psoriasisform rash or exacerbation of psoriasis</li> <li>•Signs and symptoms of systemic allergic reactions including anaphylaxis</li> <li>•angioedema</li> <li>•urticaria</li> <li>•generalized and localized rash</li> <li>•Impotence</li> <li>•Peyronie’s disease</li> <li>•retroperitoneal fibrosis</li> <li>•Bronchospasm (predominantly in patients with pre-existing bronchospastic disease)</li> <li>•Dyspnea</li> <li>•nasal congestion</li> </ul>

**APPENDIX A3**

**ADVERSE EFFECTS-PHARMACEUTICAL TREATMENTS**

					<ul style="list-style-type: none"> <li>•respiratory failure</li> <li>•Masked symptoms of hypoglycemia in diabetic patients</li> </ul>
Brinzolamide ophthalmic suspension 1%	Azopt™				<ul style="list-style-type: none"> <li>•Stevens-Johnson syndrome</li> <li>•Toxic epidermal necrolysis</li> <li>•Fulminant hepatic necrosis</li> <li>•Agranulocytosis</li> <li>•Aplastic anemia</li> <li>•Dyscrasias</li> </ul>
Carbachol 0.75%, 1.5%, 3%	Isopto® Carbachol	None Available			
Dorzolamide HCl 2%	Trusopt®	<ul style="list-style-type: none"> <li>• ocular burning,</li> <li>• stinging</li> <li>• discomfort</li> <li>• conjunctivitis and lid reactions</li> <li>• blurred vision</li> <li>• eye redness</li> <li>• tearing</li> <li>• dryness</li> <li>• photophobia iridocyclitis</li> <li>• ocular pain</li> <li>• transient myopia</li> <li>• choroidal detachment following filtration surgery</li> <li>• eyelid crusting</li> </ul>		<ul style="list-style-type: none"> <li>• Dizziness</li> <li>• paresthesia</li> </ul>	<ul style="list-style-type: none"> <li>• headache</li> <li>• nausea</li> <li>• asthenia/fatigue</li> <li>• skin rashes</li> <li>• urolithiasis</li> <li>• signs and symptoms of systemic allergic reactions including angioedema, bronchospasm, pruritus, and urticaria</li> <li>• Stevens-Johnson syndrome and toxic epidermal necrolysis, dyspnea</li> <li>• contact dermatitis</li> <li>• epistaxis</li> <li>• dry mouth</li> <li>• throat irritation</li> </ul>
Dorzolamide HCl & Timolol Maleate	Cosopt®	<ul style="list-style-type: none"> <li>• ocular burning and/or stinging,</li> <li>• Conjunctival hyperemia</li> <li>• blurred vision</li> <li>• superficial punctate keratitis or eye itching</li> <li>• cloudy vision</li> <li>• conjunctival discharge</li> <li>• conjunctival edema</li> <li>• conjunctival follicles</li> </ul>	<ul style="list-style-type: none"> <li>• cardiac failure</li> <li>• bradycardia</li> <li>• cerebral vascular accident</li> <li>• heart block</li> <li>• hypotension</li> <li>• myocardial infarction</li> <li>• hypertension</li> <li>• chest pain</li> </ul>	<ul style="list-style-type: none"> <li>• dizziness</li> <li>• depression</li> <li>• paresthesia</li> </ul>	<ul style="list-style-type: none"> <li>• abdominal pain</li> <li>• back pain</li> <li>• bronchitis</li> <li>• cough</li> <li>• headache</li> <li>• influenza</li> <li>• nausea</li> <li>• pharyngitis</li> <li>• sinusitis</li> </ul>

**APPENDIX A3**

**ADVERSE EFFECTS-PHARMACEUTICAL TREATMENTS**

		<ul style="list-style-type: none"> <li>• conjunctival injection</li> <li>• conjunctivitis</li> <li>• corneal erosion, staining</li> <li>• cortical lens opacity</li> <li>• eyelid exudate/scales</li> <li>• eyelid pain or discomfort</li> <li>• foreign body sensation</li> <li>• glaucomatous cupping</li> <li>• choroidal detachment following filtration surgery</li> <li>• visual field defect</li> <li>• nuclear lens opacity</li> <li>• post-subcapsular cataract</li> <li>• lens nucleus coloration</li> <li>• lens opacity dryness of eyes</li> <li>• eye debris or eye discharge</li> <li>• eye pain</li> <li>• eye tearing</li> <li>• eyelid edema or erythema</li> <li>• photophobia</li> <li>• blepharitis</li> <li>• iridocyclitis</li> </ul>			<ul style="list-style-type: none"> <li>• upper respiratory infection</li> <li>• urinary tract infection</li> <li>• vitreous detachment</li> <li>• diarrhea</li> <li>• dry mouth</li> <li>• dyspnea</li> <li>• nasal congestion</li> <li>• Stevens-Johnson syndrome</li> <li>• toxic epidermal necrolysis</li> <li>• respiratory failure</li> <li>• skin rashes</li> <li>• urolithiasis</li> <li>• vomiting</li> <li>• dyspepsia</li> </ul>
Latanoprost 0.005%	Xalatan®	<ul style="list-style-type: none"> <li>• Eyelash changes (increased length, thickness, pigmentation, and number of lashes)</li> <li>• eyelid skin darkening</li> <li>• intraocular inflammation (iritis/uveitis)</li> <li>• iris pigmentation changes</li> <li>• macular edema, including cystoid macular edema, blurred vision, burning and stinging, conjunctival hyperemia, foreign body sensation, itching, increased pigmentation of the iris, and punctate epithelial keratopathy</li> <li>• dry eye</li> </ul>			<ul style="list-style-type: none"> <li>• respiratory tract infection/cold/flu</li> <li>• Chest pain/angina pectoris</li> <li>• muscle/joint/back pain</li> <li>• rash/allergic skin reaction</li> </ul>

APPENDIX A3

ADVERSE EFFECTS-PHARMACEUTICAL TREATMENTS

		<ul style="list-style-type: none"> <li>• excessive tearing</li> <li>• eye pain</li> <li>• lid crusting</li> <li>• lid discomfort/pain</li> <li>• lid edema or erythema</li> <li>• photophobia</li> <li>• conjunctivitis</li> <li>• diplopia</li> <li>• discharge from the eye</li> </ul>			
Levobunolol HCl ophthalmic solution, USP 0.25%, 0.5%	Betagan®	None Available			
Metipranolol 0.3%	OptiPranolol®	<ul style="list-style-type: none"> <li>• May cause irritation, slight burning sensation on application and hypersensitivity (anaphylactic)</li> <li>• conjunctivitis</li> <li>• eyelid dermatitis</li> <li>• blepharitis</li> <li>• blurred vision</li> <li>• tearing</li> </ul>			<ul style="list-style-type: none"> <li>• photophobia</li> <li>• edema</li> </ul>
Brimonidine tartrate 0.1%, 0.15%	Alphagan®	<ul style="list-style-type: none"> <li>• allergic conjunctivitis</li> <li>• conjunctival hyperemia</li> <li>• burning sensation</li> <li>• conjunctival folliculosis</li> <li>• ocular allergic reaction</li> <li>• visual disturbance</li> <li>• blepharitis</li> <li>• blepharoconjunctivitis</li> <li>• blurred vision</li> <li>• cataract</li> <li>• conjunctival edema</li> <li>• conjunctival hemorrhage</li> <li>• conjunctivitis</li> <li>• eye discharge</li> <li>• eye dryness</li> <li>• eye irritation, eye pain</li> <li>• eyelid edema or erythema</li> </ul>	<ul style="list-style-type: none"> <li>• hypotension</li> <li>• hypertension</li> </ul>	<ul style="list-style-type: none"> <li>• dizziness</li> </ul>	<ul style="list-style-type: none"> <li>• abnormal taste</li> <li>• allergic reaction</li> <li>• asthenia</li> <li>• bronchitis</li> <li>• cough</li> <li>• dyspepsia</li> <li>• dyspnea</li> <li>• fatigue</li> <li>• flu syndrome</li> <li>• foreign body sensation</li> <li>• gastrointestinal disorder</li> <li>• headache</li> <li>• hypercholesterolemia</li> <li>• infection (primarily colds and respiratory infections)</li> <li>• insomnia</li> <li>• pharyngitis</li> </ul>

**APPENDIX A3**

**ADVERSE EFFECTS-PHARMACEUTICAL TREATMENTS**

		<ul style="list-style-type: none"> <li>• eye pruritus</li> <li>• epiphora</li> <li>• follicular conjunctivitis tearing</li> <li>• visual field defect</li> <li>• vitreous detachment</li> <li>• vitreous floaters</li> <li>• worsened visual acuity</li> <li>• superficial punctate keratopathy</li> <li>• keratitis</li> </ul>			<ul style="list-style-type: none"> <li>• photophobia</li> <li>• rash</li> <li>• rhinitis</li> <li>• sinus infection</li> <li>• sinusitis</li> <li>• somnolence</li> <li>• stinging</li> <li>• oral dryness</li> </ul>
Pilocarpine HCl 1%, 2%, 4%, 6%, 8%	Isopto® Carpine	<ul style="list-style-type: none"> <li>• blurred vision</li> <li>• eye irritation</li> <li>• visual impairment (dim, dark, or “jumping” vision)</li> <li>• eye pain</li> </ul>			<ul style="list-style-type: none"> <li>• headache/browache</li> </ul>
Pilocarpine HCl gel 4%	Pilopine HS® Gel	<ul style="list-style-type: none"> <li>• Reduced visual acuity in poor illumination</li> <li>• Retinal detachment has been reported during treatment with miotic agents</li> <li>• Lens opacity</li> <li>• corneal granularity</li> <li>• myopia</li> </ul>			<ul style="list-style-type: none"> <li>• lacrimation</li> <li>• burning or discomfort</li> <li>• temporal or periorbital headache</li> <li>• ciliary spasm</li> <li>• conjunctival vascular congestion</li> <li>• superficial keratitis induced</li> <li>• sweating</li> <li>• gastrointestinal overactivity</li> </ul>
Pilocarpine HCl ophthalmic solution USP ) 0.5%, 1%, 2%, 3%, 4%, 6%	Pilocarpine HCl Ophthalmic Solution USP	<ul style="list-style-type: none"> <li>• temporary burning sensation</li> <li>• cause eye spasms (ciliary)</li> <li>• swelling of the mucous membranes of the eye conjunctival vascular congestion)</li> <li>• tearing</li> <li>• induced nearsightedness (myopia)</li> </ul>	<ul style="list-style-type: none"> <li>• hypertension,</li> <li>• rapid heart rate (tachycardia)</li> <li>• slow heart rate (bradycardia)</li> </ul>	<ul style="list-style-type: none"> <li>• confusion</li> </ul>	<ul style="list-style-type: none"> <li>• bronchiolar spasm,</li> <li>• pulmonary edema</li> <li>• salivation</li> <li>• sweating</li> <li>• nausea</li> <li>• vomiting</li> <li>• diarrhea</li> <li>• headache</li> </ul>
SBetaxolol HCl 0.25%, 0.5%	Betoptic®	<ul style="list-style-type: none"> <li>• Blurred vision</li> <li>• corneal punctate keratitis</li> <li>• foreign body sensation</li> <li>• photophobia</li> <li>• tearing</li> </ul>	<ul style="list-style-type: none"> <li>• Bradycardia</li> <li>• heart block</li> <li>• Congestive failure.</li> </ul>	<ul style="list-style-type: none"> <li>• Insomnia</li> <li>• Dizziness</li> <li>• Vertigo</li> <li>• Headaches</li> <li>• Depression</li> </ul>	<ul style="list-style-type: none"> <li>• Hives</li> <li>• toxic epidermal necrolysis</li> <li>• hair loss</li> <li>• glossitis</li> <li>• perversions of taste and smell</li> </ul>

APPENDIX A3

ADVERSE EFFECTS-PHARMACEUTICAL TREATMENTS

		<ul style="list-style-type: none"> <li>itching</li> <li>dryness of eyes</li> <li>erythema</li> <li>inflammation</li> <li>discharge</li> <li>ocular pain</li> <li>decreased visual acuity</li> <li>crusty lashes</li> </ul>		<ul style="list-style-type: none"> <li>Lethargy</li> <li>myasthenia gravis</li> </ul>	<ul style="list-style-type: none"> <li>pulmonary distress characterized by dyspnea, bronchospasm</li> <li>thickened bronchial secretions</li> <li>asthma</li> <li>respiratory failure</li> </ul>
Timolol hemihydrate 0.25%, 0.5%	Betimol®	<ul style="list-style-type: none"> <li>Dry eyes,</li> <li>Itching</li> <li>foreign body sensation</li> <li>discomfort in the eye</li> <li>eyelid erythema</li> <li>conjunctival injection</li> <li>Eye pain</li> <li>Epiphora</li> <li>Photophobia</li> <li>blurred or abnormal vision</li> <li>corneal fluorescein staining</li> <li>keratitis</li> <li>blepharitis and cataract</li> <li>Conjunctivitis</li> <li>Blepharoptosis</li> <li>decreased corneal sensitivity</li> <li>visual disturbances including refractive changes</li> <li>diplopia and retinal vascular disorder</li> </ul>	<ul style="list-style-type: none"> <li>Hypertension</li> <li>Arrhythmia</li> <li>Palpitation</li> <li>Bradycardia</li> <li>Hypotension</li> <li>Syncope</li> <li>heart block</li> <li>cerebral vascular accident</li> <li>cerebral ischemia</li> <li>cardiac failure and cardiac arrest</li> <li>Chest pain</li> </ul>	<ul style="list-style-type: none"> <li>Dizziness</li> <li>Depression</li> <li>Increase in signs and symptoms of myasthenia gravis and paresthesia</li> </ul>	<ul style="list-style-type: none"> <li>Headache</li> <li>Allergic reaction</li> <li>Asthenia</li> <li>Pain in extremities</li> <li>Nausea</li> <li>Peripheral edema</li> <li>Respiratory infection and sinusitis</li> <li>Diarrhea</li> <li>Impotence</li> <li>Dyspnea</li> <li>Bronchospasm</li> <li>respiratory failure and nasal congestion</li> <li>Alopecia</li> <li>hypersensitivity including localized and generalized rash</li> <li>Urticaria</li> <li>Masked symptoms of hypoglycemia in insulin dependent diabetics</li> <li>dry mouth</li> </ul>
Timolol Maleate 0.5%	OphthalmicsTimolol Maleate USP	<ul style="list-style-type: none"> <li>Conjunctivitis</li> <li>Blepharitis</li> <li>Keratitis</li> <li>ocular pain</li> <li>discharge (e.g., crusting)</li> <li>foreign body sensation</li> <li>itching and tearing</li> <li>dry eyes</li> </ul>	<ul style="list-style-type: none"> <li>Bradycardia,</li> <li>Arrhythmia</li> <li>Hypotension</li> <li>Hypertension</li> <li>Syncope</li> <li>heart block</li> <li>cerebral vascular</li> <li>accident cerebral ischemia</li> </ul>	<ul style="list-style-type: none"> <li>Dizziness</li> <li>Increase in signs and symptoms of myasthenia gravis</li> <li>Paresthesia</li> <li>Somnolence</li> <li>Insomnia</li> <li>Nightmares</li> <li>Depression</li> </ul>	<ul style="list-style-type: none"> <li>Headache</li> <li>Asthenia/fatigue</li> <li>Nausea</li> <li>diarrhea</li> <li>dyspepsia</li> <li>dry mouth</li> <li>systemic lupus erythematosus</li> <li>alopecia</li> </ul>

APPENDIX A3

ADVERSE EFFECTS-PHARMACEUTICAL TREATMENTS

		<ul style="list-style-type: none"> <li>• ptosis</li> <li>• decreased corneal sensitivity</li> <li>• cystoid macular edema</li> <li>• visual disturbances</li> </ul>	<ul style="list-style-type: none"> <li>• cardiac failure</li> <li>• worsening of angina pectoris</li> <li>• palpitation</li> <li>• Chest pain</li> <li>• cardiac arrest</li> <li>• pulmonary edema</li> <li>• edema</li> <li>• Claudication</li> <li>• Raynaud’s phenomenon</li> <li>• cold hands and feet.</li> </ul>	<ul style="list-style-type: none"> <li>• confusion,</li> <li>• hallucinations</li> <li>• anxiety</li> <li>• disorientation, nervousness</li> <li>• Memory loss.</li> <li>• decreased libido</li> <li>• anorexia</li> </ul>	<ul style="list-style-type: none"> <li>• psoriasiform rash or exacerbation of psoriasis</li> <li>• angioedema</li> <li>• urticaria</li> <li>• localized and generalized rash</li> <li>• Bronchospasm (predominantly in patients with pre-existing bronchospastic disease)</li> <li>• respiratory failure</li> <li>• dyspnea</li> <li>• nasal congestion</li> <li>• cough</li> <li>• upper respiratory infections</li> <li>• Retroperitoneal fibrosis</li> <li>• impotence</li> <li>• Peyronie’s disease</li> </ul>
Timolol maleate ophthalmic gel forming solution 0.25%, 0.5%	Timoptic-XE®	<ul style="list-style-type: none"> <li>• Pain,</li> <li>• Conjunctivitis</li> <li>• discharge (e.g., crusting)</li> <li>• foreign body sensation</li> <li>• itching and tearing</li> <li>• Signs and symptoms of ocular irritation including blepharitis, keratitis, and dry eyes</li> <li>• Ptosis</li> <li>• decreased corneal sensitivity</li> <li>• cystoid macular edema</li> <li>• visual disturbances including refractive changes and diplopia</li> <li>• pseudopemphigoid</li> <li>• choroidal detachment following filtration surgery</li> <li>• tinnitus</li> </ul>	<ul style="list-style-type: none"> <li>• Bradycardia</li> <li>• Arrhythmia</li> <li>• Hypotension</li> <li>• Hypertension</li> <li>• chest pain</li> <li>• Syncope</li> <li>• heart block</li> <li>• cerebral vascular accident</li> <li>• cerebral ischemia</li> <li>• cardiac failure</li> <li>• worsening of angina pectoris</li> <li>• palpitation</li> <li>• cardiac arrest</li> <li>• pulmonary edema</li> <li>• edema</li> <li>• claudication</li> <li>• Raynaud’s phenomenon</li> <li>• cold hands and feet</li> </ul>	<ul style="list-style-type: none"> <li>• Increase in signs and symptoms of myasthenia gravis,</li> <li>• Paresthesia</li> <li>• Somnolence</li> <li>• Insomnia</li> <li>• Nightmares</li> <li>• behavioral changes and psychic disturbances including depression, confusion, hallucinations, anxiety, disorientation, nervousness, and memory loss.</li> <li>• Anorexia</li> </ul>	<ul style="list-style-type: none"> <li>• Headache</li> <li>• Dizziness</li> <li>• Uupper respiratory infections</li> <li>• Asthenia/fatigue</li> <li>• Nausea</li> <li>• Diarrhea</li> <li>• Dyspepsia</li> <li>• dry mouth</li> <li>• Systemic lupus erythematosus</li> <li>• Signs and symptoms of systemic allergic reactions including anaphylaxis</li> <li>• Angioedema</li> <li>• Urticaria</li> <li>• localized and generalized rash</li> <li>• Bronchospasm (predominantly in patients with pre-existing bronchospastic disease)</li> <li>• respiratory failure</li> <li>• dyspnea</li> <li>• nasal congestion</li> <li>• cough</li> </ul>

**APPENDIX A3**

**ADVERSE EFFECTS-PHARMACEUTICAL TREATMENTS**

					<ul style="list-style-type: none"> <li>• Masked symptoms of hypoglycemia in diabetic patients</li> <li>• Alopecia and psoriasiform rash or exacerbation of psoriasis</li> </ul>
Timolol Maleate Ophthalmic Solution 0.5%	Istalol®	<ul style="list-style-type: none"> <li>• Signs and symptoms of ocular irritation including conjunctivitis,</li> <li>• Blepharitis</li> <li>• Keratitis</li> <li>• ocular pain</li> <li>• discharge (e.g. crusting)</li> <li>• foreign body sensation</li> <li>• itching and tearing</li> <li>• dry eyes</li> <li>• ptosis</li> <li>• decreased</li> <li>• corneal sensitivity</li> <li>• cystoid macular edema</li> <li>• visual disturbances including refractive changes and diplopia</li> <li>• pseudopemphigoid</li> <li>• choroidal detachment following filtration surgery</li> <li>• tinnitus</li> </ul>	<ul style="list-style-type: none"> <li>• Bradycardia</li> <li>• Arrhythmia</li> <li>• Hypotension</li> <li>• Syncope</li> <li>• heart block</li> <li>• cerebral vascular accident</li> <li>• cerebral ischemia</li> <li>• cardiac failure</li> <li>• worsening of angina pectoris</li> <li>• palpitation</li> <li>• cardiac arrest</li> <li>• edema</li> <li>• claudication</li> <li>• Raynaud's phenomenon</li> <li>• cold hands and feet</li> </ul>	<ul style="list-style-type: none"> <li>• Anorexia</li> <li>• Dizziness</li> <li>• increase in signs and symptoms of myasthenia gravis</li> <li>• somnolence</li> <li>• insomnia</li> <li>• nightmares</li> <li>• behavioral changes and psychic disturbances including depression, confusion, hallucinations, anxiety, disorientation, nervousness, and memory loss</li> <li>• decreased libido</li> </ul>	<ul style="list-style-type: none"> <li>• Asthenia/fatigue and chest pain</li> <li>• Nausea</li> <li>• Diarrhea</li> <li>• Dyspepsia</li> <li>• dry mouth</li> <li>• lupus erythematosus</li> <li>• paresthesia</li> <li>• Alopecia and psoriasiform rash or exacerbation of psoriasis</li> <li>• Signs and symptoms of systemic allergic reactions</li> <li>• Angioedema,urticaria, and localized and generalized rash,</li> <li>• Bronchospasm (predominantly in patients with pre-existing bronchospastic disease)</li> <li>• respiratory failure</li> <li>• dyspnea</li> <li>• nasal congestion</li> <li>• cough and upper respiratory infections</li> <li>• Retroperitoneal fibrosis</li> <li>• impotence</li> <li>• Peyronie's disease</li> <li>• Masked symptoms of hypoglycemia in diabetic patients</li> <li>• pulmonary edema</li> </ul>
Travaprost 0.004%	Travatan®, Travatan® Z	<ul style="list-style-type: none"> <li>• ocular hyperemia</li> <li>• conjunctival hyperemia</li> <li>• decreased visual acuity</li> <li>• eye discomfort</li> </ul>	<ul style="list-style-type: none"> <li>• Bradycardia</li> <li>• hypertension</li> <li>• hypotension</li> <li>• hypercholesterolemia</li> </ul>	<ul style="list-style-type: none"> <li>• Anxiety</li> <li>• angina pectoris</li> <li>• depression</li> </ul>	<ul style="list-style-type: none"> <li>• Allergy</li> <li>• arthritis</li> <li>• back pain</li> <li>• bronchitis</li> </ul>



**APPENDIX A3****ADVERSE EFFECTS-PHARMACEUTICAL TREATMENTS**

	<ul style="list-style-type: none"><li>• foreign body sensation</li><li>• pain</li><li>• Pruritus</li><li>• abnormal vision</li><li>• Blepharitis</li><li>• blurred vision</li><li>• Cataract</li><li>• Conjunctivitis</li><li>• corneal staining</li><li>• dry eye</li><li>• iris discoloration</li><li>• keratitis</li><li>• lid margin crusting</li><li>• ocular inflammation</li><li>• photophobia</li><li>• subconjunctival hemorrhage</li><li>• tearing</li></ul>			<ul style="list-style-type: none"><li>• chest pain</li><li>• cold/flu syndrome</li><li>• Dyspepsia</li><li>• gastrointestinal disorder</li><li>• headache</li><li>• infection</li><li>• pain</li><li>• prostate disorder</li><li>• sinusitis</li><li>• urinary incontinence and urinary tract infections</li></ul>
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**APPENDIX B.**

**PHARMACEUTICAL TREATMENTS- GENERIC AND TRADE NAMES**

Pharmacologic category	Generic Name	US Brand Name	Canadian Brand Name	Mexican Brand name	European Brand Names
non-selective beta-adrenergic receptor blocker	Timolol	Betimol®	Apo-Timol®	Globitan	Timabak
		Istalol®	Gen-Timolol	Horex	
		Timoptic®	Nu-Timolol	Imot Ofteno	
		Timoptic-XE®	Phoxal-timolol	Nyolol	
		Timoptic OcuDose®	PMS-Timolol	Shemol	
		Timolol GFS	Tim-AK	Timoptol	
			Timoptic®	Timozzard	
			Timoptic-XE®		
			Alti-Timolol		
			Apo-Timop®		
			Mylan-Timolol		
			Sandoz-Timolol		
	Levobunolol	Betagan®	Apo-Levobunolol®	Betagan	Vistagan
			Betagan®		Vistagan-Liquifilm
			Novo-Levobunolol		
			Ophtho-Bunolol®		
			PMS-Levobunolol		
			Sandoz-Levobunolol		
	Metipranolol	OptiPranolol	OptiPranolol		Turoptin
					Normoglucon
					Minims metipranolol
					Betacarpin augentropfen
					Betamann
					Betaophtiole
Beta 1 selective beta blocker	Betaxolol	Betoptic	Betoptic S	Betoptic S	Oxodal
			Sandoz-Betaxolol		
Alpha2 Agonist	Apraclonidine	Iopidine®	Iopidine®		
		Brimonidine	Alphagan®	Alphagan®	Agglad Ofteno
				Apo-Brimonidine P®	Alphagan
				Apo-Brimonidine®	Nor-Tenz
				PMS-Brimonidine Tartrate	
				ratio-Brimonidine	
		Sandoz-Brimonidine			

**APPENDIX B.**

**PHARMACEUTICAL TREATMENTS- GENERIC AND TRADE NAMES**

Carbonic Anhydrase Inhibitor	Brinzolamide	Azopt®	Azopt®	Azopt	
	Acetazolamide	Diamox®	Apo-Acetazolamide®	Acetadiazol	
		Sequels®	Diamox®		
	Dorzolamide	Trusopt®	Trusopt®	Trusopt	
Cholinergic	Carbachol	Isopto® Carbachol	Isopto® Carbachol		
		Miostat®	Miostat®		
	Pilocarpine	Isopto® Carpine	Diocarpine	Caliprene	
		Pilopine HS®	Isopto® Carpine	Dretinof	
		Salagen®	Pilopine HS®		
			Salagen®		
Prostaglandin Analogs	Travoprost	Travatan®	Travatan®	Travatan	
		Travatan® Z	Travatan® Z		
	Bimatoprost	Lumigan®	Lumigan®	Lumigan	
		Latisse TM	Lumigan® RC		
	Latanoprost	Xalatan®	Xalatan®	Xalatan	
Combined	Dorzolamide and timolol	Cosopt®	Cosopt®	Cosopt	
		Preservative-free Cosopt®			
	Brimonidine and timolol	Combigan®	Combigan®		

**DEFINITIONS****Aqueous humor**

The fluid filling the front of the eye between the cornea and the lens. Aqueous is created by the ciliary body and drains out through Schlemm's canal via the trabecular meshwork.

**Blindness**

A visual acuity worse than 20/400, with the best possible correction, or a visual field of 10 degrees or less.

{World Health Organization}

**Cataract**

Opacification of the native crystalline lens. **Intraocular pressure** is a measurement of the fluid pressure inside the eye.

**Deep Sclerectomy**

A non-penetrating procedure involving near-full thickness dissection of sclera and peripheral cornea overlying Schlemm's canal. Fluid is allowed to percolate through Descemet's membrane into the subconjunctival space where it is resorbed.

**Glaucoma**

An optic neuropathy (optic nerve disease) with a characteristic appearance of the optic nerve and a characteristic loss of midperipheral vision.

Foster PJ, Buhrmann, R, Quigley HA, Johnson GJ. The definition and classification of glaucoma in prevalence surveys. *British Journal of Ophthalmology* 2002; 86: 238-242.

**Glaucoma suspect**

Individual who may have early, but not definitive glaucomatous optic nerve damage, or individual who does not have glaucomatous optic nerve damage, but for demographic reasons or ocular reasons has a high chance of developing glaucoma.

Foster PJ, Buhrmann, R, Quigley HA, Johnson GJ. The definition and classification of glaucoma in prevalence surveys. *British Journal of Ophthalmology* 2002; 86: 238-242.

**Open Angle Glaucoma**

A progressive optic neuropathy characterized by loss of retinal ganglion cells and "cupping" of the optic nerve. Glaucoma is defined to be of the open angle type when the anterior chamber angle is open on gonioscopic examination.

**Glaucoma, Primary open angle**

Open angle glaucoma in the absence of any other ocular, systemic or pharmacological cause and accompanied by elevated intraocular pressure

**Glaucoma, Secondary**

Glaucoma associated with raised intraocular pressure due to a recognized or systemic disease, or to a pharmacological treatment..

**Glaucoma drainage device** (also called a tube shunt)

A tube connected to a plate (or reservoir). The plate is secured to the sclera at or behind the equator of the eye and the tube is inserted into the anterior chamber. Aqueous then drains out of the eye to the plate where it is resorbed.

**Low vision**

Visual acuity between 20/70 and 20/400, with the best possible correction, or a visual field of 20 degrees or less. (ICD 9 definition)

**Optic nerve**

The bundle of nerve fibers that transmits visual information from the eye to the brain

**Ophthalmologist**

Medical doctor who is specialized in eye and vision care. Ophthalmologists are trained to provide the full spectrum of eye care.

**Optometrist**

Health care professional who is licensed to provide primary eye care services.

**Perimetry**

Systematic determination and mapping of the limits of the visual field, usually for the purpose of detecting anomalies in the visual pathway

**Primary care physician**

A generalist physician who provides definitive care to the undifferentiated patient at the point of first contact and takes continuing responsibility for providing the patient's care. Such a physician must be specifically trained to provide primary care services.

**Patient-reported outcome** or PRO is a questionnaire used in a clinical trial or a clinical setting, where the responses are collected directly from the patient

**Tonometry**

Measurement of intraocular pressure (IOP).

**Trabeculoplasty**

Photocoagulation of the trabecular meshwork of the eye by means of a laser.

**Trabeculectomy**

As currently practiced, a trabeculectomy is a full thickness (the surgical wound extends into the eye) filtering procedure with a partial-thickness scleral flap overlying it to regulate outflow of aqueous.

**Non-Penetrating Surgery**

Any of a number of procedures used to decrease intraocular pressure without creating a wound that extends the full thickness of the eye wall.

**Viscocanalostomy**

A type of non-penetrating surgery aimed at lowering intraocular pressure by manipulating Schlemm's canal. A scleral flap is dissected over Schlemm's canal and then a viscoelastic substance is injected. The superficial flap is then sutured in place at the end of the procedure.

**Visual field**

The area within which visible light stimuli can be detected by an eye in a straight-ahead position.

**The Heidelberg Retina Tomograph (HRT)** is a confocal laser scanning microscope. It uses multiple tomographic images to measure either the optic nerve head or posterior retinal structures to detect glaucomatous damage to the nerve fiber layer of the retina. It also detects non-glaucomatous retinal changes in the microstructure of the posterior retina (e.g., macular edema, atrophy associated with degenerative retinal diseases).

**ABBREVIATIONS**

AE	Adverse events
AHRQ	Agency for Health Related Quality
CAI	Carbonic anhidrase inhibitors
CCT	Central corneal thickness
CEA	Cost-effectiveness analysis
CI	Confidence interval
COAG	Chronic open angle glaucoma
EPC	Evidence-based Practice Center
FDA	Food and Drug Administration
GAT	Goldmann applanation tonometry
GRADE	Grading of Recommendation Assessment, Development and Evaluation
HRQL	Health related quality of life
HTA	Health technology assessment
HRT	Heidelberg retina tomography
IOP	Intraocular pressure
ITT	Intention to treat
MD	Mean deviation
OCT	Optical coherence tomography
OHT	Ocular hypertension
PGA	Prostaglandin analogs
PICO	Patient-Intervention-Comparators-Outcomes
POAG	Primary open angle glaucoma
PPA	Peri-papillary atrophy
PRO	Patient reported outcomes
QOL	Quality of life
RCT	Randomized controlled trial
RR	Relative risk
SAP	Standard automated perimetry
SD	Standard deviation
SLT	Selective laser trabeculoplasty
SR	Systematic review
VAS	Visual analogue scale
VF	Visual field