

Prof Noel Alpins AM

Digest of Personal and Professional biography

Work Address: 7 Chesterville Road Cheltenham 3192

Prof Noel Alpins AM has been specialising in Cataract and Refractive Surgery since founding NewVision Clinics in Melbourne in 1996. He speaks widely on these topics at national and international meetings and has been a keynote speaker and chair on many occasions. He has taught in astigmatism courses both in USA and Europe for more than 20 years. Prof Alpins presented the RANZCO Council Lecture, in Adelaide in 2010. In November 2012 he was awarded the International Society Refractive Surgery (ISRS) Lans Distinguished Award at the Annual Meeting in Chicago for his innovative contributions to the field of refractive surgery especially in the correction of astigmatism. He was honoured in August 2012 with the Gold Medal at Eye Advance in Mumbai for Outstanding Contribution to Ophthalmology. He is also a recipient of the 2013 American Academy Ophthalmology (AAO) Achievement Award and the ISRS Lifetime Achievement Award in 2014 for his internationally recognised contributions to the advancement of refractive surgery over his career. In May 2015 he was awarded the Certificate of Outstanding Contribution in Reviewing for Elsevier in recognition of his contributions made to the quality of the journal. In 2017, Prof Alpins was awarded with his Member of General Division of Order of Australia AM Honour for his significant service to ophthalmology, particularly to the development of innovative refractive surgery techniques, and to professional associations. In October 2017 Prof Alpins was awarded the ISRS Recognition Award. He delivered the Norman McAlister Gregg Lecture in 2017 at RANZCO, Perth and he published and released his book titled "Practical Astigmatism- Planning and Analysis" by Slack incorporated. He was the recipient of the 2019 ISRS Jose I. Barraquer Lecture & Award ISRS at AAO in San Francisco.

He pioneered small incision cataract surgery in Victoria in 1987 and is a Foundation member since 1991 and current Director of the Excimer Laser & Research Group. Prof Alpins was also appointed Honorary Clinical Professor at the University of Melbourne in 2017 where he completed his Diploma of Ophthalmology in 1977 prior to commencing practice in general ophthalmology.

During the five years up to 2024, Prof Alpíns and his programming team at ASSORT developed for the International Society Refractive Surgery (ISRS), 11 astigmatism calculators both single and group for the planning and analysis of astigmatic surgery. Following on from this there are now 10 didactic modules introduced onto the ISRS website that year, to be used in education of surgeons who perform astigmatism techniques to be familiar with the Alpíns Method

From 2005 – 2017, Prof Alpíns served on the RANZCO program committee and from 2008 as chairman of Subcommittee for invited speakers. He is on the editorial board of several ophthalmic information magazines and peer reviewed journals including Journal of Refractive Surgery (JRS), Journal of Cataract and Refractive Surgery (JCRS), EuroTimes, Ocular Surgery News (OSN), Cataract and Refractive Surgery Today (CRST) and Indian Intraocular Implant & Refractive Society and has published widely with more than 100 published articles in these and has contributed more than 20 book chapters. He is an International Council Member of International Society of Refractive Surgery of the American Academy of Ophthalmology since 2010 when he was appointed as a member of the ISRS International Council. He has developed new techniques for analysing astigmatism known as Alpíns Method and this has been acknowledged by several Journals as the standard for reporting astigmatism surgery outcomes. These have also been adopted as the standard for evaluating laser treatments in the peer reviewed literature and regulatory authorities as the ANSI standard. Prof Alpíns developed the ASSORT Surgical Management Systems computer program for Vector Planning® of treatment and outcomes analysis of cataract and refractive surgery used by colleagues in Australia and overseas. The iAssort program for corneal analysis is now interfaced with more than 10 different topographers and tomographers which provide the CorT parameter that he developed for quantifying anterior and Total corneal astigmatism. Prof Alpíns has also made available several free website applications calculators for colleagues use on the *International Society of Refractive Surgery*, *American Academy of Ophthalmology* and ASSORT website.

When Prof Alpins is not practicing ophthalmology, he enjoys playing golf, skiing, going to live entertainment and spending time with Sylvia and their family.

Practice: Private group practice Medical Director of Cheltenham Eye Centre and NewVision Clinics, Melbourne, Australia

Focus: Cataract/IOL and Refractive Surgery

Education: Medical degree (M.B., B.S.), University of Melbourne, 1970; Diploma of Ophthalmology, University of Melbourne, 1977.

Residency: Alfred Hospital, Australia, 1971-72

Fellowships and Certifications: Ophthalmology Registrar, Royal Victoria Eye & Ear Hospital, Australia, 1974-77; Fellow, Royal Australian & New Zealand College of Ophthalmologists, 1978; Fellow, Royal Australian College of Surgeons, 1978; Fellow, American College of Surgeons, 1985; and Fellow, Royal College of Ophthalmologists (UK), 1989; Fellow, American Board of Eye Surgery, 2005.

Memberships: International Intra-ocular Implant Club IIIC; American Society of Cataract and Refractive Surgeons; European Society of Cataract & Refractive Surgeons; International Society of Refractive Surgery; American Academy of Ophthalmology; Australian Medical Association.

Accomplishments: Developed the Alpins Method of astigmatism analysis in 1993; founded ASSORT Pty. Ltd. in 1992 to market the ASSORT planning and outcome analysis computer program for cataract and refractive surgery. Is a recognized world authority on astigmatism analysis and treatment; speaks and chairs symposia at major meetings; serves as reviewer for peer-reviewed journals and writes regularly for ophthalmic information magazines. Performed first phacoemulsification procedure in Victoria in May 1987. Was first surgeon in Australia to employ computerized outcomes and astigmatism analysis. Won the 1993 Borland Paradox Challenge for the ASSORT program. Patented his method for treating and analyzing astigmatism (U.S. and other countries). Developed a new multizone, multipass algorithm for excimer laser myopia treatment adopted

by the Melbourne Excimer Laser Group for patient treatment. Was nominated for inaugural Trokel Award for excellence in laser refractive surgery, 1994- 95. Eye Advance Mumbai 2006 – Recipient of a Gold Medal for Distinguished Contribution to Ophthalmology. Invited speaker for Council Lecture, RANZCO, Adelaide 2010. International Society Refractive Surgery (ISRS) Lans Distinguished Award 2012. Gold Medal recipient at Eye Advance in Mumbai 2012. American Academy Ophthalmology (AAO) Achievement Award 2013. Australia Day ambassador ongoing since 2011. He was awarded the Lifetime Achievement Award by the ISRS of the AAO in October 2014 for his significant and internationally recognised contributions to the advancement of refractive surgery over his career. Certificate of Outstanding contribution in reviewing for Elsevier in 2015 in recognition of the contributions made to the quality of the journal. Served on RANZCO program committee 2005 – 2017 chairing subcommittee for inviting overseas and named lectures from 2008. In 2017, Prof Alpins published & released his book titled “Practical Astigmatism–Planning and Analysis” by Slack incorporated. He was awarded with his Member of General Division of Order of Australia AM Honour for his significant service to ophthalmology, particularly to the development of innovative refractive surgery techniques, and to professional associations. In November 2017 at RANZCO, Perth 49th Annual Scientific Congress in Perth presented the Norman McAlister Gregg Lecture. Also In November 2017, Prof Alpins was appointed by the University of Melbourne as Honorary Clinical Professor. Prof Alpins was the recipient of the 2019 Jose I. Barraquer Lecture & Award for International Society of Refractive Surgery at AAO in San Francisco. In 2020 he was awarded the Secretariat Award by the American Academy of Ophthalmology (AAO).

Publications: Has written numerous articles in newsmagazines and peer reviewed journals. Has served on editorial board, *Eyecare Technology* and *EyeWorld* magazine; and online consultation panel in areas of cataract surgery and refractive surgery for *Ocular Surgery News* and *EuroTimes* magazines and *Cataract and Refractive Surgery Today (CRST)*. He has written and published a book “Practical Astigmatism, Planning and Analysis” released in September 2017 by Slack

Incorporated.

Professional Activities: Founding Member, Excimer Laser & Research Group, University of Melbourne 1991; Member, Protocol & Ethics Committee of the Excimer Laser & Research Group, University of Melbourne 1991; Past chairman of the Como Private Hospital Theatre and Infection Committee, 1985-92; Investigator and Global Advisor for VisX Inc. USA 1998-1999, 2005; Scientific Program Committee of Royal Australian and New Zealand College Ophthalmologists from 2005-2017 and chaired the Invited Speaker Sub-committee for 10 years; Associate Fellow, University of Melbourne, Department of Ophthalmology 2006, Honorary Senior Fellow, University of Melbourne 2013. Appointed as Clinical Professor, University of Melbourne 2017.

Personal Characteristics: Willing to question authority and mainstream thinking in the pursuit of new methods and better patient care. Possesses keen analytical mind for problem-solving. Appreciates innovation born of the practical necessities of clinical practice as opposed to esoteric research typical of academic settings. Aggressively pursues continuing medical education to keep up with new developments.

Personal: Enjoys golf and skiing and travel with his wife Sylvia and three daughters. Fiona, Vanessa and Martine and her three sons.

Prof Noel Alpins Curriculum Vitae

M.B., B.S	University of Melbourne	1970
D.O.	Diploma of Ophthalmology University of Melbourne	1977
F.R.A.N.Z C.O.	Fellow Royal Australian and New Zealand College of Ophthalmologists	1978
F.R.A.C.S.	Fellow Royal Australian College of Surgeons	1978
F.A.C.S.	Fellow American College of Surgeons	1985
F.R.C.Ophth	Fellow Royal College Ophthalmologists (UK)	1989
AM	Member of General Division of Order of Australia	2017

AM Honour

Memberships and Fellowships:

	Foundation member of the Excimer Laser & Research Group, University of Melbourne	1991
	Foundation member of the Protocol & Ethics Committee Of the Excimer Laser & Research Group, University of Melbourne	1991
IIC	Member of the International Intra-ocular Implant Club	1998
GMC	Appointed Member of the General Medical Council, UK	1998
ABES	Member of the American Board of Eye Surgery	2005
CERA	Associate Fellow- Melbourne University Department of Ophthalmology	2006
CERA	Honorary Senior Fellow - Melbourne University Department of Ophthalmology	2013
CERA	Honorary Appointment as Clinical Professor Melbourne University Department of Ophthalmology	2017
AAO	Fellow American Academy of Ophthalmology	
ASCRS	Member American Society of Cataract and Refractive Surgeons	
ESCRS	Member European Society of Cataract and Refractive Surgeons	
ISRS	International Council Member of International Society Refractive Surgery	
AMA	Member Australian Medical Association	

Editorial Board Member:

EyeCare Technology Magazine, USA Appointed 1994

Ocular Surgery News, USA – Domestic Edition: Refractive Surgery section	Appointed 1998-18
Ocular Surgery News – International Edition	Appointed 1998-
Journal of Cataract & Refractive Surgery	Appointed 1999
EyeWorld	1999 – 2005
Eurotimes	Appointed 2007
Intraocular Implant & Refractive Society, India	Appointed 2007
Highlights of Ophthalmology	Appointed 2007
Refractive Surgery in China	Appointed 2008
ISRN Surgery	Appointed 2011
Scientifica	Appointed 2012
Journal of Ophthalmology and Visual Sciences	Appointed 2015
The Journal of Computer Science and Software Development	Appointed 2015
Journal of Refractive Surgery	Appointed 2016
 Consultation Panel:	
Ocular Surgery News, USA and Domestic editions	Appointed 1995
Retained Consultant to Alcon Laboratories, Texas	Appointed 1996
 Royal College of Ophthalmologists (RCO) and Ulster University: Contributor to the Pg Dip Cataract and Refractive Surgery online course by providing lecture material on addressing aspects of analysis of surgical astigmatism	
CRST – Section Editor Astigmatism	Appointed 2018
 Editorial Citations:	
Journal Cataract & Refractive Surgery (see published articles and papers)	December 1997; March 1998;

December 1998;
 Jan 2001;
 December 2006;
 August 2008;
 September 2008;
 June 2012;
 October 2014; JRS
 April 2017 JRS&JCRS
 July & August 2019 JRS

Keynote Speaker:

Date:	Conference:	Title:
February 2001	Third Biennial IIC Meeting, Cape Town, South Africa	'Advances in Laser Technology'
September 2001	ESCRS, Symposium of Astigmatism, Amsterdam 2001	'How to improve Management of visual performance by LASIK and PRK'
July 2003	Fortieth Anniversary Meeting, Melbourne University Ophthalmology Department	'Cataract Surgery- what we know and what we need to know'
November 2005	MaSIS – Malaysian Small Incision Surgery Society	Guest Speaker – six 40 minute presentations
February 2006	ESCRS, Winter Refractive Surgery, Monaco, Monte- Carlo Topography or Wavefront Based Ablation	'Combined Wave- font and topography data for excimer laser surgery
September 2006	ESCRS, London XXIV Congress of the ESCRS Assessing Outcomes in Refractive Surgery	'Which outcomes to measure'
October 2006	Eye Advance, The VIth International Congress on Advances in Ophthalmology <i>Invited Presentation, Gold Medal Recipient</i>	'New horizons in the diagnosis and treatment of Astigmatism in Refractive Laser surgery
April 2008	NYU Hospital teaching program,	'Understanding

	Bellevue Hospital	astigmatism analysis and treatment in cataract and refractive surgery
March 2009	Moran Eye Centre, University of Utah, Lake City- <i>Great Rounds- Visiting Professor</i>	'New horizons in the treatment and analysis of astigmatism
September 2010	ESCRS, Paris	Astigmatism Symposium
November 2010	RANZCO, Adelaide 42 nd Annual Scientific Congress	Council Lecture
October 2013	ESCRS Amsterdam, Netherlands <i>Invited Speaker, JCRS Symposium</i>	Is Excimer laser treatment of suspected Keratoconic eyes justified
September 2016	EuCornea Copenhagen, Denmark <i>Invited Speaker, Cornea Day</i>	Surgically Induced Astigmatism and Flattening Effect for cataract surgery
November 2017	RANZCO, Perth 49 th Annual Scientific Congress	Invited Gregg Lecturer
October 2019 and Lecture	ISRS/AAO San Francisco AAO	Jose Barraquer Award

Nominations and Awards:

Awarded	Borland International (Australia & NZ) Paradox programming award 1993	1993
Nominated	Inaugural Trokel Award for excellence in laser Refractive surgery (see page 49 50 for attached citation)	1994-1995
Awarded	Best presentation of Session at ISRS "Refractive Cataract Surgery Planning"	Nov 1995
Awarded	Best Paper of session ASCRS, San Diego	April 2001

	“Achieving LASIK Super Vision by Minimizing and Regularizing Topographic and Wavefront Refraction Astigmatism”	
Awarded	Eye Advance Gold medal for distinguished Contribution to Ophthalmology	1996
Awarded	Elsevier Certificate of Reviewing American Journal of Ophthalmology	April 2004
Awarded	Elsevier Certificate of Reviewing Ophthalmology	Sept 2011
Awarded	Gold medal at Eye Advance Mumbai For outstanding contribution to Ophthalmology	Aug 2012
Awarded	ISRS Lans distinguished award	Nov 2012
Awarded	AAO Achievement award	Nov 2013
Awarded	ISRS Lifetime achievement award	Nov 2013
Awarded	Elselvier certificate of outstanding Contribution in reviewing	May 2015
Awarded	Elselvier Certificate of Reviewing Canadian Journal of Ophthalmology	March 2016
Awarded	Elselvier Certificate of Reviewing Journal of Optometry	June 2016
Awarded	Gold medal of recognition at IIRSI Chennai, India	July 2016
Awarded	Member of General Division of Order of Australia AM Honour	January 2017
Awarded	Elsevier Certificate of Outstanding Contribution in Reviewing Journal of Cataract & Refractive Surgery	May 2017
Awarded	ISRS Recognition Award	October 2017
Awarded	RANZCO, Perth 49 th Annual Scientific Congress Invited Norman McAlister Gregg Lecture	November 2017
Awarded	Recognised as a Silver Reviewer by the Journal Of Refractive Surgery	2018



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Awarded	<i>José I. Barraquer Lecture and Award</i> by the International Society of Refractive Surgery	Oct 2019
Awarded	American Academy of Ophthalmology's Secretariat Award.	June 2020
Awarded	Journal of Refractive Surgery Gold Reviewer	2020



Awarded

Journal of Refractive Surgery Gold Reviewer

2021



JRS_Gold_Reviewer
Certificate_Noel Alpi

Developer and Inventor of:

Inventor: New method of treating and analysing astigmatism
Holds multiple patents in USA, Australia, New Zealand, South Korea, Europe, Japan, China, and Canada.

ASSORT – Computer software program for surgical management (**Alpins Statistical System for Ophthalmic Refractive-surgery Techniques**) -*Winner Borland International (Australia & NZ) Paradox programming award 1993*

Developer: Multizone Multipass algorithm for excimer laser myopia treatment adopted by Melbourne Excimer Laser Group for patient treatments (see published articles and papers).

[More about Prof. Alpins recent appointments November 2021:](#)



Prof. Alpins has recently become a Founder, Trustee and Governor of the World College of Refractive Surgery and Visual Sciences (WCRSVS). The WCRSVS serves as the guardian of standards, quality and training for refractive surgery ensuring safety and current and future demands. Almost 2 billion people live with visual impairment due to refractive errors (myopia, hyperopia and astigmatism) and cataracts.

Corporate Advisory Position:

Past Chairman of the Como Private Hospital Theatre and Infection Committee	1985-1992
Investigator and Global Advisor for VisX Inc. USA.	1998-1999
Investigator Bausch & Lomb – Laser Aberrometry treatment	2004-2005
Investigator AMO VisX – Laser Aberrometry treatment	2005
Royal Australian & New Zealand College of Ophthalmologist <i>Program Committee Member</i>	2005-2117
Biosyntrix International Scientific Advisory Board	2005
Alcon Board of Advisors	2007
RANZCO Program Committee – Chairing subcommittee for inviting overseas and named lectures	2015-2017

Published peer reviewed papers:

First Author:

Alpins NA. A new method of analyzing vectors for changes in astigmatism. J Cataract Refract Surg 1993; 19:524-533

Alpins NA. New method of targeting vectors to treat astigmatism. J Cataract Refract Surg 1997; 23:65-75

Alpins NA. Vector analysis of astigmatism changes by flattening, steepening and torque. J Cataract Refract Surg 1997; 23:1503-1514

Alpins NA, Taylor HR, Kent DG, Lu Y, Liew M, Couper T, McGough V. Three multizone photorefractive keratectomy algorithms for myopia. Melbourne Excimer Laser Group. J Refract Surg 1997; 13:535-544

Alpins NA. Treatment of irregular astigmatism. J Cataract Refract Surg 1998; 24:634-646

Alpins NA, Tabin GC, Adams L, Aldred GF, Kent DG, Taylor HR. Refractive versus corneal changes after photorefractive keratectomy for astigmatism. J Refract Surg 1998; 14:386-396

Alpins NA. Astigmatism Analysis by the Alpins method. J Cataract Refract Surg 2001; 27:31-49

Alpins NA. Wavefront Technology: A New Advance That Fails to Answer Old Questions on Corneal vs. Refractive Astigmatism Correction. J Refract Surg 2002; 18:737-739

Alpins NA, Goggin M. Practical Astigmatism Analysis for Refractive Outcomes in Cataract and Refractive Surgery. Surv of Ophthal 2004; 49:109-122

Alpins NA, Stamatelatos G. Customized photoastigmatic refractive keratectomy using combined topographic and refractive data for myopia and astigmatism in eyes with forme fruste and mild keratoconus. J Cataract Refract Surg 2007; 33:591-602

Alpins NA, Stamatelatos G, Walsh G. Advances in planning refractive laser and cataract surgery. Intraocular Implant & Refractive Society, India 2007; Vol 3 No 2:31-34

Alpins NA, Stamatelatos G. Clinical outcomes of laser in situ keratomileusis using combined topography and refractive wavefront treatments for myopic astigmatism. J Cataract Refract Surg 2008; 34:1250-1259

Alpins NA, Stamatelatos G. New method of quantifying corneal topographic astigmatism that corresponds with manifest refractive cylinder. J Cataract Refract Surg 2012; 38: 1978- 1988

Alpins NA, Stamatelatos G, Ong J. Refractive surprise after toric intraocular lens implantation: Graph analysis. J Cataract Refract Surg 2014; 40: 283-294

Alpins NA, Ong J, Stamatelatos G. Corneal coupling of astigmatism applied to incisional and ablative surgery. J Refract Surg 2014; 40: 1813-1827

Alpins NA, Ong J, Stamatelatos G. Corneal topographic (CorT) to quantify total corneal astigmatism. J Refract Surg 2015; 182-187

Alpins NA, Ong J, Stamatelatos G. Asymmetric Corneal Flattening Effect After Small Incision Cataract Surgery. J Refract Surg 2016; Vol. 32, No. 9; 598-603

Alpins NA, Ong J, Stamatelatos G. Planning for coupling effects in bitoric mixed astigmatism ablative treatments. J Cataract Refract Surg 2017; Vol. 33, No.8; 545-552

Alpins N, Ong JKY, Stamatelatos G. Role of Hemidivisional Corneal Topographic Astigmatism (CorTs) in the Regularization and Reduction of Irregular Astigmatism. Cornea. 2018 Mar;37(3):386-393.

Alpins N, Ong JKY, Randleman JB, Nevyas-Wallace A, Stamatelatos G. Corneal Topographic Astigmatism Based on Total Corneal Power Data (CorT Total): A Benchmark for Total Corneal Astigmatism. *Cornea*. 2020 Apr;39(4):431-436.

Alpins N, Ong JKY, Stamatelatos G. Assessing Total Keratometry Astigmatism, Simulated Keratometry, and Total Corneal Topographic Astigmatism Against Manifest Refractive Cylinder. *J Refract Surg*. 2021 Mar;37(3):198-201.
doi: 10.3928/1081597X-20210105-01.

Alpins, N., Ong, J. Stamatelatos, G. Assessing Total Keratometry Astigmatism, Simulated Keratometry, and Total Corneal Topographic Astigmatism Against Manifest Refractive Cylinder. *J Refract Surg*. 2021; 37 (3): 198-201.

Alpins, N., Ong, J.K.Y. & Stamatelatos, G. Hemidivisional vector planning to reduce and regularize irregular astigmatism by laser treatment. *Graefes Arch Clin Exp Ophthalmol* Volume 260(9):1-12. pages 3095–3106, (March 2022)
doi.org/10.1007/s00417-022-05604-x

Alpins, N., Ong, J., Randleman, J., Stamatelatos, G. Quantifying Corneal Topographic Astigmatism (CorT Total) in Keratoconic Eyes. *J Refract Surg*. 2023;39 (3):206-213

Joint Author:

Taylor HR, Guest CS, Kelly P, Alpins NA. Comparison of excimer laser treatment of astigmatism and myopia. Excimer Laser and Research Group. *Arch Ophthalmol* 1993; 111:1621-1626

Taylor HR, Kelly P, Alpins NA. Excimer laser correction of myopic astigmatism. *J Cataract Refract Surg* 1994; 20(suppl):243-251

Tabin GC, Alpins NA, Aldred GF, Carson CA, Taylor HR. Astigmatic change one year after treatment of myopia and myopic astigmatism with the excimer laser. Melbourne Excimer Laser Group. *J Cataract Refract Surg* 1996; 22:924-930

Brodovsky S, Couper T, Alpins NA, McCarty CA, Taylor HR for the Melbourne Excimer Laser Group. Excimer laser correction of astigmatism with Multipass/Multizone treatment. *J Cataract Refract Surg* 1998; 24:627-633

Goggin M, Alpins N, Schmid L. Current Opinion in Ophthalmology. "The management of irregular astigmatism". *Current Opinion in Ophthalmology*. Lippincott, Williams & Wilkins USA, April 2000; Vol.11, no.4:260-266

Arbelaez MC, Alpins N, Verma S, Stamatelatos G, Arbelaez JG, Arba-Mosquera S. Clinical outcomes of laser in situ keratomileusis with an aberration-neutral profile centred on the corneal vertex comparing vector planning with manifest refraction planning for the treatment of myopic astigmatism. *J Cataract Refract Surg* Dec 2017

Dec;43(12):1504-1514. doi: 10.1016/j.jcrs.2017.07.039.

Tognetto D, Alpíns N, Perrotta AA, Bauci F, Rinaldi S, Antonuccio M, Pellegrino FA, Fenu G, Stamatelatos G. Quality of images with toric intraocular lenses. *J Cataract Refract Surg* March 2018

Jun I, Kang DSY, Arba-Mosquera S, Reinstein DZ, Alpíns NA, Jean SK, Kim EK, Seo KY, Lee HK, Kim TI. Comparison of clinical outcomes between vector planning and manifest refraction planning in small incision lenticule extraction SMILE for myopic astigmatism. *J Cataract Refract Surg*. 2020 Jan Publish Ahead of Print(8): /jcrs. [10.1097/j.jcrs.000000000000100](https://doi.org/10.1097/j.jcrs.000000000000100)

Ferguson, Tanner J. Piccinini, Andre L.; Thulasi, Praneetha Ong, James K.Y. Stamatelatos, George, Alpíns Noel, AM, Randleman, J. Bradley **Optimized CorT Total to Compare Scheimpflug vs Dual Scheimpflug/Placido Imaging Devices** *J Cataract Refract Surg* August 2020

Books (single Author):

Alpíns NA “Practical Astigmatism- Planning and Analysis” Slack inc, 2017
<https://bit.ly/Alpíns>

Book chapters:

First Author:

Alpíns NA, Tabin GC, Taylor HR, “Photoastigmatic refractive keratectomy” in *Excimer Lasers in Ophthalmology; Principles and Practice*. McGhee CNJ, Taylor HR, Gartry DS, Trokel SL, eds. Martin Dunitz Ltd., Publishers, London (UK) May 1997; 243-259.

Alpíns NA. “Effective Optical Zone and Visual Function” in *Custom LASIK: Surgical Techniques and Complications*. Buratto L, Brint S. Slack Inc, NJ 2003; Sect 2, Ch11.2, 432.

Alpíns NA, Terry C. “Vector Planning for Customized LASIK Treatment Incorporating Corneal and Optical Astigmatism Parameters” in *Custom LASIK: Surgical Techniques and Complications*. Buratto L, Brint S. Slack Inc, NJ 2003; Sect 2, Ch27.1, 680-684.

Alpíns NA, Walsh G. “Aberrometry and Topography in the Vector Analysis of Refractive Laser Surgery” in *Wavefront Analysis, Aberrometers and Corneal Topography*. Boyd BF, Agarwal AA. Highlights of Ophthalmology, Panama 2003; Ch19, 313-322.

Alpíns NA, Stamatelatos G. “Vector Analysis Applications to Photorefractive Surgery” in *International Ophthalmology Clinics – Surgical Correction of Astigmatism, Vol 43*. Sanchez-Thorin JC, Rocha G. Lippincott Williams & Wilkins,

Pennsylvania 2003; 1-27.

Alpins NA, Schmid L. "Combining Vector Planning with Wavefront analysis to Optimize Laser In-Situ Keratomileusis Outcomes" in *Wavefront Customized Visual Correction – The Quest for Super Vision II*. Krueger RR, Applegate RA, MacRae SM. Slack Inc, USA 2004; Ch38, 317-328.

Alpins NA, Terry CM. "Astigmatism: LASIK, LASEK and PRK" in *Master Techniques in Cataract and Refractive Surgery*. Roy FH, Arzabe CW. Slack Inc, NJ 2004; Sect 2, Ch1, 151-160.

Alpins NA, Stamatelatos G. "Combined Wavefront and Topography Approach to Refractive Surgery Treatments" in *Corneal Topography in the Wavefront Era – A Guide for Clinical Application*. Wang M. Slack Inc, NJ 2006; Sect 3, Ch13, 139-143.

Alpins NA, Stamatelatos G. "Corneal Haze" in *Refractive Surgery Nightmares – Conquering Refractive Surgery Catastrophes*. Agarwal A. Slack Inc, NJ 2007; Sect 2, Ch 6, 43-54.

Alpins NA, Walsh G. "Accurate Biometry and Intraocular Lens Power Calculations" in *Refractive Surgery Nightmares – Conquering Refractive Surgery Catastrophes*. Agarwal A. Slack Inc, NJ 2007; Sect 4, Ch 24, 237-244.

Alpins NA, Stamatelatos G. "Optimizing Astigmatic Parameters in Lasik Treatments using Vector Planning" in *Mastering the Techniques of Customized LASIK*. Garg A, Lin JT, Alpins N, Bovet JJ, Pinelli R, Pajic B, Mehta CK. Jaypee Brothers Medical Publishers, New Delhi 2007; Sect 2, Ch13, 141-147

Alpins NA, "The Basics of Astigmatism and how to deal with it" in *Tips & Tricks LASIK surgery*. Kapoor S, Pallikaris IG, Rao SK. Jaypee Brothers Medical Publishers, New Delhi 2007; Ch 10, 141-152

Alpins NA, Stamatelatos G. "New Horizons of Optimizing Astigmatic Parameters in LASIK Treatments using Vector Planning" in *Mastering the Techniques of LASER Applications in Ophthalmology*. Garg A, Lin JT, Alio JL, Azad R, Bovet JJ, Pajic B, Mehta CK. Jaypee Brothers Medical Publishers, New Delhi 2008; Ch 54, 397-402

Alpins NA, Stamatelatos G. "Treating Stable Corneas: Combined Consideration of Wavefront and Topography-Guided Treatment" in *Irregular Astigmatism Diagnosis and Treatment*. Wang M. Slack Inc, NJ 2008; Ch 19, 177-183

Alpins NA, Stamatelatos G. "Asymmetrical Surgical Treatment Using Vector Planning" in *Irregular Astigmatism Diagnosis and Treatment*. Wang M. Slack Inc, NJ 2008; Ch 29, 263-268

Alpins NA, Walsh G. "Cylinder" in *Management of Complications in Refractive Surgery*. Alio J, Azar D. Springer-Verlag, Berlin Heidelberg 2008; Ch 6, 106-112

Alpins NA, Stamatelatos G. "Measuring Astigmatism" in *Mastering Refractive IOLs*

– *the Art and Science* Chang D. Slack Inc, NJ 2008; Sect 10, Ch 159, 581-585

Alpins NA, "LRI's with 2.2mm Incision and Surgery fore Dense Cataract using Vision Blue" in *Jaypee's Video Atlas of Ophthalmic Surgery*. Garg A. Fine IH, Pallikaris IG et al. Jaypee Brothers Medical Publishers, New Delhi 2008; Sect 1, Video XXXVI

Alpins NA, "Lasik with Amadeus Microkeratome for High Myopia and Astigmatism (Astigmatic Lasik)" in *Jaypee's Video Atlas of Ophthalmic Surgery*. Garg A. Fine IH, Pallikaris IG et al. Jaypee Brothers Medical Publishers, New Delhi 2008; Sect 2, Video XV

Alpins NA, "PRK with Mitomycin C for High Myopia" in *Jaypee's Video Atlas of Ophthalmic Surgery*. Garg A. Fine IH, Pallikaris IG et al. Jaypee Brothers Medical Publishers, New Delhi 2008; Sect 2, Video XVI

Alpins NA, Walsh G. "Aberrometry and Topography in the Vector Analysis of Refractive Laser Surgery" in *Refractive Surgery – 2nd Edition*. Agarwal A, Agarwal A, Jacob S. Jaypee Brothers Medical Publisher, New Delhi 2009; Sect 1, Ch 8, 79-87

Gulani AC, Nordan Lee, Alpins NA, Stamatelatos G. "Excimer Laser Photorefractive Keratectomy for Keratoconus" in *Keratoconus & Keratoectasia. Prevention, Diagnosis, and Treatment*. Wang M. Slack Inc, NJ 2010; Ch 14, 145-151

Alpins NA, Walsh G. "Aberrometry and Topography in the Vector Analysis of Refractive Laser Surgery" in *Dr Agarwal's Textbook on Corneal Topography Including Pentacam and Anterior Segment OCT – 2nd Edition*. Agarwal A, Agarwal A, Jacob S. Jaypee Brothers Medical Publisher, New Delhi 2010; Sect 4, Ch 12, 175- 184

Alpins NA, Stamatelatos G. "Treatment and Analysis of Astigmatism During the Laser Era" in *Modern Ophthalmology: The Highlights – Volume II*. Boyd B. Jaypee – Highlights Medical Publishers, Panama 2010; Ch 24, Part X, 381-410

Alpins NA, Stamatelatos G. Planning Keratorefractive Treatments Using Wavefront and Corneal Topography Data in Wang M, ed. *Corneal Topography: A Guide for Clinical Application in the Wavefront Era*. Thorofare, NJ: SLACK Incorporated 2012: 253-258

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How would you advise a patient who had RK two years ago and now complains of binocular imbalance, fluctuating vision and night-time glare? J Cataract Refract Surg, April 1996; 22:285-286

What would you advise for re-treatment of an RK problem? J Cataract Refract Surg, Dec 1997; 23:1442-44

Centration of corneal procedures and identification of the steep astigmatic meridian. J Cataract Refract Surg, July 1998; 24:876-881

Induced Astigmatism following LASIK for Myopia with a Free Cap. J Refract Surg 2000; 16:375-378

A LASIK treatment of complication of incomplete flap. J Cataract Refract Surg 2000; 26:1109-1110

Refractive Surgical Problem, J Cataract Refract Surg 2002; 28:395-396

Refractive Surgical Problem – 27 year old male with risk of diplopia, J Cataract Refract Surg Nov 2004 Issue; 30:11:2245-2454

Refractive Surgical Problem – A 62 year old man had bilateral refractive lens exchange for 20/25 with +8.00 -2.75 x 5 in the right eye and 20/20 with +7.50 -3.25 x 175 in the left eye 1.5 year ago. The outcome is -0.50 -1.50 x 125 in the dominant left eye, and the patient is unsatisfied, J Cataract Refract Surg, Sep 2005 Issue, 31:9:1690

Refractive Surgical Problem – A 44-year-old man has overcorrection after PRK for hyperopia. After CLAPIKS in both eyes and epithelial removal with alcohol in the left eye, visual acuity cannot be improved, especially in the left eye, J Cataract Refract Surg, Nov 2005 Issue, 31:11:2048-2049

Refractive Surgical Problem – 32 year old male who had bilateral LASIK and developed a progressive and relatively quick loss of subjective UCVA, mainly in the left eye, J Cataract Refract Surg, March 2006 Issue, 32:3:382-383

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Practical Approaches to the Many Headed Beast of Astigmatism. Cataract Refract. Surg. Today, June 2018

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From the Editor: Reporting astigmatism data. J Cataract Refract Surg 1998; 24:1545

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Journal of Cataract and Refractive Surgery 47 (1): 138

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OSN (Domestic USA):

01 Oct 1992	Page 62	(ASSORT) Program can measure surgical
15 Dec 1992	Page 80	Small incision triple procedure for cataract and Glaucoma
01 Jan 1993	Page 41	Single-stitch surgery can increase ATR astigmatism
01 Aug 1993	Page 33	TIA – Know what you are aiming for in astigmatism surgery
15 Aug 1993	Page 43	A new method of Astigmatism analysis
1 Nov 1993	Page 1	PRK Cuts deep into RK Down Under
	Page 126	ISRK Panel: Managing high myopia
15 Jan 1994	Page 44	Target Emmetropia feature: What tupe of cataract surgeon are you?
15 Sep 1994	Page 15	Alpins ASSORT Affords High-tech outcomes Analysis
1 Nov 1994	Page 164	Surgical maneuvers- an excimer laser PRK Technique
1 Dec 1994	Page 43	Adjusting Astigmatism Magnitude to Improve Excimer laser results
1 March 1995	Page 35	Astigmatism Round Table- Managing Astigmatism during cataract surgery
1 July 1995	Page 38	Cataract outcome program proliferate along with managed care
1 Aug 1995	Page 48	Target Emmetropia: incorporating refractive principles for better cataract Surgery results

15 April 1996	Page 42	Software links excimer laser to topography
15 Aug 1996	Page 60	New Multizone- Multipass Technique for PRK
15 Oct 1997		Software computes accurate astigmatic correction nomograms for LASIK, PRK
15 March 1998	Page 17	Corneal topography data enhance astigmatic outcomes
15 May 1999	Page 14	Vector analysis of astigmatism correction: The Alps Method (<i>1st in series of 5 Articles</i>)
1 June 1999	Page 19	Flattening, Steepening, Torque are crucial Points in astigmatism surgery (<i>2nd in series Of 5 articles</i>)
15 June 1999	Page 44	Corneal versus refractive astigmatism: Integrated analysis (<i>3rd in series of 5 Articles</i>)
1 July 1999	Page 6	The treatment of Irregular astigmatism (<i>4th in series of 5 articles</i>)
15 July 1999	Page 8	Topographic disparity: a useful new measure of irregular astigmatism (<i>5th in series of 5 articles</i>)
1 Aug 2000	Page 1	Is the future of refractive surgery based on Corneal topography or wave-front?
1 Sep 2000	Page 41	Wave-front is showing signs of success, but can it do it alone
15 Oct 2000	Page 48	Supplement Issue 2000 World Almanac: Australian health system copes amid Diverse landscape
15 Jan 2002	Page 1 & Page 63	Presbyopia strategies proliferating Presbyopia technologies include IOL and Scleral approaches
Jan 2002		Refractive surgery: correcting Astigmatism
15 Feb 2002	Page 21	Editorial comment: Consider the vertex distance in refractive surgical procedures
June 2002		Limitations of wave-front are becoming apparent, some say
1 Aug 2002	Page 1	Editorial comment: wave-front gains supporters, skeptics
	Page 31	Some foresee limitations in wave-front technology
1 Oct 2002	Page 38	Software aims to reduce astigmatism after LASIK
1 June 2003	Page 1+5	Barriers to super-vision still remain
1 June 2003	Page 1+ 26	IOL's - tools for micro incision surgery wanted
1 Sep 2003	Page 14	As SARS threat dwindles, lessons linger for medical community
15 Oct 2003	Page 25	Mixing vector, wave-front values improves outcomes
1 Nov 2004	Page 14+15	ESCRS Paris highlights: topography-based PRK in keratoconus
1 Dec 2004	Page 24-26	Resultant astigmatism can be minimized with Inclusion of topography data, surgeon says – 'Vector planning can help surgeons find the Optimal balance between corneal and refractive

		Measurements”
Feb 2005		Innovation spotlight- ‘angles or using combined
		Vector analysis to treat refractive patients
15 April 2006	Page 40+42	Personalized nomograms ‘essential’ surgeons say- A personalized nomogram allows greater accuracy In refractive surgery, incorporating many variables That can affect outcomes
1 May 2007	Page 46	Wave-front mixed with topography offers ‘ideal Laser treatment’
1 June 2007	Page 11	ASCRS Highlights- refractive keratectomy with Vector planning for keratoconus maintains Outcomes at 10 years
15 June 2007	Page 1	Laser Calculation benefits keratoconus patients
15 June 2007	Page 31	PARK with vector planning for keratoconus maintains 10 year outcomes.
10 Oct 2015	Page 36	CorT an accurate, consistent measure of corneal Astigmatism
25 Oct 2018		Video: Vector planning optimizes astigmatism management in refractive surgery.
10 Nov 2018		Vector Planning: An Overdue Paradigm Shift
25 May 2019		LASIK Surprises and how to avoid them

Ocular Surgery News:

International Edition:

July 1992	Page 34	Improving surgery by analysis (ASSORT)
Sep 1992	Page 36	Single-stitch surgery can increase ATR astigmatism
Sep 1992	Page 42	Triple procedure for cataract and glaucoma
Oct 1993	Page 40	A new method of astigmatism analysis
Nov 1993	Page 1	Patient demand for excimer surpasses RK
Dec 1993	Page 22	TIA- A method for planning and assessing surgery
Oct 1994	Page 25	Paris 94 supplement: Excimer laser surgery Planning Practical Astigmatism analysis for the PRK and AK Surgeon
Sep 1995	Page 40	Surgical maneuvers- incorporating refractive Principles to achieve better cataract surgery results
Dec 1997	Page 10	Software computes accurate astigmatic correction Nomograms for LASIK, PRK
July 1998	Page 17	Corneal topography data enhance astigmatic Outcomes
Aug 1999	Page 13	Vector analysis of astigmatism correction: The Alpins Method
Sep 1999	Page 22	Flattening, steepening and Torque are crucial Points in astigmatism surgery.
	Page 16	Como utilizar el Analisis vectorial para la correccion del Astigmatismo (<i>Spanish edition</i>)

Oct 1999	Page 30	Corneal versus refractive astigmatism: integrated Analysis
May 2000	Page 27	Treating naturally occurring irregular astigmatism
June 2000	Page 22	Topographic disparity is a useful new measure of Irregular astigmatism
Sep 2000	Page 41	Wavefront showing signs of success, but can it do Alone?
Jan 2002		Presbyopia strategies proliferating
Feb 2002	Page 1 & 24	Editorial comment: Consider the vertex distance in Refractive surgical procedures. Presbyopia Technologies include IOL and scleral approaches
June 2002		Limitations of wavefront becoming apparent, Some say
Aug 2002		How wavefront works-a primer
Dec 2002	Page 10	Software aims to reduce astigmatism after LASIK
June 2003	Page 1 & 17	Barriers to super-vision still remain
July 2003	Page 1 & 16	Surgeons await IOLs, tools for micro incision Surgery
Sep 2003	Page 8	As SARS threat dwindles, lessons linger for medical Community
Oct 2003		AUSCRS meeting on presentation
Nov 2004	Page 8 & 10	ESCRS Highlights: topography based PRK in Keratoconus
June 2007	Page 6	ASCRS highlights- refractive keratectomy with Vector planning for keratoconus maintains Outcomes at 10 years
Sep 2007	Page 20 & 21	PARK with vector planning for keratoconus results Stable at 10 year follow up
April 2009	Page 1 & 8	Study finds that combined refractive treatment Reduces astigmatism more than wavefront alone
June 2009	Page 17	Ocular residual astigmatism measurement could Salvage 5% of dissatisfied LASIK patients
Jan 2010	Page 1,4 & 5	Australian ophthalmologists oppose cuts in Medicare rebate for cataract surgery
July 2011	Page 16	Perspective- Preoperative OCT a significant step
Feb 2012	Page 18	Perspective- Study: Corneal sensation reduced in LRI's

Ocular Surgery News:

At issue:

June 2000		At issue: Preferred regimen for curing haze for PRK
Aug 2000	Page 30	At issue: is there a place in the future of refractive Surgery for both PRK and LASIK?
Aug 2000	Page 44	At issue: reasons for use of one microkeratome Over any other
Sep 2000	Page 64	At issue: computer related vision problems
Nov 2000		At issue: Preventing infections
Mar 2001		At issue: The effect of discount LASIK

July 2001	Page 52	At issue: Are the doctors seeing a rise in antibiotic Resistance?
Sep 2001	Page 43	At issue: Have custom corneal ablations improved LASIK results?
Nov 2001	Page 80	At issue: Under what circumstances, if any, should Person under age 18 have LASIK
Feb 2002	Page 12	At issue: What do you prefer for LASIK Enhancements, lifting the flap or recutting and Why?
Oct 2002	Page 50	At issue: With the current economic climate in Your country, is it feasible to expand your Practice? If yes, how? If no, why not?
Dec 2002	Page 14	At Issue: What will be the dominant refractive Procedure in 2010
June 2003		At issue: What role do you think wavefront Technology will play in surface ablation Procedures such as PRK and LASEK? (<i>International edition</i>)
Mar 2004	Page 24	At issue: How important is fluidics today for Performing modern phacoemulsification, Including microincision cataract surgery?
April 2004		At issue: For what refractive errors would you Consider refractive lens surgery over excimer Laser procedures such as LASIK, LASEK or PRK
Aug 2004	Page 16	At issue: How important is fluidics today for Performing modern phacoemulsification, including Microincision cataract surgery (<i>international edition</i>)
Feb 2005	Page 19-21	At issue: What is your preferred prophylactic Regimen for cataract surgery? (<i>international edition</i>)
June 2005	Page 25	At issue: For what refractive errors would you consider lens- based surgery over laser- based
Aug 2005		Procedures? At issue: what is maximum age you recommend a Patient to receive PRK?
Dec 2005	Page 7	At issue: What do you think was the biggest news In refractive surgery in 2005 and why?
April 2006	Page 65	At issue: For patients with myopia greater than 7D who desire refractive surgery, what treatment Do you prefer and why? At issue: How long after initial LASIK surgery do You lift the flap and why?
Sep 2006	Page 16	At issue: For patients with myopia greater than 7D Who desire refractive surgery, what treatment do You prefer and why? (<i>International edition</i>)
Sept 2006		At issue: How beneficial is intraoperative

Oct 2006	Page 60	Pachymetry and why? At issue: What is your highest limit for hyperopic Correction in laser refractive surgery and why?
April 2007	Page 20	At issue: Do you recommend the use of omega Fatty acids to treat dry eye? Why or why not?

Ophthalmology Times

Nov 1993	Page 124	Program analyzes refines refractive surgery Technique
March 1994	Page 60	Vector analysis can improve predictability of Astigmatism
Aug 1997		Astigmatic treatment uses refractive, Topographic Data
Nov 1997	Page 14	Refraction optimized by adjusting laser
March 1999	Page 14	PRK more accurate when astigmatism isn't also a Factor
Oct 1999	Page 13	Combining data can yield best astigmatism results
March 2004	Page 42	Integration of vector planning enhances customized ablation outcomes
April 2014	Page 2	Toric IOL refractive Surprises

Biomedical Technology

May 1998		Ophthalmology develops surgery outcomes Software
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Borland Connection

Winter 1993	Page 9-11	Top paradox programmer wins trip to US Conference
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Cataract and Refractive Surgery Today

2006	78-80	Refractive Procedures for the Keratoconic Patient: An examination of LASIK and PRK, with an emphasis on PARK.
Feb 2014	Page 44-49	What's the big idea
May 2014	Page 42-44	Toric IOLs and Refractive Surprises
Feb 2015	Page 1-5	Outcome analysis in a clinical setting
May 2015	Page 1-6	Innovative Toric IOL Calculators and how to use them.

Cataract and Refractive Surgery Today (Europe):

Sep 2010		iAssort Provides Astigmatic Analyses using Topography
June 2018		Practical approaches to the many-head beast of Astigmatism.
Oct 2019		Make LASIK safer by considering corneal Astigmatism

Eurotimes

Nov 1998	Page 29	An Australian approach to modulating corneal healing in PRK
April 2007	Page 22	Topography and wavefront linkage improves Visual outcomes
April 2007	Page 26	XXIV Congress of the ESCRS, London 2006, Assessing outcomes in refractive surgery
June 2008	Page 50	Practice Management- Doctor, how good are your Results with patients like me?
Sep 2008	Page 14	Maximising astigmatism correction in cataract Surgery
Sep 2010		Refractive and corneal parameters should be used
Oct 2010	Page 8	Utilizing topographers, software tracks Astigmatism changes to improve nomograms
June 2013		Corneal astigmatism- new method gives more Accurate measurement of astigmatism of the Whole cornea
Nov 2015		Astigmatism Measure- novel parameter Quantifying total corneal astigmatism offers best Match with refractive cylinder
7 Dec 2018		Astigmatism: The Final Frontier – Evolving Solutions to Reduce Astigmatism in Cataract Surgery

Eyecare technology

June 1994	Page 48	ASSORT- The Statistical Team for your Surgical Practice
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Eyeworld

Sep 1997	Page 42	LASIK- Refractive Surgery thought leaders
Dec 1998	Page 17	Symmetry in motion- A look at the Alpains' method For treating irregular astigmatism
Aug 1999	Page 37	Lasers address corneal irregularities
Sep 1999	Page 37	EW Dialogue: Placido v non placido disk video Keratography
March 2000	Page 38	EW Dialogue: Challenging cylinders: Optimizing Astigmatism assessment and treatment
	Page 42	EW Cover Story: The astigmatic armamentarium
	Page 46	EW Cover Story: Optimizing approaches to Astigmatism assesement
May 2000	Page 64	The future of wavefront refraction as a diagnostic Tool
May 2000	Page 70	Perceptions on wavefront technology from refractive leaders
Aug 2001	Page 48	Improving outcomes with personalized LASIK Nomograms
Jan 2002		Refractive corneal irregularity and dry eye?
Feb 2005	Page 56 & 57	Innovation spotlight- angles on using customized vector analysis to treat refractive patients (Maxine Lipner
Oct 2007	Page 40 &	The View from Ausstralia

July 2008 March 2014	Page 11	In the journal- LASIK for myopic astigmatism EW Cover Story: Femtosecond Phaco techniques Operating on the Lasers Edge
Franja Ocular		
Sep 1999	Page 35	Correccion quirurguca del astigmatismo: el Metodo de Alpins
Highlights of Ophthalmology		
Issue No 2:	Page 14	Personal Experience in the management of Irregular astigmatism
Issue No 2:	Page 11	Corneal Topographic Astigmatism Measurement
Highlights of Ophthalmology- Spanish Edition		
Numero 2 2007	Page 14	Experiencia personal en el manejo del Astigmatismo irregular
Numero 2 2014	Page 11	determinacion del astigmatismo topographico corneal
Insight		
Aug 1998	Page 23	Ophthalmologist develops new method of Analyzing astigmatism
Nov 2007	Page 6	US FDA adopts Aust-developed laser technique as Improving treatment of astigmatism
Sep 2008	Page 37	Melbourne surgeons technique recognized as improving treatment of astigmatism
July 2009	Page 16	Integrated eye care: how it works in a Metropolitan setting in Victoria
Journal of refractive surgery		
Nov 1998	Page 672	ASSORT: Laser capabilities expanded for Astigmatism treatment analysis.
January 2022	Page 50	Perfecting Laser Treatment for Regular and Irregular Astigmatism
Medical Electronics		
Sep 1998		The Alpins method: a breakthrough in Astigmatism analysis
Medical Laser report		
July 1998		Software program refines astigmatic outcomes

Mivision

Dec 2008	Page 5	Aussie World first: New astigmatism treatment Technique
Feb 2009	Page 16-19	The new frontier for clear vision

Touch Ophthalmology*European Ophthalmic Review*

Nov 2017	Page 25-27	How to get accuracy in intraocular lens calculation in normal and extreme cases.
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Editorial

July 2022	In print	The perfect laser treatment for regular and irregular astigmatism
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Quotations:

Sep 1999	Page 32	Eyeworld: Excimer treatment options for Hyperopic astigmatism
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Conferences, podium presentations and participation

July 1989	Foundation member of 500 Club (Iolab Aust.)
Aug 1990	Royal Victorian Eye and Ear Hospital Faculty Member Phacoemulsification course
March 1991	Advanced anterior segment symposium, Aspen, Colorado Faculty member
Nov 1991	Melbourne Excimer Laser & Research Group <i>Panelist:</i> Initial VisX Excimer laser course
Dec 1991	Rock Castle Private Hospital, Sydney Faculty member: Phacoemulsification course (Alcon)
May 1992	Como Private Hospital, Melbourne <i>Course Director & Surgeon</i> "A day of Xcimer Isification surgery" course (Alcon)
July 1992	Melbourne Ophthalmic Alumni meeting <i>Presenting author:</i> "Has laser beam 193 RK?"
Nov 1992	RANZCO, annual scientific meeting

- Speaker:*
 “Combined Cataract, IOL and trabeculectomy”
 “Single stitch small incision cataract surgery”
 “Transverse astigmatic keratotomy and small incision Cataract and implant surgery” &
 “Vector analysis formulae for astigmatism”
- Feb 1993 Royal Victorian Eye and Ear Hospital
Instructor:
 Basic Microsurgical course for new registrars
- May 1993 ASCRS Meeting, Seattle, USA
Speaker
 “A new method of analysing vectors for changes in astigmatism”
 “Keratometry versus refraction: How to resolve the conflict in astigmatism surgery”
- Faculty member:*
 Keratorefractive Debates
 Surgical management of astigmatism
- June 1993 Melbourne Ophthalmic Alumni Meeting
Presenting author:
 ‘Surgical treatment of astigmatism: RK v Excimer”
- June 1993 Canadian Rockies Symposium, Banff, Canada
Faculty Member
- July 1993 ISRK meeting, Minneapolis, USA
Speaker:
 “Practical astigmatism analysis”
 “Planning Excimer laser surgery”
- Aug 1993 Australian Registrars Cataract Surgery Symposium (Alcon)
Faculty member
- Nov 1993 ISRK pre-A.A.O. Meeting, Chicago
Speaker:
 Astigmatism correction with the Excimer laser
 Surgically Induced Astigmatism with the Excimer laser
- AAO, New York
Invited Speaker:
 “Keratorefractive Debates: RK v PRK”

Instructor:
"Astigmatism Wet Lab"
"Advanced Phacoemulsification Technique Course"

- April 1994 ASCRS Meeting, Boston, USA
Speaker:
"Adjustment of Astigmatism Magnitude Excimer Laser Surgery"
"Planning Refractive Cataract Surgery"
"Keratorefractive Debates"
"VisX Protocol Course"
- May 1994 Joint Meeting French Implant Society and Ocular Surgery News Int, Edn. Paris, France
Faculty member and invited speaker:
"Excimer Laser Surgery Planning"
"Practical Astigmatism Analysis for the AK & PRK Surgeon"
- June 1994 International Congress Ophthalmology, Toronto, Canada
Invited faculty member
Discussion: for Dr Lindstrom's paper on:
Astigmatism in Cataract Surgery

Speaker:
"Excimer Laser Surgery"
- Canadian Rockies Symposium, Banff, Canada
Invited faculty member

Moderator:
PRK Session

Speaker:
"Results of Excimer Laser Surgery"
"Planning of Refractive Cataract Surgery"
- July 1994 Melbourne Ophthalmic Alumni Club Meeting
Presenting Author with Prof Hugh Taylor
"Astigmatism Correction with the Excimer Laser"
- Nov 1994 A.A.O. & ASCRS Joint Symposium, San Francisco, USA
Invited Speaker:
"Surgical Correction of Astigmatism"

Invited faculty member:
Refractive Keratoplasty Debates
The Excimer Laser 1995 – Evolution or a

Revolution for Ophthalmology?

Invited Instructor:

Advanced Phacoemulsification Course

- April 1995 ASCRS & AAO Joint Symposium, San Diego, USA
Presenter:
“Astigmatism Correction with the Excimer Laser”
“Vector Analysis Formulas for Cataract Surgery”

Moderator of Scientific Session:
Incisional Techniques – Cataract Surgery
- June 1995 Melbourne Ophthalmic Alumni Meeting
Presenter:
“Planning and Analysis of Refractive Cataract Surgery”
- Aug 1995 Current Concepts in Ophthalmology, Hayman Island, Queensland
Invited faculty speaker:
“Astigmatism surgery and analysis”
- Nov 1995 ISRS pre-AAO Meeting, Atlanta, USA
Presenter:
“Refractive Cataract Surgery Planning”

AAO Meeting, Atlanta, USA
Invited Speaker:
“Keratorefractive Debates: PRK – The International Experience”

Invited Speaker:
“The Lasers of Refractive Surgery – Evolution, Science and Economics”

Presenter/Wet Lab Instructor:
Surgical Correction of Astigmatism
- June 1996 ASCRS Meeting, Seattle, USA
Presenter:
“Refraction versus Optimisation for Treatment of Astigmatism by Excimer Laser”
“New Method of Targeting Vectors for the Optimal Treatment of Astigmatism”

- July 1996 Melbourne Ophthalmic Alumni Meeting
Presenter:
 “Multizone Photorefractive Keratectomy”
- Oct 1996 ISRS pre-AAO Meeting, Chicago USA
Presenter:
 “Optimization versus Refraction combined with New Method of Targeting Vectors for the Optimal Treatment of Astigmatism”
 “Vector Analysis Formulae for Cataract Surgery”
 “PRK Multipass-Multizone for Treatment of Astigmatism”
- AAO Meeting, Chicago USA
Presenter:
 “Complications of Laser Refractive Surgery management and prevention”
 Refractive Keratoplasty Debates
 Skills Transfer Program and Wet Lab
 Mastel Symposium
Presenter:
 “Incision Placement for Refractive Cataract Surgery”
 “Optimizing Excimer Laser Surgery for all Lasers”
- Nov 1996 ICIMRK Meeting, Perth, Australia
Session Moderator & Presenter:
 “Multizone Photorefractive Keratectomy”
 “Optimisation versus Refraction”
 “Vector Analysis Formulae for Cataract Surgery”
- April 1997 ASCRS Meeting, Boston USA
Session Moderator & Presenter:
 “Optimization versus Refraction to Treat Astigmatism by using The Excimer Laser”

Presenter:
 “Treatment with the NIDEK EC5000 using ASSORT software”
- July 1997 Melbourne Ophthalmic Alumni Meeting
Presenter:
 “Treatment with the NIDEK EC5000 using modified Algorithms And multizone technique”
- Aug 1997 Melbourne Meeting of Optometrists
 Royal Victorian Eye & Ear Hospital -Refractive Surgery Correction
Presenter:
 Incisional Refractive Surgery – RK/Astigmatic

Keratotomy

- Nov 1997 Royal Australian College of Ophthalmologists
Annual Scientific Meeting, Sydney
Presenter:
Multizone photorefractive keratectomy
- April 1998 ASCRS Meeting, San Diego, USA
Session Moderator:
Excimer Laser – PARK & LASIK Surgery

Presenter:
“Treatment of Irregular Astigmatism”
“Vector Analysis of Astigmatism by Flattening,
Steepening & Torque”
- Sep 1998 ESCRS Meeting, Nice, France
Presenter:
Multizone Photorefractive Keratectomy

Chairperson of Scientific Session & Presenter:
“Vector Analysis of Astigmatism by Flattening,
Steepening & Torque”

Member & Presenter:
Inaugural Meeting – VisX Global Advisors Forum
- Nov 2008 AAO/ISRS Meeting, New Orleans, USA
Moderator & Presenter: Astigmatism Management
“Balancing Refractive and Corneal Values in LASIK
and PRK Surgery Planning”

Presenter:
“Refractive versus Corneal Changes after PRK for
Astigmatism”
- April 1999 ASCRS Meeting, Seattle, USA
Session Moderator & Presenter:
“Treatment of Mixed Astigmatism by LASIK with
the VisX STAR”

Presenter:
“Improving Best Spectacle Corrected Acuity
without Changing Spectacles”
“Which Numbers are Missing from your
Topographer?”

Course presentation:
“The optimization of astigmatism treatment when
performing LASIK and PRK”

Course Moderator:
“Astigmatism Treatment and Analysis for the
Cataract and Refractive Surgeon”

Sep 1999 ESCRS Meeting, Vienna
Course Moderator:
Astigmatic Analysis for the Cataract & Refractive
Surgeon

Presenter:
“Surgery to regularize the irregular cornea and
improve visual performance by LASIK or PRK
technique”
“Which numbers are missing from your
topographer?”
“Second Annual Meeting of VisX Global Advisors
Forum”

Nov 1999 Royal Australian College of Ophthalmologists
Annual Scientific Meeting, Melbourne
Presenter:
Refractive versus Corneal Changes after PRK for
Astigmatism

Faculty: Cataract Surgery Course
Astigmatism: Control/Modification

Course Faculty: LASIK Complications Regression
and Re-Treatment

May 2000 ASCRS Meeting, Boston, USA
Course Faculty – 2nd International Symposium on
the Surgical Correction of Astigmatism.
“An effective combined topographic and refractive
link to LASIK Surgery”

Course Faculty & Co-Presenter:
“Astigmatism treatment and analysis for the
cataract and Refractive surgeon”

Presenter:
“Vector planning for LASIK surgery: Integrating
topography and wavefront analysis treatment
modalities”

Highlights of the ASCRS 2000 Annual Meeting
Program: Wavefront Analysis/Tomography –

Vector Planning for LASIK Surgery
“Integrating topography and wavefront analysis
treatment modalities”

Boston: Ophthalmology Interactive; 2000 (CD-
ROM)

Nov 2000 RANZCO: Scientific Meeting, Sydney
Chairman & Presenter:
Session: Refractive Surgery II
“Vector Planning for LASIK Surgery: Integrating
topography and wavefront analysis treatment
modalities”

Co-Presenter:
Symposium: The Changing Face of Cataract Surgery
“Minimising Induced Astigmatism following
Cataract Surgery”

Feb 2001 Third Biennial IIC Meeting, Cape Town, South Africa
Keynote Speaker:
“Advances in laser Technology”

Presenter:
“LASIK 1 – Refractive diagnostics and surgical
planning”

Course Participant:
Biometry and advanced IOL calculations

April 2001 ASCRS Meeting, San Diego, USA
Session Co-Moderator:
Myopia/Hyperopia/Astigmatism

Presenter:
“LASIK Astigmatism Analysis by the Alpins
method”
“Achieving LASIK Super Vision by Minimizing and
Regularizing Topographic and Wavefront
Refraction Astigmatism”

Course Presenter:
Vector Planning, Practical Astigmatism Analysis
and LASIK Nomogram Development for the
Cataract and Refractive Surgeon

Course Faculty – 3rd International Symposium on

the Surgical Correction of Astigmatism Incisional, Photoablative and Toric Pseudophakic and Phakic Intraocular Lenses.

Presenter:

“An effective combined topographic and refractive link to LASIK surgery”

Sep 2001

ESCRS Meeting, Amsterdam, Holland

Course Presentation:

LASIK Astigmatism Analysis by the Alps Method
“Achieving LASIK Supervision by minimising and regularizing topographic and wavefront refraction astigmatism”

Invited Symposium:

Management of Astigmatism

How to improve visual performance by LASIK and PRK

Faculty Symposium

Nov 2001

Royal Australian College of Ophthalmologists

Presenter:

Wavefront analysis and vector planning
“How should we be using these modalities?”

April 2002

ICO, Sydney

Aberrometry Wavefront Measurement

Presenter:

Wavefront analysis, vector planning – how we should be using these

Refractive Aspects of Cataract Surgery

Moderator & Presenter:

A comparison of incision induced astigmatism between forceps and injector insertion of foldable implants

ASCRS, Philadelphia

Presenter- Paper:

Efficacy of LASIK Myopic Astigmatism Correction with VISX Star Laser

Course presenter:

Vector Planning, Practical Astigmatism Analysis, and LASIK Nomogram Development for the Cataract and Refractive Surgeon

- Sep 2002 ESCRS Meeting, Nice, France
- Presenter:*
Session IV – Refractive Surgery New Techniques II
“Efficacy of LASIK hyperopic astigmatic correction with VisX STAR Laser”
- Session I – Keratorefractive Surgery or myopia IV
Co-Moderator with Dr Thomas Kohnen
“Wavefront analysis, vector planning – How should they be used together?”
- Course Presenter:*
Vector Planning, practical astigmatism analysis and LASIK nomogram development for the cataract and refractive surgeon
- Nov 2002 AUSCRS Meeting, Canberra
- Session Moderator and Presenter:*
Wavefront analysis, vector planning- How we should be using these modalities.
- AMO Meeting, Noosa
- Presenter:*
“LASIK and Dry Eye New Approaches to Patient Management” “Technical aspect of flap creation with the Amadeus Microkeratome”
- April 2003 ASCRS Meeting, San Francisco, USA
- Presenter – Paper:*
“Wavefront Analysis and Vector Planning: How to Use Them Together”
- Course Presenter:*
“Vector Planning, Practical Astigmatism and LASIK nomogram development for the cataract refractive surgeon”
“Making the most of wavefront and vector planning LASIK. Practical and theoretical aspects of irregular astigmatism management”
- July 2003 AUSCRS, Port Douglas
- Presenter, Paper:*
Treatment of astigmatism in keratoconus using ASSORT Vector Planning
- 40th anniversary meeting, Melbourne University Department of Ophthalmology

Invited Speaker

Cataract Surgery- What we know and what we need to know

- Aug 2003 Alcon Meeting, Punta Mita, Mexico
Invited sponsored registrant
- Feb 2004 AMO Meeting, Noosa
Technical aspects of flap creation with the Amadeus microkeratome
- Sept 2004 ESCRS Congress, Paris France
Course Presenter:
Vector planning, practical astigmatism analysis and LASIK Nomogram Development for cataract and refractive surgeon

Presenter- Paper:
Customized PARK treatment of keratoconus using combined Topographic and refractive data

Session moderator:
"Keratorefractive surgery outcomes- Myopia 1"

*61 Ocular surgery news supersite 29 September
Paper listed as "Top Stories" of ESCRS Meeting"*
- Nov 2004 RANZCO, Melbourne Australia
Presenter- Paper:
PARK treatment of Keratoconus using corneal and refractive Astigmatism measurements
- Mar 2005 ALCON Seminar: Optimizing Cataract Surgery Outcomes (OCSO) Sydney and Brisbane, Australia
Invited Speaker:
Infinity™ Vision system: Advantages and Techniques
- Sept 2005 ESCRS Meeting: Lisbon, Portugal
Course Presenter:
"Making the most of wavefront and vector planning, LASIK, Practical an theoretical aspects or irregular astigmatism management"
"Vector planning, practical astigmatism analysis and LASIK Nomogram development for the cataract and refractive surgeon"
- Nov 2005 ALCON MaSIS Meeting, Malaysia
Invited speaker:

“How to do a good biometry for every patient-
Planning and analysis of astigmatism management
or refractive Cataract”
“IOL Selection for post refractive laser patients-
advantage of refractive IOLs”
“Refining Phaco techniques for refractive cataract
surgery”
“Understanding vector planning analysis practical
astigmatism analysis”

Feb 2006

ESCRS Winter Refractive surgery, Monaco Monte Carlo

Invited Speaker:

“Combining wavefront and topography data for
optimizing laser surgery”

Presenter- Invited case presentation:

Customized PARK treatment of mild keratoconus
using combined topographic and refractive data

World Ophthalmology Congress, Sao Paulo Brazil

Invited speaker:

“When cataract surgery is indicated where good
visual acuity prevails”

“Upgrading wavefront technology by combining
topography parameters”

“Incisions placement and astigmatism
management in cataract surgery”

Chair Person:

Cataract Surgery and IOL Implantation in complex
situations

Mar 2006

ASCRS Meeting, San Francisco USA

Course Presenter:

Managing regular and irregular astigmatism with
conventional and wavefront techniques in cataract
and refractive surgery

Sep 2006

ESCRS Meeting, London UK

Course Presenter:

Managing regular and irregular astigmatism with
conventional and wavefront techniques in cataract
and refractive surgery

Session Moderator:

Keratorefractive surgery outcomes- Myopia

Presenter- paper:

Clinical outcomes study of LASIK using combined wavefront and topography value myopia and astigmatism

Symposium presenter:

Assessing outcomes in refractive surgery. "Which outcomes to measure"

Oct 2006

Eye Advance, Mumbai India

Recipient of the distinguished service in Gold Medal in Ophthalmology

Invited presenter & guest lecture:

Refraining outcomes in refractive surgery
Advantages or refractive IOLs

Nov 2006

RANZCO, Sydney Australia

Chair Person:

Contemporary cataract surgery: six steps of evidence and experience- based decision making

Presenter:

"PARK treatment of mild keratoconus"

Presenter- Speaker Corner:

"Using Alcon infinite for small incision ultrasleeve for coaxial small Incision surgery"

Symposium presenter:

Critical considerations in cotemporary cataract surgery and refractive surgery- The ABC of accurate biometry and current formulae

Mar 2007

ASCRS, San Diego USA

Course Presenter:

Managing regular and irregular astigmatism with conventional and wavefront techniques in cataract surgery in refractive surgery

Presenter- Paper:

Customized PARK treatment of myopia and astigmatism in Form Fruste and mild keratoconus using combined topographic and refractive data.

Panellist:

Keratorefractive: New Devices

- Sep 2007 ESCRS, Stockholm Sweden
- Course Presenter:*
 Managing regular and irregular astigmatism with conventional and wavefront techniques in cataract and refractive surgery
- Presenter- Paper:*
 “Clinical outcomes of LASIK using wavefront alone versus wavefront plus vector planning treatment for myopia and astigmatism”
 “Customized PARK treatment of myopia nas astigmatism in Forme Fruste and keratoconus using combined topographic and refractive data”
- Nov 2007 RANZCO, Perth Australia
- Course Presenter*
 Critical considerations in contemporary cataract surgery – dealing with poor wound construction and floppy iris
- Presenter- Paper*
 Wavefront versus wavefront and vector planning in treatment of myopia and astigmatism
- Symposium presenter:*
 Contemporary issues in refractive surgery- combines wavefront- topography ablations and the optimal ablation profile
- Feb 2008 ESCRS, Barcelona Spain
- Session moderator:*
 Laser refractive surgery
- Presenter-Paper:*
 “What does true integration of topographic and refractive wavefront parameters in LASIK involve”
 “Selection criteria for patients’ eligibility for PARK vector planning tretamtnet of myopia and agtigmatism forme fruste and mild keratoconus
- Invited Symposium Speaker:*
 Focus session- Controversies in how to correct astigmatism in cataract surgery
- Presenter:*
 Calculation of astigmatism at the corneal plane is now more reliable.

April 2008	ASCRS, Chicago USA	<p><i>Course presenter:</i> Managing astigmatism with LRIs in cataract and refractive surgery</p> <p><i>Presenter – Paper:</i> “Selection Criteria for Patient Eligibility for PARK Vector Planning Treatment of Myopia and Astigmatism in Forme Fruste and Mild Keratoconus”</p> <p><i>Session Moderator:</i> Cornea Keratoplasty; New Techniques</p> <p><i>Presenter – Paper:</i> Considerations for Effective Integration of Topographic and Refractive Wavefront Parameters in LASIK</p>
April 2008	Bellvue Hopsital, New York USA	<p><i>Presenter:</i> Combining topography and refractive data for the treatment of keratoconus and wavefront guided patients</p> <p>Understanding astigmatism analysis and treatment in cataract and refractive surgery</p>
June 2008	World Ophthalmology Congress, Hong Kong	<p><i>Invited Speaker:</i> “Astigmatism Management in RCS- LRI’s and their Refinement” “Does Vector Planning render PARK safe in Keratoconus?” “Combining Preoperative Topography and Refractive Data with Vector Planning” “On Axis Incisions and Opposite (single) LRIs for Astigmatism Reduction”</p> <p><i>Session Chair:</i> “Astigmatism management in cataract surgery Wavefront VS optimized aspheric VS topo-refractive combined, which to choose?”</p>
Nov 2008	RANZCO, Melbourne Australia	<p><i>Course Convener:</i> Critical Considerations in Contemporary</p>

Cataract Surgery – Evidence or Experience-
Based Practice

Presenter:

“Dealing with poor wound construction and
induced astigmatism”

“Integration of Topographic and Refractive
Wavefront Parameters”

“Astigmatism Management in Refractive Cataract
Surgery”

March 2009

Salt Lake City, Moran University

Invited Speaker:

New horizons in the treatment and analysis of
astigmatism

April 2009

ASCRS, San Francisco USA

Course Presenter:

Managing Astigmatism with Toric IOL's and LRI's in
Cataract and Refractive Surgery

Presenter - Paper:

Managing Patients with Mismatched Corneal and
Refractive Parameters when Treating Astigmatism

Session Moderator:

Introcular Surgery, Toric IOLs

Sep 2009

ESCRS, Barcelona Spain

Invited Speaker:

Astigmatism Analysis

Course presenter:

Managing Astigmatism with Toric Implants and
LRI's in Cataract and Refractive Surgery

Presenter:

What does a true integration of topographic and
refractive wavefront parameters in excimer laser
surgery involve

Nov 2009

RANZCO, Brisbane Australia

Presenter- Paper:

“Managing Patients with Mismatched Corneal
and Refractive Parameters when Treating
Astigmatism”

“Toric IOL techniques and what to do when too

much cylinder is left over”

“Techniques for calculating IOL power in cases of prior myopic excimer laser”

April 2010

ASCRS, Boston USA

Course presenter:

Managing Astigmatism with Toric Implants and LRI's in Cataract and Refractive Surgery

Presenter- Paper:

Vectorial analysis of astigmatism utilizing Corneal Topography parameters and a newly integrated software module

Sep 2010

ESCRS, Paris

Invited Speaker:

Astigmatism Symposium

Course presenter:

Managing Astigmatism with Toric Implants and LRI's in Cataract and Refractive Surgery

Presenter- Paper:

Vectorial analysis of astigmatism utilizing Corneal Topography parameters and a newly integrated software module

Session Moderator:

Laser Surgery

Nov 2010

RANZCO, Adelaide Australia

Invited Speaker Council Lecture

March 2011

ASCRS, San Diego USA

Course Presentation:

Managing Astigmatism with Toric IOLs and LRIs in Cataract and Refractive Surgery

Paper Presentation:

Assessment of topographic semi-meridian parameters to determine corneal astigmatism & irregularity

Session Moderator: Intraocular Surgery

Astigmatism Management

Sep 2011

ESCRS Vienna, Austria

Course Presentation:
Managing & Analysing corneal astigmatism,
LRIs & Toric implants in Cataract & Refractive
surgery

Paper Presentation:
Parameters for overall corneal astigmatism and
irregularity using topographic semi meridian value

Nov 2011 RANZCO, Canberra Australia

Paper Presentation:
Evaluating the ocular residual astigmatism (ORA)
of patients when treating astigmatism

Chair:
Cataract/Refractive surgery session

Jan 2012 Hawaiian Eye, Maui

Presenter:
“The Essentials of Toric and LRI Planning in
Refractive Cataract Surgery”
“Ocular Residual Astigmatism (ORA)- An important
Preoperative Parameter for Excimer Laser
Surgery”

April 2012 ASCRS, Chicago USA

Course Presentation:
“Managing Astigmatism with & Toric Implants
and LRI’s in Cataract Refractive Surgery”

Presenter-Paper:
“Method of Determining Topographic
corneal Astigmatism using Multiple
Diameter Rings CorT

Panel Moderator:
“Intraocular Surgery Toric IOLs”

Sep 2012 ESCRS Milan, Italy

Course Presentation:
Managing and analysing corneal
astigmatism, LRI's and toric implants in
cataract and refractive surgery.

Paper Presentation:
Corneal topographic astigmatism (corT) - a
measure that correlates with manifest refractive
cylinder

- Oct 2012 NVC Optometrist Information Seminar, Geelong
Speaker:
 “Laser & Cataract Surgery – an update”
- Nov 2012 OIS Chicago, USA
 Ophthalmology innovation Summit
- AAO Chicago, USA
Paper presentation:
 "A measure of corneal astigmatism that corresponds to manifest refractive cylinder – corneal topographic astigmatism (CorT)"
- Moderator:*
 "Innovations in Refractive Surgery
- RANZCO Melbourne, Australia
Rapid Fire Oral Presentation:
 "An alternative measure of corneal astigmatism that corresponds to manifest refractive cylinder – corneal topographic astigmatism (CorT)"
- Chair:*
 Cataract/Refractive Surgery Rapid Fire session
- Melbourne University Optometry Student Dinner
 “Co-managing the laser and cataract refractive patient”
- Feb 2013 Aspen Corneal Society, Aspen, Colorado
 Aspen Corneal Society Invited faculty
Presenter:
 “A new parameter to quantify corneal astigmatism corT”
 “Understanding refractive surprises after toric IOL implant”
- Aspen ACOS Dulaney meeting
Invited speaker & faculty member: “Astigmatism Correction: Better on the Cornea or Implant?”
- Panel Participation:*
 IOL Power selection and calculations for cataract surgery

- March 2013 NSW RANZCO , Sydney Australia
Invited speaker
- Course presentation:
“Perfecting techniques in cataract surgery”
- July 2013 RVEEH registrar lecture on astigmatism and refractive surgery
- Oct 2013 ESCRS, Amsterdam, Netherlands
- Course presentation:*
“Toric IOLs and LRIs: Planning, Nomograms, and Enhancements’.
- Paper presentation:*
‘Corneal Topographic Astigmatism: New Topography Measure’
“Understanding and correcting for Toric IOL refractive surprises”
- Chairperson:*
Assessment of Astigmatism
- NewVision Clinics Optometrist Information Seminar, Geelong
Speaker:
“Corneal Cross Linking”
- Nov 2013 RANZCO Hobart, Tasmania
- Accepted as an oral presentation in the ‘Best Paper Presentations’-*
“Corneal topographic astigmatism (CorT) a better measure of corneal astigmatism that corresponds to manifest refractive cylinder”
- Paper Presentation:*
“Selecting the most accurate toric IOL and correcting for refractive surprises”
- Chairperson - Rapid Fire:*
Cataract & Refractive Surgery
- AAO & ISRS New Orleans, USA
ISRS session moderator - Breakfast With the Experts:

“Pearls of correction of astigmatism during cataract surgery!”

Paper Presentation:

“Corneal topographic astigmatism (CorT) a better measure of corneal astigmatism that corresponds to manifest refractive cylinder”

“Selecting the most accurate toric IOL and correcting for refractive surprises”

Moderator:

ISRS Breakfast with the experts.

Melbourne University Optometry Student Dinner
“Co-managing the laser and cataract refractive patient”

Feb 2014 NewVision Clinics Optometrist Information Seminar,
Warrnambool & Tasmania
Speaker:
“Co-managing the Laser Refractive Patient: The Latest”

“The surgical Correction of Astigmatism- The last frontier to optimising visual outcomes.”

April 2014 Novartis Information Seminar
NewVision Clinics, Windsor
Speaker:
“The Surgical Correction of Astigmatism”

ASCRS Boston, USA
Presenter- Paper:
“Corneal coupling: Importance in incisional and ablative procedures”

Moderator Paper session:
“Intraocular Surgery Toric IOL”

Course Presentation:
“Toric IOLs and LRI’s” Planning, Nomograms and enhancements”

Sep 2014 ESCRS London, UK
Chairperson:
“Challenges of Astigmatism Correction”

Course Presentation:

“Toric IOLs and LRIs: planning, nomograms and correcting refractive surprises”

Paper Presentation:

“Corneal topographic astigmatism (CorT) and total corneal power

University of Melbourne, inaugural Doctor of Optometry Student Conference

Invited speaker:

"LASIK Surgery: Anterior Eye Requirements"

Oct 2014

OIS Chicago, USA
Technology lecture

ISRS, Chicago, USA Subspecialty day:

Paper

presentation:

“Corneal Coupling: It’s Importance in Incisional and Ablative Procedures”

AAO Chicago, USA

Paper presentation:

“Corneal Coupling: It’s Importance in Incisional and Ablative Procedures”

RANZCO Brisbane, Australia

Rapid Fire Presentation:

“Corneal Coupling - its importance in incisional and ablative procedures

“Corneal topographic astigmatism (CorT) and total corneal power”

Chairperson Rapid Fire Presentation:

Cataract

Course presentation:

Intraoperative IOL misalignment and postoperative surprises– potential toricity torment.

Nov 2014

Novartis Optometrist Seminar
NewVision Clinics, East Melbourne

Speaker:

“The Surgical Correction of Astigmatism”

- Melbourne University Optometry Student Dinner
“Co-managing the laser and cataract refractive patient”
- March 2015 NewVision Clinics Optometrist Information Seminar, Geelong
Speaker:
“Refractive Outcomes of Laser Surgery”
- April 2015 ASCRS San Diego, USA
Paper presentation:
“Corneal Coupling—Importance in Incisional and Ablative Procedures”
“Corneal Topographic Astigmatism and Total Corneal Power”
- Course Presentation:*
“Toric IOLs, LRIs, and Corneal Coupling: Planning, Nomograms, and Correcting Refractive Surprises”
- Panellist Paper session:*
Cataract Toric IOL’
- July 2015 Novartis Optometrist Seminar
 NewVision Clinics, East Melbourne
Speaker:
“Precision, Speed and 7D Tracking. What does it mean for Refractive Laser Patients?”
- Aug 2015 NewVision Clinics Optometrist Information Seminar, Geelong
Speaker:
“Precision, Speed and 7D Tracking. What does it mean for Refractive Laser Patients?”
- ESCRS Barcelona, Spain
Paper Presentation:
‘Corneal topographic astigmatism (CorT) and total corneal power’
- Chairperson:*
“Corneal Astigmatism Assessment Surgery Equipment”
- Course Presentation:*
“The surgical correction of astigmatism using toric IOLs, femto-LRIs and excimer lasers with corneal topographic astigmatism (CorT)”

- Oct 2015 NewVision Clinics Optometrist Information Seminar, Traralgon
Speaker:
 “Co-Managing the Refractive Laser Patient”
- Nov 2015 RANZCO Wellington, New Zealand
Rapid Fire Session: Cataract
 Cataract Surprises after Toric IOL implantation

Rapid Fire- Refractive
 Mixed Astigmatism in Refractive Surgery
 Intraoperative Alignment

 Melbourne University Optometry Student Dinner
 “Co-managing the laser and cataract refractive patient”
- Feb 2016
 Warrnambool NewVision Clinics Optometrist Information Seminar,

Speaker:
 “Outcomes using the Schwind1050RS”

 AECOS, Aspen
 Grand Rounds III: Premium IOL Challenges
Panellist
- April 2016 ESASO Milan, Italy
Presenter:
 “Using corneal topographic astigmatism (CorT) in
 toric IOL and LRI procedures”
 “Treating corneal astigmatism by optimally
 combining corneal and refractive parameters”
 The basic principles of a vectorial outcome
 analysis- for corneal and refractive results

 Chair:
 Session: Astigmatism: Correction on the Cornea
- May 2016 ASCRS New Orleans, USA
Paper session:
 Mixed Astigmatism and Corneal Coupling in
 Refractive Laser Surgery Presenting Author

Instructor-Course:
 Toric IOLs and Femtosecond Laser LRIs; Planning,
 Using the Corneal Topographic Astigmatism
 Parameter, and What to Do with Refractive
 Surprises

Paper Session:
Corneal Topographic Astigmatism and Its
Importance in Toric IOL Calculators Presenting
Author

Como Private Hospital GP information Night, Melbourne
Invited Speaker:
“Laser and Lens- Correction of refractory
problems”

June 2016 Novartis Optometrist Seminar
NewVision Clinics, Cheltenham
Speaker:
“Updates in the Latest Technology in Laser Vision
Correction”

July 2016 IIRSI Chennai India
Invited Speaker:
“The Tools we have for understanding and
correcting for Toric IOL surprises”
“Toric and LRI Pearls for correction of astigmatism
during cataract surgery”
“Corneal coupling for incisional and ablative
procedures”

NewVision Clinics Optometrist Information Seminar, Geelong
Speaker:
“Astigmatism – The last Frontier”

Sep 2016 EuCornea Copenhagen, Denmark
Invited Speaker:
Surgically Induced Astigmatism and Flattening
Effect for cataract surgery

ESCRS Copenhagen, Denmark
Invited Chair:
Pseudophakic IOLs: Toric

Presenter-paper:
Corneal topographic astigmatism (CorT) and its
importance in toric IOL planning

Course presenter:
Toric IOL’s and femto-LRI’s: Planning Process and
what to do with Refractive Surprises

Nov 2016 RANZCO Melbourne, Australia

Presenter:

“Corneal topographic astigmatism (CorT)- an accurate measure of corneal astigmatism for toric IOLs and refractive treatments”

“Optimising mixed astigmatism refractive treatments using corneal coupling”

Course Presenter:

Keep your cool - dealing with common cataract surgery problems without anxiety

Course Instructor:

What I do different in refractive laser surgery than manifest refractive spherocylinder treatment

Mar 2017

IIC Argentina, South America

Speaker:

Intraocular Lenses Session

“Toric implant calculators and their features. How to incorporate measured Total corneal power”

Speaker:

My Special Secret to Making a Good Procedure Even Better

“Improve visual results in Laser Vision correction- Vector Planning”

May 2017

ASCRS Los Angeles, USA

Presenting Author

LASIK Outcomes Comparing Vector Planning to Manifest Refraction for the Treatment of Myopic Astigmatism

Presenting Author

Session, Measured Total Corneal Power for Toric IOL Calculations Using the 3 Different Systems

Moderator

3D Multifocal IOLs, EDOF IOLs

Instructor

Toric IOL's and Femtosecond Laser LRI's: Planning, Using The Corneal Topographic Astigmatism Parameter, and What to Do with Refractive Surprises

Nov 2017

RANZCO Perth, Australia

Invited Speaker

Gregg Lecture

April 2018

ASCRS Washington DC, USA

Presenting Author

Surgical Planning/SMILE

Mixed Astigmatism and Corneal Coupling in
Refractive Laser Surgery

Panelist

Astigmatism/Toric IOLs

Moderator

Refractive Outcomes:Lasik/PRK/SMILE

Instructor

Astigmatism Planning and Analysis for Toric IOLs
and Refractive Laser Surgery.

Presenting Author

Power Calculations/Astigmatism Measurements

Accuracy of Total Corneal Topographic

Astigmatism Compared with Total Corneal Power
Measured Using 3 Tomographers

Sept 2018

ESCRS Vienna, Austria

Course

Improving Astigmatic Outcomes Using Toric IOLs,
LRIs and Refractive Laser Surgery.

Session/Presenter

Refractive Surgery New

Techniques/Instrumentation/Devices

“LASIK Outcomes Comparing Vector Planning to
Manifest Refraction for the Treatment of Myopic
Astigmatism.”

Session/Presenter

Vision & Accommodation Assessment

“Accuracy of Total Corneal Topographic
Astigmatism (CorT total) Compared to the total
Corneal Power Measured Using 3 Different
Tomographers.”

ISRS Sub-Session /Speaker

Best Clinical Pearls

“Analyzing and planning for astigmatism surgery.”

Nov 2018

RANZCO Adelaide, Australia

RAPID-FIRE Oral Presentation

Accuracy of total corneal topographic astigmatism (CorT Total) compared to the total corneal power measured using 3 different tomographers.

Poster Presentation

The role of hemidivisional CorTs in the regularization and reduction of irregular astigmatism

Nov 2018 The F1000 Prime
Faculty member

Feb 2019 AECOS Aspen, USA
Presentation
Game Changers
"IOL/Astigmatism Calculation Case"

Presentation
Refractive Surgery Challenges
"Lasik Surprises"

May 2019 ASCRS San Diego, USA
Session Moderator
Femtosecond Laser-Assisted LASIK

Session/Presenter
Refractive Comparison
"LASIK Outcomes Comparing Vector Planning to Manifest Refraction for the Treatment of Myopic Astigmatism"

Course Instructor
Correction of Astigmatism using Toric IOLs, LRIs, and Refractive Laser Surgery

Session/Presenter
Astigmatism Management
"Accuracy of Total Corneal Topographic Astigmatism (CorT total) Compared to the Total Corneal Power Measured Using 3 Different Tomographers"

August 2019 Melbourne University Lecture to Optometry Students
Refractive Surgery

Sept 2019 ESCRS Paris, France

Presenter

Correction of astigmatism using Toric IOLs, LRIs and refractive laser surgery

Presenter

Poster Presentation: Managing astigmatism to avoid LASIK surprises

Presenter

Free Paper: Lasik & PRK I

Assessing standard astigmatism outcomes after refractive laser surgery

Oct 2019

Australian College of Optometry, Melbourne Australia

Speaker

From ASSORT to vector planning: everything that you wanted to know about astigmatism and are now welcome to ask!

Debate Panelist

Debate: Can Omega-3s play a significant part in dry eye

AAO San Francisco, USA

Recipient of the 2019 José I. Barraquer Lecture & Award

Presenter

Subspecialty Session: Synthesizing Data to Optimize Astigmatism Correction in Lens Surgery

Presenter

Session: The Complete Guide to the Management of Astigmatism at the Time of Cataract Surgery
Presenting: Astigmatism — Where It Is and How to Measure It

Invited speaker

Barraquer Lecture: Innovations in Refractive Surgery

Presenting: Vector Planning Method: Residual Astigmatism Minimised – LASIK Surprises Avoided

Nov 2019 RANZCO Sydney, Australia

Presenter

Rapid fire session: Cataract/Ocular Oncology

Accuracy of total corneal topographic astigmatism (CorT Total) compared to Total Keratometry (TK)

ISRS Webinar Tuesday 21st January 2020

Chairperson and Speaker

Vector Analysis and the Alpins' Calculators.

Co speakers

Prof Dan Reinstein London UK

Prof Jorge Alio Alicante Spain

[Event Info](#) | [Speaker Info](#) | [Event Registration](#)



ASSORT® Free Calculators for Large Group Analyses

- Dr. Noel Alpíns: The ASSORT® Calculators for Corneal and Refractive Analyses: Group Analysis
- Dr. Dan Reinstein: Big Data Analysis of Astigmatism After LASIK/SMILE
- Dr. Jorge Alio: Hybrid Analysis of Cylinder After Toric IOL Surgery; Refractive Surprises Post Toric IOL implantation-When to Rotate
- Dr. Noel Alpíns: ORA and Vector Planning Calculators-Minimizing the Risk of Glare and Starburst at Night

[Register Now](#)

Students	Refractive Surgery (Webinar)
June 2020 (Webinar)	Avenue Private Windsor Nexus Presentation Making Your Practice Safe
May 2021 Students	Melbourne University Lecture to Optometry Refractive Surgery (Webinar)

Regional Optometric Seminars Series 2021

GEELONG	10/02/2021	Novotel Geelong
Warrnambool	24/02/2021	Lady Bay Resort
Shepparton	17/03/2021	The Carrington
Traralgon	31/03/2021	Century Inn
Ballarat	21/04/2021	Craig's Royal Hotel
Bendigo	28/04/2021	GPO Bar & Restaurant
Albury	12/05/2021	Public House

Presbiopia 2021 Poland Webinar October 2021
Presentation EDOF vs Trifocal IOLs: The Patient Experience

ASCRS Annual Scientific Meeting Washington 22-25 April 2022

Session Title Surgical Planning
Presentation Improving corneal astigmatism measures in Keratoconic eyes
Presentation Hemidivisional Vector Planning to Reduce and Regularise Irregular Astigmatism by Laser Treatment

Session title Astigmatism Management and Toric IOL Alignment

Presentation Accuracy of Total Corneal Topographic Astigmatism (CorT Total) compared to Total Keratometry (TK)

MELBOURNE UNIVERSITY OPTOMETRIST STUDENTS LECTURE - May 28th, 2021

Presenter: Refractive Surgery

Suburban Optometric Seminars Series 2021

Glen Eira	February, 2022	The Bentleigh Club
Melbourne	March, 2022	Royal Victorian Eye and Ear Hospital

MELBOURNE UNIVERSITY OPTOMETRIST STUDENTS LECTURE –April 2022

Presenter: Refractive Surgery

ASCRS WASHINGTON USA –April 2022

Paper Presentation: Improving Corneal Astigmatism Measures for Keratoconic Eyes

Paper Presentation: Hemidivisional Vector Planning to Reduce and Regularize Irregular Astigmatism by Laser Treatment

Paper Presentation: Accuracy of Total Corneal Topographic Astigmatism (CorT Total) Compared to Total Keratometry (TK)

Regional Optometric Seminars Series 2022

Geelong	2 nd May, 2022	Four Points
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Suburban Optometric Seminars Series 2022

Chadstone	22 nd October, 2022	Hotel Chadstone
Melbourne	9 th November, 2022	Melbourne Marriott Hotel

World Ophthalmology (Virtual) Conference Melbourne September 2022

Session Chair:-

A corneal perspective on the treatment of astigmatism.

Presentation

Hemidivisional Vector Planning for the reduction and regularisation of regular astigmatism treatment

Regional Optometric Seminars Series 2023

Geelong	22nd March, 2023	Novotel Geelong
Ballarat	May, 2023	Craig's Royal Hotel
Geelong	8 th June, 2023	Novotel Geelong
Warrnambool	9 th August, 2023	Lady Bug Resort
Bendigo	23 rd August, 2023	GPO, Bendigo

Suburban Optometric Seminars Series 2023

Scoresby	26 th July, 2023	Hyatt Place Melbourne
Moonee Ponds	11 th October, 2023	Moonee Valley Racing Club

MELBOURNE UNIVERSITY OPTOMETRIST STUDENTS LECTURE - April 21st, 2023

Presenter: Refractive Surgery

Attended Conferences 2023

WCRS Meeting, Adare Manor Limerick Ireland – June, 2023

Presenter: WCRS Conference & Board Meeting

Refractive Surgery Alliance Symposium, Dublin Ireland – July 2023

Presenter: RSA Innovation Symposium

International Ophthalmology Conference (IOC) WHERE? By Zoom – October, 2023

Presenter: Hemidivisional Vector Planning to Reduce and Regularize Astigmatic Laser Treatment

Regional Optometric Seminars Series 2024

Shepparton

May, 2024

The Carrington Hotel

Suburban Optometric Seminars Series 2024

Cheltenham

April, 2024

NewVision Clinics

MELBOURNE UNIVERSITY OPTOMETRIST STUDENTS LECTURE - May 24th, 2024

Presenter: Refractive Surgery

DEAKIN UNIVERSITY OPTOMETRIST STUDENTS LECTURE - June 12th, 2024

Presenter: Refractive Surgery including SILK the latest technology

TROKEL AWARD NOMINATION 1994

Noel Alpins practices in suburban Melbourne principally in cataract and refractive surgery in private group practice. He commenced refractive surgery when he started performing radial keratotomy in 1984 and made his first presentation on astigmatism at the Australian College Meeting in Melbourne in 1986.

Since 1991, Noel has been a leading member of the Melbourne Excimer Laser and Research Group at Melbourne University, and had an active involvement in establishing the protocol for treatment with the VisX 20/20 laser in Melbourne, prior to the commencement of Excimer laser surgery in November 1991.

In June 1992 when multizone elliptical treatment surgery was introduced, Noel was instrumental in developing the treatment paradigms for the multizone distribution of spherical refractive error, as well as the astigmatism zonal distribution employed by our Group.

Noel has developed an outcomes analysis software program, a comprehensive eye surgery analysis called the Alpins Statistical System for Ophthalmic Refractive-Surgery Techniques (ASSORT). This program won the 1993 Borland Paradox Application Language programming contest. A very favourable, independent evaluation of the usefulness and content of the software program has been published in the ophthalmic press.

Noel has developed a new method of treating and analysing astigmatism that developed the concept of Target Induced Astigmatism (TIA) which incorporates Topography and Refraction into the surgical plan and analysis of Excimer laser surgery. Using this vector analysis method to analyse the results from the Melbourne group in February 1993 he was the first to quantify the trend of under-correction

of magnitude of astigmatism, which enabled the adjustment factor of 1.2 to be utilised in Melbourne from April 1993. Other centres followed Melbourne's lead that resulted from Noel's analysis. He presented the results of this adjustment at the ASCRS Symposium in Boston in 1994.

Noel quantified the surgically induced astigmatism with PRK (spherical) by topography and refraction, and presented this with Melbourne's PARK results at the ISRK Symposium prior to the AAO in Chicago in 1993 and also in Minneapolis in July 1993.

The analysis which he presented demonstrated that the failure to achieve the axis of the applied treatment (the angle between the SIA and TIA) is a major factor in our failure to achieve total success in the treatment of astigmatism.

Noel, using his method, demonstrated differences in the effectiveness between the elliptical and sequential techniques when utilising the VisX 20/20 laser in Melbourne, and presented the results at the International Congress of Ophthalmology in Toronto as an invited faculty member at the Canadian Rockies Symposium in Banff, and acted as co-moderator of the session on photorefractive keratectomy.

Noel is currently co-author on a paper for publication encompassing all the above aspects of non-incisional refractive surgery. He has already had published scientific papers in the Journal of Cataract and Refractive Surgery and Archives of Ophthalmology. He has written extensively for the ophthalmic information journals (Ocular Surgery News, Ophthalmology Times and EyeCare Technology) and was recently appointed a member of the Medical Editorial Board of the latter publication.

Noel was invited to speak as a faculty member in Paris (May 1994) at the French Implant Society and Ocular Surgery News Symposium and presented his and the Group's experiences with astigmatism surgery in addition to his own developed concepts. Noel was also an invited faculty member at the ASCRS Symposium prior to the AAO meeting in San Francisco, and gave two presentations on understanding astigmatism and a third on its practical application to Excimer laser surgery. He has been a course faculty member on Kerato-Refractive debates at both ASCRS and AAO these past two years, and participates as an instructor at both Astigmatic Keratotomy and Phacoemulsification courses.

Noel felt very honoured and privileged to have his work on astigmatism acknowledged by the invitation he received to participate as a speaker at the ASCRS/AAO Symposium on Non-incisional Refractive Surgery at the recent Academy meeting in San Francisco.

Noel's innovative work has made an outstanding contribution to Excimer Laser Surgery by the determination of the optimal treatment of astigmatism addressing both pre-operative values of astigmatism - topographic and refractive. The measured introduction of topography into the surgical plan enables the targeting of reduced corneal astigmatism and optimising the astigmatic result for each individual eye.

Noel has had a commitment to the achievement of excellence in refractive outcomes. This goal has been demonstrated by the considerable commitment of his own time in determining the astigmatic outcomes of our Group, and the expenditure of his own resources in financially supporting the collection, evaluation and analysis of the Group's data.

COUNTRY	APPLICATION NO.	PATENT NO.	FILING DATE	ISSUE DATE	TITLE
PCT	PCT/AU93/00090		04/03/93		METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY
Australia	36231/93	663930	04/03/93	13/02/1996	METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY
Canada	2138388		04/03/93		METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY
Europe (Ratified in Germany, Spain, France, Great Britain, Greece, Ireland, Italy)	93905106.6	653929	04/03/93	07/11/2001	METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY
Japan	504815/94		04/03/93		METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY
Korea	95-700482	0262847	04/03/93	07/11/2001	METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY
New Zealand	249444	249444	04/03/93	04/11/1996	METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY
USA	927616		10/08/92		METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY
USA	313056	5514124	30/09/94	07/05/1996	METHOD OF ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL SURGERY

USA	08/618535	5749867	19/03/96	12/05/1998	METHOD FOR ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL
USA	09/075675	6086579	11/05/98	11/07/2000	METHOD FOR ANALYSING ASTIGMATISM AND APPARATUS FOR PERFORMING CORNEAL

