

## CURRICULUM VITAE

### PETER N. ARROWSMITH, M.D.

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#### PERSONAL

BIRTHDATE	December 28, 1943
BIRTHPLACE	Brooklyn, New York
MARITAL STATUS	Married (Barbara), 2 children
BUSINESS ADDRESS/PHONE	210 Twenty-fifth Avenue North Parkview Tower, Suite 900 Nashville, TN 37203 (615) 327-2020
HOME	Brentwood, Tennessee 37027

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#### EDUCATION

UNDERGRADUATE	Albright College, Reading, PA, September 1961 - June 1964  Franklin and Marshall College, Lancaster, PA, July 1962 – August 1962  Broward Junior College, Ft. Lauderdale, FL, September 1966 - December 1966  Florida Atlantic University, Boca Raton, FL, January 1967 - August 1968, Pre-Med, Chemistry, Bachelor of Science Degree - August 1968
GRADUATE	Florida Atlantic University, Boca Raton, FL, Enzyme Kinetics, August 1968 - August 1969
MEDICAL SCHOOL	University of Miami School Of Medicine, Miami, FL, MD Degree – June 1973
HONORS	President's List for 4.0 Grade Average, December 1966  Alpha Omega Alpha Medical Honor Society, 1972
AWARDS	University of Miami School of Medicine Distinguished Service Award, 1973
INTERNSHIP	Vanderbilt University Hospital, Nashville, TN, Internal Medicine, July 1973 - July 1974
RESIDENCY	Vanderbilt University Hospital, Nashville, TN, Ophthalmology, July 1974 - July 1977, Chief Resident - July 1976 - July 1977

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#### BOARD CERTIFICATION

American Board of Ophthalmology, April 26, 1978

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**PRACTICE**

Private Practice of Ophthalmology Established as Professional "C"-Corporation, Peter N. Arrowsmith, M.D., P.C., 210 25<sup>th</sup> Avenue North, Ninth Floor, Nashville, TN 37203, December 1977 – Present

d/b/a Arrowsmith Eye Institute

Subspecialty: Refractive Surgery including Refractive Cataract and Implant Surgery

Other Practice-Related Entities:

Eye Surgery Center of Middle Tennessee, 210 25th Avenue North, Suite 920, Nashville, TN, a State of Tennessee Licensed Ambulatory Surgical Treatment Center. Medicare Certified since 1984. Fully accredited by AAAHC, Accreditation Association for Ambulatory Health Care, through April 2007

Eye Research Foundation, Inc., 210 25th Avenue North, Suite 910, Nashville, TN, a 501c3 Public Charitable Foundation with the Mission: "The Eye Research Foundation is dedicated to eye research and education to improve the treatment of refractive eye disorders; and thus, individual quality of life through better vision."

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**HOSPITAL AFFILIATIONS**

Baptist Hospital, Nashville, TN

Eye Surgery Center of Middle Tennessee

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**PROFESSIONAL ASSOCIATIONS**

American Medical Association

Tennessee Medical Association

Nashville Academy of Medicine and Davidson County Medical Society

American Academy of Ophthalmology

Tennessee Academy of Ophthalmology

Nashville Academy of Ophthalmology

American Society of Cataract and Refractive Surgery

International Society of Refractive Surgery

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**PROFESSIONAL POSITIONS, RESPONSIBILITIES**

Member of Membership Services Committee, Nashville Academy of Medicine and Davidson County Medical Society – Approximately 1978 – 1981

Honorary Instructor, Vanderbilt University, (Peabody College) Nashville, TN -

Graduate Course in Education of the Visually Handicapped, Approximately 1978 - 1981

Chief of Ophthalmology, Parkside Surgery Center, Nashville, TN - Approximately December 1980 - December 1984

Assistant To Legislative Chairman, Tennessee Academy of Ophthalmology and Nashville Academy of Ophthalmology, October 1980 - October 1981

Chairman of Political Action Committee for Tennessee Academy of Ophthalmology, April 1981- April 1982

President of the Medical Staff, Parkside Surgery Center, Nashville, TN, April 1982 – March 1983

Member of Surgical Advisory Committee, Alcon Surgical Corporation, Approximately 1983

Kerato-Refractive Society, Member of Editorial Review Staff, November 1983

Co-Chairman, Nominating and Membership Committee, National Academy of Eye Surgeons - June 1984

The American Society of Contemporary Ophthalmology, Course Director, Arrowsmith Comprehensive RK Course, A Regional Meeting, approximately April 1984 – 1986

Member of Medical-Legal Committee, Nashville Academy of Medicine and Davidson County Medical Society – Approximately 1992

Member of Tennessee Medical Association Task Force for Development of Guidelines for Office Based Surgery in Tennessee, approximately 2002-2006

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**SPECIALIZED TRAINING IN KERATO-REFRACTIVE SURGERY, CATARACT AND INTRAOCULAR LENS IMPLANT SURGERY: COURSES, SYMPOSIA AND MEETINGS**

Hoffer Intraocular Lens Implant Course, Santa Monica, CA - December 1978

The Northwest Microsurgical Course: XCCE and IOL, Bellevue, WA - February 1979

Nashville Academy of Ophthalmology, Spencer Thornton- M.D., "Radial Keratotomy", Nashville, TN - September 1980

American Academy of Ophthalmology Annual Meeting, Papers on Radial Keratotomy and Lens Implant Surgery, Chicago, IL -November 1980

Kerato-Refractive Society Annual Meeting, Chicago, IL - November 1980

National Radial Keratotomy Study Group Course with Leo D. Bores, M.D. and Professor Svyatoslav Fyodorov, Santa Fe, NM – November 1980

Personal Instruction in and Observation of Radial Keratotomy (Russian Technique) with Albert C. Neumann, MD, FACS, Deland, FL - December 1980

Nashville Intraocular Lens Implantation Course and Radial Keratotomy Symposium, Participant and Instructor, Nashville, TN - April 1981

International Radial Keratotomy Course with Leo D. Bores, M.D. and Professor Svyatoslav Fyodorov, Moscow, Russia - May 1981

Kerato-Refractive Society Mid-Year Meeting, New Orleans, LA - Approximately May 1981

The New England Posterior Phacoemulsification and Extracapsular Implant Course, Framingham, MA - October 1981

Second International Symposium on Intraocular Implantation and Ophthalmic Micro-Surgery, Instructor, Cairo, Egypt, and Tel Aviv, Israel – September 1981  
Kerato-Refractive Society Course on Radial Keratotomy, Atlanta, GA - November 1981

Kerato-Refractive Society Annual Symposium, Atlanta, GA - November 1981

American Academy of Ophthalmology Annual Meeting, Atlanta, GA -November 1981

Kansas City Ophthalmology and Otolaryngology Society Seminar on Ophthalmic Surgery, Emphasis Radial Keratotomy, Steamboat Springs, CO - February 1982

Clinical Vision Research: Epidemiological and Biostatistical Approaches, Sarasota, FL - April 1982

Nashville Intraocular Lens Implantation Course And Radial Keratotomy Symposium, Nashville, TN -May 1982

Nashville Academy of Ophthalmology, Richard Smith, M.D., "Radial Keratotomy", Nashville, TN - September 1982

Radial Keratotomy Practical Course, Frederic B. Kremer, M.D. and Analysis of Radial Keratotomy Study Group, San Francisco, CA - October 1982

American Academy of Ophthalmology Annual Meeting, San Francisco, CA - November 1982

Kerato-Refractive Society Course on Radial Keratotomy, San Francisco, CA - November 1982

Kerato-Refractive Society Annual Symposium, San Francisco, CA - November 1982

Hawaii Ophthalmological Society Fourth Annual Royal Hawaiian Meeting, Radial Keratotomy Symposium, Maui, HI - January 1983

Kerato-Refractive Society Annual Symposium, Chicago, IL - November 1983

American Academy of Ophthalmology Annual Meeting, Chicago, IL - November 1983

International Refractive Keratoplasty Society Annual Meeting, Chicago, IL - November 1983

Kerato-Refractive Surgery of Barraquer Course, CryoLathe Keratomileusis, Lee T Nordan, M.D, San Diego, CA - December 1983

Radial Keratotomy Symposium and Practical Course, Colorado Otologic Research Center, Denver, CO - December 1983

Observation of Keratomileusis and Ruiz Astigmatism Procedures with Drs. Ralph G. Berkeley, Lee T. Nordan, Luis Ruiz, Houston, TX - January 1984

Hawaii Ophthalmological society, Fifth Annual Royal Hawaiian fleeting, Radial Keratotomy Symposium, Maui, HI - January 1984

Forum Ophthalmologicum Centenarii, Emphasis Refractive Surgery with Special Emphasis on Keratomileusis . Prof. Jose Barraquer ,M.D., Bogotá, Colombia, South America - March 1984

International Society of Refractive Keratoplasty, Second European Seminar on Refractive Keratoplasty, Helsinki, Finland, May 1984

California Association of Ophthalmology, Refractive Surgery Seminar, Monterey, California - September 1984

American Academy of Ophthalmology Annual Meeting, Atlanta, GA, November 1984

Contact Lens Association of Ophthalmologists Mid-winter Meeting and Course, San Diego, CA, January 1985

Contact Lens Association of Ophthalmologists Mid-winter Meeting, Symposium, San Diego, CA, January 1985

The Boston Eye Research Institute, Radial Keratotomy Symposium and Course, Boston, MA, April 1985

1st International Cornea and Eye Banking Symposium, San Diego, CA - June 1985

Central California Comprehensive Radial Keratotomy Course, Fresno, CA - June 1985

Observation of Epikeratophakia Procedure with Drs. Herbert Kaufman, MD and Marguerite McDonald, MD, New Orleans, LA, July 1985

American Medical Optics Investigator's KME Certification Course on Epikeratophakia, Irvine, CA, August 1985

American Academy of Ophthalmology Annual Meeting, San Francisco, CA, September 1985

International Society of Refractive Keratoplasty Annual Meeting, San Francisco, CA, September, 1985

First German Comprehensive Radial Keratotomy Course, Hamburg, Germany, approximately October 1986

American Academy of Ophthalmology Annual Meeting, 1987

Meetings of the American Academy of Ophthalmology and the American Society of Cataract and Refractive Surgery approximately every two years, 1988-1993

American Academy of Ophthalmology Annual Meeting, 1991

American Academy of Ophthalmology Annual Meeting, October, 1994

Automated Lamellar Keratoplasty Course and Mini-Fellowship, Dr. Charles Casebeer, Scottsdale, AR, November, 1994

American Society of Contemporary Ophthalmology, Annual Meeting, October 29, 1995

American Academy of Ophthalmology Annual Meeting, October, 1995

Personal Instruction and Observation of Automated Lamellar Keratoplasty and Cataract Surgery by Phacoemulsification Under Topical Anesthesia with Foldable Intraocular Lens Insertion, Jerre Minor Freeman, MD, Memphis, TN, approximately 1995

Personal Instruction and Observation of Cataract Surgery by Phacoemulsification with Foldable Intraocular Lens Insertion, David C. Brown, MD, Ft. Myers, FL, approximately 1995

Summit Laser Photorefractive Keratectomy Course, Rush Presbyterian-St. Luke's Medical Center, Chicago, IL, February 16, 1996

Global Vision Institute, Photorefractive Keratectomy (PRK) Course, Nashville, TN, February 18, 1996

LASIK Laser Keratomileusis Course, USF Eye Institute, Dr. J. James Rowsey, MD, Tampa, FL, March 29-30, 1996

American Society of Cataract and Refractive Surgery Annual Meeting, Spring, 1996

American Academy of Ophthalmology Refractive Surgery Subspecialty Symposium, Chicago, IL, October 1996

VISX Excimer Laser System Training Certification Course, Arrowsmith Eye Institute, Nashville, TN, December 1996, Certified VISX Laser Operator

VISX Photorefractive Keratectomy PRK and Phototherapeutic Keratectomy PTK Course, Frederick Brightbill, MD, Arrowsmith Eye Institute, Nashville, TN, December 1996

VISX Photorefractive Keratectomy PRKa Training Course, April 1997

American Society of Cataract and Refractive Surgery Annual Meeting, Boston, MA, April 1997

OPHTEC Technique for Implantation of the WMCL (Artisan Myopic Phakic Intraocular Lens) for High Myopia Course, Prof Jan G. F. Worst, MD, Gronigen, Holland, September 14-16, 1997

American Academy of Ophthalmology Refractive Surgery Subspecialty Symposium, Reshaping the Future, San Francisco, CA, October 1997

American Academy of Ophthalmology Annual Meeting, San Francisco, CA, October 1997

CRS Training for FDA Studies, Charles Casebeer, MD, Nashville, TN, approximately 1997

VISX Photorefractive Keratectomy PRK High Myopia with or without Astigmatism Training Course, February 1998

Customer Service in a Physician's Practice, Baptist Center for Medical Education, Nashville TN, February 10, 1998

American Society of Cataract and Refractive Surgery Annual Meeting, San Diego, CA, April 1998

International Society of Refractive Keratoplasty Conference & Exhibition, New Orleans, LA, November 6-7, 1998

American Academy of Ophthalmology Annual Meeting, New Orleans, Nov 1998

VISX Photorefractive Keratectomy PRK High Myopia Training Course, February 1999

VISX Photorefractive Keratectomy PRK Hyperopic Astigmatism S3 ActiveTrak Training Course, October 2000

VISX LASIK for Myopic Astigmatism Training Course, Feb 2001

VISX LASIK for Hyperopic Astigmatism Training Course, May 2001

American Society of Cataract and Refractive Surgery Annual Meeting including , Artisan Implantable Lens for Myopia Course, Prof Jan G. F. Worst, MD, Seattle, WA, April 1999

Kera Vision Intacs Training Course, Daniel S. Durrie, MD, Kansas City, MO, May, 1999

Nidek EC 5000 Excimer Laser System Training and Certification Course, Daniel S. Durrie, MD, Kansas City, MO, August, 1999

American Academy of Ophthalmology Annual Meeting, Orlando, FL, 1999

American Society of Cataract and Refractive Surgery Annual Meeting including Artisan Implantable Lens for Myopia Course, Prof Jan G. F. Worst, MD, Boston, MA, May 2000

WaveLight Allegretto Training Course, Scottsdale, AR, 2000

WaveLight Training for FDA Studies, Guy Kezirian, MD, Nashville, TN, 2000

WaveLight Allegretto Laser Operator Training, Nashville, TN, 2000, Certified Laser Operator

Training Course, Treatment of Hyperopia Using the Hyperion LTK System, Chicago IL – July 29, 2000

European Society of Cataract and Refractive Surgeons Annual Meeting, including Artisan Implantable Lens for Myopia Course, Prof Jan G. F. Worst, MD, Brussels, Belgium, September 2000

American Society of Contemporary Ophthalmology, Annual Meeting, Treatment of Presbyopia, Dallas, TX, October 21, 2000

American Academy of Ophthalmology Refractive Surgery Subspecialty Symposium, Dallas, TX, October 2000

American Academy of Ophthalmology Annual Meeting, Dallas, TX, October 2000

American Society of Cataract and Refractive Surgery Annual Meeting including Artisan Implantable Lens for Myopia Course, Prof Jan G. F. Worst, MD, San Diego, CA, April 2001

European Society of Cataract and Refractive Surgeons Annual Meeting, including Artisan Implantable Lens for Myopia Course, Prof Jan G. F. Worst, MD, Amsterdam, Holland, September 2001

International Society of Refractive Surgery, New Orleans, LA, Nov 2001

American Academy of Ophthalmology Annual Meeting, New Orleans, LA, Nov 2001

American Society of Cataract and Refractive Surgery Annual Meeting including Artisan Implantable Lens for Myopia Course, Prof Jan G. F. Worst, MD, Philadelphia, PA, April 2002

European Society of Cataract and Refractive Surgeons Annual Meeting, including Artisan Implantable Lens for Myopia Course, Prof Jan G. F. Worst, MD, Nice, France, September 2002

American Academy of Ophthalmology Annual Meeting, Orlando, FL, Oct 2002

American Society of Cataract and Refractive Surgery Annual Meeting, San Francisco, CA, April 2003

VISX Star S4 CustomVue Training Course, June 2003

American Academy of Ophthalmology Annual Meeting, Anaheim, CA, Nov 2003

WaveLight Allegretto Wave Model 1008 Laser Operator Training, Arrowsmith Eye Institute, Nashville, TN, April 19, 2004, Certified Laser Operator

American Society of Cataract and Refractive Surgery Annual Meeting, San Diego, CA, May 2004

American Academy of Ophthalmology Annual Meeting, New Orleans, LA, Oct 2004

American Society of Cataract and Refractive Surgery Annual Meeting, Washington, DC, April 2005

American Academy of Ophthalmology Annual Meeting, Chicago, IL, Oct 2005

American Society of Cataract and Refractive Surgery Annual Meeting, San Francisco, CA, Mar 2006

IntraLase Training on Models FS15, FS30 and FS60, June 2005 – November 2006.

IntraLase Proctor Certification Program, November 8, 2006. Certified to train new surgeon and staff users of IntraLase Femtosecond Laser Models FS15, FS30 and FS60 for Bladeless LASIK.

American Academy of Ophthalmology Annual Meeting, Las Vegas, NV, Nov 2006

Certified WaveLight Allegretto Wave Laser Trainer (Pending)

Numerous Additional Local, State and National Meetings, Symposia and Seminars 1974-2006

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**INSTRUCTOR, LECTURER, AND PRESENTOR AT SCIENTIFIC COURSES, SYMPOSIA AND MEETINGS**

146th Annual Meeting, Tennessee Academy of Ophthalmology, Paper: "Overview of Early Radial Keratotomy Experience and Case Presentations", Knoxville, TN - April 1981

Nashville Intraocular Lens Implantation Course and Refractive Surgery Instructional Symposium, Instructor and Lecturer, Paper; "Methodology in Radial Keratotomy", Nashville, TN - April 1981 (\*Guest Speaker By Invitation)

Second International Seminar on Intraocular Lens Implantation and ophthalmic Microsurgery, Paper: "Statistical Analysis of Radial Keratotomy Results", Cairo, Egypt - September 1981

Second International Seminar on Intraocular Lens Implantation and Ophthalmic Microsurgery, Paper: "Radial Keratotomy Technique, Statistical Analysis of Results and Determination of Predictability by Computerize Multiple Regression Analysis," Tel Aviv, Israel - September 1981

Kerato-Refractive Society practical Course on Radial Keratotomy, Instructor and Lecturer, Atlanta, GA - November 1981

Kerato-Refractive Society Annual Symposium, Paper: "Computerized Regression Analysis of Preoperative and Operative Parameters in Radial Keratotomy," Atlanta, GA November 1981

National Eye Institute, National Institutes of Health, Informal Symposium, Lecturer: Methodology and Results of Radial Keratotomy, Bethesda, MD - December 1981 (\* By Invitation)

Kansas city Society of ophthalmology and Otolaryngology Seminar on Ophthalmic Surgery, Lecturer and Paper: "Results of Radial Keratotomy Surgery," Steamboat Springs, CO - March 1982 (\* Guest Speaker By Invitation)

147th Annual Meeting, Tennessee Academy of Ophthalmology, Paper: "Computerized Analysis of Three Hundred Radial Keratometry Cases", Memphis, TN - April 1982

American Intra-ocular Implant Society Annual Meeting, Paper: "Comparison of Manual and Automatic Keratometry", Los Angeles, CA - April 1982

The Second Annual Nashville Intraocular Lens Implant Course and Refractive Surgery Symposium, Instructor and Lecturer, Paper; "Comparison of Manual and Automated Keratometry" and "Technique and Results of Radial Keratometry Surgery", Nashville, TN --May 1982 (\* Guest Speaker By Invitation)

Radial Keratotomy Practical Course, Frederic B. Kremer, MD, and Analysis of Radial Keratotomy Study Group, Instructor and Lecturer, Comparison of Manual and Automated Keratometry and Technique and Results of Radial Keratotomy Surgery, San Francisco, CA - October 1982 (\* Guest Speaker By Invitation)

Kerato-Refractive Society Annual Symposium, Paper: "Predictability of Radial Keratotomy", San Francisco, CA -October 1982

American Academy of Ophthalmology and International Congress of Ophthalmology Annual Meeting, Paper: "Visual, Refractive and Keratometric Results of Radial Keratotomy", San Francisco, CA - November 1982 (\*By Invitation)

Hawaii Ophthalmological Society Fourth Annual Royal Hawaiian Meeting, Radial Keratotomy Course, Instructor and Lecturer: Indications and Contraindications of Surgery, Radial Keratotomy Instrumentation, Surgical Technique, Predictability of Radial Keratotomy and Psychosocial Results, Maui, HI -January 1983 (\* Guest speaker by Invitation)

American Intraocular Implant Society Symposium, Aziz Y. Anis, M.D., Lecturer: Radial Keratotomy Update, New Orleans, LA -March 1983 (\* Guest Speaker By invitation)

148th Annual Meeting, Tennessee Academy of Ophthalmology, Paper: "Analysis of Radial Keratotomy - Update", Nashville, TN - April 1983

Coburn Educational Seminar, Clinical Application and Use of Intraocular Lenses and Meditech YAG Laser, Lecturer: Clinical Applications Using the Meditech YAG Laser, Nashville, TN - July 1983

Ninth Annual Meeting, American Association for Pediatric Ophthalmology, National Eye Institute Symposium, Lecturer: Clinical Research Designs in ophthalmology, Vancouver, BC - (\* Guest Speaker By Invitation)

Kerato-Refractive Society Radial Keratotomy Course, Instructor and Lecturer: Radial Keratotomy Surgical Technique, Chicago, IL - October 1983

Kerato-Refractive Society Annual Symposium, Paper: "Predictability Model for Radial Keratotomy", Chicago, IL -October 1983

International Society of Refractive Keratoplasty Symposium, Paper "Predictability of Radial Keratotomy", Chicago, IL - October 1983

Radial Keratotomy Symposium and Practical Course, Colorado Otologic Research Center, Instructor and Lecturer: Data Collection and Computer Analysis, Surgical Technique: Another Surgeon's Technique, ARK Study Results, Denver, CO -December 1983 (\* Guest speaker By Invitation)

Kerato-Refractive Surgery of Barraquer, Lee T. Nordan, M.D., Lecturer: Radial Keratotomy Overview, San Diego, CA -December 1983 (\*By Invitation)

Hawaii Ophthalmological Society, Fifth Annual Royal Hawaiian Meeting, Instructor and Lecturer: Surgical Technique and Predictability of RK, Clinical Experience with Mode-Locked and Q-Switched Lasers, Totally In-The-Bag I/A Procedure Through a Small Superior Capsulotomy, Maui, HI - January 1984 (\*Guest Speaker By Invitation)

149th Annual Meeting, Tennessee Academy of Ophthalmology, Paper: "Radial Keratotomy Predictability", Knoxville, TN - April 1984

149th Annual Meeting, Tennessee Association of Long Term Care Physicians, Lecturer: Review of Chronic and Senile Eye Disease Affecting Visual Function, Emphasis on Current Treatment Modalities and Management Options, Knoxville, TN - April 1984 (\* Guest Speaker By Invitation)

Arrowsmith Comprehensive Radial Keratotomy Course, Course Director, Instructor and Lecturer, Nashville, TN - April 1984

International Society of Refractive Keratoplasty's Second European Seminar on Refractive Keratoplasty, Paper: "Radial Keratotomy Predictability", Helsinki, Finland - May 1984

California Association of Ophthalmology, Refractive Surgery Seminar, Lecturer: Radial Keratotomy Technique and Results, Monterey, CA - September 1984 (\*Guest Speaker By Invitation)

Arrowsmith Comprehensive Radial Keratotomy Course, Course Director, Instructor and Lecturer, Nashville. TN -September 1984

American Academy of Ophthalmology Annual Meeting, Official Academy Course, An Analytical Evaluation of Radial Keratotomy, Lecturer: Surgical Technique, Atlanta, GA - November 1984

American Academy of Ophthalmology Annual Meeting, Paper: "Long Term Predictability of Radial Keratotomy", Atlanta, GA - November 1984

Ioptex Lecture Series At American Academy of Ophthalmology Annual Meeting, Lecturer: Radial Keratotomy – Practical Aspects, Atlanta, GA - November 1984 (\*Guest Speaker By Invitation)

Arrowsmith Comprehensive Radial Keratotomy Course - Combined Participants Review and Update, Director and Lecturer, Atlanta, GA - November 1984

Arrowsmith Comprehensive Radial Keratotomy Course, Course Director, Instructor and Lecturer, Nashville, TN -December 1984

Contact Lens Association of ophthalmologists Mid-winter Meeting, Symposium: Keratorefractive Surgery: State of the Art, Paper: "Radial Keratotomy Predictability Factors", San Diego, CA - January 1985 (\* By Invitation)

Contact Lens Association of Ophthalmologists Mid-Winter Meeting, Refractive Surgery Course, Instructor and Lecturer: Refractive Surgery, San Diego, CA - January 1985 (\* Guest Speaker By Invitation)

Minnesota Academy of Ophthalmology and Otolaryngology Meeting, Lecturer: Perspectives on Radial Keratotomy, Minneapolis, MN -February 1985 (\* Guest Speaker By Invitation)

Arrowsmith Comprehensive Radial Keratotomy Course, Director, Instructor and Lecturer, Nashville, TN - February 1985

150th Annual Meeting, Tennessee Academy of Ophthalmology, Paper: "Long Term Predictability of Radial Keratotomy", Memphis, TN - April 1985

The Boston Eye Research Institute, Radial Keratotomy Symposium and Course, Panel Member and Lecturer: Astigmatism Correction Using Transverse Corneal Incisions, Boston, MA -April 1985

Arrowsmith Comprehensive Radial Keratotomy Course, Director, Instructor and Lecturer, Nashville, TN - April 1985

The Virginia Society of Ophthalmology, mc., Annual Meeting, Lecturer: In-Depth Overview of RK, Charlottesville, VA - May 1985 (\* Guest Speaker By Invitation)

1st International Cornea & Eye Banking Symposium, Lecturer and Paper: "New Developments In Radial Keratotomy and Astigmatism Control", San Diego, CA - May 1985 (\* Guest Speaker By Invitation)

Central California Comprehensive Radial Keratotomy Course, Instructor and Lecturer: Predictability of RK, RK Technique I, Introduction to Astigmatism I (Concepts and T Cuts), Long Term Results with RK, RK Techniques II, Reoperation and Patient Work Up, Fresno, CA - May 1985 (\* Guest Speaker By Invitation)

The Sixth Ophthalmology Spring Symposium, Lecturer: Refractive Surgery - An Update, Virginia Beach, VA - June 1985 (\* Guest Speaker By Invitation)

Arrowsmith Comprehensive Radial Keratotomy Course, Course Director, Instructor and Lecturer, Nashville, TN - July 1985

International Society of Refractive Keratoplasty Annual Meeting, Lecturer and Paper: "One-Year Efficacy and Predictability Results of Astigmatism Surgery", San Francisco, CA - September 1985

American Academy of Ophthalmology Annual Meeting, CLA & Scientific Session, Paper: "The Correction of Postoperative Radial Keratotomy Patients with Contact Lenses", San Francisco, CA - September 1985

American Academy of Ophthalmology Annual Meeting, CLAO Scientific Session, Paper: "Radial Keratotomy Is Safe and Predictable", San Francisco, CA - September 1985

American Academy of Ophthalmology Annual Meeting, Official Course, An Analytical Evaluation of Radial Keratotomy, Lecturer: Protocol for Astigmatism Study and Long-Term Results, San Francisco, CA - September 1985

Arrowsmith Comprehensive Radial Keratotomy Course - Combined Participants Review and Update, Director and Lecturer. San Francisco, CA - September 1985

Arrowsmith Comprehensive Radial Keratotomy course, Course Director, Instructor and Lecturer, Nashville, TN -December, 1985

First German Comprehensive Radial Keratotomy Course, Course Director, Instructor and Lecturer, by Invitation, Hamburg, Germany, approximately October 1986

American Society of Cataract and Refractive Surgery, Artisan Implantable Lens for Myopia Course, Prof Worst, "Personal Experience" with OPHTEC Artisan Implantable Lens for Myopia", Seattle, WA, April 1999

Kera Vision Intacs Didactic Course for Optometry, Course Director and Lecturer, Arrowsmith Eye Institute, Nashville, TN, 1999

American Society of Cataract and Refractive Surgery, Artisan Implantable Lens for Myopia Course, Prof Worst, "Personal Experience with and Predictability of OPHTEC Artisan Implantable Lens for Myopia", Boston, MA, May 2000

American Society of Cataract and Refractive Surgery, "Predictability of OPHTEC Artisan Implantable Lens for Myopia", Boston, MA, May 2000

European Society of Cataract and Refractive Surgeons, Artisan Implantable Lens for Myopia Course, Prof Worst, "Personal Experience with and Predictability of OPHTEC Artisan Implantable Lens for Myopia", Brussels, Belgium, Sep 2000

American Society of Cataract and Refractive Surgery, Artisan Implantable Lens for Myopia Course, Prof Worst, "Personal Experience with and Predictability of OPHTEC Artisan Implantable Lens for Myopia", San Diego, CA, April 2001

American Society of Cataract and Refractive Surgery, "Predictability of OPHTEC Artisan Implantable Lens for Myopia", San Diego, CA, April 2001

European Society of Cataract and Refractive Surgeons, Artisan Implantable Lens for Myopia Course, Prof Worst, "Personal Experience with and Predictability of OPHTEC Artisan Implantable Lens for Myopia", Amsterdam, Holland, Sep 2001

International Society of Refractive Surgery, "Predictability of OPHTEC Artisan Implantable Lens for Myopia", New Orleans, LA, Nov 2001

American Society of Cataract and Refractive Surgery, Artisan Implantable Lens for Myopia Course, Prof Worst, "Personal Experience with and Predictability of OPHTEC Artisan Implantable Lens for Myopia", Philadelphia, PA, April 2002

American Society of Cataract and Refractive Surgery, "Predictability of OPHTEC Artisan Implantable Lens for Myopia", Philadelphia, PA, April 2002

European Society of Cataract and Refractive Surgeons, Artisan Implantable Lens for Myopia Course, Prof Worst, "Personal Experience with and Predictability of OPHTEC Artisan Implantable Lens for Myopia", Nice, France, Sep 2002

CustomVue LASIK Didactic Course for Optometry, Course Director and Lecturer, Arrowsmith Eye Institute, Nashville, TN, 2003

Bladeless IntraLASIK Didactic and Live Surgery Course for Optometry, Course Director and Lecturer, Arrowsmith Eye Institute, Nashville, TN, Oct 2006

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## PROFESSIONAL PUBLICATIONS

Optometric Medical Practice Legislation, Publisher and Member of Editorial Staff, January 1981

Radial Keratotomy Clinical Investigational Study: Patient Data Collection Booklet, Author and Publisher - April 1981

Arrowsmith PN, Deitz MR, Marks RO, Sanders DR, Sawelson HR: Radial Keratotomy. ARK Study Group. Edited by DR Sanders, MD. Thorofare, NJ, Slack Publishing - 1984.

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**ARTICLES BASED ON INTERVIEWS WITH PETER N. ARROWSMITH, M.D.:**

"Advise Use of Stringent Criteria For Radial Keratotomy Candidates",  
Ophthalmology Times - October 1983

"Software Product May Be Useful in Predicting Radial Keratotomy Results",  
Ophthalmology Times - November 1983

"Cite Measures to Facilitate Radial Keratotomy", Ophthalmology Times -  
February 1984

"Radial Keratotomy Said to Yield 'Highly Predictable' Results in Most Patients",  
Highlights Issue, Academy Professional Information Services, Inc., Vol. 3, ii -  
February 1985

"Recommend Clinical Software For Improved Patient Care", Ophthalmology  
Times - February 1985

"Study Concludes Computer Model Is Able to Predict Results of RK",  
Ophthalmology Times. - April 1985

"Improved Visual, Refractive Results said Trend in Radial Keratotomy",  
Ophthalmology Times - April 1985

"Long Term Predictability of Radial Keratotomy", Ophthalmology Times ~ 1985

"Radial Keratotomy", Ophthalmology Times ~ 1985

"State of The Art - Refractive Surgery", Ophthalmology Times ~ 1985

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**INSTRUMENTATION DEVELOPMENT**

Radial Keratotomy Incision Ruler, developed in collaboration with Storz  
Instrument Company, St. Louis, MO - 1981 -15P7-22262

Radial Keratotomy Visual Axis Marker, developed in collaboration with Storz  
Instrument Company, St. Louis, MO - 1981 - Prototype

Radial Keratotomy Modified Fixation Ring, developed in collaboration with Storz  
Instrument Company, St. Louis, MO - 1981 - Prototype

Arrowsmith Radial Keratotomy Combined Multiple Optical Zone and Radial  
Marker, developed in collaboration with Katena Products, Denville, NJ - 1984 -  
\*KS-8830 and others in development currently.

Arrowsmith Radial Keratotomy Fixation Forceps, developed in collaboration with  
Katena Products, Denville, NJ - 1984

Straight #K5-3236 Curved IKS-3237 Arrowsmith Radial Keratotomy Transverse  
Incision Marker, Katena Products, Denville, NJ - 1985 - \*K3-8046

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**OPHTHALMIC COMPUTER SOFTWARE DEVELOPMENT**

Ophthalmic Prediction Software, Inc., Co-Founder and Vice President. Clinical  
application microcomputer software for radial keratotomy, intraocular lens power  
calculation, keratomileusis, astigmatism, data base management and statistical  
analysis for radial keratotomy.

LASIKCalc Software for the Calculation and Display of LASIK Treatment Variables and Intraoperative Real-time Computation.

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**PATENTS**

Patent No.: US 6,626,538 B1 Date of Patent: Sep. 30, 2003

“METHOD FOR DETERMINING THE POWER OF AN INTRAOCULAR LENS USED FOR THE TREATMENT OF MYOPIA”, Including Prediction Model Developed by Multiple Regression Analysis

Patent No: US 7,044,604 B1 Date of Patent : May 16, 2006

“METHOD FOR DETERMINING THE POWER OF AN INTRAOCULAR LENS USED FOR THE TREATMENT OF MYOPIA”, Including Enhanced Prediction Model

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**RESEARCH GRANTS**

National Eye Institute research grant R03 EY04237-01 for Analysis of Radial Keratotomy, Consortium participant.

National Eye Institute research grant R01 EY05566-01 for A Long Term Prospective Evaluation of Radial Keratotomy. Ronald G. Marks, Ph.D. Principle Investigator, Peter N. Arrowsmith, M.D., - Co-Principle Investigator. Accepted. Not funded.

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# **Research Studies Conducted at Arrowsmith Eye Institute**

## **Published Studies – Peer Reviewed**

### **Radial Keratotomy**

Arrowsmith PN, Sanders DR, Marks RG. Visual, Refractive and Keratometric Results of Radial Keratotomy. Archives of Ophthalmology 101 873-881 June 1983 (A publication of the American Medical Association)

Arrowsmith PN, Sanders DR, Marks RG Computerized Regression Analysis of Preop and Operative Parameters of Radial Keratotomy. In: Refractive Keratoplasty. Schachar RA, Levy NS, Schachar L, eds., 263-265:Denison, TX, LAL Publishing - 1983

Powers, MK, Meyerowitz BE, Arrowsmith PN, Marks RG: Psychosocial Findings in Radial Keratotomy Patients Two Years After Surgery. Ophthalmology 91 (No 10):October 1984

Arrowsmith PN, Marks RG: Visual Refractive and Keratometric Results of Radial Keratotomy: One-Year Follow-up. Archives of Ophthalmology 102: November 1984

Arrowsmith PN, Marks RG: Evaluating the Predictability of Radial Keratotomy. Ophthalmology 92 (No 3): March 1985

Shivitz IA, Russell EM, Arrowsmith PN, Marks RG: Optical Correction of Postoperative Radial Keratotomy Patients with Contact Lenses. CLAO 12: January 1986.

IA Shivitz and PN Arrowsmith. Delayed Keratitis After Radial Keratotomy. Archives of Ophthalmology 1986 104: 1153-1155 (A publication Of the American Medical Association)

Arrowsmith PN, Marks RG: Visual, Refractive and Keratometric Results of Radial Keratotomy: Two-Year Follow up. Archives of Ophthalmology 105: January 1987.

IA Shivitz, PN Arrowsmith, and BM Russell. Contact Lenses In The Treatment Of Patients With Overcorrected Radial Keratotomy. Ophthalmology 1987 94: 899-903

IA Shivitz and PN Arrowsmith. Corneal Sensitivity After Radial Keratotomy. Ophthalmology 1988 95:827-832

PS Binder, GO Waring, PN Arrowsmith, and C Wang. Histopathology of Traumatic Corneal Rupture After Radial Keratotomy. Archives of Ophthalmology 1988 106: 1584-1590

Arrowsmith PN, Marks RG: Four-Year Update on Predictability of Radial Keratotomy. Journal of Refractive Surgery 1988 Vol 4, No. 2, pp 37-45

Arrowsmith PN, Marks RG: Visual Refractive and Keratometric Results of Radial Keratotomy: Five-Year Follow-up. Archives of Ophthalmology 1989 107: 506-511

### **Artisan Lens for Myopia**

R. Doyle Stulting, MD, PhD, Maurice E. John, MD, Robert K. Maloney, MD, Kerry K. Assil, MD, Peter N. Arrowsmith, MD, and Vance M. Thompson, MD, for the US Verisyse Study Group. Three-Year Results of Verisyse Phakic Intraocular Lens Implantation: Results of the US FDA Clinical Trial. To be submitted for publication November 2006. Ophthalmology.

## **FDA Clinical Trials**

### **Laser-Assisted In Situ Keratomileusis (LASIK) Studies**

#### **CRS-USA, Inc., Sponsor 1996-1999**

##### Myopic LASIK

CRS-L197 5.0V FDA FDA IDE# G960186

CRS-L197 4.0V

##### Myopic/Astigmatic LASIK

CRS-L197 5.0V FDA FDA IDE# G960186

CRS-L197 4.0V

##### High Myopic/Astigmatic LASIK

CRS-L197 5.0V FDA FDA IDE# G960186

CRS-L197 4.0V

##### Myopic LASIK After Previous Corneal Surgery

CRS-L197 5.0V FDA FDA IDE# G960186

CRS-L197 4.0V

Hyperopic/Astigmatic LASIK, Consecutive Hyperopic or Hyperopic/Astigmatic LASIK After Previous Corneal Surgery (Expansion)

CRS-L298 7.2      FDA IDE# G960186

CRS-L298 6.2

Hyperopic LASIK Sub Study B

CRS-L297 2.2      FDA IDE# G960186

**SurgiVision Refractive Consultants, LLC, Sponsor 2000-2003**

Clinical Study of the WaveLight Allegretto for Myopic LASIK

MSC-L 1.4, 1.5      FDA IDE# G990317      1/2000      Myopia 0 to -14D,  
Astigmatism 0 to +6D

Clinical Study of the WaveLight Allegretto for Myopic LASIK

MSC-L 3.1, 3.3      FDA IDE# G990317 (Expansion A) 12/2000, 1/2002  
Myopia 0 to -14D, Astigmatism 0 to +6D      For PMA

Clinical Study of the WaveLight Allegretto for Hyperopic LASIK

MSC-L 4.2      FDA IDE# G990317 (Expansion B) 8/2001  
Hyperopia 0 to +6D, Astigmatism 0 to +6D      For PMA

**Artisan Implantable Lens (Phakic IOL) Studies**

**OPHTEC USA, Inc., Sponsor      1997-2004**

Artisan Myopic Lens Implant

333 WIRB      FDA IDE# G970147

Artisan Hyperopic Lens Implant

666 WIRB      FDA IDE# G970147