



Optical Express

Ms. Marguerite McDonald

MD
IMAB Member

Ms. McDonald is the Cornea/refractive/anterior segment specialist, Ophthalmic Consultants of Long Island, Lynbrook, NY. She is presently an Adjunct Clinical Professor of Ophthalmology at Tulane University School of Medicine in New Orleans and a Clinical Professor of Ophthalmology at New York University (NYU) in Manhattan. Dr McDonald is a staff physician at Manhattan Eye Ear and Throat Hospital in New York City, as well as at the Island Eye Center in Carle Place, New York.

Ms. McDonald was a Professor of Ophthalmology and Director of the Corneal Service at the LSU Eye Center, LSU Medical Center School of Medicine, New Orleans, as well as the Chairman of the LSUMC Promotion and Tenure Committee until September 1994.

She is currently a senior consultant for VISX, and was previously the Medical Director for Alcon/Summit/Autonomous. Ms. McDonald was also a principal investigator for the Chiron Technologies (now Bausch and Lomb) and Nidek EC 5000 lasers.

Dr McDonald received her medical degree from Columbia University College of Physicians and Surgeons, followed by an internship at Lenox Hill Hospital and ophthalmology residency at Manhattan Eye Ear and Throat Hospital/Cornell, both in New York City, and a fellowship in corneal and external diseases with Dr. Herbert E. Kaufman at the LSU Eye Center in New Orleans. Ms. McDonald joined the faculty at the LSU Eye Center in 1981. Since then she has become well known in the field of refractive surgery, with 477 abstracts, 79 books and book chapters, 45 interviews/panel discussions/CD ROMs/videos, and 179 peer reviewed and 280 non-peer reviewed articles published on various refractive topics. Ms. McDonald has been the principal investigator of three National Eye Institute grants for the study of refractive surgery: radial keratotomy [at the LSU Clinical Center for the Prospective Evaluation of Radial Keratotomy (PERK) study], epikeratophakia, and excimer laser photorefractive keratectomy, as well as numerous industrial grants.

In New Orleans, Ms. McDonald headed the research team investigating the use of the excimer laser for the correction of optical error, and in 1987, performed the world's first excimer laser treatment to eliminate or reduce the need for glasses and contact lenses. Ms. McDonald treated blind and fully sighted patients in 1988; both groups were treated for nearsightedness. In 1993, she performed the world's first excimer laser surgeries for farsightedness as well.

On October 12, 1999, Ms. McDonald performed the world's first Summit/Autonomous wavefront-based excimer laser surgeries; these cases were also the first wavefront-based laser surgeries in the U.S. This breakthrough is considered the first step on the road to "super-normal" vision, i.e., the routine attainment of better-than-20/20 uncorrected vision with minimal aberrations and much improved night vision.

Ms. McDonald was the second physician in the United States and the third physician in the world to perform

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CK (Conductive Keratoplasty) for farsightedness. Ms. McDonald was the medical monitor of the U.S. clinical trials which led to FDA approval for CK.

Ms. McDonald was the first North American surgeon to perform Epi-LASIK in September 2003.

- James S. Adams Scholar Award from Research to Prevent Blindness, Inc.
- Lans Distinguished Refractive Surgeon Lecture by the International Society of Refractive Keratoplasty (ISRK)
- Appointment to the Board of Directors of the International Society of Refractive Surgery and the American Society of Cataract and Refractive Surgery (ASCRS)
- The Honor Award from the American Academy of Ophthalmology
- Election as a Fellow to the American College of Surgeons
- Chosen to give the 1993 Barraquer Lecture at the American Academy of Ophthalmology meeting in Chicago in November
- Gave the Akef El Maghraby Lecture in Marrakesh, Morocco, April 1995 entitled, "Refractive Surgery Becomes of Age"
- Gave the Edward J. Curran, MD Memorial Lecture in Kansas City at the Eyecon Meeting in May 1995
- Received the 1994 Steven L. Trokel Award presented by Alcon/VISX at the Annual Global User's Meeting in Lisbon, Portugal
- Deborah Iverson Inaugural Lecture, 1997
- Irving H. Leopold Lecture in Philadelphia, 1999
- Phillip P. Ellis Lecture, Denver, 1999
- Nominee for the Distinguished Women Physician award, Women in Medicine Committee of Metro New Orleans, 1999 by the American Medical Association
- Summit Technologies Pioneer of Refractive Surgery award, 1999
- Adrien Gladys Drouilhet Visiting Professor in Ophthalmology Lecture, 1999
- 62nd Annual George E. de Schweinitz Memorial Lecture, The College of Physicians of Philadelphia, Nov.1999
- Whitney Sampson Lecture, American Academy of Ophthalmology, 2000
- Binkhorst Lecture, American Academy of Ophthalmology, 2001
- Lifetime Achievement Award, International Society of Refractive Surgery, 2001
- Modern-Day Visionaries, Ocular Surgery News, Orlando, FL, 2002
- Woman of the Year: A Tribute to 40 Outstanding Local Women, CityBusiness, November 2002
- Suzanne Veronneau-Troutman Award, Women in Ophthalmology, November 2003
- Rayner Medal, September 2004, United Kingdom
- Australian Society of Cataract and Refractive Surgery (AUSCRS) Gold Medal Lecturer, August 2005.
- One of 50 Top Opinion Leaders in Cataract and Refractive Surgery Today, April 2006.
- Recipient of the American Academy of Ophthalmology's Secretariat Award, June 2006
- Best Doctors in America from 1992 to 2006
- One of the Best Posters at AAO 2006 Meeting
- Recipient of the American Academy of Ophthalmology' Joint Meeting
- Secretariat Award. November 2006
- Glover-Lisman Lecturer
- Best Doctors in America 1992-2008

Professional memberships encompass a broad spectrum of local, national, international clinical and

scientific activities including:

- Alpha Omega Alpha Medical Honor
- American Academy of Ophthalmology
- American Association for the Advancement of Science
- American College of Surgeons
- American Medical Association
- American Medical Women's Association
- Association for Research in Vision and Ophthalmology (ARVO)
- Castroviejo Corneal Society
- Contact Lens Association of Ophthalmologists
- Eye Bank Association of America (R. Townly Paton, MD, Society)
- International Corneal Laser Society
- International Society of Refractive Keratoplasty
- American Society of Refractive and Cataract Surgery (Past President)
- Louisiana Medical Women Association
- Louisiana-Mississippi O&O Society
- New Orleans Academy of Ophthalmology
- New York Academy of Science
- Orleans Parish Medical Society
- Academy for Experimental Biology and Medicine
- Board of Directors of the Lasik Institute
- Advanced Medical Optics Global Scientific Advisory Board
- VISX Domestic Advisory Board
- VISX Global Advisory Board
- Ophthalmic Women Leaders (OWL), founding member of Advisory Board
- Editorial Board, Journal Ophthalmologia
- Advisory Board, Italian Society of Refractive Surgery
- Board Member, Institute of Presbyopia and Accommodation Research
- Women in Ophthalmology
- Scientific Advisory Board, Altos Pharmaceuticals
- Society of Industry Leaders, sponsored by Vista Research, a division of Standard and Poor's
- Alacrity Scientific Advisory Board
- Refractive Surgery Section Editorial Board of OSN
- ISRS/AAO-Executive Committee as a Ex-Officer
- AzaSite Advisory Board Member
- Ophthalmic Surgery, Lasers and Imaging Board Member
- New York Kerato Refractive Society
- Men's Fitness Magazine Board of Advisors
- Aier Eye Hospital Journal Advisory Board
- President Elect of the ISRS/AAO 2008-2010
- ISRS/AAO-Executive Committee Chairperson 2007-2008

Ms. McDonald recently served as the chief medical editor for Channel 6 News, the NBC affiliate in New Orleans; she made frequent in-person appearances covering medical topics. Ms. McDonald has also been featured on a segment of "Good Morning America".