

Karim Sleiman, MD

Clinical Assistant Professor of Ophthalmology
Ext. 5926

karim.sleiman@laumcrh.com



Dr. Karim Sleiman is an ophthalmologist specializing in corneal and cataract surgery. He currently serves as a Clinical Assistant Professor of Ophthalmology at the Lebanese American University Medical Center – Rizk Hospital (LAUMCRH).

Dr. Sleiman brings extensive expertise in advanced eye care, focusing on corneal surgeries and cutting-edge cataract surgery techniques.

Dr. Sleiman earned his Doctor of Medicine from the American University of Beirut. He completed his residency in Ophthalmology at the Lebanese American University and further specialized by undertaking a Clinical and Surgical Fellowship in Cornea and Ocular Surface Disease at Tufts University in Boston, Massachusetts. In addition, he pursued a Post-Doctoral Fellowship at Duke University in Durham, North Carolina, focusing on ocular imaging and machine learning applications in ophthalmology. Prior to his specialization in ophthalmology, Dr. Sleiman completed his Internal Medicine Residency at the University of Tennessee.

Dedicated to both clinical practice and academia, Dr. Sleiman is passionate about improving patient outcomes through innovative research and compassionate care. His professional interests lie in cataract and corneal surgeries, as well as ocular imaging. In addition to his clinical work, he is actively involved in research, particularly focusing on the application of data science and epidemiological studies in ophthalmology. Beyond his academic and clinical duties, Dr. Sleiman volunteers with international organizations aimed at providing essential vision care to underserved populations. Through his humanitarian efforts, he strives to make high-quality eye care accessible to those in need.

Dr. Sleiman is an active member of the Lebanese Epidemiological Association and serves as a consultant for MaaDATA Group Statistical Consulting Center in Beirut. He has contributed to numerous peer-reviewed publications, including research on myopia prevalence and risk factors, and the use of machine learning in predicting age-related macular degeneration progression.

Selected Publications & Book Chapters:

- Sleiman K, Damaj A, Mohamad Ali H, et al. Myopia prevalence and risk factors among medical trainees in Lebanon. *Saudi J Ophthalmol.* 2023
- Lad E, Sleiman K, Banks DL, et al. Machine learning OCT predictors of progression from intermediate age-related macular degeneration to geographic atrophy and vision loss. *Ophthalmology Science.* 2022 Jun.
- Sleiman K, Veerappan M, McCall M, et al. OCT predictors of risk for progression to non-neovascular atrophic AMD. *Ophthalmology.* 2017
- Antonios R, Abdul Fattah M, Arba Mosquera S, et al. Single-step transepithelial PRK versus alcohol-assisted PRK in the treatment of high myopia: A comparative evaluation over 12 months. *British Journal of Ophthalmology.* 2017 Aug.
- El-Dairi MA, Sleiman K. Chapter 12 Optic Neuritis Associated with Neuromyelitis Optica. In: Heidary G, Phillips PH, eds. *Fundamentals of Pediatric Neuro-Ophthalmology.* Springer Nature; 2023.
- Sleiman AK, Sadler L, Nemer G. Human Genetics of Tricuspid Atresia and Univentricular Heart. In: Rickert-Sperling S, et al., eds. *Congenital Heart Diseases: Clinical Features, Human Genetics and Molecular Pathways.* Springer Vienna; 2016.

Full PubMed Bibliography available at: tinyurl.com/ksleiman

Dr. Sleiman is also a member of several professional organizations, including the American Academy of Ophthalmology. His clinical and academic contributions continue to advance the field of ophthalmology, and he remains committed to both patient care and the education of future generations of eye specialists.