

# Mohammadreza Akhlaghi

**School:** Isfahan University of Medical Science

**Department:** Ophthalmology

**Academic Rank:** associate professor

**Birth Date:** 12/03/1966

**Birth Place:** Isfahan, Iran

**Marital Status:** Married

**Address:** Feiz Eye hospital (Eye Research Center) Isfahan  
University of Medical sciences, Quds sq. Feiz Hospital,  
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➤ **Graduate training,** Tehran University of Medical Sciences Tehran - Iran,

1989-1997

Graduation: Noveber1997, M.D, Tehran University of Medical Sciences.

➤ **General Ophthalmology,** Feiz Hospital      Isfahan university of medical sciences    Isfahan, Iran  
2000-2004

➤ **Fellowship**

2005-2007, Clinical Fellowship in Vitreous and retina, 18 Months at Feiz Hospital    Isfahan University of Medical Sciences.

## Ophthalmology Service

Feiz Hospital, Isfahan University of Medical Sciences Associate

professor of Ophthalmology:

## Field of Interest

1)Diabetic retinopathy

2) Retinal detachment

## Background Ophthalmology Service

1) Assistant professor of ophthalmology, Isfahan University of Medical Sciences since 2007.

2)Associate professor of ophthalmology, Isfahan University of Medical Sciences since 2012

3)Deputy executive of Isfahan eye research center, Isfahan University of Medical Sciences of 2007-2015

4) Vice Chancellor of the school of medicine, Isfahan University of Medical Sciences of 2008-2012

- 5) Deputy of education of ophthalmology group, Isfahan University of Medical Sciences since 20014
- 6) Deputy of research of ophthalmology group, Isfahan University of Medical Sciences of 2008-2016

### Membership

- 1) Member of Iranian Society of Ophthalmology, since 2007.

### Books

- 1- Approach to common eye complaints. Published in 2013. Iran.

### Papers

1. Peyman A, Pourazizi M, **Akhlaghi** M, Feizi A, Rahimi A, Soltani E. Stereopsis after corneal refractive surgeries: a systematic review and meta-analysis. *International ophthalmology*. 2022.
2. Kianersi F, Masjedi M, Razmjoo H, Ghanbari H, Fazel F, Dehghani A, **Akhlaghi** M, et al. Comparison of Indocyanine Green Angiography and Fluorescein Angiography for Imaging of Central Serous Chorioretinopathy Patients as Candidates for Photodynamic Therapy. *Journal Français d'Ophtalmologie*. 2022;45(3):338-43.
3. Alizadeh Eghtedar R, Esmaeili M, Peyman A, **Akhlaghi** M, Rasta SH. An Update on Choroidal Layer Segmentation Methods in Optical Coherence Tomography Images: a Review. *Journal of biomedical physics & engineering*. 2022;12(1):1-20.
4. Nasrollahi K, Farahi A, Paknazar F, **Akhlaghi** M, Fazel F, Zarepur E, et al. Intima-Media Thickness Measurements of the Common Carotid Artery in Patients with Central Serous Chorioretinopathy: A Case-Control Study. *Journal of ophthalmology*. 2021;2021:6652373.
5. Montazerin M, Sajjadifar Z, Khalili Pour E, Riazi-Esfahani H, Mahmoudi T, Rabbani H, et al. Livelayer: a semi-automatic software program for segmentation of layers and diabetic macular edema in optical coherence tomography images. *Scientific reports*. 2021;11(1):13794.
6. Mahmudi T, Kafieh R, Rabbani H, Mehri A, **Akhlaghi** MR. Evaluation of Asymmetry in Right and Left Eyes of Normal Individuals Using Extracted Features from Optical Coherence Tomography and Fundus Images. *Journal of medical signals and sensors*. 2021;11(1):12-23.

7. Haghani A, Kafieh R, **Akhlaghi M**. The Improvement of Extraction Retinal Pigment Epithelium (RPE) Layer in Optical Coherence Tomography (OCT) Images by Using Piecewise Dynamic Programming Method in Patients with Persistent Epithelial Defect (PED). *Journal of Isfahan Medical School*. 2021;39(637):594-603.
8. **Akhlaghi M**, Kianersi F, Radmehr H, Dehghani A, Naderi Beni A, Noorshargh P. Evaluation of optical coherence tomography angiography parameters in patients treated with Hydroxychloroquine. *BMC ophthalmology*. 2021;21(1):209.
9. Agharokh S, **Akhlaghi MR**, Kianersi F, Dehghani A, Jahanbani-Ardakani H, Abtahi SH. Short-Term Effects of Photodynamic Therapy on Segmentation of Retinal Layers in Central Serous Chorioretinopathy. *Advanced biomedical research*. 2021;10:34.
10. Jalili J, Rabbani H, Dehnavi AM, Kafieh R, **Akhlaghi M**. Forming Optimal Projection Images from Intra-Retinal Layers Using Curvelet-Based Image Fusion Method. *Journal of medical signals and sensors*. 2020;10(2):76-85.
11. Dehghani A, Ghanbari H, **Akhlaghi M**, Kianersi F, Alemzadeh-Ansari MH. Peripapillary and macular choroidal thickness in both eyes of patients with acute unilateral retrobulbar optic neuritis. *Taiwan journal of ophthalmology*. 2020;10(3):184-8.
12. **Akhlaghi M**, Zarei M, Ziaei M, Pourazizi M. Sensitivity, Specificity, and Accuracy of Color Doppler Ultrasonography for Diagnosis of Retinal Detachment. *Journal of ophthalmic & vision research*. 2020;15(2):166-71.
13. Tayebi N, Akinrinade O, Khan MI, Hejazifar A, Dehghani A, Cremers FPM, et al. Targeted next generation sequencing reveals genetic defects underlying inherited retinal disease in Iranian families. *Molecular vision*. 2019;25:106-17.
14. Mokhtari M, Rabbani H, Mehri-Dehnavi A, Kafieh R, **Akhlaghi M-R**, Pourazizi M, et al. Local comparison of cup to disc ratio in right and left eyes based on fusion of color fundus images and OCT B-scans. *Information Fusion*. 2019;51:30-41.
15. Ghanbari H, Pirhaji O, **Akhlaghi M**. The Effect of Laser Diode MicroPulse Laser in Patients with Acute Central Serous Retinopathy in Comparison with Control Group: A Clinical Trial Study. *Journal of Isfahan Medical School*. 2019;37(524):412-8.
16. **Akhlaghi MR**, Salehi A, Mortazavi AA, Shafieion M, Ansari R. Impact of practice on goat's eye on surgical skill development in sophomore ophthalmology residents. *Journal of Surgery and Trauma*. 2019;7(1):26-33.
17. **Akhlaghi MR**, Ansari R. Process of launching wet lab to perform cataract surgery on goat's eye. *Journal of Surgery and Trauma*. 2019;7(2):40-1.

18. **Akhlaghi M**, Dehghani A, Pourmohammadi R, Asadpour L, Pourazizi M. Effects of subthreshold diode micropulse laser photocoagulation on treating patients with refractory diabetic macular edema. *Journal of current ophthalmology*. 2019;31(2):157-60.
19. **Akhlaghi M**, Abtahi-Naeini B, Pourazizi M. Acute vision loss in systemic lupus erythematosus: bilateral combined retinal artery and vein occlusion as a catastrophic form of clinical flare. *Lupus*. 2018;27(6):1023-6.
20. Dehghani A, Razmju H, Ghanbari H, Fazel F, Kianersi F, Salehi A, et al. Epidemiologic Assessment of Pars Plana Vitrectomy in Feiz Ophthalmology Center, Isfahan, Iran, during 2011 to 2015. *Journal of Isfahan Medical School*. 2017;35(431):591-7.
21. **Akhlaghi MR**, Nasrollahi C, Namgar SM, Kianersi F, Dehghani AR, Arefpour R. Effect of Intravitreal Injection of Bevacizumab on Acute Central Serous Chorioretinopathy Patients Who Visited Feiz Hospital during 2014-2015 Period. *Advanced biomedical research*. 2017;6:125.
22. Mokhtari M, Rabbani H, Mehridehnavi A, **Akhlaghi M**. Local Comparison of Cup-to-Disc Ratio in Right and Left Eyes via Optical Coherence Tomography B-Scans of Optic Nerve Head. *Journal of Isfahan Medical School*. 2016;33(367):2381-7.
23. Jamshidimadad A, Dehghani A, Kianersi F, Golabchi K, Ghanbari H, **Akhlaghi M**. Comparison of the Effects of the Pattern Scan and Conventional Single Spot Panretinal Photocoagulation in Patients with Proliferative Diabetic Retinopathy; A Randomized Clinical Trial. *Journal of Isfahan Medical School*. 2016;33(365):2288-95.
24. Dehghani A, Ramsheh AR, Peyman A, Pourmohammadi R, **Akhlaghi MR**, Rezaei L, et al. Bandage Contact Lens for Ultraviolet Light Photo keratitis. *International Journal of Medical Research and Health Sciences*. 2016;5:285-7.
25. Soltanipour A, Sadri S, Rabbani H, **Akhlaghi MR**. Analysis of Fundus Fluorescein Angiogram Based on the Hessian Matrix of Directional Curvelet Sub-bands and Distance Regularized Level Set Evolution. *Journal of medical signals and sensors*. 2015;5(3):141-55.
26. Mohammadi Z, Dehghani A, Ghanbari HO, **Akhlaghi MR**, Nasrollahi K, Salam H. Ocular manifestations in a child with systemic brucellosis. *Journal of research in medical sciences : the official journal of Isfahan University of Medical Sciences*. 2014;19(7):677-9.
27. Hajeb Mohammad Alipour S, Rabbani H, **Akhlaghi M**. A new combined method based on curvelet transform and morphological operators for automatic detection of foveal avascular zone. *Signal, Image and Video Processing*. 2014;8(2):205-22.

28. Fesharaki H, Azizzadeh A, Ghoreishi SM, Fasihi M, Badii S, Rezaei L. The effects of lateral head tilt on ocular astigmatic axis. *Advanced biomedical research* [Internet]. 2014 2014; 3:[10 p.]
29. Soltanipour A, Sadri S, Rabbani H, **Akhlaghi M**, Doost-Hosseini A, editors. Vessel centerlines extraction from Fundus Fluorescein Angiogram based on Hessian analysis of directional curvelet subbands. 2013 IEEE International Conference on Acoustics, Speech and Signal Processing; 2013 26-31 May 2013.
30. Mahmudi T, Kafieh R, Rabbani H, Mehri Dehnavi A, **Akhlaghi MR**, Arbabian K, et al. Evaluation of Asymmetry of Retinal Nerve Fiber Layer and Total Retina in Right and Left Eyes of Normal Subjects Using Extracted Features from Optical Coherence Tomography. *Journal of Isfahan Medical School*. 2013;31(247):1185-93.
31. Jalili J, Rabbani H, Mehri Dehnavi A, **Akhlaghi MR**. Formation and Fusion of Projection Images from 11 Layers of Retina Using Statistical Indicators to Obtain an Image with Appropriate Contrast from the Retinal Depth. *Journal of Isfahan Medical School*. 2013;31(255):1598-607.
32. Dehghani A, Razmjoo H, Fazel F, Karami M, Etesampour A, Ghanbari H, et al. The comparison of retinal blood flow after scleral buckling surgery with or without encircling procedure. *Journal of research in medical sciences : the official journal of Isfahan University of Medical Sciences*. 2013;18(3):222-4.
33. **Akhlaghi MR**, Vafamehr V, Dadgostarnia M, Dehghani A. Integrated surgical emergency training plan in the internship: A step toward improving the quality of training and emergency center management. *Journal of education and health promotion*. 2013;2:60.
34. Razmju H, Rezaei L, Dehghani A, Rismanchian A, Peyman A, **Akhlaghi M**, et al. Clinical Evaluation of Drug Induced Acute Angle Closure Glaucoma. *Bina Journal of Ophthalmology*. 2012;17(2):186-90.
35. Razmju H, **Akhlaghi MR**, Tavakoli M. Evaluation of intravitreal injection of bevacizumab (Avastin) in treatment of diabetic macular edema in patients referring to Feiz Eye Hospital, Isfahan, Iran. *JOURNAL OF RESEARCH IN MEDICAL SCIENCES*. 2012;17:S79-S82.
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37. Hajeb Mohammad Alipour S, Rabbani H, **Akhlaghi MR**. Diabetic Retinopathy Grading by Digital Curvelet Transform. *Computational and mathematical methods in medicine*. 2012;2012:761901.

38. Fesharaki H, Peyman A, Rowshandel M, Peyman M, Alizadeh P, **Akhlaghi M**, et al. A comparative study of complications of cataract surgery with phacoemulsification in eyes with high and normal axial length. *Advanced biomedical research*. 2012;1:67.
39. Dehghani A, Giti M, **Akhlaghi MR**, Karami M, Salehi F. Ultrasonography in distinguishing optic neuritis from nonarteritic anterior ischemic optic neuropathy. *Advanced biomedical research*. 2012;1:3.
40. Alipour SH, Rabbani H, **Akhlaghi M**, Dehnavi AM, Javanmard SH. Analysis of foveal avascular zone for grading of diabetic retinopathy severity based on curvelet transform. *Graefe's archive for clinical and experimental ophthalmology = Albrecht von Graefes Archiv fur klinische und experimentelle Ophthalmologie*. 2012;250(11):1607-14.
41. Razmjoo H, Rezaei L, Fesharaki H, Nasrollahi K, Peyman A, **Akhlaghi MR**. The Effect of Photorefractive Keratectomy with Technolas 217z and Lasersight LSX Excimer Laser Systems on the Refractive Errors Correction. *Journal of Isfahan Medical School*. 2011;29(136):467-74.
42. Razmjoo H, Attarzadeh H, Rezaei L, Ahmadian H, Nasrollahi K, **Akhlaghi M**, et al. Photorefractive Keratectomy for Correction of Hyperopia Over 3 Diopters after 1 Year. *Journal of Isfahan Medical School*. 2011;29(133):353-61.
43. Razmjoo H, Rezaei L, Dehghani A, Peyman A, **Akhlaghi M**. Bilateral angle-closure glaucoma in a young female receiving cabergoline: a case report. *Case reports in ophthalmology*. 2011;2(1):30-3.
44. Fazel F, Mortazavi SAA, **Akhlaghi MR**, Einy S. Results of Conjunctive Flap in Patients with Active Corneal Ulcer. *Journal of Isfahan Medical School*. 2011;28(118).
45. Dehghani M, Omid A, Ashourion v, Avizhgan M, Esmaeilee A, **Akhlaghi MR**, et al. Program Evaluation: A Different Function for Logbook. *Iranian Journal of Medical Education*. 2011;10(5):767-74.
46. Dehghani AR, Masjedi A, Fazel F, Ghanbari H, **Akhlaghi M**, Karbasi N. Endogenous Klebsiella Endophthalmitis Associated with Liver Abscess: First Case Report from Iran. *Case reports in ophthalmology*. 2011;2(1):10-4.
47. Avizhgan M, Omid A, Dehghani M, Esmaeili A, Asilian A, **Akhlaghi MR**, et al. Determining Minimum Skill Achievements in Advanced Clinical Clerkship(Externship) in School of Medicine Using Logbooks. *Iranian Journal of Medical Education*. 2011;10(5):543-51.
48. Fazel F, Dehghani A, **Akhlaghi MR**, Rezaei L, Peyman A, Shojaei SM, editors. POSTOPERATIVE PAIN AFTER COOLING PRK2010.

49. RAZMJOU H, RAZMJOU M, TAVAKOLI M, **AKHLAGHI** MR, RISMANCHIAN A, DEHGHANI AR, et al. COMPARISON OF INTRAOCULAR PRESSURE MEASUREMENT WITH THE NONCONTACT PULSAIR 3000 TONOMETER AND GOLDMANN APPLANATION TONOMETER. BINA. 2009;14(4 (57)):-.
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53. Alipanahi R, Mostafaie A, **Akhlaghi** MR. Subconjunctival Mitomycin-C Injection Results after Revision Failed Trabeculectomy Bleb. Med J Tabriz Uni Med Sciences Health Services. 2009;31(1):49-52.
54. Salehi A, Meamarzadeh SE, **Akhlaghi** M, Rismanchian A, Jafari A. Effect of Ramadan fasting on physiologic myopia. Journal of Shahrekord Uuniversity of Medical Sciences. 2008;10.
55. Razmju H, Shaygannejad V, Dehghan A, **Akhlaghi** M, Saberi A. Subtenon Injection of botulinum toxin a in acute sixth nerve palsy; a randomized clinical trial. Bina Journal of Ophthalmology. 2008;13(2):222-6.
56. Razmjoo H, **Akhlaghi** MR, Dehghani AR, Peyman AR, Sari-Mohammadli M, Ghatreh-Samani H. Stereoacuity following LASIK. Journal of ophthalmic & vision research. 2008;3(1):28-31.
57. Moeini HA, Eslami F, Rismanchian A, **Akhlaghi** MR, Najafian Jazi A. COMPARISON OF ULTRASOUND AND OPTIC BIOMETRY WITH RESPECT TO EYE REFRACTIVE ERRORS AFTER PHACOEMULSIFICATION. JOURNAL OF RESEARCH IN MEDICAL SCIENCES (JRMS). 2008;13(2):43-7.
58. Moeini H, Vahdatpour B, **Akhlaghi** M, Mortazavi A, Ghanbari H, Salehi A, et al. Evaluation of Ophthalmologists' Sitting Position. Bina Journal of Ophthalmology. 2008;14(1):44-9.
59. Kian-Ersi F, Taheri S, **Akhlaghi** MR. Ocular disorders in renal transplant patients. Saudi journal of kidney diseases and transplantation : an official publication of the Saudi Center for Organ Transplantation, Saudi Arabia. 2008;19(5):751-5.

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61. FAZEL F, **AKHLAGHI** MR, MOEINI HA, EMAMI MH, PARASTEGARI F. EPIDEMIOLOGY OF OCCUPATION-RELATED OCULAR TRAUMA IN ESFAHAN. *IRANIAN SOUTH MEDICAL JOURNAL (ISMJ).* 2008;10(2):-.
62. DEHGHANI AR, TAVAKOLI M, **AKHLAGHI** MR, NADERI A, ESLAMI F. PREVALENCE OF OCULAR SYMPTOMS AND SIGNS AMONG PROFESSIONAL COMPUTER USERS IN ISFAHAN, IRAN. *JOURNAL OF RESEARCH IN MEDICAL SCIENCES (JRMS).* 2008;13(6):-.
63. Nasrolahi K, Atarzade H, **Akhlaghi** M, Rismanchian A, Moini H, Mortazavi A, et al. Patterns of visual field loss in patients with open angle glaucoma. *Bina J Ophthalmol.* 2007;13(1):65-71.
64. Moeini H, Rismanchian A, Dehghani A, Fazel F, Loghmanian L, **Akhlaghi** M. Dry eye following keratorefractive surgery. *Bina J Ophthalmol.* 2007;12(4):467-72.
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74. Fakhrzade H, Poor-Ebrahim R, **Akhlaghi M**. Economic cost of coronary disease in oil industry. South medicine magazine. 2000;3(1):45-52.

### **Oral presentation**

Oral presentations in Iranian annually seminar and congress of Ophthalmology since 2008 until now.