

## CURRICULUM VITAE

### LAMA A. AL-ASWAD, MD, MPH

#### Contact Information

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#### Additional Information

Place of Birth: Daraa, Syria

#### Current Appointments and Leadership Positions

##### Faculty Appointment

<b>Year</b>	<b>Academic Title</b>	<b>Institution</b>
6/25/1997- 6/24/1998	Teaching Associate in Medicine.	Boston University School of Medicine Boston, MA
7/1/1998 - 6/30/01	Clinical Assistant Instructor (HS) Department of Ophthalmology	State University of New York, Downstate Brooklyn, NY
1/30/02 - 6/30/02	Instructor in Clinic. Department of Ophthalmology	Columbia University New York, NY
7/1/2002-6/30/2003	Clinical Instructor Department of Ophthalmology	University of Tennessee Health Science Center Memphis, TN
7/14/2003- 4/30/2012	Assistant Professor of Clinical Ophthalmology	Columbia University, College of Physicians and Surgeons New York, NY
5/1/2012- 5/31/2013	Associate Professor of Clinical Ophthalmology	Columbia University, College of Physicians and Surgeons New York, NY
6/1/2013- present	Associate Professor of Ophthalmology	Columbia University, College of Physicians and Surgeons New York, NY

##### Hospital Appointment

7/15/2003 – present	Attending	New York Presbyterian Hospital New York, NY
01/30/02 - 06/30/02	Assistant attending	Harlem Hospital

### **Administrative Leadership Positions**

<b>Year</b>	<b>Academic Title</b>	<b>Institution</b>
3/1/2013- Present	Glaucoma Fellowship Director Department of Ophthalmology	Columbia University, College of Physicians and Surgeons New York, NY
6/1/2015- present	Chair of Quality Assurance and Patient Safety Department of Ophthalmology	Columbia University, College of of Physicians and Surgeons New York, NY
2016- present	Billing compliance leader. Department of Ophthalmology	Harkness Eye Institute, Columbia University, College of Physicians and Surgeons New York, NY
5/1/2017- present	Director, Tele-ophthalmology Initiative Department of Ophthalmology	Columbia University, College of Physicians and Surgeons New York, NY

### **Education and Training**

<b>Education Year</b>	<b>Degree</b>	<b>Field</b>	<b>Institution</b>
9/30/1993	MD	Medicine	Damascus University Medical School Damascus, Syria
1995			USMLE Certificate
2013-2015	MPH	Public Health	Executive MPH in health Care Management and Policy Mailman School of Public Health Columbia University

### **Postdoctoral Training**

<b>Year</b>	<b>Position/Specialty</b>	<b>Place of Training</b>
8/1/94 - 1/30/95	Research Assistant In Ophthalmology	Massachusetts Eye and Ear Infirmary Boston, MA
2/1/95 – 6/30/97	Research Fellowship in Ophthalmology.	Massachusetts Eye and Ear Infirmary Harvard Medical School, Boston, MA
10/1/96- 10/31/96	Clerkship in Medicine	Mass General Hospital, Harvard Medical School, Boston, MA
7/1/97 – 6/30/98	Intern, internal medicine	Boston University School of Medicine Boston, MA
7/1/98 - 6/30/01	Resident, Ophthalmology	State University of New York, Downstate, Brooklyn, NY

7/1/00 – 6/30/01	Chief Resident, Ophthalmology	State University of New York, Downstate, Brooklyn, NY
7/1/01 - 9/28/01	Cornea and Refractive Surgery extra studies	New York Eye and Ear Infirmary
7/1/02 - 6/30/03	Glaucoma Fellowship	University of Tennessee Health Science Center, Department of ophthalmology, Memphis, TN
2012 – 2013	Leadership Development Program XV-2013	American Academy of Ophthalmology

### **Specialty Certification**

<b>Year</b>	<b>Type</b>
2005-2015	Board Certification by the American Board of Ophthalmology
2016-2025	Board Recertification by the American Board of Ophthalmology

### **Licensure**

<b>Year</b>	<b>License</b>
Current registration Expires 12/31/2018	New York State Medical License # 220452

### **Research Activity**

My research interest is in blindness prevention, tele-ophthalmology, artificial intelligence and innovations. This is evident from my previous project of large-scale glaucoma screening in NYC involving more than 8500 high-risk individuals in mobile and fixed sites. I recently launched the tele-ophthalmology project with a mobile unit, for the detection of 4 leading causes of blindness. I have also embarked on research on the role of artificial intelligence in ophthalmology.

### **Grant History**

2018	Russell Berrie Foundation \$25,000
2018	HEY R21 NIH study \$220,000 Principle Investigator
2018	Jean Sheng \$50,000
2018	David Tobey \$10,000
2018	Laurel Schwartz \$25,000
2017	New World Medical \$50,000
2017	David Tobey \$50,000
2017	Save Vision foundation \$200,000
2017	Russell Berrie Foundation \$25,000
2017	Laurel Schwartz Ophthalmic Screening Project Grant \$25,000
2016	New World Medical \$50,000
2016	Laurel Schwartz Ophthalmic Screening Project Grant \$25,000

2016	Russell Berrie Foundation \$25,000
2016	Allergan \$10,000
2016	Laurel Schwartz Ophthalmic Screening Project Grant \$50,000
2016	Barry Friedberg Foundation \$10,000
2015	New World Medical \$50,000
2015	Barry Friedberg Foundation \$10,000
2014	Laurel Schwartz Ophthalmic Screening Project Grant \$50,000
2014	Russell Berrie Foundation \$50,000
2014	Barry Friedberg Foundation \$10,000
2014	CDC grant on telemedicine and glaucoma screening, approved but not funded
2014	Laurel Schwartz Fellowship Grant \$100,000
2013	NIH/NEI through Tissuetech \$35,000
2012	New York Resident Program (Allergan) \$15,000
2012	Women in Ophthalmology NY chapter meeting (Alcon) \$22,000
2012	Congressional glaucoma caucus Grant \$100,000
2011	Congressional glaucoma caucus Grant \$50,000
2011	New York Resident Program (Allergan) \$10,000
2011	Women in Ophthalmology NY chapter meeting (Alcon) \$22,620
2011	Congressional glaucoma caucus Grant \$50,000
2010	Bert Distelburger Grant \$30,000
2010	New York Resident Program (Allergan) \$15,000
2010	Women in Ophthalmology NY chapter meeting (Alcon) \$23,600
2010	Congressional glaucoma caucus Grant \$50,000
2010	Congressional glaucoma caucus Grant \$27,500
2009	Congressional glaucoma caucus Grant \$27,500
2009	Vesper Foundation Grant \$20,000
2009	Bert Distelburger Grant \$10,000
2009	Women in Ophthalmology NY chapter Meeting (Alcon) \$18,000
2009	New York Resident Program \$25,000
2009	Congressional glaucoma caucus Grant \$27,500
2009	Vesper Foundation Grant \$25,000
2008	Women in Ophthalmology NY chapter meeting (Alcon) \$29,000
2008	Congressional glaucoma caucus Grant \$27,750
2007	Advances in glaucoma treatment Program (Allergan) \$23,500
2006	Congressional glaucoma caucus Grant \$111,000
2006	Glaucoma diagnosis and neuroprotection program (Allergan) \$10,000
2006	Glaucoma fellowship grant (Allergan) \$40,000

## Grants and Clinical Trials

### Clinical Trials:

1. “ A Masked Histological Evaluation of the Trabecular Meshwork Specimen Collected from Trabeculectomy Patients with Primary Open Angle Glaucoma Treated with Bimatoprost 0.03% Ophthalmic Solution Once Daily (QD) for at least Two Years Compared with Primary Open Angle Glaucoma Patients Treated with Other Topical Ophthalmic IOP-Lowering Drugs”, Phase 4 study by Allergan; Protocol # 19202402900; **Primary Investigator.**
2. “Safety and Efficacy of Travoprost 0.004%/Timolol 0.5% Ophthalmic Solution Compared to Xalatan and Timolol 0.5% Dosed Concomitantly in Subjects with Open Angle Glaucoma or Ocular Hypertension”, Phase 4 study by Alcon, Protocol # C0403; **Co-Investigator.**

3. “Early Diagnosis of Glaucomatous Optic Neuropathy by VEP Testing for Rapid Objective Detection of Impairment of Specific Visual Subsystem”, Phase 1 study by NIH/NEI through SynaBridge Corp., **Co-Investigator**.
4. Retinal nerve fiber layer thickness in children. IRB- AAAA8071. **Primary Investigator**
5. “Clinical Use of the EagleVision Glaucoma Implant, a multicenter, prospective, nonrandomized, parallel arm study to evaluate the clinical outcomes after implantation of the EagleVision glaucoma drainage implants (formerly called the Krupin implant), Phase 3 study by Eagle Vision; **Primary Investigator**.
6. “Ahmed vs. baerveldt shunt” a multicenter, prospective, randomized study to evaluate the superiority of on implant over the other, **Primary Investigator**.
7. Rigor “A Prospective Observational Study Comparing the Effectiveness of Treatment Strategies for Primary Open-Angle Glaucoma” **Primary Investigator**
8. Amniotic Membrane versus Pericardium in Reducing Glaucoma Drainage Tube Exposure: A Randomized Clinical Trial. IRB: AAAK6253. **NIH** funded multicenter study **Primary Investigator** (Columbia site)
9. Comparison of Silicone and Porous Plate Ahmed Glaucoma Valves. IRB: AAAJ8558. **Primary Investigator**
10. The Efficacy and Safety of Bimatoprost SR in Patients with Open-angle Glaucoma or Ocular Hypertension Short title: Bimatoprost SR 192024-091. Sponsor: Allergan. IRB-AAAO4156. **Primary Investigator**
11. Ant Vs. Post Chamber Tube and PK. IRB-AAAD7158 **Primary Investigator**
12. 5-FU in glaucoma drainage deceive. IRB- AAAE8560 **Primary Investigator**
13. M4 vs. FP7. IRB- AAAJ8552 **Primary Investigator**
14. Community Based Glaucoma screening. IRB- AAAP9003. **Primary Investigator**
15. African Descent and Glaucoma Evaluation Study (Bridge Funding for the African Descent and Glaucoma Evaluation Study (ADAGES II). A prospective, multicenter observational cohort study to identify factors accounting for differences in glaucoma onset and rate of progression between individuals of African descent and European descent. IRB- AAAO6901. **Co-Investigator**
16. African Descent and Glaucoma Evaluation Study (Bridge Funding for the African Descent and Glaucoma Evaluation Study (ADAGES II). A prospective, multicenter observational cohort study to to understand the underlying molecular cause of Primary Open-Angle Glaucoma (POAG) in African-Americans. IRB- AAAO7555. **Co-Investigator**
17. Telemedicine Mobile Unit for ophthalmic Screening. IRB- AAAP1358. **Primary Investigator**
18. Tissue Repository. IRB- AAAQ7782. **Co-Investigator**
19. NT-501 Encapsulated cell therapy for glaucoma. IRB- AAAQ9975. **Co-Investigator**
20. Molecular Biomarkers for glaucoma. IRB- AAAO8362. **Co-Investigator**

21. African Descent and Glaucoma Evaluation (ADAGES) IV: Alterations of the Lamina Cribrosa in Progression. A prospective study to investigate the racial variations in the optic nerve head tissue remodeling process clinically observed in glaucomatous patients. A Prospective study to IRB-AAAR4402. **Co-Investigator**
22. Reoperations rates in glaucoma surgery (90 day return to the OR). . IRB- AAAR6170. **Primary Investigator**
23. Gender differences in ophthalmology residency. (the number of surgical procedures between female and male surgeons in residency). IRB- AAAR5397. **Primary Investigator**
24. Understanding the human microbiome in glaucoma. IRB- AAAR6267. **Co-Investigator**
25. Assessing Tacrolimus-associated optic neuropathy. IRB-AAAR5259. **Co-Investigator**
26. Steroid use and IOP. A retrospective chart review to study the association between systemic, topical creams and inhaler use and IOP. . IRB- AAAR8769. **Primary Investigator**
27. Artificial intelligence use in glaucoma, DR and AMD. A prospective study to validate different AI systems in glaucoma, DR and AMD. IRB-AAAR5844. **Primary Investigator**
28. I-care home feasibility study. A prospective pilot study on the feasibility and ease of use of i-care tonometer for glaucoma management. IRB-AAAR9429. **Primary Investigator**
29. Standard phaco vs. Laser-Assisted cataract surgery. IRB-AAAR9429. **Co-Investigator**

### **Clinical Activity**

Immediately after graduating from residency and fellowship, I dedicated a significant focus to patient care and clinical practice. I developed and sustained one of the largest clinical practices at Columbia University and NYC, with broad offering in medical and surgical therapies. My practice specializes in glaucoma and cataract management, offering among others, surgical treatment of complex cases, frequently collaborative combined cases with other subspecialties such as retina and cornea. In addition to standard surgery, the cutting-edge surgeries such as MIGS and Femtosecond cataract surgery. Currently referrals to my practice come from primary care practitioners, other ophthalmologists and self-referral, including local and international patients.

### **Education Activity**

As director of the glaucoma fellowship, I have been responsible for and involved in all the education activities of the glaucoma fellowship, from the curriculum design, to continuous supervision and coordination. In addition to starting the fellowship in 2003, I expanded it to 2 fellows in 2014. As a member of the ophthalmology residency core faculty, I participate actively in residents education. Furthermore, I teach medical students including the glaucoma elective course, and national and international visiting students, fellows and doctors.

### **Teaching Activities**

3/1/13- Present	Director of glaucoma fellowship
7/1/04- 3/1/13	Mentor of glaucoma fellows

7/1/04- Present	Glaucoma Clerkship director
7/14/03- Present	Instructor to residents and medical students in the Department of Ophthalmology Columbia University College of Physicians and Surgeons
7/1/02-6/30/03	Clinical instructor to residents and medical students in the Department of Ophthalmology University of Tennessee Health Science Center
1/30/02-6/30/02	Instructor in clinic to residents and medical students in the Department of Ophthalmology Columbia University College of Physicians and Surgeons

**Course Chairman or Director:**

04/06/2018	Co-Chair Tele-ophthalmology and Artificial intelligence conference New York, NY
04/05/2018	Closed session Co-Chair Tele-ophthalmology and Artificial intelligence conference New York, NY
02/08/2016	Chairperson Tele-medicine and Ophthalmology WIO Symposium WOC 2016 Guadalajara, Mexico
08/2014	Chairperson Women in Ophthalmology Summer Symposium Leesburg Virginia
09/15/2012	Chairperson Wound Healing Modulation 6 <sup>th</sup> International Congress on Glaucoma Surgery Glasgow, Scotland
10/17/2007–10/01/2012	Program Chair, Women in Ophthalmology NYC Chapter
05/07/2005–06/01/2012	Program Chair, New York Resident Program
11/12/2010	Program Chair, 5 <sup>th</sup> International Congress on Glaucoma Surgery New Delhi, India
11/25/2010	Program Chair, Monsaura International Ophthalmology Congress Monsaura, Egypt
11/1/03- Present	Course Director, fourth year medical student elective in glaucoma

**Curriculum development and other innovative educational activities**

04/06/2018	Co-Chair Tele-ophthalmology and Artificial intelligence conference New York, NY
04/05/2018	Closed session Co-Chair Tele-ophthalmology and Artificial intelligence conference

New York, NY

07/01/2004- present      Glaucoma fellowship curriculum

07/01/2004- 06/30/13      Resident glaucoma curriculum

07/01/2004- present      Glaucoma Clerkship curriculum

**Invited Talks and Teaching of Peers**

10/27/2018      Artificial Intelligence and Glaucoma  
Invited speaker  
Glaucoma subspecialty day  
AAO 2018

10/27/2018      Section III: New Surgeries  
Moderator  
Glaucoma subspecialty day  
AAO 2018

10/27/2018      “The Evolving Role of Telemedicine in Ophthalmology”  
Keynote speaker  
IMANA ophthalmology society

07/07/2018      Tele-ophthalmology and Artificial intelligence  
Keynote speaker  
Asia Pacifica Tele-ophthalmology Society

06/14/2018      46 Annual Ophthalmology Alumni Meeting  
Invited speaker  
1. Tele-ophthalmology and the New York experience  
2. Refractive cataract surgery in glaucoma patients  
3. Big data and artificial intelligence in medicine and ophthalmology  
SUNY Downstate Medical Center

05/21/18      Tele-medicine and home monitoring  
Invited speaker  
13<sup>th</sup> EGS Congress 2018

05/24/18      Tele-ophthalmology and AI  
Invited speaker  
NYU Langone Health

05/10/18      Tele-ophthalmology and AI  
Invited speaker (Grand round)  
Ohio State University

05/10/18      MIGS  
Invited resident lecture  
Ohio State University

02/09/18      New Horizons in Pharmaceuticals  
Co-moderator  
Glaucoma 360 New horizons

01/04/18	Tele-ophthalmology and Artificial Intelligence Grand Round Invited speaker Scheie Eye institute, UPENN
11/22/17	Artificial Intelligence and Education Keynote speaker Circassian Education Foundation
11/12/17	Advanced Refractive Cataract Surgery and Anterior Segment Reconstruction. AAO Course instructor
10/23/17	Exploring effective safeguards and methods for mitigating the risks for an ophthalmic digital health device and the assets, threats, and vulnerabilities to be considered and identified Ophthalmic Digital Health Workshop FDA
9/21/17	Invited professor USF Eye Institute (Glaucoma implant surgery, Tele-ophthalmology and case discussions with the residents)
2/3/2017	New Horizons in Telemedicine co-chair Glaucoma 360
2/3/2017	Evolution of telemedicine and potential for Teleglaucoma Glaucoma 360
6/1/2016	Tele-ophthalmology The Manhattan Glaucoma Symposium- 2016
5/6/2016	Cataract Surgery in Nanophthalmic Eyes Surgery Day ASCRS 2016
3/3/2016	Cataract Surgery in Nanophthalmic Eyes Surgery Day AGS 2016
2/28/2016	Screening for glaucoma of populations at risk, results and lessons learned. India MHWC 2016
2/19/2016	DRAINAGE IMPLANTS Course leader 8th International Congress on GLAUCOMA SURGERY 2016
2/18/2016	MANAGEMENT OF LEAKING BLEBS Course leader 8th International Congress on GLAUCOMA SURGERY 2016
2/8/2016	Tele-ophthalmology in New York WIO Symposium

WOC 2016  
Guadalajara, Mexico

11/15/2015 AAO Combined meeting with Prevent Blindness. A Day in the Clinic (point and counter point)  
Perform Cataract and Trabeculectomy Separately

11/14/15 AAO Subspecialty Day  
Video Surgical Nightmares—Managing the Cards You are dealt  
Tube Exposure

6/9/2015 Grand rounds Invited Speaker  
Glaucoma drainage implant and their management  
Bronx Lebanon

3/7/2015 Invited speaker  
Glaucoma drainage devices surgery  
International Bonn Glaucoma Symposium

11/14-16/2014 Invited speaker  
Trends in Glaucoma Medical & Surgical Meeting 2014  
IMO-Instituto de Microcirugia Ocular/Fundacion IMO  
Barcelona, Spain  

1. Ocular hypertension treatment
2. Combined glaucoma and cataract surgery
3. Phaco-Trabectome

10/2014 Manual Small Incision Cataract Surgery  
HelpMeSee Foundation  
Columbia University School of Physician & Surgeons

9/2014 Glaucoma drainage Implants and their management  
System Wide Grand Rounds  
Henry Ford Hospital. Detroit, MI

5/2014 Vaswani RS, Blumberg D, Al-Aswad L, Cioffi GA. " Glaucoma Screening in African American Communities: A Comparative Effectiveness Analysis"  
Association for Research in Visual Sciences and Ophthalmology Annual Meeting Poster Presentation ARVO May 2014.

4/2014 Small Pupil and Psuedo exfoliation management.  
Women in Ophthalmology symposium.  
WOC 2014 Japan

4/2014 Surgical Skill Development through The Perfect Balance: Practice and "Just in Time" Education  
WOC 2014 Japan

2/2014 Vaswani RS, Sirinek P, Blumberg D Al-Aswad L, Chang S, Cioffi GA. "The Role of Cone Photoreceptors in Glaucomatous Visual Field loss." American Glaucoma Society Annual Meeting Paper Presentation AGS February 2014.

2/2014 Al-Aswad L, Blumberg D, Cioffi, GA, Kaplan R. "Comparative Cost-Effectiveness of Baerveldt Tube Insertion Versus Trabeculectomy with

Mitomycin C in the United States. American Glaucoma Society Annual Meeting 2014.

07/17-20, 2013	Scientific Poster Presentation World Glaucoma Congress Vancouver, Canada
01/4/2013	Invited Speaker SUNNY Downstate/Current Concept in Ophthalmology Pediatric Glaucoma/Surgical Management Atlantic City, NJ
11/12/2012	Invited Speaker American Academy of Ophthalmology Ahmed Valve lecture Chicago, IL
09/15/2012	Invited Speaker Tube Session – Baerveldt – 5 year TVT, PTVT 6 <sup>th</sup> International Congress on Glaucoma Surgery Glasgow, Scotland
09/14/2012	Leader Tubes: Advanced Implantation 6 <sup>th</sup> International Congress on Glaucoma Surgery Glasgow, Scotland
08/10/2012	Invited Speaker 2012 Women in Ophthalmology Summer Symposium Update on Glaucoma Williamsburg, Virginia
04/24/2012	Invited Speaker ASCRS 2012 Surgical Technique & Technology for Lens Removal Chicago, IL
02/18/2012	Invited Speaker World Glaucoma Congress 2012 Developing Equity in Training Abu Dhabi, United Arab Emirates
10/ 03 /2011	Invited Speaker Annual Eye exam why and what 8 <sup>th</sup> Men’s Health World Congress
09/23/2011	Invited Speaker Core East/Review of Ophthalmology Phaco Emulsification Vienna, Austria
06/30/2011	Invited Speaker C06 Trabeculectomy Pearls and Pitfalls World Glaucoma Congress 2011 Paris, France

06/29/2011	Invited Speaker OCT Progression Analysis World Glaucoma Congress 2011 Paris, France
02/10/2011	Invited Speaker The Friend of the Congressional Glaucoma Caucus Foundation 10 <sup>th</sup> Anniversary Presentation Center for Control Disease Atlanta, Georgia
12/04/2010	Invited Speaker Pearls for Implanting Ahmed and Baerveldt GOD Asia-Pacific Joint Glaucoma Congress Taipei, Taiwan
11/25/2010	Invited Speaker Trabectome Surgery Monsaura International Glaucoma Congress Monsaura, Egypt
11/11/2010	Invited Speaker Popularity in North America, and Why? 5 <sup>th</sup> International Congress on Glaucoma Surgery New Dehli, India
10/30/10	Invited Speaker Ophthalmologic Disorder in Men: Glaucoma, Cataract and Floppy Iris 7 <sup>th</sup> Men's Health World Congress. Nice, France
8/27/10	Invited Speaker Cataract and Glaucoma Causes of Blindness Syrian American Association
8/27/10	Grand Rounds Lecture Pars Plana Ahmed Valve and Wet Lab to Follow Invited Speaker Will Eye Hospital, Philadelphia, PA
3/15/10	Egyptian Ophthalmological Society Annual Meeting Invited Speaker Cairo, Egypt
2/11/10	Grand Rounds Lecture Invited Speaker Charleston Ophthalmological Society
11/2/09	Grand Rounds Lecture Glaucoma Implants and Their Management Invited Speaker Albert Einstein College of Medicine
6/1/09	Grand Rounds Lecture

Glaucoma Implants and Their Management  
 Invited Speaker  
 Syracuse University

3/20/09 Egyptian Ophthalmological Society Annual Meeting  
 Course on Refractive Glaucoma  
 Invited Speaker  
 Cairo, Egypt

1/14/09 Grand Rounds Lecture  
 Glaucoma Implants and their post-operative management  
 Invited Speaker  
 Mount Saint Vincent Hospital

11/19/08 Grand Rounds Lecture  
 Glaucoma Implants and their post-operative management  
 Invited Speaker  
 Penn State College of Medicine

6/13/08 The Effect of Systemic Immunosuppression on the Hypertensive Phase in  
 Uveitic Glaucoma Patients Undergoing Ahmed Valve Implantation  
 Invited Speaker  
 The Hamilton Eye Institute  
 University of Tennessee Health Science Center

1/9/08 Glaucoma Surgery  
 Lecturer and Faculty  
 The Basic Science Course in Ophthalmology  
 Edward S. Harkness Eye Institute. Columbia University

8/6/07 Glaucoma in Hispanics and Recent Advances in Therapy  
 Invited Speaker  
 Spanish American Medical Dental Society of New York

7/28/07 Aniridic Glaucoma: Epidemiology and Evaluation  
 Aniridia Foundation International Medical Conference 2007

7/27/07 Causes and Identification of Aniridic Glaucoma.  
 Aniridia Foundation International Medical Conference 2007

6/9/07 Glaucoma Management - Comparison of Spectral and  
 Time Domain OCT  
 Imaging and Visual diagnostic. Columbia University

2/22/07 Time-Domain OCT vs. Spectral-Domain OCT/SLO  
 Grand Rounds Lecturer  
 State University of New York, Downstate at Brooklyn

1/10/07 Glaucoma Surgery  
 Lecturer and Faculty  
 The Basic Science Course in Ophthalmology  
 Edward S. Harkness Eye Institute. Columbia University

11/8/06 Aniridia  
 Grand Rounds Lecturer

Saint Vincent Hospital

- 6/7/06 Ahmed Valve lecture and wet lab  
Invited Speaker  
Interfaith, Brooklyn
- 1/21/06 Phaco Wet-Lab  
Faculty  
The Basic Science Course in Ophthalmology  
Edward S. Harkness Eye Institute. Columbia University
- 1/11/06 Optic disc evaluation  
Lecturer and Faculty  
The Basic Science Course in Ophthalmology  
Edward S. Harkness Eye Institute. Columbia University
- 11/23/05 Optic Disc imaging and OCT  
Grand Rounds Lecturer  
Saint Vincent Hospital
- 11/16/05 Glaucoma Drainage Implants and the Bi-plate Ahmed Valve  
Invited Glaucoma Rounds speaker  
Scheie University of Pennsylvania
- 11/12/05 Case presentation (surgical dilemma)  
Faculty  
New Frontiers in Clinical Glaucoma  
The 2<sup>ed</sup> Annual Max Forbes, M.D. Lectureship in Glaucoma  
Columbia University
- 10/15/05 JCAHPO  
Pachymetry & Glaucoma: IOP Effect of Corneal Thickness  
Invited speaker
- 4/25/05 Glaucoma Drainage Implants and the Hypertensive Phase  
Grand round speaker  
Saint Luke- Roosevelt
- 4/11/05 OCT and Glaucoma  
Invited speaker  
New York Ophthalmology Society
- 1/22/05 Phaco Wet-Lab  
Faculty  
The Basic Science Course in Ophthalmology  
Edward S. Harkness Eye Institute. Columbia University
- 1/12/05 Clinical Evaluation of Glaucoma Patients  
Lecturer and Faculty  
The Basic Science Course in Ophthalmology  
Edward S. Harkness Eye Institute. Columbia University
- 10/13/04 Glaucoma Drainage Implants  
Grand Rounds Lecturer  
Saint Vincent Hospital

9/11/04	Case presentation (Over Hanging Bleb Management) Faculty New Frontiers in Clinical Glaucoma The 1 <sup>st</sup> Annual Max Forbes, M.D. Lectureship in Glaucoma Columbia University
9/10/04	Case presentation (Epithelial In growth Management)
6/3/04	Aniridia Grand Rounds Lecturer State University of New York, Downstate at Brooklyn
2/5/04	Bi-Plate Ahmed Valve Grand Rounds Lecturer New York Eye and Ear Infirmary
1/24/04	Phaco Wet-Lab Faculty The Basic Science Course in Ophthalmology Edward S. Harkness Eye Institute. Columbia University
1/13/04	Clinical Evaluation of Glaucoma Patients Lecturer and Faculty The Basic Science Course in Ophthalmology Edward S. Harkness Eye Institute. Columbia University
10/30/03	Aniridia Grand Rounds Lecturer Edward S. Harkness Eye Institute. Columbia University
3/25/03	OHTS Invited Speaker Memphis Optometry Society
3/25/03	ICE Syndromes University of Tennessee Health Science Center
1/6/03	Glaucoma Drainage Implants Invited Speaker Edward S. Harkness Eye Institute. Columbia University
11/18/02	Ocular hypertension. Pigmentary glaucoma University of Tennessee Health Science Center
7/15/02	Aqueous humor dynamic and tonometry University of Tennessee Health Science Center

**Mentoring and Advising**

Medical students, Residents, clinical and research glaucoma Fellows, International fellows, high school students and visiting doctors

**Institutional, Local/National Service and Related Activity**

**Professional Service**

**Panels and Committees and positions held:**

1. Nominated as a voting member for the FDA's Ophthalmic device panel
2. Dean's Advisory Committee for Women Faculty
3. At-large member of the Academy's Annual Meeting Secretariat (AMS)
4. AGS E&C- FCC Committee 2017- present
5. AGS Patient Care Committee-Coding and Terminology Subcommittee 2015- 2016
6. HelpMeSee Foundation education development and research committee 2014-2015
7. Resident Task Force Committee WIO 2014-2017
8. AGS Auditing Committee 2013-2015
9. Member at Large for Woman in Ophthalmology 2010-2015
10. AGS Bylaws and Strategic Planning Committee
11. Director of the glaucoma screening program 2006- 2014
12. Resident Selection Panel 2004- present
13. Glaucoma Fellowship Selection Panel 2004 – Present
14. OKAP resident committee 2013- 2014
15. The Implementation of the Academic Tracks Committee 2012 - 2013
16. Board member for NAAMA 2010- 2015
17. Pathology/oncology Panel Member (COMPASS outline) 2008
18. President of Woman in Ophthalmology New York Chapter 2007- 2012
19. The Perioperative Medication Task Force Meeting (Columbia University College of Physicians and Surgeons) 2005-2013
20. Provision development committee AAO 2005 - 2006  
POC and Self-Assessment Panel Members (Comprehensive Ophthalmology and Pediatric Ophthalmology/Strabismus) AAO 2004-2006

**Editorial and Ad Hoc Review Activities:**

2017- present                      Ad Hoc Reviewer JAMA ophthalmology

2017- present	Canadian Journal of Ophthalmology
2017- present	EyeNet editorial board
2016- present	Ad Hoc Reviewer for IVOS
2012- present	Ad Hoc Reviewer for Journal of glaucoma
2012- present	Ad Hoc British Journal of Ophthalmology

**Advisory boards and Positions held:**

2018	President of Women in ophthalmology
2017	President Elect – Women in Ophthalmology
2013- Present	Medical Advisory board for the board of trustees of the Harkness Eye Institute
2011- 2016	Board Member – Women in Ophthalmology
2010- 2016	WIO Director at-Large
2010- 2012	Board Member Ophthalmic Women Leaders
2012- 2014	Past President of President of Women in Ophthalmology New York Chapter
2008- 2012	President of Women in Ophthalmology New York Chapter
2007- 2009	Board Member SAMS
2004- 2010	Medical Advisory Board for the USA ANIRIDIA NETWORK

**Outreach programs:**

2015-	Tele-Ophthalmology Screening project
2014	HelpMeSee Foundation to eliminate blinds from cataract around the world. NY, NY
10/06- 2014	Glaucoma screening in the Greater New York Metropolitan area
9/2008	Treating adult and congenital glaucoma, as well as adult and congenital 5930 Cataract Noor Dubai
6/25/06- 7/1/06	Syrian American Medical Association CME Program form Cleveland Clinic Moderate the Ophthalmology section. Gave two lectures: Bi-plate Ahmed Valve Treatment with bevacizumab

Involved in patient examination and surgeries  
Damascus, Syria

**Honors and Awards:**

2016	Tzu Chi foundation 25 <sup>th</sup> Anniversary: collaboration award the for the glaucoma screening efforts
2014	Certificate of Appreciation COP0264 Participation and contribution to the World Ophthalmology Congress 2014 (WOC) Tokyo, Japan
2014-	Top Doctors, New York Metro Area 17 <sup>th</sup> ED Castle Connolly Medical LTD
2013-	Region's Top Doctors Castle Connolly Medical LTD
10/25/2013	Leadership & Management Skills Program Columbia University
2012	Achievement Award Leadership Development Program (LDP) American Academy of Ophthalmology
5/22/2011	New York Super Doctors 2011 New York Times Magazine
2/25/11	Visionary Award for Hospital Based Screening Programs Friends of the Congressional Caucus Foundation 10 <sup>th</sup> Anniversary Celebration
7/7/10	Certificate of Appreciation For Exemplary service as an Editor Eye Wiki/American Academy of Ophthalmology
6/9/09	Award for Outstanding Contribution to Glaucoma Screenings in New York City Friends of the Congressional Glaucoma Caucus Foundation
4/26/09	New York Super Doctors 2009 New York Times Magazine
4/27/08	New York Super Doctors 2008 New York Times Magazine
9/20/08	Certificate of Appreciation Invaluable Contribution to the success of Phase I of the Noor Dubai Initiative
5/28/04	Rookie Teaching Award

## **Bibliography**

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2. **Al-Aswad LA**, Kapoor R, Chu CK, Walters S, Gong D, Garg A, Gopal K, De Moraes CG, Patel V, Trikha S, Rogers T, Jaccard N, Moazami G. Investigation of a Deep Learning System in Identifying Glaucomatous Optic Neuropathy Based on Color Disc Photographs. Submitted.
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4. Rahul Kapoor Stephen P. Walters , **Lama A. Al-Aswad**. The Current State of Artificial Intelligence in Ophthalmology. Accepted Survey of ophthalmology. Published online: September 21, 2018
5. Hondur G, Göktaş E, **Al-Aswad L**, Tezel G. Age-related changes in the peripheral retinal nerve fiber layer thickness. *Clin Ophthalmol*. 2018 Feb 26;12:401-409.
6. Melgarejo JD, Lee JH, Petitto M, Yépez JB, Murati FA, Jin Z, Chávez CA, Pirela RV, Calmón GE, Lee W, Johnson MP, Mena LJ, **Al-Aswad LA**, Terwilliger JD, Allikmets R, Maestre GE, De Moraes CG. Glaucomatous Optic Neuropathy Associated with Nocturnal Dip in Blood Pressure: Findings from the Maracaibo Aging Study. *Ophthalmology*. 2018 Jan 5
7. Theventhiran, Alex MD; Shabsigh, Muhammad MD; De Moraes, Carlos Gustavo V. MD, MPH; Cioffi, George A. MD; Kamel, Mohammed MD; Blumberg, Dana MD, MPH; **Al-Aswad, Lama A. MD, MPH**. A Comparison of Retrobulbar versus Topical Anesthesia in Trabeculectomy and Aqueous Shunt Surgery. *J Glaucoma*. 2018 Jan;27(1):28-32
8. **Lama A. Al-Aswad**, Devon B. Joiner, Xinhui Wang, Carlos Gustavo de Moraes, Deborah Popplewell, Maria L. Amaro-Quireza, Muhammad Shabsigh and Nancy Taher. Screening for glaucoma in populations at high risk: The eye screening New York project. *Cogent Medicine* (2017), 4: 1367059
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2. LAMA A. AL-ASWAD, MD, MPH: ARTIFICIAL INTELLIGENCE, BIG DATA, AND MEDICAL ANALYTICS. Moving toward the automatic diagnosis of glaucoma. GLAUCOMA TODAY | JULY/AUGUST 2017
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Contemporary Ophthalmology 7:5, March 15, 2008
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Review of Ophthalmology 13: 06, June 2006
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Review of Ophthalmology 12:08, August 2005
8. Tsai, JC., Al-Aswad, L: Meeting the challenge of inflammatory glaucoma. Review of Ophthalmology 11: 06, 52-56 June 2004

9. Al-Aswad, L., Tsai, JC: Managing the narrow-angle patient. Review of Ophthalmology 11: 06, 45-48 June 2004 (cover story)

#### **Chapters:**

1. Stephen P. Walters, MD and Lama A. Al-Aswad, MD, MPH. Future Therapies and Strategies in Glaucoma Diagnosis and Management. COLUMBIA GUIDE: appendix (Walters & Al-Aswad) May 2018. Book in progress
2. Gene Kim, Brian J. Song and Lama A. Al-Aswad Twenty-Four-Hour Intraocular Pressure Monitoring in Glaucoma In: Kahook, MY, Schuman, JS, eds. *Chandler and Grant's Glaucoma, Six Edition*. Book in progress
3. Emre Göktas, MD, and Lama A. Al-Aswad, MD, MPH. GLAUCOMA: SURGICAL THERAPIES. COLUMBIA GUIDE: Glaucoma: Surgical Tx (Gotkas & Al-Aswad) 7 September 2017. Book in progress
4. Lama A. Al-Aswad, MD, Daniel S. Casper, MD, PhD: Clinical Atlas of Procedures in Ophthalmic and Oculofacial Surgery; **chapter in Laser Trabeculoplasty**. Daniel M. Albert MD, MS, FACS & Mark J. Lucarelli, MD, FACS editors. Oxford University Press 2011; 308-312
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Descemet's membrane tear seen on anterior segment optical coherence tomography (Cornea/Refractive Surgery Quiz 25: A 61-year-old man with a complication of intraocular surgery). Tarek Alasil, MD, Michael Engelbert, MD, PhD, Lama A. Al-Aswad, MD DJO 2008

#### **Video contributions:**

1. Glaucoma implant video serious (New World Medical)
  - a. Tube irrigation from vitreous 10-28-13
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2. Video Atlas of Glaucoma Surgery  
Managing Editors: Shibal Bhartiya and Munish Dhawan  
First Published 2010
- 3.
4. Surgical Techniques in Ophthalmology – Glaucoma Surgery  
Series Editors: F. Hampton Roy and Larry Benjamin  
First Published 2008
5. Ahmed Glaucoma drainage implants Educational Videos for New World Medical 2006
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**Video appearances:**

10/27/2018	Artificial intelligence Eyetube Glaucoma subspecialty day AAO
06/21/2018	Artificial intelligence Eyetube WOC
02/23/2018	How Artificial Intelligence Will Change Glaucoma Detection
01/17/2018	New Horizons in Pharmaceuticals Glaucoma 360 New Horizons
02/03/2017	Telemedicine and Artificial Intelligence in Glaucoma Glaucoma 360 New Horizons
11/09/2017	Managing glaucoma Fearless Fabulous
08/10/2017	Teleophthalmology WIO EyeWorld
06/16/16	Glaucoma Screening With OCT Glaucoma Today Journal Club
04/13/2015	Ophthalmology New York Doctors Season 1 Episode 16
10/17/2014	HelpMeSee & Columbia University's Harkness Eye Institute World Sight Day Grand Rounds
08/07/2014	WIO reporter for the summer symposium EyeWorld
09/24/2012	Cataract and Eye Health Dr. Ridwan show

**Abstracts:**

1. **Lama A Al-Aswad, MD, MPH**, Kalashree Gopal, BA, Dan A Gong, MD, Gustavo De Moraes, MD, Nicolas Jaccard, BS, PHD, Vipul Patel, Golnaz Moazami MD, Sameer Trikha BMBS MRCOphth. Investigation of a Deep Learning System in Identifying Glaucomatous Optic Neuropathy Based on Color Disc Photos. AAO2018
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4. **Lama A. Al-Aswad, MD, MPH**, Vipul Patel, Maribel Rodriguez, MD, Kalashree Gopal, BA, Deborah Popplewell, OD, Dan Gong, MD, Zach Thomas, George A. Cioffi, MD, Jeffrey Liebmann, MD, Golnaz Moazami, MD. Ophthalmic Screening for high riskpopulation using Mobile Tele-Ophthalmology (pilot study) WOC 2018
5. Lynn Shi, C Gustavo De Moraes, Dana Blumberg, **Lama Al-Aswad**, Donald Hood. A Comparison of Glaucomatous Damage seen with Fundus Photographs and Optical Coherence Tomography. ARVO 2018
6. Ceren Durmaz Engin, Rukiye Aydin, **Lama Al-Aswad**, James Auran, Dana Blumberg, George Cioffi, Jeffrey Liebmann, Tongalp Tezel, Gulgun Tezel. Retinal inner plexiform layer (IPL) alterations in patients with glaucoma. ARVO 2018
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11. Gozde Hondur , E. Goktas , **L. Al-Aswad** , G. Tezel. Swept-source optical coherence tomography-based analysis of age-related changes in the peripheral retinal nerve fiber layer thickness. ARVO 2017
12. C Gustavo De Moraes, J. M. Liebmann, J. Reimann, L. Lu, **L. Al-Aswad**, D. Blumberg, G. A. Cioffi, R. Ritch, D. Hood. The Macula Progression Study (MAPS): Repeatability of a Single, Wide-field, Swept-Source Optical Coherence Tomography Protocol. ARVO 2017
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18. Jeremy Reimann , James Murphy , Chad Kaplan, C Gustavo De Moraes, Alon Skaat , Lama Al-Aswad , Christopher A. Girkin , Felipe A. Medeiros , Robert N. Weinreb , Linda M. Zangwill<sup>3</sup> , Jeffrey M. Liebmann<sup>1</sup> Ancestry, beta-zone parapapillary atrophy (bPPA), and visual field progression in ocular hypertensive eyes in the African Descent and Glaucoma Evaluation Study (ADAGES). ARVO 2016
19. Ramya Swamy, MD, MPH, Lama Al-Aswad, MD, Brian Francis, MD. Safety and Efficacy of Trabectome in Uveitic Glaucoma. American Glaucoma Society Annual Meeting 2015.
20. Alex Theventhiran, MD, Muhammad Shabsigh, MD, Gustavo de Moraes, MD, MPH, George A. Cioffi, MD, , Dana Blumberg, MD, MPH, Lama Al-Aswad, MD. A Comparison of Topical Anesthesia and Retrobulbar Block during Glaucoma Filtering Surgery. American Glaucoma Society Annual Meeting 2015.
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26. Visual Outcomes in Treating Neovascular Glaucoma with Ahmed Valves. Lama Al-Aswad M.D.<sup>1</sup>, Scott M. Walsman M.D.<sup>1</sup> ARVO 2010

27. Structural and Functional Tests for Glaucoma Evaluation in Patients with Small Discs. Hamed Bazargan-Lari MD., Ann Ostrovsky MD., Scott Dale, Janet B Serle MD., Lama A Al-Aswad MD., John Danias MD PhD. AAO 2008
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32. Comparison of Argon and Selective Laser Trabeculoplasty on Intraocular Pressure Reduction and Decrease of Medications. Lookjan Riansuwan\*, M.D.; Lama A. Al-Aswad\*, M.D.; Daniela Toscano\*, M.D.; Elaine M. Miglino<sup>+</sup>; Arusha Gupta<sup>#</sup>, M.D.; Lawrence F. Jindra, M.D. ARVO 2007
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35. Reasons for discontinuing timolol maleate (Istalol) for treating post-operative intraocular pressure after selective laser trabeculoplasty. Vinod B Voleti, BS<sup>1</sup>, Shilpa Mehra<sup>2</sup>, Elaine M Miglino<sup>3</sup>, Lama A Al-Aswad<sup>1</sup> and Lawrence F Jindra<sup>3</sup> AAO 2006
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**Oral and poster presentations**

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| 06/16/2018 | 1821 - Ophthalmic Screening for High Risk Population Using Mobile Tele-ophthalmology (Pilot Study) WOC |
| 05/06/2016 | Cataract Surgery in Nanophthalmic Eyes<br>Surgery Day<br>ASCRS 2016                                    |
| 03/03/2016 | Cataract Surgery in Nanophthalmic Eyes<br>Surgery Day<br>AGS 2016                                      |

**Patents**

