

**Dr Seemant Raizada**  
MBBS, MS, DNB, FMRF, FRCSEd

**EDUCATION AND QUALIFICATIONS**

<b>Dec 1999</b>	<b>Fellow of Royal College of Surgeons Edinburgh(FRCSEd)</b>
<b>Sep 1999</b>	<b>Vitreo Retinal Fellowship (FMRF) (Duration:18 months)</b> Sankara Nethralaya (Unit of Medical Research Foundarion) Chennai, India
<b>Jun 1999</b>	<b>Diplomate of National Board of Examinations (DNB)- Ophthalmology</b> Delhi. India
<b>Mar 1998</b>	<b>Research Fellowship in Uveitis &amp; Ocular Pathology</b> (Duration:6 months) Medical Research Foundation, Chennai. India
<b>Jun 1997</b>	<b>M.S. (Ophthalmology)</b> L.L.R.M. Medical College, Meerut, India. (Listed in Avicenna Directory of Medical Schools)
<b>Apr 1992</b>	<b>M.B.B.S.</b> L.L.R.M. Medical College, Meerut. India (Listed in Avicenna Directory of Medical Schools)

**PROFESSIONAL MEMBERSHIPS**

<b>Sep 2009</b>	<b>American Academy of Ophthalmology</b>
<b>Aug 2008</b>	<b>EURETINA (European Society of Retina Specialists)</b>
<b>March 2003</b>	<b>Kuwait Ophthalmic Society</b>

**Feb 1997**                    **All India Ophthalmological Society**  
**Mar 1997**                    **Delhi Ophthalmological Society**  
**Apr 1993**                    **Indian Medical Council**

## **CAREER HISTORY**

**5. Jan. 2011- 30<sup>th</sup> May**    **Visiting Retina Consultant**  
**Dasman Diabetes Institute, Kuwait**

### **My duties and responsibilities include:**

- Conducting special retina clinics for diabetic patients once a week
- In addition to outpatient clinics, performing laser photocoagulation sessions as and when necessary
- Conducting educational sessions for patients and staff to make them aware of the complications arising out of uncontrolled diabetes

**26. Jun 2000 –30<sup>th</sup> May**    **Vitreo Retinal Surgeon (Senior-Specialist)**  
**Vitreo Retinal Unit**  
**Al Bahr Eye Center, Ibn Sina Hospital**  
**Ministry of Health, Kuwait**

### **My duties and responsibilities:**

- Al Bahar Eye Centre is the biggest tertiary comprehensive Eye Care hospital in Kuwait. It is the flagship ophthalmology hospital of Ministry of Health in Kuwait and is equipped with state of the art technology to deal with every subspecialty in Ophthalmology. Here, I am conducting a retina clinic with over 100 patients per week in the Retina Unit. This includes both Medical Retina and surgical Retina cases. I inject about 25-30 anti VEGF injection in a week. I also take care of two major NICUs in Kuwait for screening and management of ROP
- I am having two independent OR sessions per week and perform more than 30 surgeries in a month including; Pars plana vitrectomy for

complex retinal detachments, diabetic vitreous haemorrhage/traction detachments and phacoemulsifications. I have unique experience in using endoscopic for vitreo retinal procedures. I have published several scientific papers in peer reviewed journals on the use of an endoscope and have conducted instruction courses for Endoscopic retina surgery at American Academy of Ophthalmology (AAO – Chicago 2010) and at World Ophthalmology Congress (WOC – Abu Dhabi 2012)

- One day a week is dedicated for retina laser procedures, mainly for diabetic retinal complications.
- I am actively associated with the teaching programme in Kuwait Medical Board for ophthalmology. As a clinical instructor, I conduct clinics, ward rounds and lectures for Ophthalmology residents.

**15.Oct 1999 – 15. Jun 2000      Vitreo Retinal Surgeon**  
**Sharnam Eye and Laser Services**  
**R 13/24, Raj Nagar, Ghaziabad, India**  
**Under Supervision of Dr Puneet Gupta**

My duties and responsibilities included:

- Conducting outpatient clinic for retina speciality.
- In addition to outpatient clinics, performing Pars plana vitrectomy for varied retinal pathologies, phacoemulsification and laser photocoagulation sessions.

## **CLINICAL SKILLS AND EXPERIENCE**

I have more than 15 years of experience in dealing with diagnosis and management of various medical and complex surgical retina pathologies. I am well versed in Vitreo retinal procedures and can perform the following procedures unsupervised:

- Pars plana vitrectomy (PPV) for varied retina pathologies. Special interest in diabetic proliferative retinopathies & tractional retinal detachment.
- Experience in surgically retrieving dropped nucleus and dislocated IOLs after complicated Phaco surgeries.
- Scleral buckling surgeries
- Use of gas (SF6, C3F8) and silicone oil during PPV in RD with PVR.
- Ocular trauma management both primary and secondary surgeries.
- Extensive surgical experience in managing posterior segment trauma to eye with or without Intraocular foreign body.
- Use of Endoscope in posterior segment of eye

- Laser photocoagulation for varied medical and surgical retina ailments
- Intravitreal injections of Anti-VEGF agents for various retinal vascular pathologies including Age Related Macular degeneration.
- Phacoemulsification. I routinely perform combined Phaco- PPV as and when needed.

## AWARDS AND SPECIAL RECOGNITION

- In 1997 I was adjudged best resident during my tenure of residency at LLRM Medical College in Meerut, India.
- During my research fellowship in the Department of Uveitis and Ocular Pathology in 1998 I was awarded a travel fellowship by University of New South Wales, Australia to attend 7<sup>th</sup> Annual Meeting of Indian Eye Research Group to present my paper entitled “Histopathological Correlation of Ultrasound Biomicroscopy (UBM) Findings from Eucleated Painful Blind Eyes”.
- I was awarded ‘Certificate of Excellence’ for exemplary work for last 3 years 2013, 2014 and 2015 by Ministry of Health in the State of Kuwait.

## PUBLICATIONS

### **Ongoing projects:**

**Kuwait Diabetic Retinopathy study: Comparison of Retinal thickness and macular volume in patients with Non Proliferative Diabetic retinopathy without macular edema with aged matched normal population without Diabetes.**

**Effect of Anti VEGF injection on retinal thickness after cataract surgery in patients with diabetic retinopathy with and without macular edema.**

### **Papers Published in Peer-Reviewed Journals**

**Raizada S, Kandari J, Sabti K. Ophthalmic Endoscope. A novel diagnostic Imaging tool. Int J of Diag Imaging. 2017 Vol 4, No 2. 9-15.  
DOI: 10.5430/ijdi.v4n2p9.**

**Raizada S, Kandari J, Fahad D, Khalid S, Kumar N, Sebastian M. Pars Plana Vitrectomy versus three intravitreal injection of Bevacizumab for refractory non-tractional diabetic macular edema. A prospective, randomized comparative study.** Indian J Ophthalmol. 2015 Jun;63(6):504-10. doi: 10.4103/0301-4738.162602.  
<http://www.ncbi.nlm.nih.gov/pubmed/26265641>

Wani V.B., Sabti K., Kumar N., **Raizada S.**, Kandari J.A., Harbi M.A., Sawaan R, Rajaram U, Al-Naqeeb N, Shukkur M., **'Structural and Functional Results of Indirect Diode Laser Treatment for Retinopathy of Prematurity from 1999 to 2003 in Kuwait'**, Clin Ophthalmol. 2013;7:271 -  
<http://www.ncbi.nlm.nih.gov/pubmed/23403936>

Sabti K., **Raizada S.**, **'Endoscope Assisted Pars Plana Vitrectomy in Severe Ocular Trauma'**, Br J Ophthalmol. 2012 Nov;96(11):1399-403  
<http://www.ncbi.nlm.nih.gov/pubmed/22952401>

**Raizada S.**, Kandari J., Sabti K. **'Will Beat-Rop Group Results Really Beat Rop?'** Invest Ophthalmol Vis Sci. 2011 Nov 29;52(12):9288-9.  
<http://www.ncbi.nlm.nih.gov/pubmed/22127432>

**Raizada S.**, Kandari J., Foudari A. **'Early Experience with Intravitreal Bevacizumab Combined with Laser Treatment for Retinopathy of Prematurity'**, Middle East African Journal of Ophthalmology, Volume 18, Number 2, April - June 2011  
<http://www.ncbi.nlm.nih.gov/pubmed/21731338>

**Raizada S.**, Al Sabti K., **'Endoscope Assisted Enhanced Internal Search for Iatrogenic Retinal Breaks in 20-Gauge Macular Surgery'**, Br J Ophthalmol. 2011 Jan 17 - <http://www.ncbi.nlm.nih.gov/pubmed/21242580>

Wani V.B., Kumar N., Sabti K., **Raizada S.**, Rashwan N., Shukkur M.M., Harbi M. , **'Results of Screening for Retinopathy of Prematurity in a Large Nursery in Kuwait: Incidence and Risk Factors'**. Indian J Ophthalmology 2010 May-Jun; 58 (3): 204-8 - <http://www.ncbi.nlm.nih.gov/pubmed/20413922>

Kandari J.A., **Raizada S.**, Razzak A.A., **'Accidental Laser Injury to the Eye'**, Ophthalmic Surg Lasers Imaging. 2010 Mar 9:1-5 -  
<http://www.ncbi.nlm.nih.gov/pubmed/20337345>

Wani V.B., Al Sabti K., Kumar N., Mathew S., Al Kandari J., **'Raizada S.**, **'Endophthalmitis After Vitrectomy and Vitrectomy Combined with Phacoemulsification: Incidence and Visual Outcomes'**, Eur J Ophthalmol. 2009 Nov-Dec;19(6):1044-9 -  
<http://www.ncbi.nlm.nih.gov/pubmed/19882569>

**Raizada S.**, Al Sabti K., **'A Study of the Efficacy Of Endoscopic Cyclophotocoagulation for the Treatment of Refractory Glaucomas'**,

Indian J Ophthalmol. 2009 Sep-Oct;57(5):406-7 -  
<http://www.ncbi.nlm.nih.gov/pubmed/19700888>

Al Sabti K., **Raizada S.**, Al Abduljalil T., '**Cataract Surgery Assisted by Anterior Endoscopy**', Br J Ophthalmol. 2009 Apr;93(4):531-4. Epub 2009 Jan 16 - <http://www.ncbi.nlm.nih.gov/pubmed/19151011>

Sabti K.A., **Raizada S.**, Kandari J.A., Wani V., Gayed I., Kumar N., '**Applications Of Endoscopy in Vitreoretinal Surgery**', Retina. 2008 Jan;28(1):159-66 -  
<http://www.ncbi.nlm.nih.gov/pubmed/18185155>

**Raizada S.**, '**Phacoemulsification and Pars Plana Vitrectomy: A Combined Procedure**', Indian J Ophthalmol. 2007 Nov-Dec;55(6):487-8 -  
<http://www.ncbi.nlm.nih.gov/pubmed/17951921>

Biswas J., Ganeshbabu T.M., Raghavendran S.R., **Raizada S.**, Mondkar S.V., Madhavan H.N., '**Efficacy and Safety of 1% Rimexolone Versus 1% Prednisolone Acetate in the Treatment of Anterior Uveitis - A Randomized Triple Masked Study**', Int Ophthalmol. 2004 May;25(3):147-53 - <http://www.ncbi.nlm.nih.gov/pubmed/15847313>

'**Silicone Oil Study Group of Sankara Nethralaya. Use of Silicone Oil in the Management of Complex Retinal Detachment – an Indian Experience**', Int Ophthalmol 2004 May; 25 (3): 129-42

Al Sabti K., **Raizada S.**, Wani V.B., Al Ajmi M., Gayed I., Sugathan T.N., '**Efficacy and Reliability of Fundus Digital Camera as a Screening Tool for Diabetic Retinopathy in Kuwait**', J Diabetes Complications. 2003 Jul-Aug;17(4):229-33 - <http://www.ncbi.nlm.nih.gov/pubmed/12810247>

Biswas J., **Raizada S.**, Gopal L., Kumarasamy N., Solomon S., '**Bilateral Frosted Branch Angiitis and Cytomegalovirus Retinitis in Acquired Immunodeficiency Syndrome**'. Indian J Ophthalmol. 1999 Sep;47(3):195-7 - <http://www.ncbi.nlm.nih.gov/pubmed/10858779>

Biswas J., Joseph A.E., **Raizada S.**, Kumarasamy N., Solomon S., '**Ophthalmic Manifestations of Acquired Immuno Deficiency Syndrome in India**', Indian J Ophthalmol 1999 ; 47: 87-93.

Biswas J., **Raizada S.**, '**Immunopathology of Uveitis**', Indian J Lepr. 1998 Jan-Mar;70(1):11-25 - <http://www.ncbi.nlm.nih.gov/pubmed/9598401>

### **Chapters Published in Books**

Biswas J., **Raizada S.**, '**Fuchs' Heterochromic Uveitis**', Modern Ophthalmology: L.C. Dutta, J.P. Brothers Publishing House.

Biswas J., **Raizada S.**, '**Cilio Choroidal Detachment**', Modern Ophthalmology: L.C. Dutta, J P Brothers Publishing House.

'**Diabetic Retinopathy Eye Disorder and Diabetes**', Rajendran V., Battu R., **Raizada S.**, Shanmugam M.P., Badrinath S.S., RSSDI Text Book Of Diabetes Mellitus, Second Edition, 2007

## POSTER PRESENTATION

- Feb 2012** Kandari J., **Raizada S.**, '**Pars Plana Vitrectomy in Eyes with Refractory Diabetic Macular Edema Complicated by Vitreo Macular Traction**', World Ophthalmology Congress, Abu Dhabi
- May 2011** Kandari J., **Raizada S.**, '**Role of Pars Plana Vitrectomy in Refractory Diabetic Macular Edema Complicated With Vitreo Macular Traction Syndrome**', Euretina Congress, London 2011
- Feb 2011** Sabti K., **Raizada S.**, '**Endoscopic Vitrectomy in Severe Ocular Trauma**', Euretina Congress, London 2011
- Feb 2007** Sabti K., **Raizada S.**, Alabduljalil T., '**Clinical Applications of Endoscopy in Cataract and Anterior Segment Surgeries**', HSC Poster Conference, Faculty of Medicine, Kuwait University. 2010
- Dec 1997** Biswas J., **Raizada S.**, Kumarasamy N., and Solomon S., '**Frosted Branch Angiitis Associated with Cytomegalovirus Retinitis in Acquired Immunodeficiency Syndrome**', International Conference on AIDS India 2000, Chennai. India
- Jan 1999** Biswas J., **Raizada S.**, Gopal L., Kumarasamy N., Solomon S., '**Frosted Branch Angiitis Associated with Cytomegalovirus Retinitis in Acquired Immunodeficiency Syndrome**' 57<sup>th</sup> All India Ophthalmological Society Meeting, Cochin. India
- Jan 1999** Biswas J., Joseph A.E., **Raizada S.**, Raghavendran R.S., Kumarasamy N., Solomon S., '**Ocular Lesions in the First 100 HIV Positive Cases in a Referral Eye Centre**', 57<sup>th</sup> All India Ophthalmological Society Meeting, Cochin. India
- Jan 1999** Biswas J., **Raizada S.**, Kumarasamy N., Solomon S., '**Frosted Branch Angiitis Associated with**

**Cytomegalovirus Retinitis in Acquired Immunodeficiency Syndrome',** The Proceedings of Dicennial Commemoration Conference of the Indo-UK Link Projects on HIV/AIDS, Chennai. India

**Jan 1999**

Biswas J., Joseph A.E., **Raizada S.**, Raghavendran R.S., Kumarasamy N., Solomon S., '**Ocular Lesions in the First 100 HIV Positive Cases in a Referral Eye Centre**', The Proceedings of Dicennial Commemoration Conference of the Indo-UK Link Projects on HIV/AIDS, Chennai. India

### **CONTINUING PROFESSIONAL DEVELOPMENT**

I am actively involved in CPD activities; I keep myself abreast with the latest development in my field by subscribing to and reading leading peer reviewed journals such as AJO, BJO, and RETINA.

I am also 'International Expert Reviewer' with the editorial board of the following leading peer reviewed journals:

- American Journal of Ophthalmology
- Ophthalmic Surgery and Laser Imaging
- Middle East and African Journal of Ophthalmology
- Indian Journal of Ophthalmology
- Oman Journal of Ophthalmology
- International Ophthalmology
- Journal of Clinical Ophthalmology and Research

### **CLINICAL AUDIT**

**Nov 2010**

**Dropped Nucleus Fragment in Vitreous Cavity; Audit and Analysis**

Al Bahar Eye Center, Kuwait

Under supervision of Dr Jamal Al Kandari

**Role:** Audit lead

**Outcome:** Al Bahr Eye centre is a teaching hospital hence every year when new residents join the course and start phacoemulsification we see several cases of complications including nucleus drops and IOL subluxations. Since all these cases are referred to Retina service we decided to do analysis and to recommend precautions and protocols to be followed by residents and anterior segment surgeons in the event of complications during phacoemulsification. We found out that biggest reason for complications during



phacoemulsification was eyes which have undergone vitrectomy for retinal pathology. Moreover, complications were seen in eyes which were deep set or high myopia. We recommended that the senior consultant/instructor should screen the cases and allow the residents to operate on easy cases initially. The audit further recommended that the phaco surgeon should not go after the sinking nucleus if posterior capsule rent occurs. He should just do anterior vitrectomy and close the eye and refer the case to retina specialists.

**December 2007      Audit of Cases Developing Endophthalmitis After Pars Plana Vitrectomy and Combined PPV & Phaco.**

Al Bahar Eye Center, Kuwait  
Under Supervision of Dr Vivek B Wani

**Role:** Member of audit team

**Outcome:** In a period of 10 years from Jan 1997 to Dec 2007, six patients developed endophthalmitis among 2965 cases of all vitrectomy procedures, resulting in an incidence of 0.20%. The incidence of endophthalmitis was 0.12% for cases undergoing vitrectomy (3 out of 2564 cases) and 0.75% for cases undergoing combined vitrectomy and phacoemulsification surgery (3 out of 401 cases), respectively. Three cases were culture positive. Four cases ended up with final visual acuity of perception of hand movements or worse. Incidence of endophthalmitis in our series was higher than in other studies. The visual results were poor in 4 out of 6 cases. It was decided that an earlier diagnosis and a more aggressive approach would improve the results of treatment in these cases.

## RESEARCH EXPERIENCE

My research experience is as follows:

**Apr 1993 – April 1997      ‘Newer Drugs in Medical Treatment of Glaucoma’**  
LLRM Medical College Meerut, India

- I worked with new medications at that time, pilocarpine and clonidine for Primary Open Angle Glaucoma (POAG). We also asked our pharmacy to prepare eye drops with Tablet Acetazolamide. (Dorzolamide was not available at that time). During the research period I found that both Piloclonidine and Topical acetazolamide were effective in decreasing IOP in POAG patients.
- I successfully defended the theses which lead to the awarding of my Master of Surgery degree (M.S. Ophthalmology) in 1997.

**Jan 1998**

**'Histopathological Correlation of Ultrasound Biomicroscopy (UBM) Findings From Enucleated Painful Blind Eyes'**

Department of Uveitis and Ocular Pathology, Medical Research Foundation, Chennai, India

- I worked on clinical research involving ultrasound biomicroscope (UBM). UBM provides high resolution in-vivo images of ocular structures providing lateral and axial physical resolutions of approximately 50  $\mu\text{m}$  and 25  $\mu\text{m}$ , respectively. We studied enucleated painful blind eyes; performed UBM and made cut section slides for microscopic examination. We found that UBM images co-related very well with histopathological slides.
- This resulted in the presentation which I presented at the 7th Annual Meeting of Indian Eye Research Group in January 1998.

**Oct 1997 to Jan 1998**

**'Clinical Research on AIDS patients. Screening and documenting Ocular Lesions in AIDS patients'**

Department of Uveitis and Ocular Pathology, Medical Research Foundation, Chennai, India

- Our study revealed that ocular lesions in HIV patients in India are less common than in USA and Africa. Unlike HIV patients in USA, the most common ocular lesion among HIV patients in India was CMV retinitis and not the cotton wool spot as reported elsewhere.
- The complete results were published in an article entitled 'Ophthalmic manifestations of acquired immunodeficiency syndrome in India' Published in Indian Journal of Ophthalmology IJO in 1999. (see Publications section).

**Dec 1997 to Mar 1998**

**'Efficacy and Safety of Using 1% Rimexolone Eye Drops in the Treatment of Anterior Uveitis'**

Department of Uveitis and Ocular Pathology, Medical Research Foundation, Chennai, India

- This was a randomised, triple blind, placebo control trial.
- Topical steroid drops are the main treatment for anterior uveitis. Long term steroid use may lead to complications such as high intraocular pressure and cataract formation in such patients. Rimexolone is a potent new steroid marketed by Alcon Pharmaceuticals. It is supposed to be as effective as Prednisolone but with minimal side effects such as high IOP or cataract. Our hospital, being a leading eye centre in India, was authorized by the Indian government to carry out trials of new drugs before they were approved for marketing. So, we carried out a randomized triple blind trial to test efficacy and safety of 1% Rimexolone.
- I was responsible for patients' randomization and evaluation.

- We found that 1% Rimexolone was as effective as Prednisolone in the treatment of Uveitis with lesser side effects.
- After completion it was published in International Ophthalmology Journal in 2004. (see Publications section)

**Jan 2001 to Dec 2001      ‘Efficacy and Reliability of Fundus Digital Camera As a Screening Tool for Diabetic Retinopathy in Kuwait’**

Retina Unit, Al Bahar Eye Centre, Kuwait

- This was a prospective, cross sectional, non randomized, control trial.
- The study concluded that digital images provide an efficient method for diagnosing and classifying sight-threatening DR, particularly proliferative diabetic retinopathy (PDR). However, agreement between the digital fundus camera and clinical examination by an ophthalmologist for diabetic maculopathy detection, though substantial statistically, was not very satisfactory. It was also felt that the digital photographs can be used as a tool for teleophthalmology and can be integrated as a screening system in Kuwait.
- The complete results with statistics were published in the article entitled ‘Efficacy and Reliability of Fundus Digital Camera as a Screening Tool for Diabetic Retinopathy in Kuwait’ published in Journal of Diabetes Complications (see Publications section).

**Dec 2011 to Jun 2012      ‘Pars Plana Vitrectomy versus Three Intravitreal Injections of Bevacizumab for Refractory Non-Tractional Diabetic Macular Edema; A Prospective, Randomized Comparative Study’**

- This was a prospective, randomized, comparative, interventional trial
- We found out that post treatment decrease in Central Macular Thickness was more in PPV group and vision improvement more in IVB group. However, no statistically significant difference between the two methods was found.
- This manuscript was published in Indian Journal of Ophthalmology 2015.

## TEACHING EXPERIENCE

Along with clinical work I am deeply involved with academic medicine. I feel that teaching is an integral part of medical profession. We learn from our seniors and peers and in turn should impart our knowledge and experience to others.

Al Bahar Eye Centre is the biggest tertiary comprehensive Eye Care hospital in Kuwait and is affiliated with Faculty of Medicine, University of Kuwait. It is the only eye hospital in Kuwait authorized for under graduate and Post Graduate training in Ophthalmology and to conduct examinations for awarding of Board

Certification for Ophthalmology. I am actively associated with the teaching programme in Kuwait Medical Board for ophthalmology as a senior clinical instructor. I conduct clinics, ward rounds and lectures for Ophthalmology residents.

Convener for Vitreo retinal studies in Kuwait Ophthalmic board.  
Internal Examiner for Kuwait Ophthalmic Board.

In Dasman Diabetes Center I am also involved in the Continuing Medical Education Programme and conduct awareness programmes and lectures on Diabetes and its effect on the eye for GPs, pharmacists and support staff.

## **LEADERSHIP AND MANAGEMENT EXPERIENCE**

I have been a part of management team for various educational symposiums and workshops. Highlights of them are as follows:

- I have been instrumental in preparing (presentation material and logistics) and conducting hands on instruction course on endoscopic vitreous surgery at AAO Chicago 2010 and WOC 2012 Abu Dhabi
- I was part of Organizing Committee for the 14<sup>th</sup> Kuwait Ophthalmology Symposium: Retina Update. April 2012
- I am co-ordinator for Kuwait Ophthalmology Board for Retina Department.