

CURRICULUM VITAE

BRENDAN JOSEPH MORIARTY

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CONSULTANT OPHTHALMIC SURGEON

Specialising in Glaucoma, Laser and Cataract Surgery

Member of the UK, European and American Societies of
Cataract and Refractive Surgeons

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CURRICULUM VITAE

Name: Brendan Joseph Moriarty

Date of Birth: 21 May 1954

Place of Birth: Nantwich, Cheshire

Nationality: British

Sex: Male

Marital status: Married; children 2

Education: St Ambrose College
Altrincham, Cheshire (1963 – 1971)

Medical Training: Trinity College
Cambridge (1972 – 1975)

The Middlesex Hospital
Mortimer Street London (1975 – 1978)

Higher Surgical Training: Accreditation August 1990

DEGREES AND QUALIFICATIONS:-

1. B.A. (Cantab) - 1975
2. M.B., B. Chir – 1978
3. M.A. (Cantab) – 1979
4. Fellowship of the Royal College of Surgeons qua Ophthalmology – 1984
5. Fellow of the Royal College of Ophthalmologists – 1984
6. M.D. (Cantab) – 1989

DOCTOR OF MEDICINE:- Studies of visual loss in sickle cell retinopathy. (Cambridge University). 1989.

PRIZES AND AWARDS:-

1. St Ambrose College – A Level Prize 1971.
2. Moore & Sargeant Prize, Trinity College, Cambridge 1974.
3. Honorary External Fellow in Ophthalmology, St Louis Medical School 1984.
4. Ophthalmic Photograph Society Medal, New Orleans 1986.
5. Medical Research Council Fellowship. MRC Sickle Cell Unit, Jamaica 1985 – 1987.
6. Wellcome Trust Research Fellowship 1987. Electrodiagnostic Dept, Moorfields Eye Hospital.
7. Frost Fellow in Glaucoma. Moorfields Eye Hospital 1987.
8. Wellcome Trust Travel Award – 1988 and 1989.
9. Royal Society of Medicine Award 1989.
10. Moorgate Trust Award – 1989.
11. International Man of Achievement Award – 1989.
12. Honorary Lecturer - University of Liverpool 1995.

POST-GRADUATE EXPERIENCE:-

1. House Surgeon to Mr J R Garnham – Mount Vernon Hospital, Middlesex.
February 1979 – August 1979.
2. House Physician to Dr C J Earl (Dept. of Neurology) – Middlesex Hospital,
London W1. August 1979 – February 1980.
3. Slome/Stansfield Primary FRCS Course. February 1980 – July 1980.
4. SHO in Accident & Emergency – Mount Vernon Hospital Middlesex.
August 1980 – February 1981.

POST-GRADUATE EXPERIENCE IN OPHTHALMOLOGY:-

1. Senior House Officer, Bristol Eye Hospital.
February 1981 – July 1981.

I worked under Mr J C Dean Hart, whose principal interests are neuro-ophthalmology and fluorescein angiography.

2. Senior House Office, Western Ophthalmic Hospital
Marylebone Road, London W1.
February 1982 – April 1983.

I worked on a 14 month rotation under 5 consultants at the Western, the Ophthalmic Unit for St Mary's Hospital. The Consultants interests were:

Mr J L Kennerley-Bankes – Paediatric Ophthalmology
Mr C Townsend – Diabetic Retinopathy
Professor R F Fisher – Lens
Mr R J March – Anterior Segment and Herpes Zoster
Mr Redmond Smith - Glaucoma

3. Registrar to the Princes Charles Eye Unit, King Edward VII Hospital, Windsor
May 1983 – May 1984.

I worked with two Senior House Officer and was responsible to three Consultants.

Mr J J Kanski, Senior Consultant – Mr Kanski is a renowned clinical teacher. His main interests are vitreo-retinal surgery; management of ocular problems in children with chronic arthritis (Still's Disease).

Mr R Packard – Anterior segment surgery, especially extra-capsular cataract surgery and intraocular lens implantation.

Mr J McAllister – Glaucoma.

My position provided varied surgical experience with three enthusiastic Surgeons in a rapidly progressive unit.

4. Fellow and Medical Director to Project Orbis
June 1984 – December 1984.

I volunteered to spend six months' with this internationally renowned "Flying Eye Hospital".

During this time I instructed local surgeons in intraocular lens implantation and operated in a wide variety of conditions, Government Hospitals and Blind Missions.

In Swaziland, I ran the Ophthalmic Unit of the Government Hospital in Mbabane, which served 700,000 people. I helped with preventive eye care programmes for medical assistants and ophthalmic nurses.

5. Fellowship to the Medical Research Council Labs. (Jamaica) and Honorary Senior Resident, University of West Indies July 1985 – August 1987.

This provided opportunity to engage in an active research programme, to continue my interest in medical retinal diseases and to implement preventive ophthalmic programmes.

My responsibilities were:

a) Ophthalmologist to the Medical Research Council Laboratories (Jamaica).

This Unit addresses itself to the sequela of sickle cell disease. I collaborated with Professor Lee Jampol of the University of Illinois Sickle Cell Unit in supervising a trial for the treatment of proliferative sickle retinopathy of argon scatter. Accordingly, I enhanced my skills in fundus and fluorescein photography, laser and retinal detachment surgery.

I collaborated with Professor Alan Bird and Mr John Talbot (Moorfields Eye Hospital) in a longitudinal study of children with sickle cell disease. In addition, I devised a protocol for the assessment of macular function in sickle cell patients.

The Unit is supported chiefly by a N.I.H. grant – I was responsible for writing a proposal for the renewal of the 5 year grant.

b) Senior Resident (Honorary) to the University of the West Indies, Jamaica.

I volunteered to engage in a surgical list, a glaucoma clinic and two general ophthalmic clinics. I was responsible for teaching medical students and ophthalmic nurses, having built a collection of 1,200 teaching slides.

I commenced corneal graft surgery here (22 cases) and established a link with Lions Eye Bank in Miami and Houston. The current demand for corneas in the U.S. has stimulated an interest in establishing an Eye Bank, which I helped to organise, with the Lions.

By securing donations of intraocular lenses I was able to introduce this procedure to the University Hospital (186 cases). I also encouraged the local ophthalmologists in argon laser for diabetic retinopathy and trabeculoplasty.

c) Ophthalmologist to the National Committee to Prevent Blindness.

This committee is chaired by the Minister of Health and is responsible for co-ordinating preventive measures and screening programmes. I was one of two Ophthalmologists invited to become a member of the Committee.

My main interest was the prevention of blindness from Congenital Rubella Syndrome and I co-ordinated a campaign for the inauguration for compulsory rubella vaccination.

d) Ophthalmologist to the Foundation of International Self Help (Fish).

This local community based primary health care clinic was established in 1985 and is largely financed by foreign donations. In 18months' I had:

- i) trained 4 ophthalmic technicians and 2 nurses.
- ii) Secured donations of 10,000 glasses from Canada.
- iii) Established an ambulatory surgery facility for cataract and intraocular lens operations (126 cases).
- iv) Secured donations of an operating microscope, IOLs and instruments. I continue to help this clinic by recruiting volunteers and acting as Medical Advisor to this project.

e) Ophthalmologist to the Salvation Army Blind School.

This institution cares for over 150 blind children and encourages rehabilitation into the community where possible. I volunteered to examine and provide ophthalmic care where necessary. I described the high prevalence of rubella and introduced a scheme for compulsory rubella vaccination and an enhancement of the existing voluntary vaccination of 10 year old girls.

I performed corneal graft surgery on 3 children with good visual rehabilitation, providing further incentive for the local eye bank.

6. Fellow to the Glaucoma Unit, Moorfields Eye Hospital, London WC2.
August 1987 – August 1988.

My post provided excellent experience in clinical management and research in glaucoma under the supervision of Mr Roger Hitchings and Professor Geoffrey Arden.

My responsibilities were:-

a) Clinical –

I collaborated with an enthusiastic team of residents and clinical assistants headed by Mr Roger Hitchings. The Unit is a renowned National referral centre for a formidable array of glaucoma patients, especially secondary and childhood glaucomas.

I assisted in the surgical management of glaucoma, which is particularly innovative at Moorfields – including the use of Argon and Yag lasers, combined procedures and valve implants (Joseph and Molteno types).

I also gained extensive experience in the statistical analysis of automated perimetry with Humphrey Field Analyser. I participated in the screening of glaucoma suspects in the glaucoma prevention and family clinics.

b) Research

I collaborated with the Electro-Diagnostic Unit under the supervision of Professor G Arden and have devised a protocol for a longitudinal study which is assessing pattern electro-retinograms, colour contrast sensitivity and optic disc photogrammetry in ocular hypertension and glaucoma. This has enabled me to assess the role of electro-diagnostic tests in detecting nerve fibre loss prior to the appearance of perimetric changes. These tests are proving valuable in glaucoma screening and follow-up. Ultimately, these objective tests of visual function may replace the costly, laborious and expensive subjective tests such as computer assisted perimetry.

I also received excellent exposure in the wider clinical applications of electro-diagnosis and contrast sensitivity in Professor Arden's distinguished Unit.

7. Lecturer and Senior Registrar St Paul's Eye Hospital, Liverpool.
August 1988 – August 1991

This busy and responsible post contained a varied surgical, teaching and research commitment.

I worked with:-Mr Sidney Davidson - Neuro-ophthalmology and orbits.
Mr Alan Patterson - Paediatric and anterior segment.
Mr Robert Trimble - Paediatric and strabismus.
Mr Peter Wishart - Glaucoma.
Mr David Clark - Screening for retinopathy of prematurity.

8. Consultant Ophthalmologist to Mid-Cheshire Trust and East Cheshire
Hospitals Trust
November 1991 – present day.

Clinical –

My present post is dedicated to providing general ophthalmic care to a large population. I hold special clinics in glaucoma and retinopathy of prematurity. I have established a day case phaco-emulsification service (over 92% day case cataract surgery). I run a tertiary referral service for glaucoma and have been awarded an accredited Glaucoma Fellowship post.

Teaching –

I hold a 3 hour seminar in ophthalmology for General Practitioners entitled “Everything You Ever Wanted to Know About Ophthalmology But Were Afraid To Ask”. This seminar is held 4 times a year. I continue the teaching of undergraduates from Liverpool and Manchester Medical Schools and regularly supervise tutorials for MRCP candidates.

Research –

I have established an active Research Department particularly in glaucoma. We have presented work on laser treatment and “low tension glaucoma”. I have supervised two MD theses undertaken by my Glaucoma Fellows;

- a) The Effect of Laser on Trabecular Meshwork Cells. Principal investigator Mr Roger Haslett.
- b) Evaluation of Inner Retinal Damage and Reactive Astrocytosis in the Normal and Glaucomatous Human Optic Nerve Head and Retina. Principal Investigator Mr Andrew Needham.

VISITING LECTURESHIPS AND CHAIRMANSHIPS

During 1991 I was invited to Chair the New Orleans Academy of Ophthalmology meeting in glaucoma. I presented four lectures and was co-editor of an ensuing book; Glaucoma : Diagnosis & Therapy published by New Orleans Academy of Ophthalmology (1993) Kugler Publications. My co-editors were Bruce Shields, Paul Palmberg and Michael Von Buskirk. My chapters were:-

1. Advanced surgical techniques in glaucoma.
2. Management of cataract and glaucoma.
3. Non perimetric tests in glaucoma.
4. Early surgery in primary open angle glaucoma.

INTERESTS IN OPHTHALMOLOGY

1. Glaucoma.
2. Anterior segment surgery.
3. Medical retinal diseases
4. Preventive ophthalmology.

MEMBERSHIP OF LEARNED SOCIETIES

1. International Member of the American Academy of Ophthalmology
2. Member of the International Society of Geographical Ophthalmology
3. Member of Cambridge University Medical Society
4. Member New Orleans Academy of Ophthalmology
5. Member of UK; European and American Societies of Cataract and Refractive Surgeons.

PUBLICATIONS:

1. **MORIARTY B J**, ACHESON R W & SERJEANT G R
Epi-retinal membranes in sickle cell disease.
BRITISH JOURNAL OF OPHTHALMOLOGY 1987, 71; 466 – 469.
2. **MORIARTY B J**, ACHESON R W, CHAR J N & SERJEANT G R
Diabetic retinopathy and visual loss in Jamaican population.
WEST INDIAN MEDICAL JOURNAL 1987; 36; 14 – 17.
3. **MORIARTY B J** & CHAR J N
Electrical injury and cataracts.
WEST INDIAN MEDICAL JOURNAL 1987; 36; 114 – 117.
4. HRISMALOS N F, JAMPOL L M, **MORIARTY B J**, SERJEANT G R
ACHESON R W & GOLDBERG M F
Neodymium-Yag laser vitreolysis in sickle cell retinopathy.
ARCHIVES OF OPHTHALMOLOGY. 198; 10; 1327 – 8.
5. **MORIARTY B J**, WEBB D K & SERJEANT G R.
Treatment of sub-retinal neovascularisation in association with angioid streaks
in sickle cell.
ARCHIVES OF OPHTHALMOLOGY 198; 10; 1327 – 8.
6. **MORIARTY B J**
Childhood blindness in Jamaica.
BRITISH JOURNAL OF OPHTHALMOLOGY 1988;72; 65 – 67.
7. TALBOT J F, BIRD A C, MAUDE G H ACHESON R W, **MORIARTY B J**
& SERJEANT GR
Sickle cell retinopathy in Jamaican children; further observations from a
cohort study.
BRITISH JOURNAL OF OPHTHALMOLOGY 1988, 72; 727 – 32
8. **MORIARTY B J**, ACHESON R W, CONDON P I & SERJEANT G R
Patterns of visual loss in untreated sickle cell retinopathy.
EYE (formerly Transactions of Ophthalmic Society of UK)
1988, 2; 330 – 335
9. **MORIARTY B J**, DUNN D T, CHAR J N & ACHESON R W
Argon laser trabeculoplasty in primary open angle glaucoma – results in a
Jamaican population.
INTERNATIONAL OPHTHALMOLOGY 1988. 12; 217 – 221.
10. **MORIARTY B J**
Ophthalmology in Jamaica.
ARCHIVES OF OPHTHALMOLOGY 1988; 106; 557 - 558

11. **MORIARTY B J**
What's new in Glaucoma.
OPHTHALMIC DIALOGUE 1989 Jan
12. **MORIARTY B J**
Non-perimetric assessments in Glaucoma.
OPHTHALMIC DIALOGUE March 1989
13. **MORIARTY B J, DUNN D T & MORIARTY A P**
Diabetic maculopathy in a Jamaican population.
14. **MORIARTY B J**
Ophthalmology in the Third World
OPHTHALIC DIALOGUE 1989 Dec.
15. FARBER M, JAMPOL L, FOX P, **MORIARTY B J**, ACHESON R, RABB M, SERJEANT G R.
A randomised clinical trial of scatter photocoagulation of proliferative sickle cell retinopathy.
ARCHIVES OF OPHTHALMOLOGY 1991. 109; 363 – 367
16. O'DONOGHUE E, **MORIARTY B J**, ARDEN G A & HITCHINGS R A
Longitudinal changes in a cohort of patients with ocular hypertension and glaucoma.
INV OPHTH VIS SCI 1991 32; 4; 1191
17. O'DONOGHUE E, **MORIARTY B J**, ARDEN G A & HITCHINGS R A
The role of the PERG in screening glaucoma suspects.
INV OPHTH VIS SCI 1989; 30; 4; 456
18. **MORIARTY B J**
Early surgery in primary open angle glaucoma.
IN GLAUCOMA : DIAGNOSIS & THERAPY.
PUBLISHED BY NEW ORLEANS ACADEMY OF OPHTHALMOLOGY (1993)
KUGLER PUBLICATIONS P69 – 80.
19. **MORIARTY B J & O'BRIEN C**
Management of cataracts and glaucoma.
IN GLAUCOMA : DIAGNOSIS & THERAPY. PUBLISHED BY NEW ORLEANS ACADEMY OF OPHTHALMOLOGY (1993)
KUGLER PUBLICATIONS P159 – 168.

20. **MORIARTY B J**
Non-perimetric tests in glaucoma.
IN GLAUCOMA : DIAGNOSIS & THERAPY. PUBLISHED BY NEW
ORLEANS ACADEMY OF OPHTHALMOLOGY (1993)
KUGLER PUBLICATIONS P25 – 35

21. **MORIARTY B J, FALCOM M & MORIARTY A P**
Advanced surgical techniques in glaucoma.
IN GLAUCOMA : DIAGNOSIS & THERAPY. PUBLISHED BY NEW
ORLEANS ACADEMY OF OPHTHALMOLOGY (1993)
KUGLER PUBLICATIONS P 181 – 197.

22. **O’SULLIVAN F, MORIARTY B J, O’DONOHUE E, ARDEN G A &
HITCHINGS R A**
The pattern of electroretinogram in glaucoma.
BRITISH JOURNAL OF OPHTHALMOLOGY 1992 76; 387 – 394

23. **NEEDHAM A D, BROTCHE D, WARDROP D R A, MORIARTY B J,
GRIERSON I.**
Identification and comparison of astrocytosis in the traumatised and
glaucomatous human optic nerve head.
OPHTHALMIC RESEARCH 30. 1998 SUPP 1.

24. **NEEDHAM A D, BROTCHE D, WARDROP D R A, MORIARTY B J,
ROSS M & GRIERSON I.**
Demonstration of reactive astrocytosis in the glaucomatous human optic nerve
head using a modified PTAH stain.
IOVS 1999. MARCH 40 (4).

MAJOR COMMUNICATIONS TO LEARNED SOCIETIES

1. **MORIARTY B J**
Diabetic retinopathy in Jamaica – the prevalence and management.
JAMAICAN OPHTHALMIC SOCIETY, Kingston, March 1986.
2. **MORIARTY B J, FORD S M.**
The natural history of photography of sickle cell retinopathy in Jamaica.
AMERICAN SOCIETY OF OPHTHALMIC PHOTOGRAPHY/
New Orleans, November 1986.
3. **MORIARTY B J**
Laser treatment for diabetic and sickle cell retinopathy.
HAITIAN OPHTHALMIC SOCIETY, Port-au-Prince, March 1987.
4. **MORIARTY B J, ACHESON R & SERJEANT G R**
Patterns of visual loss in sickle cell retinopathy.
OPHTHALMOLOGICAL SOCIETY OF THE UNITED KINGDOM.
Cardiff, April 1987.
5. **MORIARTY B J**
Non-perimetric assessment in glaucoma.
OXFORD CONGRESS OF OPHTHALMOLOGY July 1988.
6. **MORIARTY B J, HITCHINGS R A, ARDEN G, WEINSTEIN G W**
Pattern electroretinograms in the detection of glaucoma.
AMERICAN ACADEMY OF OPHTHALMOLOGY. Las Vegas Oct 1988.
7. **MORIARTY B J, DUNN D T & SERJEANT G R**
Macular function and vasculature in sickle cell disease.
INAUGRAL CONGRESS OF COLLEGE OF OPHTHALMOLOGISTS
London, April 1989.
8. **O'DONOHUE E, MORIARTY B J, HITCHINGS R A & ARDEN G A**
The pattern of ERG in the assessment of the glaucoma suspect.
GLAUCOMA GROUP MEETING. INAUGRAL CONGRESS OF THE
COLLEGE OF OPHTHALMOLOGISTS, London, April 1989.
9. **O'DONOHUE E, MORIARTY B J, HOGG C, HITCHINGS R A, ARDEN G.**
The role of the pattern electroretinogram in glaucoma screening. ARVO
April 1989. Sarasota, USA.
10. **MORIARTY B J**
Sickle cell retinopathy. Clinical features, natural history and treatment.
AMERICAN ACADEMY OF OPHTHALMOLOGY
New Orleans. November 1989.

11. **MORIARTY B J**
Prevention of blindness from proliferative sickle cell retinopathy.
WORLD CONGRESS OF OPHTHALMOLOGY. Singapore, 1990.
12. O'DONOHUE E, **MORIARTY B J**, ARDEN G A & HITCHINGS R A
Longitudinal changes in a cohort of patients with ocular hypertension and
glaucoma.
ARVO April 1991. Sarasota, USA.
13. **MORIARTY B J**
Tests of visual function
NEW ORLEANS ACADEMY OF OPHTHALMOLOGY 1991.
14. **MORIARTY B J**
Glaucoma treatment : What do they get in the Empire?
NEW ORLEANS ACADEMY OF OPHTHALMOLOGY 1991
15. **MORIARTY B J**
Cataract surgery in the glaucoma patient
Graduate level filters
NEW ORLEANS ACADEMY OF OPHTHALMOLOGY 1991
16. **MORIARTY B J**, HASLET R, XIROU S T
Treatment of glaucoma by B. L.T. sequence.
Glaucoma Group. London 1995.
17. **MORIARTY B J** & XIROU S T
Low Tension Glaucoma. The Case of Neurological Assessments.
Glaucoma Group. London 1995.
18. NEEDHAM A D, BROTCHE D, WARDROP D R A, **MORIARTY B J**,
GRIERSON I.
Identification and comparison of astrocytosis in the traumatised and
glaucomatous optic nerve head.
The European Society for Vision and Eye Research (EVER), Majorca October
1998.
19. NEEDHAM A D, BROTCHE D, WARDROP D R A , **MORIARTY B J**,
GRIERSON I.
Utilisation of PTAH stain for the analysis of reactive astrocytosis in the
traumatised and glaucomatous human optic nerve head.
The Glaucoma Society of UK and Eire, London. November 1998.

20. NEEDHAM A D, BROTCHE D, WARDROP D RA , **MORIARTY B J**, GRIERSON I.
Utilisation of a PTAH stain for the analysis of reactive astrocytosis in the traumatised and glaucomatous human optic nerve head.
Roy Mapstone prize entry. Royal Liverpool University Hospital, Liverpool.
December 1998.
21. NEEDHAM A D, BROTCHE D, WARDROP D R A, **MORIARTY B J**, ROSSI M, GRIERSON I.
Demonstration of reactive astrocytosis in the glaucomatous human optic nerve head using a modified PTAH stain.
The Association for Research in Vision and Ophthalmology (ARVO) annual meeting, Fort Lauderdale, Florida May 1999.
22. NEEDHAM A D, BROTCHE D, WARDROP D R A , **MORIARTY B J**, APPLETON P, GRIERSON I.
Quantitative comparison of the inner retinal layers of glaucomatous, diabetic and normal human eyes.
The Glaucoma Society of UK and Eire, London. November 1999.
23. NEEDHAM A D, BROTCHE D, WARDROP D R A, Appleton P, **MORIARTY B J**, GRIERSON I.
Histological evaluation of inner retinal changes in Primary Open Angle Glaucoma.
Roy Mapstone prize entry. Royal Liverpool University Hospital, Liverpool.
December 1999.
24. NEEDHAM A D, BROTCHE D, WARDROP D R A, APPLETON P, **MORIARTY B J**, GRIERSON I.
Histological evaluation of inner retinal changes in Primary Open Angle Glaucoma.
American academy of Ophthalmology Annual Meeting.
Dallas, USA, October 2000.
25. NEEDHAM A D, BROTCHE D, WARDROP D R A, **MORIARTY B J**, GRIERSON I.
Ganglion cell death in primary open angle glaucoma is associated with the morphological preservation of deeper inner retinal layers; an image analysis study.
Submitted to The Association for Research in Vision and Ophthalmology (ARVO) annual meeting, Fort Lauderdale, Florida. May 2001