

CURRICULUM VITAE

Mr ANDREW WILLIAMS

MB, BS; F.R.C.S.[Orth.]

PERSONAL DETAILS

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| Name | Andrew Michael Williams |
| Work: | The Chelsea and Westminster Hospital, 369 Fulham Road, London. |
| Date of Birth | 14 March 1964 |
| Nationality | British |
| Marital Status | Married, with three children. |
| G.M.C. Number | 3199503 |

EDUCATION

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| Schools | Teignmouth Grammar School Exeter School | |
| University | King's College Hospital [Student Union Treasurer 1985-1986] | |
| Orthopaedic Training | The Royal National Orthopaedic Hospital Training Programme 1992 – 1996 Knee and Sports Surgery Brisbane, Australia 1996 - 1997 | |
| Elective Period | Princess Elizabeth Orthopaedic Hospital, Exeter General Hospital Penang, Malaysia Sibu Hospital, Sarawak, Borneo. | |
| Qualifications | M.B., B.S. [London] | July 1987 |
| | F.R.C.S. [London] | October 1992 |
| | F.R.C.S. [Orth.] | November 1995 |
| European Specialist Registration C.C.S.T. | Registered June 1998 Awarded April 1998 | |

POSITION OF RESPONSIBILITY

Executive Committee Member of The British Association of Surgery of The Knee

PRIZES / AWARDS

The Royal College of Surgeons of England **Hunterian Professor 2005 – 2006**

BASK DePuy Research Award 2005 (£45,000 to fund a Tissue Engineering Project)

First Prize Poster in Sports Medicine / Arthroscopy Section:

American Academy of Orthopaedic Surgeons Annual Meeting 2004:

Analysis of Knee Kinematics Following Successful ACL Reconstruction Using Dynamic MRI.

Logan M, Williams A, Lavelle J, Gedroyc W, Freeman MAR.

A.B.C. Traveling Fellow 2002

The Royal College of Surgeons of England **Arnott Lectureship / Medal 2000 - 2001**

'The Virtual Surgeon ACL Reconstruction' Educational CD-ROM:

World Silver Medal New York Festival Educational CD-ROMs;

2nd prize 'Educational TV and Multimedia Association Awards 2000;

'Certificate of Merit' BMA Awards 2000.

The Royal College of Surgeons New York Inc. Travelling Fellowship 1998

Honorary Life Membership, King's College Hospital Medical School Guild of Students

RECORD OF POSTS HELD

PRESENT APPOINTMENT

Consultant Orthopaedic and Trauma Surgeon,
The Chelsea and Westminster Hospital.

PREVIOUS APPOINTMENTS

| | | | |
|-------------------|--|---|--|
| Aug 1987-Jan 1988 | House Surgeon [Orthopaedics and General Surgery] | Mr MAS Mowbray Mr M Sutcliffe | Mayday Hospital, Croydon |
| Feb 1988-Jul 1988 | House Physician | Prof. C Swift Dr KW Pettingale Dr A DuVivier | Professorial Medical Unit, King's College Hospital |
| Aug 1988-Jan 1989 | Anatomy Demonstrator | Prof N Dilly | St. George's Hospital Medical School, London |
| Feb 1989-Jul 1989 | Senior House Officer [A & E] | Mr R Touquet | St. Mary's Hospital, London |
| Aug 1989-Jan 1990 | Senior House Officer [Orthopaedics] | Prof G Bentley Mr R Birch | Royal National Orthopaedic Hospital, Stanmore |
| Feb 1990-Jul 1990 | Senior House Officer [Cardiothoracic Surgery] | Mr SC Lennox Mr P Goldstraw Mr D Kaplan | The Royal Brompton Hospital, London |
| Aug 1990-Jul 1991 | Senior House Officer [General Surgery, Vascular Surgery, and Urology] | Mr RD Leach Mr GH Farrington Mr PEM Jarrett Mr JA Dick | Kingston Hospital, Kingston Upon Thames, Surrey |
| Aug 1991-Jan 1992 | Senior House Officer [Neurosurgery] | Mr RD Illingworth Mr J Rice Edwards Mr PG Richards | Charing Cross Hospital, London |
| Feb 1992-Jul 1992 | Senior House Officer [Plastic Surgery] | Mr ALH Moss | St. George's Hospital, London |

ORTHOPAEDIC TRAINING

ROYAL NATIONAL ORTHOPAEDIC HOSPITAL REGISTRAR ROTATION:

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|-------------------|---|---|
| Aug 1992-Dec 1992 | Mr R Pusey | Basildon and Orsett Hospitals |
| Jan 1993-Jun 1993 | Mr JC Angel Mr J Johnson Mr AO Ransford Mr MF Sullivan | Royal National Orthopaedic Hospital, Stanmore |
| Jul 1993-Jun 1994 | Mr ADH Gardner Mr NB Ker Mr CDR Lightowler | Basildon and Orsett Hospitals |

ROYAL NATIONAL ORTHOPAEDIC HOSPITAL SENIOR REGISTRAR ROTATION:

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| Jul 1994-Dec 1994 | Mr MF Sullivan | Watford General Hospital |
| Jan 1995-Jun 1995 | Prof G Bentley Mr D Singh Mr B Bradnock | Royal National Orthopaedic Hospital, Stanmore |
| Jul 1995-Dec 1995 | Mr JIL Bayley Mr PT Calvert Mr W Muirhead Allwood | Royal National Orthopaedic Hospital, Stanmore |
| Jan 1996-Jun 1996 | Mr A Waterfield Mr MC Stallard | The Queen Elizabeth II Hospital, Welwyn Garden City |

PREVIOUS POSTS [continued]

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| FELLOWSHIP Jul 1996-Jun 1997 | Dr PT Myers Dr P McMeniman | The Brisbane Orthopaedic and Sports Medicine Centre and The Mater Misericordiae Hospitals, Brisbane, Australia |
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| CLINICAL LECTURER Jul 1997- Aug 1997 | Prof G Bentley Mr D Singh Mr B Bradnock | The Institute of Orthopaedics at The Royal National Orthopaedic Hospital, Stanmore |
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| SENIOR LECTURER / HONORARY CONSULTANT Sept 1997- Dec 1999 | Prof G Bentley Mr D Singh | The Institute of Orthopaedics at The Royal National Orthopaedic Hospital, Stanmore |
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SPECIAL INTEREST

I have developed a special interest in all aspects of knee surgery. Associated with soft tissue knee surgery I also deal with a significant amount of sports-related trauma. As a result I am the primary orthopaedic surgeon for a number of professional sports clubs. These include most London Premiership soccer and rugby teams as well as those outside further a field, and teams of both sports in the lower divisions. In addition I undertake work with UK Athletics and the British Judo Association.

My training in this field includes a Fellowship year in Brisbane, Australia with Dr Peter Myers and Dr Peter McMeniman. The emphasis here was on soft tissue knee surgery. Knee arthroplasty including a great deal of complex primary and revision replacement was obtained from my time on the Professorial Unit at Stanmore both as a trainee and as Senior Lecturer / Honorary Consultant.

My research has been focused on the knee. The most significant work thus far has been to establish normal tibio-femoral kinematics employing M.R.I.. My time on the Professorial unit at The Royal National Orthopaedic Hospital, where there is expertise in knee disorders and chondral resurfacing techniques, was very helpful. It has prepared me well for tissue engineering research collaborating with Prof. Polak at The Chelsea and Westminster. I have recently been awarded £45,000 to fund a fellow for work on creating composite osteochondral grafts based on periosteal stem cell culture.

ACADEMIC INTERESTS

RESEARCH

I lead the Orthopaedic research in 'The Interventional MRI Unit' at St Mary's Hospital, Paddington. Their vertical-access open MRI scanner allows lower limb joints to be scanned whilst maintaining the same scanning plane in increments throughout the full flexion arc in a weight-bearing squat. It allows a unique method of studying and defining kinematics in weight-bearing living knees. Findings on meniscal, tibio-femoral, and patellofemoral motion have been published.

The most exciting area concerns tibio-femoral motion. We have taken part in an international collaboration, which allows our weight-bearing MRI data from living knees to be compared with the findings of cadaveric work from Prague and unloaded living knees from Osaka. The work has now defined normal tibio-femoral kinematics throughout the range of motion from hyperextension to deep flexion. Our conclusions challenge widely held beliefs in knee kinematics such as the concepts of 'femoral roll-back' during knee flexion and the cruciate ligament 'four-bar linkage' which have dominated thinking regarding knee motion and knee replacement design for several decades. The understanding of tibio-femoral motion has been fundamentally changed by this work.

In addition to publication I have presented this work nationally and internationally, and had a 'scientific exhibit' with the others involved in the project, at EFORT and the 2001 B.O.A. meeting. For this work I was awarded The Royal College of Surgeons of England's Arnott Lectureship for 2000 - 2001.

We have now defined the relative motion of the femur on the tibia for the whole range of knee flexion. A similar study of knees with isolated anterior cruciate ligament deficiency has also been completed. I presented it at 'The ACL Study Group' Meeting in America in 2002. A poster reporting this was awarded first prize in its category at The AAOS Annual Meeting 2004. We have also reported on the impact of PCL deficiency and ACL reconstruction. Currently the focus of our work is in the study of patellar tendon and fat pad motion. We have a collaborative study with Dr R Steadman's unit in Colorado on this subject.

Cell biology and tissue engineering hold the key to many potential future orthopaedic advances. My background includes working for Professor Bentley at The Institute of Orthopaedics, Stanmore, where there is considerable expertise in the study of the cellular basis of orthopaedic disease and treatment- especially regarding articular cartilage. This includes the only prospective randomised clinical study of Autologous Chondrocyte Transplantation versus Mosaicplasty. It has recently been published in the British JBJS. I have continued to be involved in this important field collaborating with Prof. Polak at The Chelsea and Westminster Hospital who is an acknowledged expert in this field. Current work is focusing on bone and chondrocyte growth and the use of tissue scaffolds. I have been awarded The BASK DePuy Award (£45,000) for a project working with Periosteal stem cells.

Orthopaedics needs high quality clinical research more than ever before. I am committed to this not only for the development of orthopaedic knowledge but as part of the philosophy of training young orthopaedic surgeons, as well as associated with clinical governance. My post

allows me to run a very specialist practice. For example in my first five years in post I have undertaken approximately 150 multi-ligament reconstructions and 200 ACL reconstructions per year. As a result I have great potential for reporting high quality clinical studies.

ACADEMIC INTERESTS

GRAY'S ANATOMY- 39th Edition

I am one of the five Lead Editors of the next Edition of Gray's Anatomy. Due to the pressure on 'space' in the current undergraduate teaching programmes Anatomy receives ever-decreasing emphasis. Therefore the learning of anatomy will become a more postgraduate activity. The 39th edition of Gray's recognises this change whilst maintaining the 'gravitas' associated with this particular work. The most obvious change is a conversion from systemic to regional anatomy. It was published in early December 2004.

TEACHING

I enjoy teaching and naturally this was an important factor in wishing to work in a teaching institution.

I was heavily involved in the running of the 'core curriculum' program for the SpR's on the R.N.O.H. and allied teaching programmes and now I continue to do this at The Chelsea and Westminster. In particular I have been active in preparing those taking the FRCS [Orth] examination. I was responsible for the running of the University College London Hospitals undergraduate musculoskeletal course and still take part in the R.N.O.H. MSc orthopaedic course. I have been a convenor for the R.N.O.H. Stanmore Basic Science, Knee Arthroplasty, and Arthroscopy Courses. I am now running courses at The Chelsea and Westminster Hospital. I am increasingly invited to speak at local, national, and international venues.

I have been involved in projects to produce multi-media educational CD-ROMs on anterior cruciate ligament reconstruction ['The Virtual Surgeon' and a new one for the R.N.O.H. arthroscopy course], meniscal suture, and 'Common Knee Conditions' for G.P.s. The former combines text, video footage of live surgery, and 3-D animations of surgery. I hope this is of good educational value. The reviews have been very gratifying. Indeed 'The Virtual Surgeon' has received international awards [see 'awards' above].

Orthopaedic Training is undergoing major change. As a result the quality of Orthopaedic teaching has to improve greatly to enable rapid and effective education. I look forward to continuing to contribute to this stimulating challenge in the future.

JOURNAL REVIEWER

I regularly review papers on knee-related topics for the British Volume of The Journal of Bone and Joint Surgery

MEETINGS -TEACHING

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| Nov 1994 | Convenor for 'Minimally Invasive Surgery of The Lumbar Spine' Course at R.N.O.H., Stanmore. |
| June 95, Nov 97, Oct 98, Oct 99, June, Dec 00, May 01 Nov 01. | Faculty member for R.N.O.H. 'Basic and Intermediate Knee Arthroscopy' Courses. |
| Nov 1995 | Convenor and Session Chairman of The Royal College of Surgeons' Audit Conference for Registrars and Senior Registrars. |
| Oct 1997, Nov 1998, Sept 1999 | Faculty for 'Basic Knee Arthroplasty' Course at R.N.O.H., Stanmore. |
| June 1998 | Chairman of Knee Surgery Session 'Continental Surgeons Meeting' at R.N.O.H., Stanmore. |
| Sept 1998 & 1999 | Faculty for R.N.O.H. 'Musculo-Skeletal Radiology Course' for Radiologists. |
| March & Sept 1999, 2000, 2001 | Convenor and Faculty for R.N.O.H. 'Basic Sciences Course for FRCS [Orth.]' |
| May 1999 | Session Chairman at R.N.O.H., Stanmore for the visiting North American A.B.C. Fellows. |
| Jan & Dec 2000, July 2001 | Faculty Member for Royal College of Surgeons of England Arthroscopy Course. |
| Nov 2000, 2002, 2004 | Faculty for Biannual Cruciate Ligament Meeting, Wexham Park Hospital |
| November 2001 | Convenor and Faculty for Chelsea & Westminster Basic and Intermediate Knee Arthroscopy Course |
| November 2001 | Faculty for the Wellington Knee Unit International Meeting on Multiple Ligament Injury to the Knee |
| Sept 2002 | Faculty International Knee Replacement Meeting, Rome |
| Nov 2002 | Faculty Wexham Park Biannual Cruciate Ligament Meeting, Slough |
| March 2003 | Faculty 'The Chelsea & Westminster Arthroscopy Course', Belfast |

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| May 2003 | Faculty The Royal National Orthopaedic Hospital Continental Surgeons Course |
| Aug 2003, Feb 2004 | Convenor and Faculty Chelsea and Westminster Meniscal Repair Course [Cadaveric Workshop] |
| October 2003 | Faculty International Knee Replacement Meeting, Seville |
| October 2003 | Faculty The Australian Knee Society Meeting, Adelaide |
| October 2003 | Faculty The Australian Orthopaedic Association Meeting, Adelaide |
| November 2003 | Convenor and Faculty The Wellington International Knee Meeting, London on Knee Replacement |
| November 2003 | Faculty Warwick Knee Sports Injury Meeting |
| December 2003 | Faculty UK Association of Doctors in Sport Meeting 'The Infrapatellar Tendon' |
| January 2004 | Faculty Windsor Knee Meeting |
| May 2004 | Faculty Newcastle Arthroscopy Course |
| Nov 2004 | Faculty Wexham Park Biannual Cruciate Ligament Meeting, Slough |
| Jan 2005 | Faculty 4 th Advances in ACL Reconstruction, Warwick |
| Feb 2005 | Convenor and Faculty Cadaveric Meniscal Repair Course, Nottingham |
| March 2005 | Faculty 'The Chelsea & Westminster Arthroscopy Course', Belfast |
| April 2005 | Invited Lecture MIT, Boston |
| April 2005 | Faculty Wellington International Knee Meeting: Complex TKR |
| May 2005 | Faculty Sports Medicine Day Arsenal F.C. |
| June 2005 | Faculty 'Hot Topics in Hips and Knees' Meeting, Santa Barbara, USA |
| June 2005 | Faculty Continental Surgeons Meeting, RNOH, Stanmore |
| July 2005 | Faculty Annual Winter Meeting, Cairns, Australia |

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| Sept 2005 | Faculty The 1 st World Conference on Track & Field- 'Run, Jump, Throw.' UK Doctors in Sport, Newcastle |
| Sept 2005 | Faculty International Knee Meeting, Athens |
| Oct 2005 | Faculty Warwick Sports Knee Meeting |
| Nov 2005 | Invited Speaker South African Innovations in Hip / Knee Arthroplasty Meeting |
| Nov 2005 | Convenor Nottingham Meniscal Suture Course |
| Mar 2006 | Keynote Speaker Dutch Arthroscopy Association, Ermelo, Holland |
| Mar 2006 | Faculty Bristol Basic Arthroscopy Course, Bristol |
| Apr 2006 | Faculty Guys' Hospital Meniscal Suture Course, London |
| May 2006 | Faculty Wellington International Knee Meeting, London |
| May 2006 | Invited Speaker ESSKA, Innsbruck, Austria |
| June 2006 | Faculty Guys' Hospital Double-Bundle ACL and PCL Course |
| Sept 2006 | Faculty International Knee Meeting, Rhodes |
| Nov 2006 | Faculty Wexham Park Biannual Cruciate Ligament Meeting, Slough |

MEETINGS ATTENDED [excluding attendances at B.O.A. Meetings]

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| Aug 1991 | Advanced Trauma Life Support [A.T.L.S.] | St Mary's Hospital, Paddington |
| Apr 1992 | Microsurgery Course | Northwick Park Hospital |
| Nov 1992 | British Orthopaedic Foot Surgery Society Instructional Course | R.N.O.H., Stanmore |
| Dec 1992 | Basic A.O. Fracture Fixation Course | Davos |
| Apr 1993 | First European Congress of Orthopaedics [E.F.O.R.T.] | Paris |
| Sept 1993 | Reading Shoulder Course | Reading University |
| Apr 1994 | A.O.S.S.M. / E.S.S.K.A. Sports Surgery Meeting | R.N.O.H., Stanmore |
| June 1994 | Orthofix External Fixator Course | Verona |
| June 1994 | Management of Sports Injuries Course | Royal College of Surgeons, London |
| Oct 1994 | Revision Total Knee Replacement Symposium | The Royal Postgraduate Medical School, Hammersmith Hospital |
| Nov 1994 | Surgery and The Law | The Royal College of Surgeons, London |
| Nov 1994 | Knee and Shoulder Arthroscopy Course | R.N.O.H., Stanmore |
| Nov 1994 | Anterior Cruciate Ligament Symposium | Wexham Park Hospital |
| Mar 1995 | Changing Concepts in Children's Orthopaedics | Charing Cross Hospital |
| Apr 1995 | B.O.S.T.A. Management of Sports Injuries | The Royal College of Surgeons, London |

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| Feb 1996 | Approaches to The Anterior Cruciate Ligament and Meniscal Suturing - A 'Hands-On' Cadaveric Course | The Royal College of Surgeons, London |
| Mar 1996 | Shoulder Arthroplasty | R.N.O.H., Stanmore |
| Apr 1996 | The Exeter Hip Course | Princess Elizabeth Orthopaedic Hospital, Exeter |
| Apr 1996 | B.O.S.T.A. Management of Sports Injuries | The Royal College of Surgeons, London |
| July 1996 | Australian Orthopaedic Association Continuing Orthopaedic Education- Sports Injuries of The Knee | Hamilton Island |
| Oct 1996 | Australian Orthopaedic Association Meeting | Perth |
| March 1998 | Advances in Knee Arthroplasty | Wellington Hospital, London |
| March 1998 | Management Course | University College London Hospitals |
| Sept 1998 | Complex Ligament Reconstruction Course - Cadaveric Surgery | Dublin |
| Oct 1998 | Combined B.O.A. / I.O.A. Meeting | Dublin |
| Nov 1998 | Biannual Cruciate Ligament Meeting | Wexham Park Hospital |
| Apr 1999 | Total Knee Arthroplasty | Institute of Mechanical Engineers, London |
| Jun 1999 | E.F.O.R.T. | Brussels |
| Sept 1999 | ACL Symposium | Avon Orthopaedic Centre, Bristol |
| Nov 1999 | PCL and Complex Ligament Instability Course | Princess Margaret Rose Hospital, Edinburgh |

COURSES CONTINUED:

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| Dec 1999 | Advanced Fracture AO Course | Davos |
| Feb 2000 | Osteotomy Employing The Puudu Plate | Haslar, Portsmouth |
| Mar 2000 | Oxford Unicompartmental Knee Replacement Users' Course | Oxford |
| April 2000 | World Sports Medicine Congress | Gold Coast, Queensland |
| May 2000 | Treatment of Unicompartmental Knee Arthritis | Bristol |
| July 2000 | Ankle Arthroscopy | Amsterdam, Netherlands |
| Sept 2000 | E.S.S.K.A. Meeting | London |
| Oct 2000 | Advanced Knee Arthroplasty | Seville |
| Mar 2002 | ACL Study Group | Montana, USA |
| May 2002 | Combined AOA / COA Meeting | Victoria, Canada |
| Sept 2002 | B.O.A. Meeting | Cardiff |
| Oct 2002 | International Knee Arthroplasty | Rome |
| Nov 2002 | Biannual Cruciate Ligament Meeting | Wexham Park Hospital |
| Mar 2003 | Belfast Arthroscopy Course | Belfast |
| Jun 2003 | Controversies in Knee Surgery | London |
| Mar 2004 | American Academy of Orthopaedic Surgeons Annual Meeting | San Francisco |
| May 2004 | ACL Study Group | Sardinia |
| May 2004 | ESSKA Meeting | Athens |
| Sept 2004 | BOA Meeting | Manchester [Session Chair] |
| Oct 2004 | Australian Knee Society Annual Meeting | Sydney |

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| Oct 2004 | Combined Meeting of English Speaking Orthopaedic Associations | Sydney |
| Nov 2004 | Wexham Park Biannual Cruciate Ligament Meeting | Wexham Park Hospital |
| March 2005 | BASK Annual Meeting | Newcastle |
| May 2005 | Amsterdam Ankle Arthroscopy Course | Amsterdam |
| Sept 2005 | BOA Meeting | Birmingham |
| Mar 2006 | BASK Annual Meeting | Slough |
| May 2006 | ESSKA | Innsbruck, Austria |

INVITED LECTURES [excluding at instructional courses]

'Sports-Related Disorders of the Shoulder'

Presented to the West London Orthopaedic Trainees' Core Curriculum May 1996.

'The Management of Patello-Femoral Disorders'

Presented at 'The Continental Surgeons Meeting' at R.N.O.H., June 1998

'Dynamic M.R.I. in the Study of Meniscal and Patello-Femoral Motion'

Presented to The R.S.M. Orthopaedic Section Summer Meeting, June 1998.

'Dynamic M.R.I. in the Study of Knee Motion'

Presented to The Royal College of Radiologists April 1999.

'Advances in the Understanding of Knee Kinematics'

Presented to The Wellington Hospital Knee Unit 'Knee Update Meeting' 2000, 2001

'Autologous Chondrocyte Transplantation'

Presented to The Wellington Hospital Knee Unit 'Knee Update Meeting' 2000, 2001

'Osteotomy and Knee Ligament Deficiency'

Presented at The Bristol Unicompartamental Osteoarthritis of the Knee Meeting May 2000

'The Essentials of Injury to The Anterior Cruciate Ligament'

Presented to The R.N.O.H. teaching course on knee disorders, Sept 2000

'The Motion of The Femur On The Tibia During Knee Flexion and The Shapes Of The Articulating Surfaces'

The Royal College of Surgeons of England Arnott Prize Lecture September 2000

'Advances in the Teaching and Practise of Cruciate Ligament Surgery'

Presented at the Bi-annual Wexham Park Hospital Cruciate Ligament Meeting, Nov 2000

'Dynamic M.R.I. and the Understanding of Knee Kinematics'

Presented to the Bristol Registrar Training Meeting Feb 2001

'Knee Conditions and Their Management in The Elderly'

Presented to the NW Thames Care of the Elderly SpR Meeting April 2001

'Normal Tibio-Femoral Motion'

Presented at 'The Controversies In Knee Surgery' Meeting RSM June 2001

'The Shapes of the Articulating Surfaces and the Motion of The Femur on the Tibia During Knee Flexion'

Presented to The British Society of Clinical Anatomists Annual Conference Dec 2001

INVITED LECTURES [excluding at instructional courses] Continued:

‘Kinematics of the Normal and Replaced Knee’

Presented to the South West Thames Core Curriculum January 2002

‘Tibiofemoral kinematics of the normal and ACL-deficient Knee’

Presented at the Continental Surgeons’ Meeting, Stanmore, June 2002

‘Understanding Normal Knee Kinematics- A Dynamic MRI Study and ‘Dealing With The Infected TKR’

Presented at The International Knee Arthroplasty Meeting, Rome, Oct 2002

‘MRI Advances in Assessing the Cruciate Deficient Knee’

Biannual Cruciate Ligament Meeting, Wexham Park Hospital, Nov 2002

‘Injury and Management of The Medial Collateral Ligament’

The Rugby Football Union Conference on Rugby-Related Injury, April 2003

‘Complex Total Knee Replacement’

The Continental Surgeons Course, The Royal National Orthopaedic Hospital, June 2003

‘Arthroscopic Management of OA’

International Knee Arthroplasty Meeting, Seville, Oct. 2003

‘Osteotomy in the Management of OA’

International Knee Arthroplasty Meeting, Seville, Oct. 2003

‘Four-Bar Linkage and Roll-Back Disproved- Normal Tibio-Femoral Kinematics as Proven By “Dynamic MRI”

Keynote Lecture. The Annual Meeting of The Australian Knee Society, Barossa Valley, Oct. 2003

‘Tibio-Femoral Kinematics in the Cruciate Deficient and Reconstructed Knee- As Studied by “Dynamic MRI”

Keynote Lecture. The Annual Meeting of The Australian Knee Society, Barossa Valley, Oct. 2003

‘Understanding Knee Motion- The Application of “Dynamic MRI”

Keynote Lecture. The Australian Orthopaedic Association, Adelaide, Oct. 2003

‘Normal Tibio-Femoral Motion’

Wellington International Knee Meeting- Advances in Knee Replacement, Nov. 2003

‘Surgery and Rehabilitation of Multiple Ligament Injuries of the Knee’

London Association of Physiotherapists In Private Practice, London, Nov. 2003

INVITED LECTURES [excluding at instructional courses] Continued:

‘The Management of Multiple Ligament Injuries of The Knee’

Warwick Sports Injuries of the Knee Meeting, Warwick University, Nov. 2003 and 2005
And The Windsor Knee Meeting Jan. 2004

‘The Management of Ruptures of the Infrapatellar Tendon’

UK Association of Doctors in Sport, London, Dec. 2003

‘The Classification of Knee Ligament Injuries’

The Windsor Knee Meeting, Jan. 2004

‘Knee Anatomy in Motion- Tibio-Femoral and Cruciate Ligament Kinematics as Studied by “Dynamic M.R.I.” ’

ESSKA Meeting, Athens, May 2004

Biomechanics Of The Normal Versus ACL Deficient Knee

Association of Chartered Physiotherapists, London, May 2004

‘Uncommon Knee Injuries’

British Association of Sports Medicine, Sept 2004

‘The Management of Knee Dislocations’

East Anglia Orthopaedic Club Meeting, Peterborough, Nov 2004

‘The Study of Knee Motion Employing ‘Dynamic’ MRI’

CIMIT Forum Brigham and Women’s Hospital, Boston, USA, April 2005

‘How The Knee Really Moves’

The Continental Surgeons Meeting, RNOH, Stanmore, June 2005

‘The Management of Ruptures of The Infrapatellar Tendon’

The 1st World Conference on Track & Field- ‘Run, Jump, Throw.’
UK Doctors in Sport, Newcastle, Sept 2005

‘The Management of Multi-Ligament Injuries’

The Royal London Core Curriculum Course, Aug 2005

The 2005 Hunterian Lecture: ‘Tibio-Femoral Motion in Health and Disease’

The Annual BOA Meeting Birmingham Sept 2005

The Future is Now? - Knee Arthroscopy

Keynote Lecture, Annual Meeting Dutch Arthroscopy Association, Mar 2006
Netherlands

The Sense and Nonsense of Absorbable Devices

Keynote Lecture, Annual Meeting Dutch Arthroscopy Association, Mar 2006
Netherlands

Understanding Knee Motion

The Manchester Core Curriculum Course Apr 2006, Manchester

The Radiological Assessment of Multiple-Ligament Injuries

Invited Speaker Multi-Ligament Injury Symposium, ESSKA May 2006, Innsbruck, Austria

Tissue Engineering –Where are we now?

Invited Speaker BASK Symposium, ESSKA May 2006, Innsbruck, Austria

REGULAR LECTURES

R.N.O.H. Lectures- a regular lecturer for the MSc and BSc courses.

FUTURE LECTURES / MEETINGS

Lecture Tour Australia June 2006

The Biannual Wexham Park Cruciate Ligament Meeting 2006

PUBLICATIONS
[in chronological order]

SEQUENTIAL SILASTIC AND EXPANDABLE METAL STENTING FOR TRACHEO-BRONCHIAL STRICTURES

Tsang V, Williams AM, Goldstraw P
Annals of Thoracic Surgery 1992; 53[5]: 856-60

Presented to American Thoracic Society May 1991 by V. Tsang

ANTERIOR CRUCIATE LIGAMENT RUPTURE AND ITS MANAGEMENT

Williams AM, Bentley G
Hospital Update 1995[Apr]; 181-191

EPIDURAL ANAESTHESIA AND URINARY DYSFUNCTION- THE RISKS IN TOTAL HIP REPLACEMENT

Williams AM, Price N, Willett K
JRSM 1995; 88: 699-701

Presented by A. Williams to The British Orthopaedic Association Sept. 1991.
Winner 1st Prize St Mary's Short Paper Contest 1991.
Abstract: Orthopaedic Proceedings Supplement of JBJS 1992

KNEE LENGTH VERSUS THIGH LENGTH GRADUATED COMPRESSION STOCKINGS

Williams AM, Rhys Davies P, Sweetnam D, Harper G, Pusey R,
Lightowler CDR
British Journal of Surgery 1996; 83: 1553

Presented by A. Williams to The British Orthopaedic Association Sept. 1993

THE BIFURCATE CORACO-ACROMIAL LIGAMENT: AN ARTHROSCOPIC VARIANT

Williams AM, Calvert PT, Bayley JIL
Arthroscopy 1997; 13[2]: 233-234

LOCALISED PIGMENTED VILLONODULAR SYNOVITIS- A RARE CAUSE OF LOCKING OF THE KNEE

Williams AM, Myers PT
Arthroscopy 1997; 13[4]: 515-516

PUBLICATIONS CONTINUED:

ERROR OF TECHNIQUE LEADING TO FAILURE OF TIBIAL INTERFERENCE SCREW FIXATION AFTER ACL RECONSTRUCTION [letter]

Williams AM, Myers PT
AmJSportsMed 1997; 25[3]: 417

MENISCAL MOTION- an in vivo study employing magnetic resonance imaging in near real-time in the weight-bearing and non-weight-bearing knee.

Vedi V, Williams AM, Tennant S, Hunt D, Gedroyc W.
JBJS [Br] 1999; 81-B: 37-41

Presented by V. Vedi to B.O.S.T.A. at the Combined B.O.A. / I.O.A. Meeting, Dublin, October 1998.

Poster at the Radiological Society of North America, Chicago, 1998.

THE EVERLASTING HIP REPLACEMENT!- A case report of ankylosis due to heterotopic ossification after T.H.R.

Williams AM, Maruthainar N, Bentley G.
B.M.J. 1999; 319: 66

A RATIONAL APPROACH FOR TREATING PATELLO-FEMORAL INSTABILITY INCORPORATING A NEW PROXIMAL AND DISTAL SOFT TISSUE REALIGNMENT PROCEDURE.

Williams AM, Myers PT, Dodds RDA, Bulow J
AmJSportsMed 1999; 27[5]:575-579.

Selected for inclusion in: Year Book Sports Medicine 2000, pp82-85, Shepherd R., Ed. Mosby, St Louis, 2000

TIBIO-FEMORAL MOVEMENT 2: THE LOADED AND UNLOADED LIVING KNEE STUDIED BY M.R.I.

Hill P, Vedi V, Williams A, Iwaki H, Pinskerova V, Freeman MAR
JBJS [Br] 2000; 82-B: 1196-1198.

Presented by A. Williams at EFORT 1999

PATELLO-FEMORAL TRACKING IN THE WEIGHT-BEARING KNEE- a study of asymptomatic volunteers utilising 'dynamic' magnetic resonance imaging: a preliminary report

S Tennant, AM Williams, V Vedi, C. Kinmont, DM Hunt, W Gedroyc.
Knee Surg. Sports Traumatol. Arthrosc. 2001; 9: 155-162

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**IS BONE TUNNEL OSSEOINTEGRATION IN HAMSTRING TENDON
AUTOGRAFT ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION
IMPORTANT?**

Martin Logan, Andy Williams and Peter Myers

Arthroscopy 2003; 19[8]: p E1-E3

**A PROSPECTIVE, RANDOMISED COMPARISON OF AUTOLOGOUS
CHONDROCYTE IMPLANTATION VERSUS MOSAICPLASTY FOR
OSTEOCHONDRAL DEFECTS IN THE KNEE**

G. Bentley, LC Biant, RW Carrington, M Akmal, A Goldberg, A Williams, JA Skinner,
J Pringle

JBJS [Br] 2003; 85-B: 223-230

Presented by L Biant at The B.O.A. Meeting, Birmingham 2001

**WHAT REALLY HAPPENS DURING THE LACHMANN TEST?- A 'DYNAMIC'
MRI ANALYSIS OF TIBIOFEMORAL MOTION**

Logan M, Williams A, Lavelle J, Gedroyc W, Freeman MAR.

AmJSportsMed 2004; 32: 369-375

**TIBIOFEMORAL KINEMATICS OF THE ANTERIOR CRUCIATE LIGAMENT
DEFICIENT WEIGHTBEARING, LIVING KNEE EMPLOYING VERTICAL
ACCESS OPEN 'INTERVENTIONAL' MRI**

Logan M, Dunstan E, Robinson J, Williams A, Gedroyc W, Freeman MAR

AmJSportsMed 2004; 32: 720-726

Presented by A. Williams to The ACL Study Group March 2002

**TIBIOFEMORAL KINEMATICS FOLLOWING SUCCESSFUL ACL
RECONSTRUCTION USING 'DYNAMIC' MRI**

Logan M, Williams A, Lavelle J, Gedroyc W, Freeman M

AmJSportsMed 2004; 32: 984-922

1st Prize Winner Sports Medicine /Arthroscopy Section Poster Presentation at A.A.O.S.
San Francisco 2004

PUBLICATIONS CONTINUED:

AVAILABILITY OF THYROID PROTECTIVE LEAD SHIELDS AND THEIR USE BY TRAINEE ORTHOPAEDIC SURGEONS

Murathainar N, Bentley G, Williams A, Danin J
[published as a letter] Occup Environ Med 2003; 60: 381

BOOK REVIEW: 'RECONSTRUCTIVE KNEE SURGERY 2ND Edn Lippincott, Williams & Wilkins 2002'

Andrew Williams
The Journal of Orthopaedic Medicine 2003; 25[2]: 67-8

THE POSTERIOR CRUCIATE LIGAMENT DURING FLEXION OF THE NORMAL KNEE

Nakagawa S, Pinskerova V, Johal P, Komatsu T, Sosna A, Williams A, Freeman MAR
JBJS[Br] 2004; 86-B: 450-6

Poster at EFORT 2003, Helsinki
Presented by P Johal at E.S.S.K.A, Athens, 2004.

TIBIO-FEMORAL MOVEMENT IN THE LIVING KNEE

A study of weight bearing and non-weight bearing knee kinematics using 'interventional' MRI.

P. Johal, A. Williams, P. Wragg, D. Hunt, W. Gedroyc.
Journal of Biomechanics 2005; 38: 269-276

Presented by P. Johal at The RSM Registrars' Papers Contest May 2001- Winner 2nd Prize

Presented by P. Johal at BASK, February 2002

Presented by P. Johal at S.I.C.O.T., San Diego, August 2002

UNDERSTANDING TIBIO-FEMORAL MOTION

A. Williams; M. Logan
The Knee 2004; 11: 81-88

PUBLICATIONS CONTINUED:

THE MOTION OF THE JOINT SURFACE CONTACT AREAS IS NOT THE SAME AS THAT OF THE CONDYLES DURING FLEXION OF THE KNEE

Pinskerova V, Johal P, Nakagawa S, Sosna A, Williams A, Gedroyc W, Freeman MAR
JBJS[Br] 2004; 86[B]: 925-31

PUBLICATIONS CONTINUED:

THE EFFECT OF POSTERIOR CRUCIATE LIGAMENT DEFICIENCY ON KNEE KINEMATICS

Logan MC, Williams A, Lavelle J, Gedroyc W, Freeman MAR
Am J Sports Med 2004; 32: 1915-1922

INTRA-OPERATIVE FEMORAL NERVE STIMULATION IN TIBIAL TUBEROSITY TRANSFER- a technical note

Logan M, Williams AM, Myers PT
Ann R Coll Surg Engl. 2005 Jul;87(4):288-9.

DISPLACEMENT OF THE COMMON PERONEAL NERVE IN POSTEROLATERAL CORNER INJURIES OF THE KNEE

Bottomley N, Lewis A, Noorani A, Williams AM, Birch RB
J Bone Joint Surg Br. 2005 Sep;87(9):1225-6

FURTHER OPINION by A. Williams: Does ACL reconstruction restore normal kinematics? A prospective MRI analysis over 2 years. Scarvell et al (J Bone Joint Surg [Br] 2006; 88-B: 324-30) for eJBJS

Osteotomy and Ligament Deficiency

Williams A, Devic N
Current Orthopaedics- In Press

BOOKS

GRAY'S ANATOMY- 39TH EDITION

Standring S, Ellis H, Healy J, Johnson D, Williams AM Eds. Elsevier Churchill
Livingston 2005

BOOK CHAPTERS

NEUROMUSCULAR SCOLIOSIS

Williams AM, Bentley G

Chapter 7 in 'Stanmore Orthopaedic Update - Vol. 1: Management of Spinal Disorders'.
Singh and Nejad [Editors] 1998; Harwood Academic Publishers, Amsterdam.

THE APPLICATION OF 'INTERVENTIONAL M.R.I.' IN THE STUDY OF KNEE KINEMATICS

Williams A, Gedroyc W.

Chapter 17 in 'Interventional M.R.I.', Ed.: Shellock 2000

FUNCTIONAL IN VIVO ANALYSIS OF KINEMATICS OF THE NORMAL KNEE

Williams AM and Phillips C.

Chapter 5 in 'Total Knee Arthroplasty- A Guide to Better Performance'. Bellemans J,
Ries M, Victor J [Eds.] Springer-Verlag 2005

OTHER PUBLICATIONS

REPORT ON THE SIXTH ANNUAL AUDIT CONFERENCE FOR SURGICAL TRAINEES

Williams AM and Shaper N.

Ann R Coll Surg Eng [Supp] 1996; 78[3]: 137

FLORAL EMBLEM FOR THE ROYAL COLLEGE OF RADIOLOGISTS [letter]

Williams AM

The Royal College of Radiologists Newsletter 1997; 50: 21

TOP 100- KNEE PROBLEMS [IN TWO PARTS]

Williams AM, Bentley G.

General Practitioner April 23rd and 30th 1999

REPORT ON 1998 FELLOWSHIP OF THE ROYAL COLLEGE OF SURGEONS [NEW YORK INC.] TO BOSTON AND NEW YORK

Williams AM

Published in Ann R Coll Surg Eng [Supp] Sept. 1999

TOP 100- FRACTURES [IN TWO PARTS]

Williams AM, Church S.

General Practitioner March 17th and 24th 2000.

ANY NEW MATERIALS FOR KNEE REPLACEMENTS?

Article on 'Advances in Treatment of Osteoarthritis of the Knee'

Williams AM. Pulse 2000; 60[16]:128

PRESENTATIONS / ABSTRACTS / POSTERS

OBTAINING PRE-OPERATIVE INFORMED CONSENT FOR SURGERY- A SURVEY OF CURRENT PRACTICE

Williams AM, Johal P, Bentley G

Presented by P Johal to B.O.A. Meeting Sept. 1996

Abstract: JBJS 1997; 79B Orthopaedic Proceedings Supplement I: 106

AN ASSESSMENT OF THE EFFECTIVENESS OF THE 'CORE OF KNOWLEDGE' COURSE ON THE UNDERSTANDING OF THE USES AND HAZARDS OF MEDICAL RADIATION

Danin J, Mitchell A, Williams AM, Wetton CWN, Cunningham DA

Presented by AW Mitchell to The Royal College of Radiology Conference Sept. 1993.

Poster Presentation to B.O.A. Meeting April 1994.

Abstract: Clinical Radiology 1993; 48[5]: 336

THE ARTHROSCOPIC FEATURES OF THE PATHOLOGICAL MEDIAL PLICA OF THE KNEE

Williams AM, Myers PT.

Presented by A. Williams to B.O.S.T.A. at the Combined B.O.A. / I.O.A. Meeting, Dublin, October 1998.

Abstract: JBJS 1998; 80B Orthopaedic Proceedings Supplement II: 136

Submitted for publication.

PATELLO-FEMORAL TRACKING IN THE WEIGHT-BEARING ASYMPTOMATIC KNEE- a study employing 'dynamic' M.R.I.

Tennant S, Williams AM, Ilg A, Vedi V, Hunt D, Gedroyc W.

Presented by A. Williams at the Combined B.O.A. / I.O.A. Meeting, Dublin, October 1998.

Abstract: JBJS 1998; 80B Orthopaedic Proceedings Supplement II: 138

Poster at the Radiological Society of North America, Chicago, 1998

Presented as part of an 'Invited Lecture' by A. Williams at The Royal Society of Medicine Orthopaedic Section Summer Meeting, June 1998.

'DYNAMIC' M.R.I. SCANNING OF THE WEIGHT-BEARING ASYMPTOMATIC KNEE- PATELLO-FEMORAL TRACKING AND MENISCAL MOTION

Williams AM, Vedi V, Tennant S, Gedroyc W, Hunt D.

Presented by A Williams at The World Congress on Orthopaedic Sports Trauma, Gold Coast, Australia, April 2000.

THE TIBIO-FEMORAL ARTICULATION : CADAVERIC AND MRI STUDY OF KNEE MOVEMENTS.

Hill PF, Vedi V, Williams A, Iwaki H, Pinskerova V, Freeman MAR

Presented by PF Hill at B.O.R.S. Sept 99.

HICKS REVISITED- A WEIGHT-BEARING IN VIVO STUDY OF THE BIOMECHANICS OF THE PLANTAR FASCIA EMPLOYING 'DYNAMIC' M.R.I.

Williams AM, Vedi V, Singh D, Hunt D, Gedroyc W

Presented by D. Singh at EFORT 1999.

THE RELATIVE MOTION OF FEMUR AND TIBIA DURING KNEE FLEXION- A STUDY USING MRI AND INCLUDING WEIGHT-BEARING LIVING KNEES

Williams A, Vedi V, Hill PF, Iwaki H, Freeman MAR, Pinskerova V.

Presented by A Williams at The World Congress on Orthopaedic Sports Trauma, Gold Coast, Australia, April 2000.

THE AETIOLOGY OF ANTEROMEDIAL OSTEOARTHRITIS OF THE KNEE- A THEORY BASED ON NORMAL TIBIO-FEMORAL KINEMATICS

Williams A, Hill P, Vedi V, Iwaki H, Pinskerova V, Freeman MAR

Presented by A. Williams at ESSKA 2000

THE ASSESSMENT OF KNEE MOTION USING 'INTERVENTIONAL' MRI

Johal P, Williams A, Wragg P, Gedroyc W, Freeman MAR

Poster Radiological Society of North America, Chicago, Nov '01

MEASUREMENT OF PATELLAR TENDON-TIBIAL ANGLES IN THE FULL WEIGHT-BEARING ASYMPTOMATIC KNEE, USING VERTICAL OPEN-ACCESS MRI.

CL Phillips, A Williams, WM Gedroyc

Radiological Society of North America, Nov 04

PAPERS SUBMITTED FOR PUBLICATION [and not mentioned above]

THE MENISCAL FLOUNCE: A VALUABLE ARTHROSCOPIC SIGN- A Prospective Study of 1088 Knee Arthroscopies

Williams AM, Myers PT, White J, McMeniman P, Malisano L, Bartlett J

Poster presentation at EFORT 1999.

Submitted for publication.

SCIENTIFIC EXHIBITS

THE BONES OF THE KNEE: THEIR SHAPES AND THEIR RELATIVE MOVEMENTS.

Hill P, Vedi V, Iwaki H, Pinskerova V, Williams A, Freeman MAR

A scientific demonstration including posters, a continuous video loop, models and open discussion ran throughout E.F.O.R.T. 1999 and The B.O.A. Meeting 2001.

EDUCATIONAL C.D. R.O.M.s

'THE VIRTUAL SURGEON- A.C.L. RECONSTRUCTION'

Williams AM, Bentley G, Windsor R.

©T.V.F. Multimedia Dec. 1998

'THE VIRTUAL SURGEON- KNEE ANATOMY'

Williams AM, Bentley G, Windsor R.

©T.V.F. Multimedia Dec. 1998

Multimedia CD-ROMs of knee anatomy, and surgical techniques of Anterior Cruciate Ligament surgery including video, animation, and moveable 3-D images.

'COMMON KNEE COMPLAINTS'- a guide for G.P.'s

Williams AM, Manktelow A, Bentley G

©T.V.F. Multimedia Dec. 2000

'ACL RECONSTRUCTION- PATELLAR TENDON AND HAMSTRINGS'

A Williams, TR Briggs

©Primal Pictures 2004

'THE FAST-FIX MENISCAL SUTURE SYSTEM- A TECHNICAL GUIDE'

A. Williams

©Smith and Nephew Endoscopy 2005

CURRENT PROJECTS

The current projects **not mentioned above** are:

A KINEMATIC COMPARISON OF PATELLAR TENDON AND HAMSTRING ACL RECONSTRUCTION EMPLOYING 'DYNAMIC' MRI

Phillips C, Williams A, Hunt D, Gedroyc W

TIBIO-FEMORAL KINEMATICS BEFORE AND AFTER ACL RECONSTRUCTION- a prospective study employing 'dynamic' MRI

Phillips C, Logan M, Williams A, Hunt D, Gedroyc W

EXCURSION OF THE PATELLAR TENDON- IN HEALTH AND DISEASE- a study employing 'dynamic' MRI

Phillips C, Logan M, Williams A, Hunt D, Gedroyc W

Collaborative Project With Dr R. Steadman, Colorado, assessing fat pad motion

THE EPIDEMIOLOGY OF KNEE INJURIES IN ENGLISH PROFESSIONAL RUGBY UNION

R J Dallalana, J H M Brooks, S P T Kemp, A M Williams

Submitted to AmJSpMed

CURRENT NON-I.M.R. PROJECTS.:

TISSUE ENGINEERING / CELL BIOLOGY- a number of collaborative projects with Prof Polak and her department at the Chelsea and Westminster. Currently having successfully secured a grant I am supervising a research fellow in Collaboration with Dr M Stevens, of the Imperial College Tissue Engineering Dept in a project involving Periosteal Stem Cells.

SOCIETY MEMBERSHIP

A.C.L. Study Group [invited global group of cruciate ligament surgeons]

British Medical Association

British Orthopaedic Association- Fellow

British Association of Surgery of the Knee [member of executive committee]

British Orthopaedic Sports Trauma Association [founder member]

Royal College of Surgeons of England

Seddon Society

Medical Defence Union

EXTRA-CURRICULAR ACTIVITIES

| | | |
|---------|--|-------------------------|
| RUNNING | The London Marathon | 1989, 1992, and 2001 |
| | The Great West Run [half marathon] | 1992, 1993, and 1994 |
| | Nike 10K, Richmond, London, Sept 2003 | |
| | Chris Brasher Memorial 10K, June 2004 | |
| CRICKET | King's College Hospital 1 st XI | 1982-1992 |
| | Vice-Captain | 1986 |
| | 'Colours' | 1987 |
| | R.N.O.H. 1 st [and only] XI | 1994, 1995, 1999 - 2003 |
| RUGBY | King's College Hospital R.F.C. | 1982-1994 |
| | Treasurer | 1984-1987 |
| | 'Colours' | 1986/87 |
| | Manager U.S.A. Tour | 1987 |
| SOCCER | King's College Hospital 1 st XI | 1983-86 |
| | Manager Paris Tour | 1985 |