

CURRICULUM VITAE

Mr Martin Knight MD, FRCS
Consultant Endoscopic Spine Surgeon

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November 2017

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CAREER SYNOPSIS

I trained at St Bartholomew's Hospital, London. My research training was mentored at the Royal Postgraduate Medical School, London in the prevention of venous thrombosis and pulmonary embolism. At St Thomas' Hospitals I continued my training as an Orthopaedic Surgeon and developed a "living" carbon fibre hip replacement which spontaneously resurfaced with living cartilage and was trialled successfully in greyhounds. After a consultant posting

to the Royal Navy, my substantive NHS appointment in Rochdale required that I find a solution to the problems peculiar to failed back surgery. Rather than pursue the same methods of treatment I introduced keyhole percutaneous discectomy and KTP⁵³² laser disc decompression into the UK in 1990. This led me to pioneer aware state endoscopic transforaminal spine surgery and the use of laser ablation of tissues and bone adjacent to nerves. This involved the development of a side-fire laser probe. Overwhelmed by NHS referrals the Spinal Foundation Charity was formed in 1994 and I became the Medical Director to date.

The aware state patient feedback research defined the limitations of existing techniques and led to the development of biportal (bilateral) flexible endoscopic intradiscal discectomy with laser assistance. This expanded the application of keyhole surgery for the primary treatment of Degenerate Disc Disease. However, whilst this technique allowed larger or extruded discs to be addressed, there still remained the need to address the wider gamut of spinal degeneration and failed back surgery by keyhole means. This led to the development of the uniportal technique of Transforaminal Endoscopic Laser Decompression & Foraminoplasty and its instrumentation for the treatment of chronic lumbar spondylosis, lateral recess stenosis, instability, spondylolitic spondylolisthesis, failed back surgery as well as disc protrusions and extrusions / sequestra. To achieve these steps I set up a company to fabricate suitable instrumentation because commercial concerns did discern sufficient payback at that stage.

I have submitted multiple publications and performed many presentations and educational workshops. In 2014 our 10 year independently reviewed outcome study was published after peer review with a 72% - 80% success rate in patients with and without failed back surgery.

The technique has proven very safe and successful over the last two decades¹ and now forms the platform for my on-going research and development of Gelstix Disc Augmentation, stem cell disc reconstruction and robotic assisted surgery and transforaminal fusion.

The research and clinical experience in the lumbar spine has been paralleled by similar laser and endoscopic developments in the cervical spine.

My objectives are:

- to train more UK surgeons in the various stages of endoscopic surgical complexity, (Currently over 2.000 surgeons perform these techniques world wide).
- to develop a further extrapolation of endoscopic instrumentation based upon a unique pan-discipline Medusoscope^R design. The design has been patented and prototype design has been completed and requires to be developed.
- to combine disc height restoration with mesenchymal stem cell regeneration effected endoscopically based upon a current development programme.

QUALIFICATIONS

Bachelor of Medicine	
Bachelor of Surgery	1969
Primary - Fellow	
Royal College of Surgeons	1971
Final - Fellow	
Royal College of Surgeons	1974
Accreditation	
Certificate of Orthopaedic	
Higher Surgical Training	1986
Doctor of Medicine	
Manchester University	2003

CURRENT APPOINTMENTS

Consultant Endoscopic Spinal Surgeon
 BMI Fawkham Manor Hospital, Longfield, Kent
 The Weymouth Street Hospital, London
 27 Harley Street, London
 March 2011 to present

Director and Consultant Spinal Surgeon
 The Spinal Foundation
 April 1994 to present

Honorary Senior Lecturer
 University of Manchester
 September 2007 to present

Honorary Senior Lecturer
University of Central Lancashire
October 1998 to present

Honorary Research Fellow
Royal Post Graduate Medical School,
Hammersmith
April 1974 to present

Honorary Research Fellow
Medical School, The University of Manchester
October 1999 to September 2007

PREVIOUS APPOINTMENTS

Consultant Orthopaedic Surgeon
Rochdale NHS Healthcare Trust
November 1990 to September 1998

Locum Consultant Orthopaedic Surgeon
January 1990 to October 1990
Princess Margaret Hospital, Swindon

Hip Research Fund Raising
September 1989 to December 1989

Consultant Orthopaedic Surgeon
January 1987 to August 1989
Royal Naval Hospital, Haslar

Orthopaedic Senior Registrar
August 1984 to December 1986
Royal Naval Hospital, Haslar

Orthopaedic Senior Registrar
October 1981 to July 1984
St Thomas's Hospital

Orthopaedic Senior Registrar
October 1980 to September 1981
Southampton General Hospital

Orthopaedic Senior Registrar
and Associate Professor
October 1978 to September 1980
The Albert Einstein College of Medicine, New York, USA.

Orthopaedic Registrar

July 1978 to September 1978
St Thomas's Hospital

Orthopaedic Registrar
July 1977 to June 1978
Princess Margaret Hospital, Swindon, Wiltshire

Orthopaedic Registrar
May 1977 to June 1977
St Thomas's Hospital

EDUCATION

School: Charterhouse School, Godalming, Surrey.

Medical School: St Bartholomew's Hospital Medical School, London

SPINAL PUBLICATIONS

"CLUNEAL NERVE IRRITATION – CLINICAL PRESENTATION AND TREATMENT PATHWAY" Knight MTN 2017 (In Press).

"TRANSFORAMINAL ENDOSCOPIC LUMBAR DECOMPRESSION & FORAMINOPLASTY: A 10 YEAR PROSPECTIVE SURVIVABILITY OUTCOME STUDY OF THE TREATMENT OF FORAMINAL STENOSIS AND FAILED BACK SURGERY". Knight MT, Jago I, Norris C, Midwinter L, Boynes C. *Int J Spine Surg*. 2014;8:1-22.

Knight M. TRANSFORAMINAL ENDOSCOPIC TREATMENT OF THE DEGENERATING LUMBAR SPINE. *In Touch*. 2010;132:18-23

Knight MTN. AWARE STATE DETERMINED LUMBAR FORAMINAL PAIN SOURCES
Photomedicine and Laser Surgery, Volume 23, Number 3 June 2005

1. Knight MTN, Ellison DR, Goswami A, Hillier VF. Review of safety in endoscopic laser foraminoplasty for the management of back pain. *Journal of clinical laser medicine & surgery*. 2001;19(3):147-157.

PUBLICATIONS (TEXTBOOKS ET AL)

"POTENTIAL COST SAVINGS OF TRANSFORAMINAL ENDOSCOPIC LUMBAR DECOMPRESSION AND FORAMINOPLASTY" Knight MTN
In: Minimally Invasive Spinal Surgery: Principles And Evidence-Based Practice. Lewandrowski Ku, Schubert M, Ramirez Leon Jf, Fessler Rg, Eds. London: Jp Medical Ltd, 2017.

“FORAMINAL SOURCES OF PAIN”. MTN Knight in Textbook of Musculoskeletal Medicine. Oxford Press Ed. MA Hutson 2015.

“ENDOSCOPIC LASER FORAMINOPLASTY IN THE TREATMENT OF SPONDYLOLITIC SPONDYLOLISTHESIS”

M. Knight and A. Goswami in LASERS IN MEDICINE SURGERY AND DENTISTRY Editor Zlatko Simunovic. 2004.

“ENDOSCOPIC LASER FORAMINOPLASTY”. MTN Knight, A. Goswami, 2003 In Percutaneous Laser Disc Decompression. Ed. D. Choy. 2003 Springer Verlag

“ENDOSCOPIC LASER FORAMINOPLASTY - A TREATMENT CONCEPT AND TWO YEAR OUTCOME ANALYSIS OF PERCUTANEOUS LASER DISC DECOMPRESSION. MTN Knight, A. Goswami, N. Buxton, Ed. D. Choy 2002. Springer Verlag

“OUTCOME AND MORBIDITY ANALYSIS OF ENDOSCOPIC LASER FORAMINOPLASTY AND AWARE STATE SURGERY”. MTN Knight, AKD Goswami. Millennium Laser Book Ed. Z. Simunovic April 2001

“FUNCTIONAL ANATOMY OF THE LUMBAR SPINE”. MTN Knight, AKD Goswami. Textbook of Musculoskeletal Medicine. Ed. MA Hutson 2001 Oxford Press.

“FORAMINAL SOURCES OF PAIN”. MTN Knight Textbook of Musculoskeletal Medicine. Ed MA Hutson 2001. Oxford Press.

“WHEN TO GO FOR AN OPEN OPERATION IN A PATIENT WITH CHRONIC BACK PAIN”. MTN Knight, AKD Goswami. Textbook of Musculoskeletal Medicine. Ed MA Hutson 2001 Oxford Press.

“INTERNAL DISC DISEASE - CHEMICAL ASPECTS OF ANNULAR TEAR AND DISC EXTRUSION”. MTN Knight, AKD Goswami. Textbook of Musculoskeletal Medicine. Ed MA Hutson 2001 Oxford Press.

“ENDOSCOPIC LASER FORAMINOPLASTY”. MTN Knight AKD Goswami Textbook The Practice of Minimally Invasive Spinal Techniques. First Edition Ed. Martin H Savitz, John Chiu, Anthony Yeung, 2000. American Academy of Minimally Invasive Spinal Surgery.

“ENDOSCOPIC LASER FORAMINOPLASTY” The Journal of Bone and Joint Surgery Volume 82B Orthopaedic Proceedings Supplement 1; 2000 pp 46

“ANATOMICAL CONCEPTS IN APPLIED SURGERY OF THE LUMBAR SPINE: AN ENDOSCOPIC VIEW” Ed; Gerber, Seibert, Knight Publishers: Springer Verlag; 2000

“A COMPARISON OF CERVICAL PERCUTANEOUS LASER DISC DECOMPRESSION (PLDD) USING HOLMIUM: YAG AND KTP⁵³²”

WAVELENGTHS – PROSPECTIVE RESEARCH IN PROGRESS” Degeneration and Inflammatory Cervical Spine: Controversies in Etiopathogenesis and Costs. Ed. Gunzberg and Spalski. Lippincott Williams and Wilkins, 2000

“LUMBAR PERCUTANEOUS KTP⁵³² WAVELENGTH LASER DISC DECOMPRESSION AND DISC ABLATION IN THE MANAGEMENT OF DISCOGENIC PAIN” Gerber, Seibert, Knight Ed; Publishers: Springer Verlag; 2000

“ENDOSCOPIC FORAMINOPLASTY: AN INDEPENDENT PROSPECTIVE EVALUATION”. Ed. Gerber, Seibert, Knight; Publishers: Springer Verlag; 2000

“ENDOSCOPIC FORAMINOPLASTY: A PROSPECTIVE STUDY ON 250 CONSECUTIVE PATIENTS WITH INDEPENDENT EVALUATION” Proceeding of First Interdisciplinary World Congress on Spinal Surgery Berlin, Germany Aug 7 to September 1,2000; Monduzzi Editore-International proceedings division

“CERVICAL PERCUTANEOUS LASER DISC DECOMPRESSION: RESULTS OF A PROSPECTIVE OUTCOME STUDY” Proceeding of First Interdisciplinary World Congress on Spinal Surgery Berlin, Germany Aug 27 to Sept 1,2000; Monduzzi Editore-International proceedings division

“TREATMENT OF RADIAL TEARS AND ANNULAR LEAKS WITH POSTERIOR WALL RECONSTRUCTION”
Proceeding of First Interdisciplinary World Congress on Spinal Surgery:Berlin, Germany Aug 27 to Sept 1,2000; Monduzzi Editore-International proceedings division

“CLINICAL RELEVANCE OF PYROPHOSPHATES AND NEOVASCULARISATION IN SPINAL DISCOGENIC PAIN”
Proceeding of First Interdisciplinary World Congress on Spinal Surgery: Berlin, Germany Aug 27 to Sept 1,2000; Monduzzi Editore-International proceedings division

“CERVICAL PERCUTANEOUS LASER DISC DECOMPRESSION: RESULTS OF A PROSPECTIVE OUTCOME STUDY” Journal of Clinical Laser Medicine and Science April 2000.

“A COMPARISON OF CERVICAL PERCUTANEOUS LASER DISC DECOMPRESSION (PLDD)USINGHOLMIUM:YAG AND KTP WAVELENGTHS- PROSPECTIVE RESEARCH IN PROGRESS” Chapter Textbook - Degenerative Cervical Spine. Ed Marek Spalski, Robert Gunzbert 2000. Publishers Lippincott Williams and Wilkins.

“ENDOSCOPIC LASER FORAMINOPLASTY AND AWARE STATE SURGERY: A TREATMENT CONCEPT AND OUTCOME ANALYSIS”.
Martin Knight Die Arthroscopie 2,1-12: 1999.

“AWARE STATE ENDOSCOPIC LASER FORAMINOPLASTY: A TREATMENT CONCEPT AND 2 YEAR OUTCOME ANALYSIS”: Minimally Invasive Neurosurgery Edited: Enrique Ferrer; Publishers: Monduzzi Editore Dec 1999 ISBN88-323-0618-2; pp 65-72

“ENDOSCOPIC LASER FORAMINOPLASTY: A TWO YEAR FOLLOW UP OF A PROSPECTIVE STUDY ON 200 CONSECUTIVE PATIENTS”. CHAPTER IN *Lumbar Spinal Stenosis*, LIPPINCOTT, WILLIAMS AND WILKINS, (A WALTERS KLUWER COMPANY) Ed. Gunzberg and Spalski: 244-254, 1999. (Co-author) (Principal Author- Mr. Martin Knight, FRCS).

“ENDOSCOPIC LASER FORAMINOPLASTY: A TWO YEAR FOLLOW UP OF A PROSPECTIVE STUDY ON 200 CONSECUTIVE PATIENTS”. *Lumbar Spinal Stenosis* Ed. Gunzberg and Spalski: 244-254, 1999

“AWARE STATE ENDOSCOPIC LASER FORAMINOPLASTY: A TREATMENT CONCEPT AND 2 YEAR OUTCOME ANALYSIS”: *European Spine Journal: Journal of Laser Surgery and Medicine*.

“AWARE STATE ENDOSCOPIC LASER FORAMINOPLASTY: A TREATMENT CONCEPT AND 2 YEARS OUTCOME ANALYSIS”: *Journal of Endoscopic Spinal Surgery: Barcelona June 17-20, 1999*

“ENDOSCOPIC AWARE STATE SURGERY: CONCEPT AND OUTCOME ANALYSIS OF 250 CONSECUTIVE PATIENTS FOLLOWED FOR A MINIMUM PERIOD OF 2 YEARS, INDEPENDENTLY ASSESSED”. Knight MTN International Conference on Lumbar Fusion and Stabilisation (ICLFS)1999: *Journal of Clinical Laser Medicine and Surgery*.

“LASER ASSISTED PERCUTANEOUS AND ENDOSCOPIC LASER DISCECTOMY” MTN Knight (1996) In: *Textbook of Spinal Surgery: Ramani, PS. Dept. of Neuro and Spinal Surg: Mumbai, India pp 449-456*

“ENDOSCOPIC LASER FORAMINOPLASTY ON THE LUMBAR SPINE - EARLY EXPERIENCE” Knight MTN Vajda A, Jakab GV, Awan S, *Minimally Invasive Neurosurgery. Vol 41 5-9 (1998)*

“KTP⁵³² PERCUTANEOUS LASER DISC DECOMPRESSION FOR LUMBAR DISC PROLAPSE” Knight MTN Pantoja, ST (1996) *Clin Neurosci. (Hum) 49.330-336*

NON-SPINAL PUBLICATIONS

The Role of Fibrinolytic Activity and Intermittent Compression in the Prevention of Thromboembolism”
Master of Surgery Thesis prepared not submitted for the University of London.
1977

Knight MT, Dawson R. Effect of intermittent compression of the arms on deep venous thrombosis in the legs. *Lancet*. 1976;2(7998):1265-1268.

Knight MT, Dawson R, Melrose DG. Fibrinolytic response to surgery. Labile and stable patterns and their relevance to post-operative deep venous thrombosis. *Lancet*. 1977;2(8034):370-373.

"The Effect of Pneumatic Intermittent Compression on the and After Fasciectomy" Hazarika EZ, Fraser-Moodie A, and Knight MTN FRCS *The Hand* Vol. 2, No 3 October 1979

The Stripping of Varicose Veins: A Clinical Trial of Intermittent Compression Dressings"
Melrose DG, Knight MTN and Simandl Er *J Surg* 1979, 66, 53

"Postoperative Pulmonary Perfusion Defects: Their Natural, History, Origin and Significance"
Knight MTN, Metrewelli CB, *J Surg*, 1977 64, 712

"Fibrinolytic Response to Surgery"
Knight MTN, Dawson R and Melrose DG, *Lancet*, 1977, ii, 370

"Effect of Intermittent Compression of the Arms on Deep Venous Thrombosis in the Legs"
Knight MTN and Dawson R, *Lancet* 1976, ii, 1265

"Proceedings: Reduction of the incidence of deep vein thrombosis (DVT) in the legs by intermittent compression of the arms"
Knight MT, Dawson R *Br J Surg* 1976 Aug 63 (8) 668. PMID: 953518 (PubMed-indexed for Medline)

Letter: Pneumatic leggings and DVT
Knight MT, Calnan JS
Circulation. 1975 Nov. 52 (5) 966
PMID. 1175280 (PubMed - indexed for medline)

"The History of Anatomy"
Life Encyclopædia, 1971

<p style="text-align: center;">PUBLICATIONS RESERVED FOR PATENT PROTECTION</p>

"The Synovial Response to Carbon Reinforced Carbon Fibre"
Knight M.T.N.

“A Comparison of the Loaded and Unloaded Osteointegration of Carbon reinforced Carbon Fibre implants”
Knight M.T.N.

“The Pattern of Infection about Bioactive and about Metal Implants in Animals”
Knight M.T.N.

“The Wear Characteristics of Bio-active Carbon Reinforced Carbon Fibre Prostheses”
Knight M.T.N and Coutts J.

“The Physical Characteristics of Bioactive Carbon Reinforced Carbon Fibre”
Knight M.T.N. and Walker E.J.

“The Fibrocartilaginous Resurfacing Characteristics of Bioactive Carbon Reinforced Carbon Fibre Implants”
Knight M.T.N.

NAVAL TRAINING

Armillia Patrol HMS Battle-Axe
September 1987 to December 1987

Defence Medical Senior Officers Study Period
Nuclear, Biological and Chemical Defence
Winterbourne Gunner - April 1984

Naval Management Course
Royal Naval College, Greenwich - November 1984

New Entry Medical Officers Course
Royal Naval College, Britannia, Dartmouth
October 1983

GENERAL PROFESSIONAL TRAINING

Research Fellow - Unit of Surgical Science
(Professor D.G. Melrose)
August 1975 to December 1976 (Conducted clinical thromboembolic studies on intermittent compression of limbs and Krypton lung scans)
Royal Post Graduate Medical School, London

General Surgical Overseas Experience
January 1974 to March 1974 (to fill funding interval)
The Little Bow Hospital, Carmangay, Alberta, Canada

Registrar Surgery & Research
(Professor J S Calnan)
June 1973 to July 1975 (Set thrombolytic analysis laboratory. Determined
separate fibrinolysis emission patterns and risk profile)
Hammersmith Hospital, London

Senior House Officer, General Surgery
(Mr. T.M. Hennerbry)
October 1972 to June 1973
North Middlesex Hospital, London

Casualty Officer
April 1972 to September 1972
Royal Northern Hospital, London

Demonstrator in Anatomy
(Professor O.J. Lewis)
September 1970 to March 1972 (Passed Final FRCS)
St Bartholomew's Hospital, London

House Physician
(the late E.G. Sita-Lumsden)
July 1969 to December 1969
Rochford General Hospital

COURSES

Spinejack Workshop 2014

Kyphoplasty Workshop 2009

Interpersonal Skills, London, 2009

Vertebroplasty, Leeds, November, 2007

Kyphoplasty, Salzburg, Austria, August, 2007

Ethical Issues Including Autonomy, Paternalism and Informed Consent
Marie Curie Education Centre, Liverpool, March 2003

Minimal Invasive Anterior Lumbar Interbody Fusion
Tuttlingen June 1996

Arthroscopic Microdiscectomy and Minimal Intervention Spinal Surgery
Philadelphia 1992

Arthroscopic Intradiscal Microdiscectomy

Phoenix, Arizona - 1992

KTP⁵³² Laser Discectomy Course
La Jolla, California - 1992

Advanced A-O Fracture Fixation Course
Davos, Switzerland - December 1985

Course in Hand Surgery
Princess Margaret Rose Hospital, Edinburgh-March 1983

A-O Hip Course in Hip Surgery
Berne, Switzerland - October 1982

British Orthopaedic Association
Instructional Course - October 1982

Fracture Management Course
University of Southern California, USA - July 1980

Peripheral Nerve Repair Course
Institute of Orthopaedics, New York, USA - May 1980

Course in Bone Tumour Management
AAOS Meeting, Atlanta, USA - May 1980

A-O Fracture Fixation Course (A. Apley)

Royal College of Surgeons - June 1979

Cast Bracing Symposium (A Sarmiento)
St Thomas's Hospital, London - June 1977

SOCIETIES

World Congress of Endoscopic Minimally Invasive Spine Surgery Techniques

European Spine Society

British Orthopaedic Spine Society (now BASS)

British Orthopaedic Association (Fellow)

Royal Society of Medicine

British Orthopaedic Research Society

British Back Pain Research Society

British Laser Medical Society

European Laser Medical Society (Executive)

Arthroscopy Society of New York

Military Medical School

Surgical Research Society

ISTHMUS - Founder Member and British Representative

American Academy of Minimally Invasive Spinal Medicine and Surgery

North American Spine Society
European Society of Spine
European Spine Society
Expert Witness Institute

International Musculoskeletal Laser Society Founder Member and British Representative and past President
International Intradiscal Society Member and British Representative and past President
International Society for the Advancement of Spine Surgery Member and Editorial member.

Commanderie de Bordeaux
1824 Club

Member of International Editorial Boards

Publication Committee of the Spine Arthroplasty Society
Publication Committee of the Indian Neurosurgical Society
Publication Committee of the International Laser Society

Member of the Editorial Review Board:

Spine
ISASS Journal (International Society Advanced Spine Society)
Photomedicine and Laser Surgery Journal
Orthopaedia Traumatologia Rehabilitai Journal
Journal of Minimally Invasive Spinal Technique
Journal of Clinical Laser Medicine and Surgery
Anesthesiology and Pain Medicine Journal
Neurology India Journal

International Advisory Board

World Association for Laser Therapy - 4th World Congress June 2002
World Congress of Minimal Invasive Spine Surgery Techniques

Past International Appointments

Vice President, World Congress of Minimally Invasive Spine Surgery Techniques – June 2008
President – International Intradiscal Therapy Society 2007
General Secretary - International Musculoskeletal Laser Society 2005 – 2010
President - International Musculoskeletal Laser Society 1999 – 2005
President - International Congress of Lumbar Fusion and Stabilisation 1999

SPINAL PRESENTATIONS

TSSULA 2018 Hyderabad January 2018
“Managing Adult Deformity by Combination Foraminoplasty”

“Combination Cervical Endoscopic Intradiscal Discectomy”
“Combination Endoscopic Foraminoplasty – selection & application”
“Clinical Irrelevance of MRI Scans”
“Clinical Examples”

NSpine 2017 Royal College of Surgeons, London September 2017

“Managing Adult Deformity by Combination Foraminoplasty”
“Combination Cervical Endoscopic Intradiscal Discectomy”
“Combination Endoscopic Foraminoplasty”
“Clinical Relevance of MRI Scans”
“Clinical Examples”

GP Multi-Disciplinary Educational Meeting June 2015

“Aware State Diagnosis of Back pain ”
“Cluneal Nerve Irritation – Clinical Presentation and treatment”

NSpine 2015 Nottingham June 2015

“Multi-level Combination Transforaminal Minimal Invasive Spine Surgery -
Foraminoplasty why and where to”
Cadaveric Foraminoplasty workshop
“Foraminoplasty Tips and Tricks”

Institute of Electrical Engineers Solent RMS Engineering Conference,

Hilsea 25th February 2015

“Multi-level Transforaminal Minimal Invasive Spine Surgery & The
Medusoscope”

33rd Course ISMISS Zurich/Switzerland, Jan 29/30, 2015

“Combination-multi-application in lumbar endoscopic Foraminoplasty”

GP Multi-Disciplinary Educational Meeting 11 October 2014

“Endoscopic Minimal Invasive Spine Surgery and the SpineJack Procedure”

State of the Art MIS Workshop. Ambulatory Surgery Center, Squaw

Peak Hilton, Phoenix, AZ September 11-14, 2014

“Foraminoplasty and Gelstix Nucleus Modulation Lumbar Spine”

IV World Congress of Minimal Invasive Spine Surgery and Treatment

Paris 11-14 June 2014

“Endoscopic Lumbar Spine Surgery”

**Congress of World Federation of Minimally Invasive Spine Surgery
(WFMISS) Istanbul combined with 7th – 8th Turkmiss Meeting & Pre-
Congress Cadaver Workshop April 08 - 13 2014**

“Percutaneous Endoscopic Spine Procedures, Lumbar & Cervical Endoscopic
Procedures”

“The advanced paradigm of aware state multilevel transforaminal surgery ”

**BMI GP Educational Meeting. Brands Hatch Hotel, Dartford
February 8 2014**

- “Combination transforaminal Endoscopic Foraminoplasty”
- “Gelstix”
- “Kyphoplasty”
- “Clinical Forum”

NSpine, Nottingham 5-8 September 2013

“Endoscopic Minimal Invasive Spine Surgery, applications, outcomes and the future”.

ISASS London 2011

“The Paradigm of Transforaminal Endoscopic Lumbar Decompression & Foraminoplasty”

X1 NATIONAL CONGRESS OF AMCICO 15 – 16 September, 2010

Identificación Del Dolor Mediante La Exploración

- “Endoscópica”.
- “Foraminolastia”
- “Discectomia Endoscópica Transformainal”
- “Workshops and Round Table”

BMI Hospital Fawkham Manor Hospital Longfield Kent 8 September, 2009

Presentation to Physiotherapists and General Practitioners
“Endoscopic Lumbar Decompression and Foraminoplasty”

**Turkish Society of Minimally Invasive Spine Surgery Ankara 6
November, 2009**

“Foraminoscopic Lumbar Discectomy and Endoscopic Foraminoplasty”.

**Physio First Physiotherapists National Conference – 30 March, 2009 -
Nottingham**

“The Paradigm of Transforaminal Endoscopic Lumbar Decompression & Foraminoplasty”

MENSA – 2 August, 2008 – Cambridge

“ANGER – One of the Seven Deadly Sins”

Cadaver Workshop in Nottingham – 2 July, 2008

“Endoscopic Lumbar Decompression and Foraminoplasty

Clinical Outcomes of Foraminoplasty

Endoscopic Intradiscal Discectomy Procedure

Transforaminal Endoscopic Minimally Invasive Spine Surgery – Patient Selection
Tips and Tricks

Transforaminal Endoscopic Minimally Invasive Spine Surgery – The Rationale

Foraminoplasty for Advanced Degenerative Disc Disease – 18 Years Experience

Endoscopic Lumbar Decompression – Clinical Outcomes in Failed Back Surgery

Endoscopic Lumbar Decompression and Foraminoplasty in the Treatment of Failed Fusion Surgery”

First Tri-Annual World Congress of Minimally Invasive Spinal Surgical Techniques – 1 – 7 June, Hawaii

“Lateral recess stenosis treated by Endoscopic Lumbar Decompression and Foraminoplasty
Management of spondylolytic spondylolisthesis with Endoscopic Foraminoplasty”

Spine Arthroplasty Society – 3 – 5 May, 2008, Miami

“Lateral recess stenosis treated by Endoscopic Lumbar Decompression and Foraminoplasty
Management of spondylolytic spondylolisthesis with Endoscopic Foraminoplasty”

WENMISS, London, 12 – 13 January, 2008

“Lateral recess stenosis treated by Endoscopic Lumbar Decompression and Foraminoplasty
Management of spondylolytic spondylolisthesis with Endoscopic Foraminoplasty”

KOMULARS, Seoul, Korea, 28 October, 2007

Training Workshop in Hong Kong, 26 October, 2007
“Endoscopic Minimally Invasive Spine Surgery – The future Paradigm
Relevance of Spinal Probing and Discography and Differential Discogram”
“Endoscopic Lumbar Decompression and Foraminoplasty
Live Surgery - Endoscopic Lumbar Decompression and Foraminoplasty
Q&A – Endoscopic Discectomy”

President and Organiser of the International Intradiscal Therapy Society – Albi, France, June, 2007

“Endoscopic Instrumentation
Nerve Root Retraction, Haemostasis and Use of Pumps
Spinal Probing and Discography
Endoscopic Lumbar Decompression and Foraminoplasty
What the Future May hold”

International Musculoskeletal Laser Society – Malaysia May, 2007

“Endoscopically Determined Lumbar pain Sources : Diagnostic accuracy of Differential Discogram: The Technique of Endoscopic Lumbar Decompression and Foraminoplasty and Future Applications”

Congress of the Committee of Minimally Invasive Spinal Surgery of the Brazilian Spine Society, 14 – 17 March, 2007

“Endoscopically Determined Lumbar pain Sources : Diagnostic accuracy of Differential Discogram: The Technique of Endoscopic Lumbar Decompression and Foraminoplasty and Future Applications”

5th St. Vinzenz-Orthopädietag 2006 11th November 2006 Linz, Austria

“Outcome of Endoscopic Laser Foraminoplasty after Failed Back Surgery Syndrome”

19th Reunion Annuelle DU Gieda INTER RACHIS, Paris 15 – 16 December, 2006

“Endoscopic Minimal Invasive Spine Surgery”

Workshop at the German National Orthopaedic Meeting, Berlin, Germany – 2 – 6 October, 2006

“Endoscopic Minimally Invasive Spinal Surgery – a New Paradigm, a New Era”

The Mexican Society of Minimally Invasive Spinal Surgery, Mexico – 26 – 29 July, 2006

“Lumbar Pain Sources – Endoscopically Determined, Endoscopic Lumbar Decompression and Foraminoplasty, selection, outcomes and complications, Endoscopic Lumbar Decompression and Foraminoplasty Technique in Detail, Relevance of Spinal

Probing and Discography and Differential Discogram.

Live Surgery”

International Musculoskeletal Laser Society – 1 – 3 June, 2006

“The Complications of Endoscopic Lumbar Decompression and Foraminoplasty”

“Endoscopic Lumbar Decompression and Foraminoplasty – A Paradigm Treatment Shift”

“Diagnostic Relevance of Differential Discography”. Cadaver Workshop

Prize for the Outstanding Paper Presentation entitled “Endoscopic Lumbar Decompression and Foraminoplasty – A Paradigm Treatment Shift” and Winner of the Haki Award for Best Paper Entitled Endoscopic Lumbar Decompression & Foraminoplasty, A Paradigm Treatment Shift”

AGA Meeting, 29 – 30 April, 2006, Baden Baden, Germany. Inaugurated as President of the International Intradiscal Therapy Society – 5 – 9 April, 2006

“Aware State Endoscopic Laser Foraminoplasty: Clinical Selection, Outcomes and Morbidity.

Diagnostic Relevance of Spinal Probing and Discography .

Aware State Determined Lumbar Foraminal Pain Sources.

The Error Risk of Conventional Diagnosis”

ICLFS in South Africa - Cape Town 12 – 27 October, 2005

Aware State Determined Lumbar Foraminal Pain Sources, Diagnostic Relevance of Spinal Probing.

International Musculoskeletal Laser Society, Turkey, 22 – 25 June, 2005.

“The Error Risk of Conventional Diagnosis

Workshop and Live Surgery”

18th Annual Meeting of the International Intradiscal Therapy Society,
San Diego, 25 – 28 May, 2005

“The Error Risk of Conventional Diagnosis and Diagnostic Relevance of Spinal Probing and Discography and Workshop, demonstrating endoscopic surgical techniques”

The Taiwan Spine Society, Percutaneous Endoscopic Laser Discectomy
Symposium, Taiwan, 12 – 17 April, 2005

“The Error Risk of Conventional Diagnosis
Aware State Determined Lumbar Foraminal Pain Sources.
Diagnostic Relevance of Spinal Probing and Discography.”

Minimally Invasive Spinal Surgery Congress, Mexico – 2 – 3 December,
2005

“Aware State Endoscopic Laser Foraminoplasty: Clinical Outcomes and
Morbidity
Live surgery and workshop
Aware State Endoscopic Laser Foraminoplasty Selection, Outcomes, Morbidity in
Chronic Lumbar Spondylosis and Spondylolitic Spondylolisthesis and live
surgery, demonstrating Keyhole Spinal Surgery and Training Workshop Keyhole
Spinal Surgery

Laser Technologies in Medical Science and Practical Medicine –
Moscow 7 – 8 October, 2004

“Aware State Endoscopic Laser Foraminoplasty : Patient Selection, Clinical
Outcomes and Morbidity.
Management of Spondylolytic Spondylolisthesis with Endoscopic Laser
Foraminoplasty.”

International Intradiscal Therapy Society Inc, 19 – 23 May, 2004,
Munich, Germany

“Laser Assisted Forum”

11th Congress of International Musculoskeletal Laser Society Seoul,
Korea 12 – 15 May, 2004

“President & “Aware State Spinal Surgery for Chronic Lumbar Spondylosis in
Failed Back Surgery – Special Lecture. Lumbar Pain Sources and Their
Management by Endoscopic Spine Surgery and Live Operating Workshop –
Endoscopic Laser Foraminoplasty (“EFL”) with the KISS System”
“Aware State Endoscopic Laser Foraminoplasty : Patient Selection, Clinical
Outcome, Morbidity”

IV Congreso Nacional de Neuro Raquis – 18 – 20 February, 2004

Endoscopic Laser Foraminoplasty – Selection, Outcomes and Morbidity and Live Workshop.

Indian Spine Society – 21 – 25 January, 2004

The Cloward Lecture – Aware State Endoscopic Laser Foraminoplasty: Patient Selection, Clinical Outcomes, Morbidity Foraminoplasty and Management of Spondylolitic Spondylolisthesis with Endoscopic Foraminoplasty

Joint Meeting of 11th Annual International Conference on Lumbar Fusion and Stabilisation and 2nd Spine Meeting of Paris – 16 - 17 January, 2004

“Aware State Endoscopic Laser Foraminoplasty : Patient Selection, Clinical Outcome, Morbidity”

Gieda Inter Rachis - 15 Annual Reunion Conference - 13 - 15 December, 2003

“Back Stabbing to the Future”

Isle of Man Post Graduate Meeting – 21 November, 2003

“The role of Endoscopic Minimal Invasive Spine Surgery - Endoscopically Determined Lumbar Sources of Pain and their treatment by Endoscopic Laser Foraminoplasty – Patient Selection and Outcomes and Live Operative Session”

KOMULARS Conference in Seoul, Korea 8 November, 2003

“Endoscopic Lumbar Pain Sources”

The Yorkshire Pain Society – 31 October, 2003

“Endoscopically Determined Lumbar Sources of Pain and their treatment by Endoscopic Laser Foraminoplasty”

Advances in Neurosurgery and Neurosciences and Live Operative Sessions

Neurosurgical Society of Indonesia - 18 - 23 August, 2003

“Aware State Endoscopic Laser Foraminoplasty : Patient Selection, Clinical Outcome, Morbidity”

Endoscopic Visualised Sources of Lumber Pain and Referred Pain”

Gieda Inter Rachis - 15 Annual Reunion Conference - 13 - 15 December, 2003

“Foraminal Surgery in the Lumber Spine

Endoscopic Visualised Sources of Lumber Pain and Referred Pain”

3rd World Congress Minimally Invasive Spinal Medicine and Surgery.

8 - 11 December, 2003, Phoenix, Arizona, USA

“The Rationale for Endoscopic Laser Foraminoplasty.

The Clinical Outcome and Morbidity of ELF in the Treatment of Chronic Lumbar Spondylosis, Failed Back Surgery and Spondylolytic Spondylolisthesis.

The Use of Weight Bearing X-rays –

The Technique of Transforaminal Endoscopic Lumbar Decompression & Foraminoplasty - Detail,

Tricks and Tips and Postoperative Rehabilitation”

International Conference, Beijing. 30 October - 2nd November, 2002

“Endoscopic Foraminoplasty : Illustrations and Results and Morbidity in Endoscopic Surgery”

SPINE 2000, The 10th Spinal Surgery Course, Imperial College School of Medicine. 22 - 23 October, 2002

“Disc Herniations & Foraminoplasty”

Conference on Sports Medicine and Orthopaedic Surgery. Lumbar Spine Pathology in Rowing Practice, Seville, Spain - 20 - 21 September, 2002

“Lumbar Pain Sources Revealed by Aware State Endoscopy. Independent Clinical Outcome and Morbidity Studies of ELF. Endoscopic Aware State Treatment of Grade I - III Spondylolytic Spondylolisthesis”

Dutch Symposium of the International College of Surgeons, Holland 13 - 14 September, 2002

“Use and Application of Electromagnetic Wavelengths in Orthopaedic and Trauma Surgery”

SICOT/SIROT 2002, 22nd World Congress - 23 - 28 August, 2002

The Endoscopic Treatment of Chronic Spondylosis : Elusive does not mean Untreatable

Post Graduate Course, The Institute of Osteopathic Post Graduate Studies. 18 May, 2002

“Endoscopic Laser Foraminoplasty Diagnostic and Treatment Module”

“**Spine Total Care 2002**” - Korea, 20 - 24 March, 2002

“Endoscopic Laser Foraminoplasty Diagnostic and Treatment Paradigm”

Britspine Meeting, Birmingham 27 February 2002

Poster Presentations

AAOS Meeting, Dallas, USA, 13-15 February 2002

“Endoscopic Foraminoplasty in the Management of Spondylolytic Spondylolisthesis”.

SICOT/SIROT Annual Conference, Paris, France 30 August - 1 September 2001
“Independent Outcomes and Morbidity Study
Diagnosis of relevance of Lumbar Foraminal Pain Sources Plus Workshop”

14th ISLMS Meeting, Chennai, India 27-29 August 2001
“Lectures and Workshop”

8th IMLAS Meeting, Cartagena, Columbia, 21-24 May, 2001
“Foraminal Sources of Pain
Endoscopic Aware State Surgery”

1st Chinese Conference on Minimally Invasive Surgery. Guangzhou, China
26 -30 April, 2001
“Endoscopy of the spine - minimally invasive therapy 2 lectures”

1st Portuguese National Meeting on Neuro-endoscopy, Oporto, Portugal
26-27 January 2001
“Endoscopy of the spine - minimally invasive therapy patient selection and clinical outcomes”

Society for Back Pain Research, UMIST Manchester, 23-24 November 2000
“Matrix Degradation by Chondrocytes in the intervertebral disc is mediated by interleukin-1”

The Society for Back Pain Research, Bristol 2 November 2001
“Endoscopic Foraminoplasty in the Management of Spondylolytic Spondylolisthesis”

Spine 2001 9th Meeting, Imperial College, London 24-26 October, 2001
“Endoscopy of Lumbar Pain Sources”

20th Congress on Sports Medicine, Brugge, Belgium 19-20 October 2001
“The Diagnosis and Relevance of Lumbar Foraminal Pain Sources”

Society for Back Pain Research, UMIST Manchester - 23-24 November 2000
“Lasers in Lumbar Spine Surgery
Nerve in-growth into painful intervertebral discs is mediated by nerve growth factor produced by endothelial cells of local blood vessels.”

Society for Back Pain Research, UMIST Manchester 23-24 November 2000
“In Vitro gene transfer to human intervertebral disc chondrocytes by an adenovirus vector.”

Argentina Tour - 3 Lectures - Hospitals and University
November 2000

Brazil Tour November 2000
Lectures and Live Surgery Workshop - University Hospital

South East Spine Club - Frimley Park Hospital 3 November 2000
Endoscopic Lumbar Spine Surgery - Pandora's solution

Spine Society of Europe, Antwerp 10-15 October 2000
"Foraminal Sources of Pain"

World Spine Meeting, Berlin - 4 papers
29-31 August, 2000

Lecture to the National Back Pain Association, Blackpool - 12 July 2000

7th International Congress of the International Musculoskeletal Laser Society - May 18-21 Vienna, Austria
"President - presenting 4 papers - A Prospective Study of 250 Consecutive Patients with Independent Evaluation"

Theatre Nurses Lecture, The Highfield Hospital, June 2000
"The role of Endoscopic Minimal Invasive Spine Surgery current and future prospects"

Third World Congress - Athens, Greece, 10-13 May 2000
"Back to the Future - The National ELF Service"

Lecture to the Chiropractic Organisation, Abingdon, Oxford - 15th April 2000
"A Prospective Study of 250 Consecutive Patients with Independent Evaluation"

American Society for Laser Medicine Reno, Nevada 7-9 April 2000
"A Prospective Study of 250 Consecutive Patients with Independent Evaluation"

Health Services Management Unit, University of Manchester - 30 November 1999
"The vagaries and pitfalls in the development of a new surgical technique in the UK"

Fremap XXVI Symposium, Madrid 1-5 December 1999
"The role of Endoscopic Minimal Invasive Spine Surgery current and future prospects"

VI Brussels Conference, Degenerative Cervical Spine.
"Laser Discectomy and Posterior Wall Reconstruction"

5th Adriatic Coast Laser Symposium - 24-25 September 1999
Speaker - 3 papers and live performance in theatre

Eurospine, Munich - 7-11 September 1999
"Endoscopic Laser Foraminoplasty - A two years Follow-Up of a Prospective Study on 200 Consecutive Patients"

Columbia - 10-17 August 1999
Speaker and live performance in theatre

IITS - Cambridge - 1-5 August 1999
“Endoscopic Laser Foraminoplasty - A 2 year prospective study on 200 Consecutive patients”

Minimally Invasive Neuro Surgery - Barcelona - 17- 20 June 1999
“Endoscopic Surgery of the Spine”

Ninth International Conference on Lumbar Fusion and Stabilisation, Shrigley Hall, Cheshire. June 1999
“President and Keynote Speaker - Endoscopic Laser Foraminoplasty and Aware State Spinal Surgery.
A Treatment Concept and 2 Year Outcome Analysis.”

MACP Conference, Royal Free Hospital London - 15 May 1999

SICOT Meeting, Sydney, Australia - 16-26 April 1999

Professor Benezey visit at Montpellier Hospital - 25 March 1999

2nd Joint Congress, Belgian Arthroscopy Society. 13 March 1999
“Endoscopic Laser Foraminoplasty and Aware State Spinal Surgery - a treatment concept and two year outcome analysis”

Leicester Royal Infirmary, Rheumatology Meeting 11-12 March 1999

Britspine Meeting, Manchester, 3-4 March 1999
“Endoscopic Laser Foraminoplasty”

International Symposium, Brussels Belgium 20 November 1998
“The treatment of radial tears and annular leaks by KTP⁵³².
Laser Disc Decompression and Posterior Wall Reconstruction”

North West Orthopaedic Association, Preston - 14 November 1998
“Laser Disc Decompression and Posterior Wall Reconstruction”

1st Joint Congress, Belgian Arthroscopy Society. Belgium
“Lasers in minimal invasive treatments of the degenerative Lumbar Spine”

Current Trends in Spinal Surgery, Hope Hospital, Manchester - 4 November 1998
“What is the place of lasers in Spinal Surgery”

Spine Society 1-4 October, 1998 – Vienna
“Endoscopic Operations on the Spine”

National Back Pain Association Solihull, Birmingham - 9 September, 1998
“Endoscopic Laser Foraminoplasty”

Spine Society Ankaren, Slovenia - 4-6 September 1998
“Lasers in Spine Surgery”

Leicester Meeting of GPs
“Endoscopic Minimal Invasive Spine Surgery and Lasers in Spine Surgery”

6th Endoscopic Conference, Rome - 1-7 June, 1998
“Endoscopic Laser Foraminoplasty - The Stepping Stone”

IMLAS Meeting, Seville, Spain - 22-29 April 1998
“Endoscopic Laser Foraminoplasty (ELF) Early Experience”

The Changing Face of Back Pain Management Meeting, Chester, 27 March 1998
“The Bio-Psychosocial Model - The Dumping Ground of The Diagnostically Destitute”

Budapest 9-3 December 1998
“Lasers in Spinal Surgery” - Guest Lecture

International Musculo-skeletal Laser Society - Japan - November 1997
“Spinal Surgery in UK
Endoscopic Laser Foraminoplasty KTP⁵³² Laser Disc Decompression - 6 years experience”

San Antonio, Texas - September 30- 4 October 1997
2 Papers International Conference on Lumbar Fusion and Stabilisation

Slovenia Conference September 1997
2 Papers and live operating session

2nd European Advanced Spinal Surgery Forum, Royal College of Surgeons, London
Chairman & 5 papers and 2 workshops

Chiropractors Lytham St Annes June 1997
“Lasers in Spinal Surgery - Pathway to the Future”

Luitpold Klinik, Bad Griesbach, Germany May 1997
“KTP 532 Laser Disc Decompression and Endoscopic Laser Spinal Surgery Outcomes and Future Applications”

EFORT Congress, Barcelona, April 1997
“Endoscopic Laser Foraminoplasty - The Stepping Stone”

Zurich Neumunster January 1997
2 papers

British Orthopaedic Spine Society - Stoke on Trent, 11 January 1997
“Endoscopic Laser Foraminoplasty - The Stepping Stone”

BBC TV January 1997
“How Do They Do That”

International Musculo-skeletal Laser Society Kassel, 7th to 9th November
1997
4 papers

Athens 25th to 27th September 1996
“Lasers at the Dawn of the Millennium”

North West Pain Society, Halifax, December 1996
“Backs to The Future”

Health Services Management Unit Manchester, August 1996
“New Developments in Orthopaedics”

1st European Advanced Spinal Surgery Forum Manchester Royal
Infirmary
Chairman, 5 papers

IITS Amsterdam, 8th to 12th May 1996
“Endoscopic laser foraminoplasty - Early Experience”

BBC Radio, February 1996
“Medicine Now”

International Conference on Lumbar Fusion and Stabilisation
October 1995 - 3 papers

International Musculoskeletal Laser Society
Lake Tahoe 1995 - 3 papers

IITS La Jolla, California March 1995 - 3 Papers

Balgrist University Zurich June 1995 - 2 Papers

**4th British Course on Percutaneous and Minimal Intervention Surgery
in the Spine** Royal Society of Medicine November 1994
“Lasers in Endoscopic Minimal Invasive Spine Surgery”

Restricted Growth Society - October 1994
“Role of Keyhole Spinal Surgery in Achondroplasia”

Hammersmith Hospital - October 1994
“Lasers in Spine”

International Musculoskeletal Laser Society Neuchatel, September 1994 -
5 papers

Balgrist University June 1994 - 2 Papers

BOA Torquay, 13th to 15th September 1993 National Conference for
Chiropractors
Bath October 1993
“Modern Surgical Intervention for Back Pain & Sciatica”

SICOT, Seoul, South Korea - September 1993
“Percutaneous Discectomy and KTP Laser Disc Decompression - Outcome Study”

Oswestry Spinal Symposium - 11 July, 1993
“Endoscopic Intradiscal Laser Surgery”

Minimal Invasive Surgery Conference, Zurich, June 1993
“Endoscopic Intradiscal Discectomy
Comparison of Percutaneous Discectomy and KTP Laser Disc Decompression”

BBC Television, 20 April, 1993
“Modern Medicine”

International Intradiscal Society (IITS), Phoenix, Arizona, 11 March, 1993
“KTP Laser Disc Decompression - Efficacy Study”

North West Orthopaedic Club, Bateman Postgraduate Centre, March 1993
“Endoscopic Intradiscal Surgery - Stepping Stone to the Future”

Magnetic Resonance Imaging Conference, Alexandra Hospital, Cheadle,
Manchester,
February 1993
“Comparison of CAT & MRI Scans to Clinical Outcomes”

BBC Television, February 1993
“Tomorrow’s World”

General Practitioner Course Bateman Postgraduate Centre, January 1993
“Back Pain and Sciatica - Management & New Techniques”

National Association of Theatre Nurses Conference
AMI Highfield Hospital, Rochdale, June 1992
“Back stabbing for Sciatica”

Royal Society of Medicine, London, May 1993

“Laser Disc Decompression - Early Outcome Review”

Regional General Practice Teaching Course Bateman Postgraduate Centre
Rochdale, September 1991

“Back Stabbing for Back Pain”

1st European Conference of Orthopaedics Paris, France, 22 April, 1993

“Laser Disc Decompression - Early Outcome Review”

NON SPINAL PRESENTATIONS

"Carbon Prostheses"

The Tri-Service orthopaedic Meeting

"Battle Bones"

The Military Surgical Society, May 1985

"Stimulant Prostheses"

The Plymouth Medical Society, November 1984

“Anaerobic Osteomyelitis”.

The British Orthopaedic Association, October 1981

"Biomaterials and Bioarthroplasties"

The Gauvain Society Scientific Meeting,
October 1981

"The Background and Future of Arthroscopy"

Symposium of Arthroscopy "Scope of the Future, Future of the Scope". Albert
Einstein College of Medicine September 1980

"The History of Electricity Symposium of Electrical Stimulation of Non-Union,

Albert Einstein College of Medicine - June 1980

"The Synovial Response to a Carbon Fibre Composite"

The Albert Einstein Orthopaedic Alumni Association
Albert Einstein College of Medicine New York, June 1980

"CC2: The Biocompatibility and Osseous Response to a Pure Carbon.

The British Orthopaedic Research Society September 1979

"Can We Scrap Metal"

The American Travelling Fellows Association visit to
St. Thomas' Hospital, London 1969.

"Rehabilitation Following Hand Surgery".

The Wessex Hand Society Swindon,
February 1978

"Fibrinolysis and Postoperative Venous Thrombosis"

The Girdlestone Society Oxford, September 1977

"Postoperative Pulmonary Perfusion Defect, their Natural History, Origin and Significance"

Presented for the Moynihan Prize

The Association of Surgeons of Great Britain and Ireland - London, March 1977

Scientific Exhibit:

"Preliminary Report on the International Multi-Centre Multi-specialty Trial of Intermittent Compression and Wound Recovery"

The Sixth Combined Meeting of the Orthopaedic Associations of the English-speaking World.

London, September 1976

"Reduction of the Incidence of Deep Venous Thrombosis by Intermittent Compression of the Arms"

Abstract: Br. J. Surg. 1976 63 (8), 66

Edinburgh: July 1976

"Intermittent Compression of the Arms reduced the incidence of Post operative

Thrombosis in the Legs: An explanation"

Abstract: European Spinal Research Society

"Fibrinolysis and Intermittent Compression"

Research in Progress Meeting

Massachusetts General Hospital, Massachusetts, October 1975

INSTRUMENT DEVELOPMENT

When I commenced developing endoscopic spinal surgery, applicable instrumentation was not available. I developed a small company to make a novel design endoscope and instruments which sold to surgeons around the world. In an effort to expedite mesenchymal stem cell disc reconstruction the company merged with a German tissue replicant company but regrettably they shelved the spinal division.

Recently I have sought to fill the gap in the market by building a group to provide a holistic entirely disposable endoscopic platform. This will assist surgeons in multiple disciplines and improve access and accelerate precision and reduce the need for surgical portals. This has reached the working prototype stage and now

requires to satisfy the detailed accreditation process. Further details are available at www.surgicalsynergy.com.

NON SPINAL LABORATORY RESEARCH

Orthopaedic Prostheses

I have carried out a series of bio-compatibility and bio-engineering studies on a number of variants of Carbon Fibre Reinforced Carbon, in collaboration, this has lead to the development of a system of hip, knee and bone implants which are nearing the stage of clinical study.

Studies Include:

Histological and the systemic evaluation of the response to Carbon Fibre Reinforced Carbon and other potential prosthetic substance in animals.
Immunological and cell culture studies of the Carbon Fibre Reinforced Carbon.

The development of an animal model designed to reproduce the clinical and microbiological features of infection arising around prostheses and subsequent comparative studies with Carbon Fibre Reinforced Carbon variants and metals. The evaluation of surface tissue egress through Carbon Fibre Reinforced Carbon implants

An evaluation of the bio-physical properties of Carbon Fibre Reinforced Carbon in collaboration (with E J Walker, Atomic Weapons Research Establishment and with Dr J Coutts, Ph.D, Dept. Mechanical Engineering University of Leeds, and with Dr J Coutts, Ph.D., Dept of Engineering, The City University, London).

The development of a 3-Dimensional Finite Element Analysis model for the design of anisotropic Carbon Fibre Reinforced Carbon human prostheses. The design of surface joint replacements fashioned from Carbon Fibre Reinforced Carbon and their evaluation by introduction to animals.

Fracture Healing

I have developed a physiological and quantitative model of fracture healing to evaluate the role of drugs and local hormones upon fracture healing. This model determines the rate of fracture healing by computer planimetry, radioisotopes and biochemical dye analysis. This has been followed by a pilot study of the effect of the inhibitory properties of Diflunisal and Indomethacin, prostaglandin synthetase inhibitors upon fracture healing.

PERSONAL & FAMILY DETAILS

Full Name: Martin Tonbridge Norton Knight

Address: Grange Court Park, Grange Road, St Michaels, Tenterden. TN30 6EE

Tel: 01580 388 310

Place of Birth: London, England Nationality: British

Family: I am married to Ingrid Jennifer Knight (Jenny) and we have three daughters and a son, spread over the globe from the UK to Australia.

RECREATION

Skiing, Foreign Travel, Gardening, Special Cars

Model Trains and steam trains. I am on the expansion committee of the Kent and East Sussex Railway. Good Wines

I am a Commandeur of Bordeaux.

LANGUAGES

French at conversation and written level. Learning Chinese.

COMMUNITY ACTIVITIES

I support local artistic and amateur dramatic societies. I enjoyed a narrow boat and support local canal and steam train societies (KESR). I support the lighting of our local church. I participate in and support village activities in France.