

Curriculum Vitae

Professor Peter Thomas

Consultant Orthopaedic Surgeon
Trauma, Limb Reconstruction and Hands
at
The Royal Stoke University Hospital

Honorary Professor in Orthopaedic Surgery
at
Keele University

Honorary Consultant Orthopaedic Surgeon
at
The Robert Jones and Agnes Hunt Orthopaedic Hospital
Oswestry

March 2021

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Terms and conditions for medico-legal reports

I have been doing medico-legal work as a consultant orthopaedic surgeon since 1990.

I am the senior trauma surgeon on the staff of a level-one trauma centre in a large teaching hospital. We are officially the busiest trauma unit in the country.

I work full-time in the NHS.

I have particular expertise in orthopaedic trauma, limb reconstruction, external fixation, hand surgery, complex fracture and non-union work, bone infection and nerve injury.

I do around 250 medical reports a year. Approximately 20% are joint instructions, 40% plaintiff and 40% defence. I do ten to fifteen joint statements and twenty to thirty negligence reports. I attend court once a year on average.

I base my fees for all reports on a rate of £400.00 an hour.

I allow 45 minutes to interview and examine each client. In a simple single injury with few medical records some of that time can be used to review the records and x-rays. Such a report will come out at between £400 and £600.

If the interview and examination are necessarily more involved and prolonged, and the medical records more extensive, then the fee will be higher.

The same hourly rate applies to negligence reports, but these usually take longer to prepare. This is because for most negligence reports the notes, and other documentation, tend to be more extensive than for personal injury reports. A comprehensive literature review adds further time.

If I am asked for an estimate of the cost of a report with extensive medical records, I assume 10 seconds to review each page and 15 minutes for each CD ROM disc of x-rays. The 10 seconds allows for the irrelevant pages taking only a few seconds to assess and the relevant pages taking 5-10 minutes to assimilate and dictate on. After sorting and dictating on the notes and x-rays I assume two hours to dictate the discussion, review and quote relevant medical literature, and read through and correct the report. If the client is to be seen and examined, I assume another 45 minutes.

The final fee may be less if it takes me less than the estimated time to prepare. The estimate is the maximum likely fee.

For negligence cases I am sometimes asked to do a brief scouting report pro bono or for a nominal fee. If it is stated or implied that my positive response to the question of negligence would result in my being instructed to prepare full reports on negligence and causation, I could then run the risk of it being seen by The Court that my initial opinion could have been influenced by the fee that I expected to receive for the full report.

In certain types of cases I am prepared to do such scouting reports, but only on the understanding that whatever my opinion with regard to negligence I will not necessarily be instructed to write a more detailed report on the same case.

I am prepared to give pro bono advice, but only verbally in discussion; usually on the phone

My court attendance fees are charged at £2,500 a day. If the court hearing is cancelled, I calculate my fee on the assumption of one day in court. I do not charge a cancellation fee if I am informed more than a week before the proposed date of the hearing.

If I am informed of the cancellation less than a week before the hearing, I charge half the cancellation fee; if I am told less than 3 working days before the court hearing I then charge the full cancellation fee of £2,500.

I usually see clients at my rooms at Keele (see page 6).

I can travel to see clients, in which case my fees are the same as above, with the addition of £400 per hour of travel time, plus rail and taxi fares.

I prefer, of course, to be paid immediately; but some solicitors insist that they will only pay the fee after an arbitrary delay, or when the case is settled.

I will accept delayed payment provided you are quite clear about the period you will delay payment by, and provided you undertake to inform me when the case is settled.

I will not accept the conduct of some solicitors and agents who leave it to me to chase them for fees long after a case has been settled.

I am usually sent medical records as paper photocopies. This is the form that I prefer. If the records are to be sent in an electronic format, please make sure that the pages are in order and with the correct orientation.

X-rays and scans are usually provided on CD-ROM discs, but solicitors often fail to send me the correct password for the disc, and often fail to check that the disc will open properly. It wastes time, at my hourly rate, if I have to send the discs back or request new ones. I would be grateful if you would check that discs of x-ray images open correctly before sending them to me.

Problems with CD-ROM discs of x-rays are the commonest reason for a report being delayed.

Once I have been through the photocopies of medical records, I discard and shred all the pages that are not relevant to my report. I only keep the pages containing the sections that I have quoted. If you require the copies of all the medical records back from me, I would be grateful if you would make this clear in your letter of instruction.

Personal Details

Name	Professor Peter Brian MacFarlane Thomas	
NHS Address	Department of Trauma & Orthopaedic Surgery The Royal Stoke University Hospital (Keele University) Newcastle Road Stoke on Trent ST4 6QG	
Secretary	Sharon Wood	
Email	pbmt.medicolegal@tiscali.co.uk	
Telephone No	01782 520 225	
Correspondence	15 St James Court Grange Park Drive Biddulph Staffordshire ST8 7XX	
Consulting rooms	Swan Physio Ltd The Keele Centre Three Mile Lane Newcastle-under-Lyme ST5 5HH	
Qualifications	MB, BS (London)	May 1975 St. Thomas' Hospital Medical School
	FRCS (Ed)	March 1981
	FRCS (Eng)	May 1981
Indemnity	Indemnified for medicolegal work with the Medical Protection Society (Membership number 105756).	

Consultant Appointments

1. July 1989 to present
Consultant Orthopaedic, Hand and Trauma Surgeon
The Royal Stoke University Hospital Level One Trauma Centre.
2. January 2017 to present
Honorary Consultant Orthopaedic Surgeon
The Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry
3. May 2019 to present
Honorary Professor of Orthopaedic Surgery
Keele University
4. July 1989 to June 2007
Senior Lecturer in Orthopaedic Surgery at Keele University.
5. June 2009 to July 2018
Visiting Professor of Orthopaedic Engineering at Staffordshire University

Prizes

Lord Stafford Award 2005

MacRobert Award, Royal Academy of Engineering, finalist (of four) 2007

Leuvense Traumadag Gold Medal Lecturer, Belgium March 2007

Naughton-Dunn Gold Medal Lecturer, May 2007

Old Oswestrians Society Gold Medal Lecturer, June 2009

Appointments

July 1975 - January 1976:

House Physician (Pre-registration) at the Kent and Canterbury Hospital.
(Dr M Rake)

January 1976 - July 1976:

House Surgeon (Pre-registration) in General Surgery in the County Hospital,
Hereford.
(Mr D Oakland)

July 1976 - January 1977:

Senior House Officer in Casualty at the General Hospital, Hereford.

January 1977 - July 1977:

Demonstrator in Anatomy at the University of Wales.
(Professor J D Lever)

July 1977 - March 1978:

Senior House Officer in General Surgery at the University Hospital of Wales.
(Mr G Heard; Mr H Jones)

March 1978 - May 1978:

Senior House Officer in Cardiothoracic Surgery at the University Hospital of Wales.
(Mr I Brechenridge; Mr T Rosser)

May 1978 - July 1978:

Senior House Officer in Emergency General Surgery at the Cardiff Royal Infirmary.
(Mr G Heard; Mr H Jones; Mr D Crosby; Mr D Foster)

Surgical Registrar at the University Hospital of Wales.

Three year vocational training scheme (six posts of six months duration)

1. July 1978 - January 1979:

Registrar in Trauma and Orthopaedics at the Cardiff Royal Infirmary.
(Professor B McKibbin; Mr M H Young; Mr H Weisl; Mr H Richards)

2. January 1979 - July 1979:

Registrar in Neurosurgery at the University Hospital of Wales.
(Mr R Weeks; Mr K Frazer)

3. July 1979 - January 1980:

Registrar in Orthopaedics at the Prince of Wales Hospital, Rhydrafar and the
University Hospital of Wales.
(Professor B McKibbin; Mr M H Young; Mr H Weisl; Mr D Jenkins)

4. January 1980 - January 1981:
Registrar in General Surgery at East Glamorgan Hospital, Church Village.
(Mr R Williams; Mr G Davies)

 5. January 1981 - July 1981:
Registrar in General and Paediatric Surgery at the University Hospital of Wales.
(Mr B Rees)
- Career Grade Registrar in Orthopaedic Surgery
Rotation based at the Robert Jones and Agnes Hunt Orthopaedic Hospital.
1. July 1981 - July 1982:
Registrar in Orthopaedic Surgery at Hereford General Hospital.
(Mr G C Slee; Mr P V Seal)

 2. July 1982 - June 1983:
Registrar in Orthopaedic Surgery at the Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry.
 - (a) July 1982 - November 1982 : Professorial Unit
(Professor Brian T O'Connor)

 - (b) November 1982 - March 1983 : Shrewsbury Firm
(Mr R S Cowie; Mr D Harris; Mr R G Pringle; Mr J Patrick)

 - (c) March 1983 - July 1983 : Welsh Firm
(Mr T E Jeffreys; Mr T A Evans; Mr D H A Jones; Mr A M Jamieson; Mr G A Evans;
Mr J M Barnes)

 3. July 1983 - July 1984
Registrar in Orthopaedic Surgery at the War Memorial Hospital, Wrexham.

(Mr T E Jeffreys; Mr A M Jamieson; Mr G A Evans)

 4. July 1984 - July 1985:
Registrar in Orthopaedic Surgery at the Royal Shrewsbury Hospital.
(Mr R S Cowie; Mr D Harris; Mr R C Pringle; Mr J Richards)

 5. July 1985 - July 1986:
Research Fellow in Orthopaedics (Exchange Fellowship) at St Luke's Episcopal Hospital and the Baylor College of Medicine, Texas Medical Centre, Houston, Texas.
(Dr Joseph Barnhart; Dr Hugh Tullos)

 6. July 1986 - January 1987:
Registrar in Hand Surgery at the Derby Royal Infirmary, Derby.
(Mr F S Burke; Mr P Lunn)

7. January 1987 - July 1987:
Registrar in Orthopaedic Surgery at the North Staffordshire Royal Infirmary, Stoke-on-Trent.
(Mr J Dove; Mr P Hill)

8. July 1987 - December 1987:
Registrar in Joint Replacement Surgery at the Wrightington Hospital, Wigan.
(Mr M Wroblewski; Mr K Hardinge, Mr J Murphy)

9. January 1988 - January 1989:

Senior Registrar in Traumatic Orthopaedic Surgery at the North Staffordshire Royal Infirmary, Stoke-on-Trent.
(Professor J Templeton; Mr T R Fisher; Mr D H Edwards; Mr C H Wynn Jones; Mr J Dove)

10. October 1988:
Appointed Lecturer in Orthopaedic Surgery in the Department of Postgraduate Medicine, University of Keele.

11. January 1989 - July 1989:
Senior Registrar in Elective Orthopaedic Surgery at the Hartshill Orthopaedic Hospital, Stoke-on-Trent.
(Mr P Hill; Mr D H Edwards; Mr T R Fisher; Mr J Dove; Mr C H Wynn Jones; Mr W M Steel)

Contributions

1. Major Disaster Symposium, Stoke-on-Trent July 1990 (Chief Organiser).
2. Secretary of the Accident, Emergency and Orthopaedic Sub-committee, Stoke-on-Trent, 1990-1993.
3. Director of Hand Surgery at Stoke-on-Trent from November 1990.
4. Surgical Tutor to the Royal College of Surgeons of England from 1991.
5. Member of the North Staffordshire Medical Education Committee from 1992.
6. Member of the Regional Orthopaedic Training Sub-committee (Birmingham) from 1992.
7. Founder member of the "Stoke Group" on Major Disasters 1990.
8. Member of the North Staffordshire Medical Ethics Committee, 1990-1993.
9. Member of the Committee for the European Workshop on Open Systems, British Standards Institute, 1992-1993.
10. Member of the British Medical Relief Team to Bosnia, July 1992.
11. Official European Inventor. Designated 1996.
12. Assessor on advisory appointment committees for the Royal College of Surgeons of England from 1997.
13. Advisor on Trauma services New Delhi, India 1998.
14. Acting Head of Academic Department of Orthopaedic Surgery, Stoke-on-Trent July 1999 to March 2000.
15. Member of the Postgraduate Committee from 2002.
16. External Examiner for fourth year medical students, Belfast 2003-2006
17. Organiser of the Stoke-on-Trent Annual Trauma Course 2004-2007.
18. Orthopaedic Surgery relief work in Nepal and Bhutan 2005.
19. Orthopaedic Surgery relief work in Nepal and Tibet 2009.

20. UK OA Faculty Member from 2011
21. Orthopaedic Surgery relief work in Nepal 2012 and 2016
22. ARCP training committee from 2012
23. Assessment, in Istanbul, of injuries sustained by Iraqi civilians during Iraq war of 2018
23. External advisor on limb reconstruction services in Manchester 2019

Grants and Funding

€2.059 million from July 2017 European Space Agency funding for **€4.2 million** project to develop communication system for the Intelligent Fixator Project, of which **€240,000** to Keele University.

€600,000 from April 2014 with Slovenian electronics company matched by Slovenian government grants to Metaphysis for the Intelligent Fixator Project.

£1.66 million total investment (venture capital) in Intelligent Orthopaedics from May 2005 to August 2015, used for research and development of surgical devices.

£125,000 investment in Intelligent Orthopaedics by Mercia, October 2003

£15,000 second Accelerator grant for Intelligent Orthopaedics 2003

£5,000 from Mustard for starting up a company under the Universities of Keele and Staffordshire, acquired September 2002.

£21,000 Accelerator grant for Intelligent Orthopaedics 2002

£12,000 pathfinder grant from Spinner for start-up a company “Intelligent Orthopaedics” with The University Hospital of North Staffordshire and the Universities of Keele and Staffordshire, acquired September 2002.

£72,188 from Locally Organised Research Scheme, West Midlands NHS Executive. (LORS 2011), acquired November 1998 for 1999-2002. P.B.M.Thomas, C.I.Moorcroft.

Salary of Bioengineering Research Fellow to study ways to improve the assessment of healing endpoints in tibial fractures.

£29,000 from the Wishbone Trust to fund a research fellow in cellular biology to study the effects of smoking on human osteocytes. 1998-2000., E.El-Haj, P.B.M.Thomas. Salary for Cellular Engineering Research Fellow studying the effect of smoking on the response of human tibial bone cells to mechanical stimuli.

£83,000 from DePuy Ace, California, to continue to fund the engineering research fellow in orthopaedics, acquired March 1997 for 1997-1999. P.B.M.Thomas, P.J.Ogrodnik, C.I.Moorcroft. Salary for Bioengineering Research Fellow studying tibial fracture fixator design and monitoring systems.

£350,000 from the EPSRC through a link grant to fund an engineering research fellow in orthopaedics. 1993-1997. (EPSRC J55984, LINK MIP/15) P.B.M.Thomas, P.J.Ogrodnik. Salary for Bioengineering Research Fellow studying tibial fracture fixator design and monitoring systems.

£132,000 from Biomet UK to fund the salary of a clinical orthopaedic research fellow for 4 years. 1992-1996. P.B.M.Thomas, P.J.Ogrodnik. Salaries for 3 consecutive Clinical Research Fellows studying external fixation of tibial fractures.

Grants in Process

£270,363.36 Technology Strategy Board (Health and Life Sciences round 2)

£275,000 Technology Strategy Board (KTP Associates)

£510,963.68 Technology Strategy Board (Emerging and Enabling Technology)

£360,000 Biomedical Catalyst (Innovate UK)

Patents

Device to Transmit Orientation information for Casts and Splints

GB1818925.8 Metaphysis LLP 21.11.18

P.B.M.Thomas, P.J.Ogrodnik, S. Hartmann

Clips to Retain Dressings for External Fixator Pins and Wires

GB1819826.6 Metaphysis LLP 21.11.18

P.B.M.Thomas, P.J.Ogrodnik, S. Hartmann

Intelligent Fixator System

WO 2015/036784 Intelligent Orthopaedics Ltd 12.9.14

P.B.M.Thomas, P.J.Ogrodnik, S. Hartmann

Fixator

European Patent 06744154.3–1526

PCT/GB2006002103 Intelligent Orthopaedics Ltd 18.1.08

P.B.M.Thomas, C.I.Moorcroft, P.J.Ogrodnik.

Wire Retainer for Surgical Device

European Patent 0674889.9 – 2318 PCT/GB2006002464

Intelligent Orthopaedics 3.3.08

P.B.M.Thomas, C.I.Moorcroft, P.J.Ogrodnik.

Bone fixator

European Patent 96302957.4-2310 0740927

Keele University & Staffordshire University 24.1.01

P.B.M.Thomas, C.I.Moorcroft, P.J.Ogrodnik.

Fracture reduction device

GB 2 324 038 A Keele University & Staffordshire University 11.4.97

P.B.M.Thomas, C.I.Moorcroft, P.J.Ogrodnik.

Fracture reduction device

WO 98/46156 Keele University & Staffordshire University 11.4.97

P.B.M.Thomas, C.I.Moorcroft, P.J.Ogrodnik.

External bone fixator

US 5,738,684 Keele University & Staffordshire University 30.4.96

P.B.M.Thomas, C.I.Moorcroft, P.J.Ogrodnik.

External bone fixator

WO 97/41672 Keele University & Staffordshire University 26.4.96

P.B.M.Thomas, C.I.Moorcroft, P.J.Ogrodnik.

Personal Statement

As a consultant orthopaedic and trauma surgeon at Stoke-on-Trent for the last twenty-nine years, I have had the opportunity to develop devices designed to improve the treatment of fractures.

My research team has always included engineers, because it is through the application of engineering that we have been able to investigate how movement and function influence fracture healing. The engineers have been invaluable in designing and building the complex devices required for this work.

Through clinical trials with the Angular Motion Fracture Fixation device we found what types of movement are best for healing by callus, and we developed a data logging system to record what the fixators and fractures were doing when the patients were not in the hospital.

We developed the STORM (Staffordshire Orthopaedic Reduction Machine) to position tibial fractures in the operating theatre prior to fixation. This device is now used in many hospitals in the UK and around the world.

Because of the STORM and our research on fracture healing we were able to develop the IOS fixator, which has mechanical properties that optimise healing and allow an accurate assessment of when the fracture is healed. The design of the IOS was made possible by the extensive research that we have done on the measurement and significance of fracture movement and stiffness in healing tibial fractures.

Over 400 IOS fixators have been used in the UK and worldwide.

Our work on dressing systems, including the patented Metaclips for external fixator pins, has improved the outcomes of treatment, and we now have a dedicated team of nurses who apply the techniques that we have pioneered, collecting data for continuing research on pin-site care.

I have acquired a steady stream of funding from national and international research bodies as well as commercial sources.

Whilst a senior lecturer in orthopaedics I set up the first medical spin-out company at Keele University; Intelligent Orthopaedics Ltd.

This company shared patents with Keele University, Staffordshire University and the Hospital Trust, and allowed us to build and commercialise the STORM and IOS systems.

From senior lecturer at Keele I then became a visiting Professor in orthopaedic engineering at Staffordshire University, a post that I held for nine years while we continued to develop our devices.

I learned a lot about the advantages and pitfalls of a university spin-out company, as did Keele University and Staffordshire University. We learned the hard way about venture capitalists, eventually putting Intelligent Orthopaedics into liquidation four years ago.

This was a good thing because by then we had used over a million pounds of venture capital for research and development, and were able to buy out the company for a very small amount, incredibly retaining our intellectual property along with FDA approvals and CE marks.

From this we formed a new company, Metaphysis LLP, through which we can continue to develop, manufacture and distribute our devices.

We are now developing a transmission system so that the IOS fixators can communicate continuously with the treating surgeon and patient by uploading data on fixator movement to a web-based system.

We recently acquired major funding for this through the European Space Agency who are partners in the project.

As this grant is coming through Keele university, and my main research colleague, Professor Peter Ogradnik, has moved from Staffordshire University to Keele University, I feel that the time is right for me to move my affiliations back to Keele.

If I am appointed to the post I will bring with me this continuing project along with several further research projects that it will lead to.

I am actively seeking further funding for projects that will flow from our ability to acquire accurate continuous data on healing tibial fractures.

We intend to look at how more accurate continuous data can contribute to earlier detection and treatment of problems with healing.

The data will allow us to advise patients on the optimum way to influence their healing by walking an adequate distance each day, as the fixator has an accelerometer which can be used as a pedometer. We will be able to determine what the optimum is.

The fixator has an inclinometer so we will know the position of the limb. We will therefore be able to optimise elevation of the limb at home to prevent swelling. This inclinometer transmission system will also be used in a study on elevation of limbs in casts, so we will know for the first time how much patients sent home to elevate a limb prior to surgery comply with advice, and whether we can modify their behaviour to improve outcomes. This is likely to significantly reduce bed occupancy for patients with ankle fractures awaiting surgery.

Strain gauges on the fixator tell us how much it moves in response to walking loads, so we can predict a date for healing and recall the patient to have the fixator removed in clinic when the fracture has healed.

We will see if we can influence smoking habits when the patient sees, from an application on their phone, how stopping smoking will bring their predicted healing time forwards.

I am seeking funding for all these future studies which we hope to begin over the next two years.

I am an experienced and keen teacher and lecturer. I am often invited to speak at meetings here and abroad.

I have thirty years' experience of forensic reporting in injury and medical negligence cases in the UK and Europe.

Intelligent Orthopaedics Ltd

Professor Peter Ogrodnik, Dr. Ian Moorcroft (of Stafford University) and I created the first University spin-out company at Keele University to market the devices that we developed through research into tibial fractures. After prolonged negotiations with the Universities and Hospital Trust in relation to intellectual property, we established the company, “Intelligent Orthopaedics” and acquired a global distributor. We have CE marking in Europe and FDA approval in the USA for the sale of the STORM reduction device and the IOS external fixator. The University of Staffordshire, Keele University and The University Hospital of North Staffordshire NHS trust had equal shares in the company.

We are continuing to perform clinical trials on the devices that we are developing for improving the treatment of tibial fractures.

We are developing new external fixation devices which we will bring to market in due course. These include modifications to the STORM to widen its application to intramedullary nailing. We are developing hybrid fixators for fractures of the proximal and distal tibial metaphyses and are working on the “intelligent fixator” which will predict healing time, inform the surgeon of any abnormal delay in healing, and signal when the fracture has healed and when it is safe to remove the fixator.

Metaphysis LLP

I am a director of this company that was formed in 2013 to develop the Intelligent Fixator System with a company in Slovenia that develops sensors for the car engine market. They have put €600,000 towards the project, which is advancing well.

Metaphysis LLP bought Intelligent Orthopaedics Ltd in August 2015.

We continue to improve and market the STORM and IOS devices and continue to develop other related surgical and measurement devices. We are already doing measurements of tibial fracture healing with the new device in clinic, and will soon be starting full clinical trials.

Our STORM device is already in use in hospitals in the UK, the USA, Germany, France, Italy, Belgium, Greece, Australia and Nepal.

In June 2017 we had confirmation of a €2.059 million grant from the European Space Agency as part of the funding for €4.2 million project to develop communication systems for our Intelligent Fixator Project.

€240,000 of that grant will come to Keele University.

Invited Speaker at Learned Societies

Intelligent Fixation

P.B.M.Thomas

Complex and Catastrophic Loss Conference 2018 (Legal)
Arundel House, London 11th Oct 2018

Pin Sites: How Can They Work?

P.B.M.Thomas

7th National Orthopaedic Infection Forum
Cavendish Conference Centre, London 5th July 2018

Treatment of Bone Defects of Over Twenty Centimetres

P.B.M.Thomas

British Limb Reconstruction Academic Programme
Southampton 15th-16th March 2018

Pin Site Care and Infection

P.B.M.Thomas

British Limb Reconstruction Academic Programme
Southampton 15th-16th March 2018

The History and Treatment of Osteomyelitis

P.B.M.Thomas

Symposium, Advances in the Treatment of Bone Infection
Bristol 5th Dec 2017

Storage and Transmission of Healing Data from an External Tibial Fixator

P.B.M.Thomas

Seminar at the Annual Orthopaedic Trauma Meeting
Berlin Oct 27th 2017

Fracture Healing and External Fixation of the Tibia

P.B.M.Thomas

Lecture and practical classes: course for trainees.
Manchester Spire Hospital 14th Oct 2017

Frame Mechanics and Principles of External Fixation

P.B.M.Thomas

Lecture and demonstration on fresh specimens in cadaveric lab.
Keele University 22nd May 2017

Fracture Healing and External Fixation of the Tibia

P.B.M.Thomas

Lecture and practical classes: course for trainees.
Manchester Spire Hospital 6th May 2017

Fracture Healing and the Intelligent Fixator Project

P.B.M.Thomas

Lecture and demonstration 27th April 2017

video link: https://www.dropbox.com/s/3fzqkkjy96igqod/AT_Kearney_The_Future_of_Digital_Health_v1.mp4?dl=0

Symposium at ATKearney, Berkley Square, London

Osteomyelitis

P.B.M.Thomas

Lecture 29th Sept. 2016

The Bir Hospital, Kathmandu

The Garches External Fixator

P.B.M.Thomas

Seminar on High Tibial Osteotomy, 22nd March 2016

Verona, Italy

Fracture Healing in the Human Tibia

P.B.M.Thomas

Annual Cadaveric Surgery Course for Trauma Orthopaedic Surgeons

18th to 20th November 2015

Arhus, Denmark

Surgical Treatment of Bone Infection

P.B.M.Thomas

6th National Orthopaedic Infection Forum, 24th June 2015

School of Oriental and African Studies, London.

External Fixation with STORM and IOS

P.B.M.Thomas

Annual Training Meeting for Trauma Orthopaedics 25th Sept. 2014

Odense University, Denmark.

External Fixation and Bone Healing

P.B.M.Thomas

Manchester Trauma and Reconstructive Association Meeting 13th Sept 2014

Salford Hospital, Manchester.

Bone Properties and Modes of Healing

P.B.M.Thomas

AO Trauma Course. Basic Principles of Fracture Management

Basingstoke November 18-21 2013

Relative Stability External Fixators

P.B.M.Thomas

AO Trauma Course. Basic Principles of Fracture Management

Basingstoke November 18-21 2013

Damage Control Orthopaedics

P.B.M.Thomas

AO Trauma Course. Basic Principles of Fracture Management
Basingstoke November 18-21 2013

Reducing Tibial Shaft, Plateau and Pilon Fractures

P.B.M.Thomas

Orthopaedic Trauma Association 27th Annual Meeting, Workshop and lecture
San Antonio, Texas, 13th October 2011

Fracture Healing and Monolateral External Fixation

P.B.M.Thomas

Fundamentals of External Fixation Course, Southern Region
Reading, 29th September 2011

Pelvic Fractures: The Role of External Fixation

P.B.M.Thomas

Fundamentals of External Fixation Course, Southern Region
Reading, 29th September 2011

Fracture Healing and Monolateral External Fixation

P.B.M.Thomas

Fundamentals of External Fixation Course, Northern Region
Hilton Deansgate
Manchester 8th September 2011

Pelvic Fractures: The Role of External Fixation

P.B.M.Thomas

Fundamentals of External Fixation Course, Northern Region
Hilton Deansgate
Manchester 8th September 2011

Treatment of Osteomyelitis

P.B.M.Thomas

2nd National Orthopaedic Infection Forum
1 Birdcage Walk (Royal Institution of Mechanical Engineering)
London 6th July 2011

The Importance of Reduction in Tibial Fractures

P.B.M.Thomas

Keynote lecture AO Annual UK Faculty Meeting
Chepstow 13th November 2010

Principles of Tibial Fracture Fixation

P.B.M.Thomas

Trauma course Orthofix
Marlow 7-8th October 2010

External Fixation of Tibial Shaft Fractures

P.B.M.Thomas
Trauma Course Orthofix
Sheffield 9-10th September 2010

The Evolution and Development of Orthopaedic Technology

P.B.M.Thomas
Welsh Orthopaedic Training Programme Instructional Course
Cardiff 9th July 2010

How Do Fractures Heal?

P.B.M.Thomas
Keynote Speaker, British Orthopaedic Trainees Association Annual Meeting
Carden Park, Cheshire 11-12th June 2010

How to Get Bones to Heal

P.B.M.Thomas
Grand Round Lecture
Isle of Man 22nd January 2010

The Staffordshire Orthopaedic Reduction Machine and IOS Fixator

P.B.M.Thomas
Seminar Lecture
Osnabruck, Germany 5th November 2009

Principles of External Fixation

P.B.M.Thomas
Trauma Course Orthofix
South Wales 8-9th September 2009

Tibial External Fixation

P.B.M.Thomas
North Staffordshire International Fracture Fixation Course,
Stoke-on-Trent, 17th June 2009

Understanding the Mechanics of Fracture Healing

P.B.M.Thomas
Gold Medal Lecture, Old Oswestrians Society
Oswestry 12th June 2009

Reduction of Fractures of the Tibial Plateau, Plafond and Shaft

P.B.M.Thomas
Kathmandu Orthopaedic Meeting
Nepal, 8th May 2009

**Minimally Invasive Technique for the reduction of Tibial Fractures using
STORM**

P.B.M.Thomas
Lecture and Workshop, Annual Trauma Congress Germany
Berlin 23rd October 2008

Fracture Healing and the IOS Fixator

P.B.M.Thomas
Invited lecture Orthopaedic Teaching Seminar
Bridgend, Wales 20th June 2008

External Fixation (three lectures)

P.B.M.Thomas
North Staffordshire International Fracture Fixation Course,
Stoke-on-Trent, 18th June 2008

Non-Union and Deformity Correction

P.B.M.Thomas
South Wales External Fixation Course
Cardiff, 26th February 2008

STORM and Tibial Fractures

P.B.M.Thomas
Trauma Teaching Meeting
Exeter 20th September 2007

Principles of Tibial External Fixation

P.B.M.Thomas
North Staffordshire International Fracture Fixation Course,
Stoke-on-Trent, 27th June 2007

Treatment of Tibial Fractures

P.B.M.Thomas
Trauma Training Symposium
Liverpool, 15th June 2007

Fracture Healing: Concepts and Innovations

P.B.M.Thomas
The Naughton-Dunn Keynote Lecture (Gold Medal)
Annual Meeting of the Naughton-Dunn Club, Stoke-on-Trent, 12th May 2007

External Fixation of the Tibia: Reduction and Mechanics

P.B.M.Thomas
Leuvense Traumadag, La Journée de Traumatologie de Louvain
Leuven, Belgium, 24th March 2007

Pilon Fractures

P.B.M.Thomas
Annual Scientific Meeting of the British Orthopaedic Foot and Ankle Society
Crewe Hall, Cheshire, 15th-17th November 2006

Principles, Philosophy and Biomechanics of External Fixation

P.B.M.Thomas
North Staffordshire International Fracture Fixation Course,
Stoke-on-Trent, 1st-3rd November 2006

Wrist and Hand Fracture Management

P.B.M.Thomas

North Staffordshire International Fracture Fixation Course,
Stoke-on-Trent, 1st-3rd November 2006

Tibial Fractures: The Stoke-on-Trent Approach

P.B.M.Thomas

North Staffordshire International Fracture Fixation Course,
Stoke-on-Trent, 1st-3rd November 2006

Basic Principles of External Fixation

P.B.M.Thomas

The Verona Trauma and Reconstruction Course, Verona, Italy, 15th-17th May 2006

Paediatric Fractures and Foot Fractures

P.B.M.Thomas, Chairman

8th International Trauma Symposium, Prague, 30th January-1st February 2006

External Fixation of the Tibia

P.B.M.Thomas

Trauma Symposium, Bia Hospital Medical School,
Kathmandu, Nepal, 24th Nov 2005

The Importance of Proper Reduction in External Fixation

P.B.M.Thomas

International Trauma Symposium, Cancun, Mexico, 23rd September 2005

Tibial Plateau Fractures: External Fixation as the Definitive Treatment

P.B.M.Thomas

International Trauma Symposium, Cancun, Mexico, 22nd September 2005

The Basic Principles of External Fixation

P.B.M.Thomas

The Verona External Fixation Course, Verona, Italy, 16th-17th May 2005

Basic Philosophy of External Fixation

P.B.M.Thomas

Second International External Fixation Course, Stoke-on-Trent, 4th-5th May 2005

Wrist and Small Bone Fracture Management

P.B.M.Thomas

Second International External Fixation Course, Stoke-on-Trent, 4th-5th May 2005

Sheffield Ring Frame for Tibial Trauma

P.B.M.Thomas

Second International External Fixation Course, Stoke-on-Trent, 4th-5th May 2005

The Limb Reconstruction System

P.B.M.Thomas

South West & Wessex External Fixation Course, 27th-28th April 2005

External Fixation and Fracture Healing

P.B.M.Thomas

South Wales External Fixation Course, Coychurch, South Wales, 24th November 2004

Complex Fractures, Non-unions and Malunions

P.B.M.Thomas

South Wales External Fixation Course, Coychurch, South Wales, 24th November 2004

Tibial Fractures: Distal Third, the Role of External Fixation

P.B.M.Thomas

The Verona External Fixation Course, Verona, Italy, 14th-15th June 2004

Planning and Deformity Correction

P.B.M.Thomas

The Verona External Fixation Course, Verona, Italy, 14th-15th June 2004

Basic Philosophy of External Fixation

P.B.M.Thomas

North Staffordshire International External Fixation Course, Stoke-on-Trent, 9th-10th June 2004

Fracture Healing

P.B.M.Thomas

North Staffordshire International External Fixation Course, Stoke-on-Trent, 9th-10th June 2004

External Fixation of Tibial Fractures

P.B.M.Thomas

Pan-Hellenic Orthopaedic Society 9th Annual Congress, Delphi, Greece, 7th-9th May 2004

Surgery in the Rheumatoid Hand

P.B.M.Thomas

Annual European Congress of Rheumatology, Lisbon, Portugal, 18th June 2003.

Tibial Fracture Management: External Fixation using STORM

P.B.M.Thomas,

Orthofix International External Fixation Course, Stoke-on-Trent, 11th June 2003.

External Fixation of Wrist Fractures

P.B.M.Thomas,

External fixation in Trauma, Abu-Dhabi, Arab Emirates, 12th May 2003.

The Staffordshire Orthopaedic Reduction Device in External Fixation of Tibial Fractures

P.B.M.Thomas,

External fixation in Trauma, Abu-Dhabi, Arab Emirates, 12th May 2003.

The Use of Hybrid Frames in Lower Limb Injuries

P.B.M.Thomas,

External fixation in Trauma, Abu-Dhabi, Arab Emirates, 12th May 2003.

Treatment of Tibial Fractures with Unilateral External Fixation

P.B.M.Thomas,

External fixation in Trauma, Abu-Dhabi, Arab Emirates, 12th May 2003.

External Fixation of Wrist Fractures

P.B.M.Thomas,

External fixation in Trauma, Dubai, Arab Emirates, 10th May 2003.

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Getting Research into Practice

P.B.M.Thomas

Annual European Congress of Rheumatology, Stockholm, 12th June 2002.

Planning Surgery for Patients with Rheumatic Diseases

P.B.M.Thomas

Annual European Congress of Rheumatology, Prague, 14th June 2001.

Why did we Evolve with Bones that Break?

P.B.M.Thomas

British Trauma Society, Crewe Hall, Crewe, 8th October 1999.

Advances in Fracture Healing

P.B.M.Thomas

2nd Trauma Care Conference: Improving Trauma Care, Bournemouth, 9th June 1999.

Principles of Osseodistraction and its Application in Longbones

P.B.M.Thomas

Faciomaxillary Surgeons Midland Clinical Club, Stoke-on-Trent, 16th November 1998.

A Biological Approach to the Treatment of Tibial Fractures

P.B.M.Thomas

International Conference on Emergency Medical Systems, All India Institute of Medical Sciences, New Delhi, India, 14th October 1998.

Controlled Angular Motion Fixation of Tibial Fractures

P.B.M.Thomas

American Orthopaedic Trauma Society, Louisville, Kentucky, USA. 17th October 1997.

Monolateral Fixation Systems: A Critical Appraisal

P.B.M.Thomas

Monolateral and Hybrid External Fixation Systems in Trauma and Orthopaedics, Royal College of Surgeons of England, 3rd June 1997.

Upper Tibial Osteotomy for Unicompartmental Osteoarthritis of the Knee

P.B.M.Thomas

Monolateral and Hybrid External Fixation Systems in Trauma and Orthopaedics, Royal College of Surgeons of England, 5 June 1997.

A Clinician's View of NHS Purchasing

P.B.M.Thomas

NHS Purchasing Decision Making, Medilink Forum of Medical Technology Seminar, The Worldgate Centre, Staffordshire, 9th April 1997

The Effects of Movement on Diaphysial Fracture Healing

P.B.M.Thomas

XXXII Argentine Orthopaedic Congress and the First Argentine-Brazilian Orthopaedic Congress, Buenos Aires, Argentina, December 4-8th 1995.

High Tibial Hemicallosis for Medial Compartment Osteoarthritis of the Knee

P.B.M.Thomas

XXXII Argentine Orthopaedic Congress and the First Argentine-Brazilian Orthopaedic Congress, Buenos Aires, Argentina, December 4-8th 1995.

Callotaxis Correction of Angular and Torsional Limb Deformities

P.B.M.Thomas

XXXII Argentine Orthopaedic Congress and the First Argentine-Brazilian Orthopaedic Congress, Buenos Aires, Argentina, December 4-8th 1995.

External Fixation in the Treatment of Tibial Fractures

P.B.M.Thomas

Orthofix Instructional Course, Verona, Italy, December 11-12th 1995.

Correction of Post-Traumatic Longbone Deformities

P.B.M.Thomas

Orthofix Instructional Course, Verona, Italy, December 11-12th 1995.

The Effect of Movement on Fracture Healing

P.B.M.Thomas

Surgical Travelling Fellows Scientific Meeting, Stoke-on Trent, November 10th 1995.

Correction of the Varus Proximal Tibia Using the Garches Device and Gait Analysis

P.B.M.Thomas

British Orthopaedic Trainees Association Meeting, Verona, Italy, June 28th 1994.

How Fixation Affects Fracture Healing

P.B.M.Thomas

Orthopaedic Dilemmas and Answers, Marbella, Spain October 1994.

External Fixation for Closed Fractures of the Tibia

P.B.M.Thomas

Orthopaedic Dilemmas and Answers, Marbella, Spain October 1994.

The Development of Femoral Nailing

P.B.M.Thomas

Orthopaedic Dilemmas and Answers, Marbella, Spain October 1994.

Distal Targeting in Femoral Nailing

P.B.M.Thomas

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The Technique of Interlocking Femoral Nailing

P.B.M.Thomas

Orthopaedic Trauma Meeting, Rotterdam, Holland, March 22nd 1991.

Interlocking Femoral Nailing: A Review of 96 Consecutive Cases

P.B.M.Thomas

Meeting of the ABC Travelling Fellows, Sheffield, April 10th 1991.

Presentations to Learned Societies

Adductor Moment Ratio: Correlation Between Knee Width, Height and Body Mass

A.Gallimore, P.J.Ogrodnik and P.B.M.Thomas
14th Bath Biomechanics Symposium. Bath University 2018

Twenty-five Years in the Development of a Remote Fracture Monitoring System

P.J. Ogrodnik and P.B.M.Thomas
14th Bath Biomechanics Symposium. Bath University 2018

Pin Site Care Innovations: The Royal Stoke University Experience

P.J. Ogrodnik, P.B.M.Thomas, A. McBride, A. Gallimore and A. Collingwood
14th Bath Biomechanics Symposium. Bath University 2018

Retrospective Evaluation of the RUST and MRUST Scores in a Cohort of Patients with a Known Fracture Stiffness

A.Gallimore, P. Ogrodnik and P.B.M.Thomas,
14th Bath Biomechanics Symposium. Bath University 2018

Frame Stability and the Mechanical Assessment of Healing

P.B.M.Thomas
British Limb Reconstruction Society annual conference, 16th March 2016
Liverpool, UK

The Intelligent Fixator

P.B.M.Thomas
Orthopaedic and Trauma Alliance Annual Conference, 26th Sept 2015.
Blackpool, UK.

Dynamics of Fracture Healing

P.B.M.Thomas
Northwest Orthopaedic Association Spring Meeting
Manchester Royal Infirmary 23rd May 2014

A New External Fixation System for Tibial Shaft Fractures (poster)

P.B.M.Thomas, P.J.Ogrodnik, C.I.Moorcroft and M. Ockendon
Orthopaedic Trauma Association 27th Annual Meeting
San Antonio, Texas, 13th October 2011

A New External Fixator System for Tibial Fractures

P.B.M.Thomas, P.J.Ogrodnik, C.I.Moorcroft, Ennis O and Clewer G
EFORT, Vienna, 4th June 2009

Factors Affecting Healing Time in Fractures of the Tibial Diaphysis Treated by External Fixation

Ennis O, Balain B, Clewer G, Moorcroft CI, Ogrodnik PJ, Thomas PBM
EFORT, Vienna, 4th June 2009

Prospective Study of Closed Tibial Shaft Fractures Treated by Monolateral External Fixation

A.Mahmood, O.Ennis, C.I.Moorcroft, R.Maheshwari, P.B.M.Thomas
Naughton-Dunn Club, Birmingham, 11th November 2006

The Mechanical Properties of Callus in Human Tibial Fractures

P.J.Ogrodnik, C.I.Moorcroft, R.H.Wade and P.B.M.Thomas
International Society for Fracture Repair, 8th Meeting 9-11th October 2002, Toronto, Canada.

Correlation of Radiographic Assessment of Fracture Healing with Fracture Stiffness Measurements

D.McClelland, C.I.Moorcroft, G.A.Bancroft and P.B.M.Thomas
International Society for Fracture Repair, 8th Meeting 9-11th October 2002, Toronto, Canada.

Smoking Delays Fracture Healing: A Study using fracture Stiffness as an End-point

P.B.M.Thomas, R.H.Wade, C.I.Moorcroft and P.J.Ogrodnik
International Society for Fracture Repair, 8th Meeting 9-11th October 2002, Toronto, Canada.

Improving Reduction of Tibial Fractures Treated by External Fixation

P.B.M.Thomas, C.I.Moorcroft, P.J.Ogrodnik and R.H.Wade (poster)
International Society for Fracture Repair, 8th Meeting 9-11th October 2002, Toronto, Canada.

Measurement of Omnidirectional Fracture Stiffness in Tibial Fractures

C.I.Moorcroft, P.B.M.Thomas, P.J.Ogrodnik and R.H.Wade (poster)
International Society for Fracture Repair, 8th Meeting 9-11th October 2002, Toronto, Canada.

A Prospective Study of External Fixator Pin Site Infection and Maximum Extraction Torque

R.H.Wade, C.I.Moorcroft, P.J.Ogrodnik and P.B.M.Thomas (poster)
International Society for Fracture Repair, 8th Meeting 9-11th October 2002, Toronto, Canada.

Improving Reduction of Tibial Fractures Treated by External Fixation

P.B.M.Thomas, C.I.Moorcroft, P.J.Ogrodnik and R.H.Wade
British Orthopaedic Research Society, Southampton University 24-25th September 2001.

The Measurement of Polar Stiffness

R.H.Wade, C.I.Moorcroft, P.B.M.Thomas and P.J.Ogrodnik
British Orthopaedic Research Society, Southampton University 24-25th September 2001.

Smoking Delays Fracture Healing: a Study of Tibial Fractures using Fracture Stiffness as an Endpoint

R.H.Wade, C.I.Moorcroft, P.B.M.Thomas, P.J.Ogrodnik and S.A.Verborg
Annual Meeting of the British Orthopaedic Association, Birmingham, 12-13th September 2001.

Angular Dynamisation Induces More Uniform Callus Stiffness Than Axial Dynamisation in Tibial Shaft Fractures Treated by External Fixation

P.B.M.Thomas, C.I.Moorcroft, P.J.Ogrodnik and S.A.Verborg
British Orthopaedic Research Society and the Section of Bioengineering at the Royal Academy of Medicine in Ireland, Dublin 5th October 1998.

Mechanical Properties of Healing Callus

C.I.Moorcroft, P.B.M.Thomas, P.J.Ogrodnik and S.A.Verborg
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Reduction of Tibial Fractures Prior to External Fixation

C.I.Moorcroft, S.A.Verborg, P.B.M.Thomas and P.J.Ogrodnik
International Society for Fracture Repair, Strasbourg, France. 23-26th September 1998.

Controlled Angular Motion Fracture Fixation

P.B.M.Thomas, C.I.Moorcroft, P.J.Ogrodnik and S.A.Verborg
International Society for Fracture Repair, Strasbourg, France. 23-26th September 1998.

Tibial Fracture Healing in Smokers

S.A.Verborg, P.W.Jones, P.A.Gregson, S.C.Tandon and P.B.M.Thomas
International Society for Fracture Repair, Strasbourg, France. 23-26th September 1998.

Vertical Transtalar Steinmann Pin Fixation in Severe Ankle Fractures

R.L.Morgan-Jones, K.Smith and P.B.M.Thomas
Welsh Orthopaedic Society, Abergavenny: 17 April 1998.

The Staffordshire Orthopaedic Reduction Machine: Concept and Design

C.I.Moorcroft, P.J.Ogrodnik, P.B.M.Thomas and S.A.Verborg
American Fracture Association 59th Meeting, San Diego, USA, April 1997.

The Staffordshire Orthopaedic Reduction Machine: First Clinical Experience

S.A.Verborg, C.I.Moorcroft, P.J.Ogrodnik and P.B.M.Thomas
American Fracture Association 59th Meeting, San Diego, USA, April 1997.

An Autonomous Monitoring System for Externally Fixed Fractures

C.I.Moorcroft, S.A.Verborg, P.J.Ogrodnik and P.B.M.Thomas
British Orthopaedic Research Society, Sheffield: 3-4 March 1997.

Dynamisation and Healing in Externally Fixed Tibial Shaft Fractures

S.A.Verborg, C.I.Moorcroft, P.J.Ogrodnik and P.B.M.Thomas
British Orthopaedic Research Society, Sheffield: 3-4 March 1997.

Controlled Angular Motion Fracture Fixation

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Fracture Movement in Axially Dynamised Fixation

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**Continuous Monitoring of the Occurrence of Bone Fracture Fragment
Movement**

C.I.Moorcroft, P.J.Ogrodnik, P.B.M.Thomas and S.A.Verborg
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Dynamisation and Healing Times in Externally Fixated Tibial Shaft Fractures

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Bicortical Pin Insertion Leads to Distractive Forces across the Bone

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A Regime to Reduce Pin Tract Problems in External Fixation of the Tibia

S.C.Tandon and P.B.M.Thomas
Societe Internationale de Recherche Orthopaedique de la Traumatologie, 7th World
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Prolongation of Fracture Healing Times in Smokers

S.A.Verborg, P.W.Jones, P.A.Gregson, S.C.Tandon and P.B.M.Thomas
The American Fracture Association 58th Annual Meeting, Philadelphia, Pennsylvania
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Mechanical Failure of Unreamed Tibial Nails

S.N.J.Roberts and P.B.M.Thomas
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**The Management of Persistent Osteomyelitis of the Femur with Exchange
Intramedullary Nailing and Gentamycin Beads**

S.C.Tandon and P.B.M.Thomas
British Trauma Society Annual Clinical Meeting, St. James University Hospital,
Leeds, October 6-7th 1995.

Smoking and the Healing of Tibial Fractures

S.A.Verborg and P.B.M.Thomas

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External Fixation of Tibial Fractures and Post-Traumatic Osteoporosis

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Second Congress of the European Federation of National Associations of Orthopaedics and Traumatology, Munich, July 4-7th 1995.

External Fixation of the Tibia. A Two Fixator Reduction Technique

S.C.Tandon, P.B.M.Thomas and P.A.Gregson

Naughton Dunn Club, New Cross Hospital, Wolverhampton, April 29th 1995.

Sound and Orthopaedics

S.A.Verborg, P.B.M.Thomas and P.J.Ogrodnik

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J.R.W.Hardy, P.A.Gregson, J.B.Richardson, P.B.M.Thomas, S.C.Tandon, P.W.Jones and P.J.Gregg

Combined Meeting of the British and European Orthopaedic Research Societies at the Royal Surgeons, London, April 11th 1994.

A Preliminary Report of a Novel Use of Gait Analysis in Proximal Tibial Callotasis for Medial Compartment Osteoarthritis of the Knee

P.B.M.Thomas, J.R. Wootton and J.H.Patrick

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A Randomised Trial of Cemented versus Uncemented Thompson Hemiarthroplasty in the Treatment of Subcapital Fracture of the Femur

D.D.Robinson and P.B.M.Thomas

Joint Meeting of the Irish and Welsh Orthopaedic Associations, Portmeirion, May 1991.

Application of Excimer Lasers to Peripheral Nerve Repair

P.B.M.Thomas, K.M.Ness, T.Raven, J.Marshall and S.Rothery

Symposium on the Medical Application of Lasers, Los Angeles, California, USA, January 10-17th 1988.

Metatarsal Osteotomies for Primary Metatarsalgia: A Radiographic and Pedobarographic Study

S.M.Dreeben, P.B.M.Thomas, P.C.Noble, J.O.Bishop, W.G.Bracy and H.S.Tullos

American Orthopaedic Foot and Ankle Society, Santa Fe, July 17th 1987.

Preparation of Nerve Ends Prior to Repair

P.B.M.Thomas, J.B.Kirkpatrick, P.C.Noble and F.D.Burke

British Society for Surgery of the Hand, Spring Meeting, University of Bath, 23-24th April 1987.

Radiographic Visualisation of the Metatarsal Heads: Position and Pressure Correlations

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Laser Augmentation of Epineural Repairs: An Electrophysiological, Functional and Histological Study

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Peer Reviewed Publications

A Practical, Quantitative, Fracture Healing Endpoint Assessment Criterion for Tibial Fractures Treated with External Fixation

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Rymer B, Thomas PBM.

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