

# CURRICULUM VITAE

MR JOHN RW HARDY BSc, MB BS, MD,  
FRCS(Eng), FRCS(Ed), FRCS(Orth)

April 06

# JOHN RW HARDY

## PERSONAL INFORMATION

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Address: SOC Bristol, BUPA Hospital Bristol, Bristol, BS6 6UT, UK

Telephone: 0117 3171793

Email: Eithne.Clarkson@SOC-Bristol.co.uk

Marital status: Married (Annette), 4 Children

Nationality: British/Canadian

Date of Birth (Age): 21.10.1958 (45 years)

Place of Birth: Toronto, Canada

## QUALIFICATIONS

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1981 BSc Neuroanatomy 2:1  
Kings College, Strand  
University of London

1984 MB BS  
Westminster Medical School  
Horseferry Road, London

1986 Primary Fellowship  
Edinburgh and London

1989 FRCS Ed and FRCS Eng  
Edinburgh and London

1996 FRCS (Orth)  
London

1997 MD "Fracture Healing"  
University of Leicester

## UNDERGRADUATE EXPERIENCE

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1982 1983  
Neuroanatomy Demonstrator to second year pre-clinical medical and dental students.  
Kings College, Strand, University of London

1984  
Elective at the University of Capetown Medical School, Capetown, South Africa.  
Cape Town, RSA

## PRESENT APPOINTMENT

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01.10.04- Present

Consultant in Trauma and Orthopaedic Surgery, Sport and Orthopaedic Clinic – London, Cromwell Hospital and at the Sport and Orthopaedic Clinic – Bristol Ltd, BUPA Hospital Bristol, 3 Redland Hill, Bristol, BS6 6UT.

## PREVIOUS APPOINTMENTS

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1.8.84- 31.1.85

House Physician General Medicine & Neurology  
Royal Surrey County  
Hospital, Guildford,  
Surrey.

1.2.85- 31.7.85

House Surgeon Orthopaedics and General Surgery  
Westminster Hospital,  
Horseferry Road, London.

16.9.85- 12.7.86

Full time Anatomy Demonstrator  
Charing Cross and Westminster Medical School,  
Fulham, London.

1.8.86- 31.1.87

Accident & Emergency/Orthopaedics  
SHO Casualty Officer for 4 months. SHO Orthopaedics for 2 months.  
2 week secondment to Mount Vernon Hospital Burns Unit.  
Luton & Dunstable Hospital,  
Dunstable,  
Bedfordshire.

1.2.87- 31.7.87

SHO General and Vascular Surgery  
Leicester Royal Infirmary,  
Infirmary Close,  
Leicester, LE1 5WW.

1.8.87- 31.1.88

SHO General and Paediatric Surgery  
Leicester Royal Infirmary,  
Infirmary Close,  
Leicester, LE1 5WW.

1.2.88- 31.7.88

SHO in Orthopaedic Surgery to Professor P J Gregg.  
Glenfield General Hospital  
Groby Road, Leicester,  
LE9 3QP.

1.8.88- 31.12.88  
SHO in General Surgery to Mr A Hall.  
Glenfield General Hospital  
Groby Road, Leicester,  
LE9 3QP.

1.1.89- 31.1.90  
Registrar in General and Vascular Surgery to Mr D B Hamer and Mr K Cronin.  
Northampton General Hospital  
Billing Road  
Northampton  
NN1 5BD

1.2.90- 30.11.90  
One year post fellowship SHO rotation in Acute and Elective Orthopaedic Surgery.  
Leicester Royal Infirmary  
Leicester General Hospital  
Leicester.

1.12.90- 30.6.91  
Rotating Career Registrar in paediatric orthopaedic surgery, lower limb arthroplasty and trauma surgery to Mr I D Hyde Consultant Orthopaedic Surgeon with an interest in Paediatric Orthopaedics.  
Lincoln County Hospital  
Lincoln LN2 5QY

1.7.91-1.4.92  
Rotating Career Registrar in hand surgery, foot surgery, lower limb arthroplasty and trauma surgery to Mr R L Raymakers, Mr J Hoskinson, Prof. P J Gregg, Mr O A Oni, Mr J B Richardson, Mr J Dias and Mr R Chan.  
Leicester Royal Infirmary  
Glenfield General Hospital  
Leicester General Hospital

1.4.92-17.8.93  
Clinical Teacher in The Faculty of Medicine.  
Clinical Research Registrar funded for 18 months by the University and BOA Wishbone Appeal.  
University of Leicester  
Department of Orthopaedic Surgery,  
Glenfield General Hospital,  
Groby Road,  
Leicester, LE3 9QP

18.8.93-28.2.94

Lecturer, Hon Registrar to Mr O O A Oni. in lower limb arthroplasty, knee surgery and trauma surgery.

Glenfield General Hospital  
Groby Road, Leicester,  
LE9 3QP.

1.3.94-31.8.94

Lecturer, HST to Mr P Triffitt and Mr W M Harper in shoulder surgery, lower limb arthroplasty, tumour surgery and trauma surgery.

Glenfield General Hospital  
Groby Road, Leicester,  
LE9 3QP.

1.9.94-28.2.95

Lecturer, HST to Mr O O A Oni in lower limb arthroplasty, knee surgery and trauma surgery.

Glenfield General Hospital  
Groby Road, Leicester

1.3.95-31.8.95

Lecturer, HST to Mr P Sell, Mr R N W Chan and Mr Q Cox in spinal surgery, hand surgery, lower limb arthroplasty and trauma surgery.

Leicester General Hospital  
Gwendoline Road  
Leicester

1.9.95-29.2.96

Lecturer, HST to Mr O O A Oni in knee surgery, lower limb arthroplasty and trauma surgery.

Glenfield General Hospital  
Groby Road, Leicester,  
LE9 3QP.

1.3.96-31.8.96

Lecturer, Specialist Registrar to Prof. P J Gregg in tumour surgery, lower limb arthroplasty and trauma surgery.

Glenfield General Hospital  
Groby Road, Leicester,  
LE9 3QP.

1.9.96-28.2.97

Lecturer, Specialist Registrar to Mr I H Thomas and Mr C Kershaw in paediatric orthopaedic Surgery and trauma surgery.

Leicester Royal Infirmary,  
Infirmary Close,  
Leicester, LE1 5WW.

1.3.97- 30.3.97

SpR / Lecturer in The Faculty of Medicine  
University of Leicester

Leicester/Lincoln Rotation.

1.4.97 – 30.9.04

Consultant Senior Lecturer in Trauma and Orthopaedic Surgery with a speciality interest in Knee and Hand Surgery.

North Bristol NHS Trust & University of Bristol, Department of Orthopaedic Surgery, Avon Orthopaedic Centre, Southmead Hospital, Westbury-on-Trym, Bristol, BS10 5NB.

01.10.04 – 30-04-05

Locum Consultant in Orthopaedic Surgery with a speciality interest in Knee and Hand Surgery. North Bristol NHS Trust, Department of Orthopaedic Surgery, Avon Orthopaedic Centre, Southmead Hospital, Westbury-on-Trym, Bristol, BS10 5NB.

## CLINICAL INTERESTS AND EXPERIENCE

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### CLINICAL PRACTICE

I am a Full Time Private Consultant Surgeon with a special interest in Trauma and Orthopaedic Surgery at the Sport and Orthopaedic Clinic, BUPA Hospital Bristol with a sub specialty interest in complex knee surgery and lower limb reconstruction, hand surgery and infection control. I have extensive experience in all aspects of core Trauma and Orthopaedic Surgery with up to date experience in the management of Musculoskeletal Trauma.

I currently receive more than 500 referrals from General Practice each year. The number of tertiary referrals for revision of loose or infected total knee arthroplasty is rising annually. Over the last seven years I have continued to attend conferences involving complex knee disorders and their reconstruction in order to keep abreast with the latest advances and techniques. I have recently introduced a new technique for 2 stage revision of infected knee replacements that appears to improve the range of movement following revision for infected knee replacement.

I now have 20 years of experience in the management of Orthopaedic Trauma. In the last 8 years as a consultant I have maintained my interest in operative trauma fixation, external fixation, and the techniques of locked intramedullary nailing. With this experience I have continued to have enthusiasm, not only for the clinical management of fractures, but also for the management and organisation of trauma services. I have published widely on the science of trauma and some aspects of trauma management in particular on the management of tibial fracture and infection control.

### MEDICO-LEGAL EXPERIENCE

The preparation of expert medical reports for patients involved in personal injury claims has been part of my work and training since 1994. This work has given me insight into the management of complaints and complications. My Medico-Legal Reports are prepared according to the guidelines introduced by the Law Society and the British Orthopaedic Association and conform to Lord Woolf's reforms. I act equally without bias for plaintiffs and defendants and prepare reports for my own trust without charge. I have attended court on a number of occasions as an expert witness.

## RESEARCH INTERESTS

My research interests are diverse and range from the field of trauma management and fracture repair to infection control.

## TEACHING EXPERIENCE

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Throughout my career, I have been actively involved and have participated in undergraduate and postgraduate teaching in Orthopaedics and in other surgical specialities.

This has comprised "bedside" teaching of clinical skills, running tutor groups as well as giving more formal lectures and practical workshops. For seven years on the Bristol undergraduate musculo-skeletal course, I have tutored small groups of students and educated, assessed and evaluated my educational methods. I managed the third year medical student curriculum of clinical training at Southmead Hospital over a seven year period and was a unit co-ordinator and tutor for the MDEMO course. I have been invited to lecture to both second and fifth year students. I enjoy teaching postgraduates and nursing and support staff. I was the lead member of the faculty involved in the musculo-skeletal part of the Basic Surgical Skills at the Bristol Royal Infirmary and recently was co-opted onto the BSS faculty at the Royal College of Surgeons, England.

## ANNUAL APPOINTMENTS

Unit Co-ordinator and Tutor Undergraduate Medicine 3rd Year MDEM module at North Bristol NHS Trust Academy 1997-2004.

Educational Supervisor Pre-registration House Officer and SHO at NBNHST 1997-2004.

Mentor Bristol SpR Rotation in Orthopaedics and Trauma. 1997-2004

Undergraduate Medicine 3rd Year Triennial Lecture and OSCE on "The Knee". 1997-2003.

Annual Lecture to the ODP Course UWE: Fracture Classification and Management. 1999-2003.

Faculty: External Fixation in Trauma and Orthopaedics Course at the Royal College of Surgeons of Edinburgh. 1998-2004.

Faculty: Bristol MRCS Basic Surgical Skills Course. 1999-2005.

Faculty: Bristol FRCS(Orth) Course. Lecturer on: "Basic Biomechanics". 1997-2005.

## OCCASIONAL APPOINTMENTS

Postgraduate Training Programme Bristol: External Fixation and Intramedullary nailing lecture.

Postgraduate Training Programme Bristol: Preparation of PowerPoint Presentations.

Postgraduate Training Programme Bristol: Survival Analysis.

Teaching of Nursing, Physiotherapy and Occupational Therapy Staff.

Orthofix External Fixation Course, Verona Italy.

Faculty: RCSEng MRCS Basic Surgical Skills Course. 16<sup>th</sup> November 2005.

## PAST APPOINTMENTS

Expert Advisor BSI Protective Clothing in Sport and Recreation Committee.  
Orthometer Trainer for "Study of rhBMP-2 in Open Tibial Shaft Fracture" 13/9/96 The Glenfield General Hospital, Leicester and Winford Unit, Bristol.  
Faculty: International Society Fracture Repair Workshop: Worcester College Oxford, UK. 8-10 April 1999.  
Faculty: Postgraduate Training Programme Southampton: Fracture Healing.  
Faculty: Postgraduate Training Programme Southampton: Fracture Healing.

## CLINICAL GOVERNANCE

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### MANAGEMENT

I am a medical graduate of the University of London (1984). I have been awarded Fellowships of the Royal Colleges of Surgeons of England and Edinburgh (1989). I was a Consultant Senior Lecturer in the Department of Orthopaedic Surgery, University of Bristol for seven years before leaving to be a founding Director and Company Secretary of SOC Bristol Ltd.. My practice is in Trauma and Orthopaedic Surgery. My BSc was awarded in 1981 for work in the area of neuroanatomy. My MD thesis was awarded for work characterising two new methods for the measurement of fracture healing. I have published widely in the area of fracture healing, trauma management and knee surgery. I have had experience in medico-legal assessment and reporting since 1994.

### CONTINUING PROFESSIONAL DEVELOPMENT

AO Basic Course On Internal Fixation, July, 1991.  
RCS External Fixation Course July, 1992.  
Leicester Basic Sciences Course.  
POPUMET Course Sheffield, 19th March, 1991.  
Faculty: 4th BOTTA External Fixation Course, Verona 26th-29th June, 1994.  
Leicester General Hospital, Management Seminars.  
Second International Symposium Minimal Invasive Traumatology, Salzburg 2-3 February, 1995.  
Basic Life Support Glenfield General Hospital 13th February, 1995.  
A.T.L.S. Oxford 7-9 June, 1995.  
Leicester Post Graduate Orthopaedic Training Programme.  
Johnson & Johnson Joint Replacement Symposium, 20th May, 1996, Bagshot, UK.  
Depuy Primary Impaction Grafting/Elite Plus. East Surrey Hospital, Redhill, 24 September, 1996.  
Depuy Total Knee Arthroplasty for Specialist Registrars, St James's Hospital, Leeds 22 November, 1996.  
Corin PCL Reconstruction course, Harpenden BUPA, 7 February 1997.  
BOTTA External Fixation Course, Verona, 4th-7th May, 1997.  
University of Edinburgh Total Knee / Revision Knee Arthroplasty Summer School 3-7 July 1997.

BSI Standards and the Law 9-12-97. BSI Chiswick, London.

University of Bristol Teaching and Learning Programme: Teaching and Learning 1. 15th and 16th Sept. 1997.

BOA 27<sup>th</sup> Instructional Course. January 10/11, 1998.

University of Bristol Teaching and Learning Programme: Teaching and Learning 2. 17th and 18th Feb, 1998.

University of Bristol Teaching and Learning Programme: Assessment. 25th and 26th March. 1998.

Revision Arthroplasty and infection in Total Knee Replacement Surgery. Wellington Knee Unit, London. 12-13 October, 1998.

Faculty: International Society Fracture Repair Workshop: Worcester College Oxford, UK. 8-10 April, 1999.

Faculty: External Fixation in Trauma and Orthopaedics Course at the Royal College of Surgeons of England. 5-7th May, 1999.

Current Concepts in Cruciate Reconstruction. Southmead Hospital Postgraduate Centre, Bristol. 30th September, 1999.

Educational Appraisal Skills Course/Peer Review Skills for Senior Clinicians Southmead Hospital Postgraduate Centre, Bristol. 17-18 February 2000.

Faculty: External Fixation in Trauma and Orthopaedics Course at the Royal College of Surgeons of England. 29th May -1st June 2000.

University of Bristol Teaching and Learning Programme: Assessment and Evaluation. 26th and 27th June, 2000.

AAOS, San Francisco. Instructional Courses on: The Surgical Treatment of Articular Cartilage Defects of the Knee. Prevention and Management of Instability with Primary and Revision Hip and Knee Arthroplasty. Revision Total Knee Arthroplasty: Planning, Management and Controversies. 28th February - 3rd March 2001.

Faculty: External Fixation in Trauma and Orthopaedics Course at the Royal College of Surgeons of England. 29th May -1st June 2001.

Primary Total Hip Replacement Issues & Concepts. Marbella, Spain. 17-19 April 2002.

Faculty: External Fixation in Trauma and Orthopaedics Course at the Royal College of Surgeons of England. 14th May -16 May 2002.

Faculty: 10th BOTA External Fixation Course, Verona 19th May-22nd May, 2002.

Faculty: 25 years of the LCS Mobile Bearing Knee. Depuy Conference on primary and revision knee arthroplasty. Amsterdam. 16th- 19th October 2002.

Faculty: South West External Fixation Course at Torquay. 23rd - 24th October 2002.

Faculty: 10th BOTA External Fixation Course, Verona 18th May-21nd May, 2003.

Faculty: External Fixation in Trauma and Orthopaedics Course at the Royal College of Surgeons of Edinburgh. 16th June -18th May 2003.

Faculty: Depuy Learning Centre on primary and revision knee arthroplasty. Paris. 25th- 26th September 2003.

Delegate: Minimal Intervention Knee Surgery. London Hilton. 19<sup>th</sup>-20<sup>th</sup> February 2004.

Visiting Surgeon Royal United Hospital, Bath. 28<sup>th</sup> June 2004. Teaching and Learning Mr L Pozo.

Faculty: External Fixation in Trauma and Orthopaedics Course at the Royal College of Surgeons of Edinburgh. 30<sup>th</sup> June -2<sup>nd</sup> July 2004.

Delegate: Computer Aided Surgery Course for Surgeons. October 13-15<sup>th</sup> 2004. European surgical Institute, Hamburg-Norderstedt, Germany.

Delegate: BOA Annual Congress, Birmingham. 20-23 September 2005.

## RISK REDUCTION

I was the lead clinician on the Clinical Risk Management Committee for the Division of Musculoskeletal Medicine in North Bristol and was Instrumental in developing the early warning and risk identification system for Clinical Incidents.

## EVIDENCE-BASED MEDICINE

Part of effective Clinical Governance includes keeping up with the evidence base in Trauma and Elective Orthopaedic Surgery.

## AUDIT

Independent Audit of my work at the North Bristol NHS Trust demonstrated that I have one of the lowest local readmission rates following Total Knee Arthroplasty and a wound infection rate of 3%. Audit continues to be undertaken in Private Practice in London and at SOC Bristol Ltd in order to review the quality and standards of our clinical care.

## DEVELOPMENT OF INFORMATION STRATEGIES

I was involved as a system evaluator in the EPR Pan Avon Project for the introduction of electronic patient record. I developed the first University Department of Orthopaedic Surgery Web Site and maintain a number of other websites that provide information to patients and colleagues.

## PEER REVIEWED PUBLICATIONS AND PATENTS

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Hardy JRW. Complex clavicular injury in childhood. *J Bone Joint Surg.* 1992;**74-B**:154.

Hardy JRW, Conlan D, Hay S, Gregg PJ. Serum ionised calcium and its relationship to parathyroid hormone after tibial fracture. *J. Bone Joint Surg.* 1993;**75-B**:645-649.

Hardy JRW, Gardner TN, Richardson JB, Evans M, Ten Voorde W. Fracture site movement before and after dynamisation of the Orthofix DAF. *Biomech. Sem.* 1993;**7**:138-151. ISSN 1100-2247.

Hardy JRW, de Jonge EJ, Richardson JB. Fracture stiffness. *J. Orthop. Techniques.* 1994;**2**:177-189.

Richardson JB, Gardner TN, Hardy JRW, Evans M, Kuyper JH, Kenwright J. Dynamisation of tibial fractures. *J. Bone Joint Surg.* 1995;**77-B**:412-416.

Hardy JRW. Waste product collection unit. United States Patent 5,558,654 Sept. 24, 1996.

Cattermole HR, Hardy JRW, Gregg PJ. The footballer's fracture. *Br. J. Sports Med.* 1996;**30**:171-175.

Hardy JRW, Richardson JB, Gregg PJ. Creating an early stable environment for healing by callus: The Leicester algorithm. *International Journal of Orthopaedic Trauma.* 1996;**6(2)**:52-61.

Gardner TN, Hardy JRW, Evans M, Richardson JB, Kenwright J. The static and dynamic behaviour of tibial fractures due to unlocking external fixators. *Clin. Biomech.* 1996;**11(8)**:425-430.

Gardner TN, Evans M, Hardy JRW, Kenwright J. Dynamic interfragmentary motion in fractures during routine patient activity. *Clin. Orthop.* 1997;**336**:216-225.

Gardner TN, Hardy JRW, Evans M, Kenwright J. Temporal changes in dynamic interfragmentary motion and callus formation in fractures. *J. Biomech.* 1996;**30(4)**:315-321.

Hardy JRW. Soccer injuries: Tactics for tackling football. *International Sports Medicine and Soft Tissue Trauma.* 1997;**2**:12-15.

Gardner TN, Evans M, Hardy JRW, Kenwright J. Is the stability of a tibial fracture influenced by the type of unilateral external fixator? *Clinical Biomechanics.* 1998;**13**:603-607.

G Pattison, J Reynolds and J Hardy. Salvaging a stripped drive connection when removing screws. *Injury.* 1999;**30**:74-75.

Bould M, Barnard S, Learmonth ID, Cunningham J, Hardy JRW. Digital image analysis: improving accuracy and reproducibility of radiographic measurement. *Clin. Biomech.* 1999;**14(6)**:434-437.

Hardy JRW, McCaskie AW, Calder SJ, Pattison GTR. Inflatable trays for the prevention of contamination in surgery. *Injury.* 1999;**30(4)**:309-312.

A new method of assessing the penetration of bacteria through fabrics used in the operating theatre. AW Blom, CM Estela, KE Bowker, AP MacGowan and JRW Hardy. *J. Hosp. Infection.* 1999;**43**:69-70.

The assessment of fracture stiffness using the Orthometer: reproducibility and sources of error. Eastaugh-Waring SJ, Hardy JRW, Cunningham JL. *Clin. Biomech.* 2000;**15**:140-142.

AW Blom, CM Estela, KE Bowker, AP MacGowan and JRW Hardy. The penetration of bacteria through fabrics used in the operating theatre. *Ann. R. Coll. Surg. Eng.* 2000;**82(6)**:405-407.

JRW Hardy, Victoria de Georgio Miller and JM Webb. Healthcare workers' views on the management of routine cases. *Ann. R. Coll. Surg. Eng.* 2001;**83**: 62-63.

Karnezis IA, Fragkiadakis EG, Webb JM, Hardy JR. Quantified kinematics of the injury to the posterior cruciate ligament: a computer-aided design simulation study. *Clin. Biomech.* 2001;**16(1)**:54-60.

Hassaballa M, Vale T, Weeg N, Hardy JR. Kneeling requirements and arthroplasty surgery. *Knee* 2002;**9(4)**:317-319.

Heal JS, Blom AW, Titcombe D, Bowker K and Hardy JRW. Bacterial Contamination of surgical gloves by water droplets spilt after scrubbing. *J. Hosp. Infection.* 2003; **Feb**;**53(2)**:136-9.

Shokrollahi K, Eccles MJ, Hardy JRW and Webb J. Rapid corrosion of scalpel blades after exposure to local anaesthetics: clinical relevance of this interaction. *The Journal of Surgery.* 2004;**(1)2**:23-26.

Bebbington A, Hardy J. Shaving with the aid of static electricity. *Ann R Coll Surg Engl.* 2004; 86:226.

Hardy JRW, Chimutengwende-Gordon M, Bakar I. Quadriceps tendon rupture: An association with a patella spur. *J. Bone Joint Surg.* 2005;**87-B**:1361-3.

Ho K, Chimutengwende-Gordon M, Hardy JRW. Technical Notes-A simple model to demonstrate the method of reduction and immobilisation of a forearm fracture in an adult or child. *Ann R Coll Surg Engl.* 2006; **88**:224-5.

## BOOKS

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Hardy JRW and Webb JK. The leg. Chapter 23:783-821. In *Fractures and Dislocations.* Eds. Gregg Stevens & Worlock. Blackwell Science. 1995.

Hardy JRW and Gregg PJ. *New Airs Companion in Surgical Studies*, 2nd Edition. Eds. Professor K Burnand and Mr A Young. Chapter 54: "Fractures of the lower limb". Churchill Livingstone 1998.

Hardy JRW. MD Thesis: Tibial Diaphyseal Fracture Healing. 1996. University of Leicester. (Awarded February 1997).

Hardy JRW and Richardson JB. Chapter 5 and Chapter 23 In *The Orthofix Manual of External Fixation.* ISBN 1-85233-274-3 Springer-Verlag London Berlin Heidelberg. 2000.

Hardy JRW. *New Airs Companion in Surgical Studies*, 3rd Edition. Eds. JD Lucas. Chapter 53: "Fractures of the lower limb". Churchill Livingstone 2004.

## ABSTRACTS

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Evans M, Gardner TN, Hardy JRW, Richardson JB, Ten Voorde W. The effect of dynamisation on fracture site movement with the Orthofix DAF fixator. *J. Bone and Joint Surg.* 1994;**76-B(Supp II & III)**:88.

Hardy JRW, Richardson JB, Gregg PJ. The footballer's fracture.

- J. Bone and Joint Surg. 1994;**76-B(Supp II & III)**:141-142.
- Richardson JB, Hardy JRW, Gardner TN, Kuiper JH, Evans M, Kenwright J. Dynamisation of tibial fractures: effects on fracture site movement.  
J. Bone and Joint Surg. 1994;**76-B(Supp II & III)**:147.
- Hardy JRW, Gregson P, Richardson JB, Thomas P, Tandon S, Jones PW. Callus growth: Effects of antiprostaglandins on the rate of healing and production of callus in undisplaced tibial fracture.  
J. Bone and Joint Surg. 1995;**77-B(Supp III)**:294.
- Gardner TN, Evans M, Hardy JRW, Richardson JB. Active fracture movement in patients stabilised by unilateral external fixators.  
J. Bone and Joint Surg. 1995;**77-B(Supp III)**:279-280.
- Rawes ML, Richardson JB, Hardy JRW, Dias JJ. Dynamic versus static external fixation of distal radial fractures: a prospective randomised controlled trial.  
Injury. 1995;**26(2)**:140.
- Owen PJ, Hardy JRW, Dwyer JSM, Kuiper JH and Richardson JB. Stiffness measurements to assess healing in bone transport using the "Orthofix" limb reconstruction system.  
J. Bone and Joint Surg. 1997;**79-B(Supp I)**:100-101.
- Accuracy, reproducibility, and sources of error in stiffness measurements using the Orthometer. Eastaugh-Waring SJ, Hardy JRW, Cunningham JL. J. Bone and Joint Surg. 1998;**80-B(Supp III)**:259.
- Bould M, Barnard S, Hardy JRW. Digital image analysis: improving accuracy and reproducibility of radiographic measurement.  
J. Bone and Joint Surg. 1999;**81-B(Supp II)**:181-2.
- Joslin CC, Eastaugh-Waring E, Hardy JRW and Cunningham JL. Weightbearing after Tibial Fracture as a Guide to Healing.  
J. Bone and Joint Surg. 2003;**85-B(Supp I)**:5.
- AW Blom, CM Estela, KE Bowker, AP MacGowan and JRW Hardy. The passage of bacteria through surgical drapes.  
J. Bone and Joint Surg. 2003;**85-B(Supp II)**:100.

## CORRESPONDENCE

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- Cement wedges and radiolucent lines. Hardy JRW. J Bone Joint Surg 1992;**74-B**:320.
- New technique for assessing muscle damage after trauma. Hardy JRW. J.R.C.S.Ed. 1992;**37**:349-350.
- Knee pain after tibial nailing. Hardy JRW, Gregg PJ, Wood C. J Bone Joint Surg 1996;**78-B**:510.

Isolation of bone from muscles prevents the development of experimental callus-like heterotopic bone. Hardy JRW, Rooney P. Clin. Orthop. 1997;**336**:340-342.

Hips, Knees and Bumps-a-daisy. JRW Hardy. The Coach. 2002;**9**:37-40.

Infection: Prevention and management. Susan M Rapp. Orthopaedics Today. 2004;7(2):9.

## PRESENTATIONS TO LEARNED SOCIETIES

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Calcium, ionised calcium, parathyroid hormone: Their role in fracture healing. Hardy JRW, Conlan D, Hay S, Gregg PJ, Falconer-Smith J. Poster Presentation to B.O.R.S October 1992. J. Bone and Joint Surg. 1993;**75-B(Supp 1)**:57.

Fracture site movement before and after dynamisation of the Orthofix DAF. Paper Presented to Leicester Nottingham Registrars Meeting 11 November 1992.

Tibial fracture management for theatre staff. Lecture and three demonstrations at the Richards Theatre Nurses Course. Leicester University Department of Orthopaedic Surgery, Glenfield General Hospital. February 1993.

Fracture site movement before and after dynamisation of the Orthofix DAF. Hardy JRW, Gardner TN, Richardson JB, Evans M, Ten Voorde W. Paper Presented to European Orthopaedic Research Society, Paris, April 19-20 1993.

Fracture site movement before and after dynamisation of the Orthofix DAF. Hardy JRW, Gardner TN, Richardson JB, Evans M, Ten Voorde W. Paper Presented to Biomechanics Symposium University of Gotenburg, Sweden. April 22 1993.

The effect of dynamisation on fracture site movement with the Orthofix DAF fixator. Evans M, Gardner TN, Hardy JRW, Richardson JB, Ten Voorde W. Paper Presented to British Orthopaedic Research Society, Oxford, September 30th, 1993.

Factors affecting fracture site micromovement. Ten Voorde W, Richardson JB, Schaake L, Hardy JRW, Hendriks J. Poster at European Orthopaedic Research Society, Paris, April 19-20 1993.

The Leicester tibial fracture study: Incidence of tibial fracture in amateur football players. Hardy JRW. Paper Presented to Medical Conference of the Football Association, Lilleshall. 3rd October 1993.

Effects of antiprostaglandins on the rate of healing and production of callus in undisplaced tibial fracture. Hardy JRW, Gregson P, Richardson JB, Thomas P, Jones PW. Poster at EuroSurgery '93 Conference, 3rd European Congress of Surgery, September 14-17, 1993. *[this paper won 3rd place in the Surgeons in Training competition]*

Callus growth: effects of antiprostaglandins on the rate of healing and production of callus in undisplaced tibial fracture. Hardy JRW, Gregson P, Richardson JB, Thomas P, Tandon S,

Jones PW. Paper Presented to Leicester Nottingham Registrars Meeting 18 November 1993.

The need to design and develop a new shin pad. Hardy JRW. Paper Presented to Mechanical Materials Seminars, Leicester University Engineering Department. 23 March 1994.

Callus growth: Effects of antiprostaglandins on the rate of healing and production of callus in undisplaced tibial fracture. Hardy JRW, Gregson P, Richardson JB, Thomas P, Tandon S, Jones PW. Paper Presented to Combined European Orthopaedic Research Society and British Orthopaedic Research Society Meeting 12 April 1994.

Active fracture movement in patients stabilised by unilateral external fixators. Gardner TN, Evans M, Hardy JRW, Richardson JB. Paper Presented to Combined European Orthopaedic Research Society and British Orthopaedic Research Society Meeting 12 April 1994. [*shortlisted for an EORS Award*].

The footballer's fracture. Hardy JRW, Richardson JB, Gregg PJ. Paper Presented to The Inaugural Meeting of the British Orthopaedic Sports Trauma Association at the British Orthopaedic Association 13 April 1994.

Dynamisation of tibial fractures: Effects on fracture site movement. Richardson JB, Hardy JRW, Gardner TN, Kuiper JH, Evans M, Kenwright J. Paper Presented to the British Orthopaedic Association 13 April 1994.

The Leicester protocol for the management of tibial fractures. Hardy JRW. Paper Presented to 4th Annual BOTA Seminar, Verona, Italy 27th June 1994.

Measurement of fracture stiffness to define healing in fractures, leg lengthening and bone transport. Richardson JB, Dwyer J, Hardy JRW, Kuiper JH. Poster Presented to 62nd Annual Meeting of American Academy of Orthopaedic Surgeons. Feb.16-20, 1995. Orlando, Florida, USA.

Tibial fractures in soccer players. Cattermole HR, Hardy JRW. Paper presented to the East Midlands Orthopaedic Research Meeting. 17 November 1994.

Component positioning with two commonly used total knee replacements. Rawes ML, Hardy JRW, Oni OOA. Paper presented to the East Midlands Orthopaedic Research Meeting. 17 November 1994.

Creating an early stable environment for healing by callus: The Leicester protocol. Hardy JRW. Paper Presented in Leicester to The 1995 ABC Travelling Fellows 16 May 1995.

Changes in serum bone markers in healing tibial fractures. Hay SM, Hannon R, Hardy JRW, Conlan DP, Eastell R. Presentation to B.O.R.S. Aberdeen 1995.

Can walking heal fractures? Gardner TN, Evans M, Hardy JR, Simpson AHRW, Kenwright J. Orthopaedic Research Society Proceedings. San Diego - Combined American, European and Japanese Orthopaedic Research Society meeting. November 1995.

Periosteal movement during callotasis. Tselentakis G, Richardson JB, Owen J, Hardy JRW. Poster Presentation to B.O.R.S March 1996.

Study NO. 95-BMP-01 (C9414-11) Presentation of fracture stiffness and the use of the Orthometer to measure fracture stiffness. Hardy JR. Investigators Meeting. Stakis Hotel, Stoke-on-Trent. 26th April 1996.

The role of callus growth in healing by callus osteogenesis. Gardner TN, Hardy JRW, Evans M, Kenwright J. Submitted to Ottawa, Canada. - International Society for Fracture Repair. September 1996. International Society for Fracture Repair Proceedings.

Stiffness measurements to assess healing in bone transport using the "Orthofix" limb reconstruction system. Owen PJ, Hardy JRW, Dwyer JSM, Kuiper JH and Richardson JB. BOA September 11-13, 1996.

The role of callus growth in fracture healing. Gardner TN, Hardy JRW, Evans M and Kenwright J. Presented to the 5th Biennial Meeting of the International Society for Fracture Repair September 18-21, 1996.

The validation of fracture stiffness as an outcome measure. Hardy JRW, de Jonge EJ, Richardson JB. Paper presented to the East Midlands Orthopaedic Research Meeting. 15 November 1996.

Fracture movement, callus formation and fracture stiffness. Gardner TN, Evans M, Hardy JRW, Simpson AHRW. La Thuile (Italy) - European External Fixation Meeting. January 1997. European Fracture Meeting Proceedings.

*[this paper was an invited lecture]*

Temporal effects in callus growth and the mechanical coupling of fractures. Gardner TN, Hardy JRW, Kenwright J, Evans M. Paper Presented to European Orthopaedic Research Society Meeting Barcelona, Spain 1997.

"Monitoring Fracture Healing: A Measure of Callus Consolidation" and "An Algorithm for the Management of Tibial Fractures: External Fixation and the Importance of Dynamisation" Hardy JRW. Paper presented to 6th Annual BOTA Seminar, Verona, Italy. 4th-7th May 1997.

Invited Lecturer. Hardy JRW. 10 Lectures. Orthofix Trauma Course. Tripoli, Libya. 27-28 July 1997.

Invited Lecturer. MASS Seminar. Hardy JRW. "Everything but the Whiplash". Law Society, 113 Chancery Lane, London 10 September 1997.

The assessment of fracture stiffness using the Orthometer: Reproducibility and sources of error. Eastaugh-Waring SJ, Hardy JRW, Cunningham JL. Biomechanica '97. Davos Switzerland. October 28-29 1997.

Invited Lecturer. "The Choice of Treatment for Serious Tibial Diaphyseal Fractures: Place of External Fixation". Hardy JRW. BOA 27<sup>th</sup> Instructional Course. January 10/11, 1998.

Bould M, Barnard S, Learmonth ID, Cunningham J, Hardy JRW. Digital image analysis: improving accuracy and reproducibility of radiographic measurement. Paper presented to 50th Annual SWOC Seminar, Exeter, UK. 9th-10th May 1998. *[this paper won 1<sup>st</sup> prize]*

Accuracy, reproducibility, and sources of error in stiffness measurements using the Orthometer. Eastaugh-Waring SJ, Hardy JRW, Cunningham JL. BORS Oxford 30-31 March 1998.

Bould M, Barnard S, Hardy JRW. Digital image analysis: improving accuracy and reproducibility of radiographic measurement. EFFORT Brussels, Belgium 1999.

Hardy JRW. Novel Use of Radiography. International Society of Fracture Repair Workshop. The monitoring of Fracture healing (including distraction osteogenesis). Worcester College, Oxford, UK. 8-11th April 1999.

S. Barnard, J.R.W. Hardy, A.E. Goodship and J.L. Cunningham. "Callus Index" as an Indicator of Fracture Healing. ISFR, Hong Kong, China. 22-23 September 2000.

The joint line - How important is it? Hardy JRW and Bremner-Smith. Advanced Concepts in Mobile Bearing Arthroplasty Learning Centre. San Francisco, USA. Monday 26th - 27th February 2001.

Early Experience of the PCR AP Glide - Technique and design. Hardy JRW. Advanced Concepts in Mobile Bearing Arthroplasty Learning Centre. San Francisco, USA. Monday 26th - 27th February 2001.

The Patello-femoral design of the LCS total knee system. Hardy JRW. Advanced Concepts in Mobile Bearing Arthroplasty Learning Centre. San Francisco, USA. Monday 26th - 27th February 2001.

I use cement and it works. Hardy JRW. Advanced Concepts in Mobile Bearing Arthroplasty Learning Centre. San Francisco, USA. Monday 26th - 27th February 2001.

Developing a Surgical Appliance. Hardy JRW. Exploiting Innovations in the NHS and UK Universities- An Introduction. Royal Society of Medicine, 1 Wimpole Street, London. 3<sup>rd</sup> October 2002.

Head Injuries in Sport. Hardy JRW and Ryan D. Sport, Exercise and Health Sciences Meeting. Hotel du Vin, Bristol, UK. 6<sup>th</sup> November 2002.

Inflatable Trays for the Prevention of Contamination in Surgery. Hardy JRW. South West Regional Infection Control Nurses' Association Study Day. The Webbington Hotel, Loxton, Somerset. Friday 8<sup>th</sup> November 2002.

Invited Lecture: How to Pass the Surgical MB ChB. Hardy JRW. SCRUBS. Post Graduate Medical Education Centre, Bristol Royal Infirmary. Friday 4<sup>th</sup> April 2003.

Invited Lecture: Head Injuries in Sport. Hardy JRW. South Bristol Medical Society. 27<sup>th</sup> June 2003.

AW Blom, CM Estela, KE Bowker, AP MacGowan and JRW Hardy. The passage of bacteria through surgical drapes. BOA. Birmingham, UK. 12-14 September 2001.

Joslin CC, Eastaugh-Waring E, Hardy JRW and Cunningham JL. Weightbearing after Tibial

Fracture as a Guide to Healing. BORS Southampton, September 2001.

Joslin CC, Cunningham JL and Hardy JRW. Callus Index as a Measure of Fracture Healing. BORS. Cardiff. September 2002.

Joslin CC, Cunningham JL and Hardy JRW. Callus Index as a Measure of Fracture Healing. International Society of Fracture Repair. 17 September 2002. Toronto, Canada.

Joslin CC, Cunningham JL and Hardy JRW. Weightbearing after Tibial Fracture as a Guide to Healing. International Society of Fracture Repair. 17 September 2002. Toronto, Canada.

## AWARDS

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MRC Grant for Bachelor of Sciences intercalated degree University of London, Kings College

3rd Place in the Surgeons in Training Competition "Effects of antiprostaglandins on the rate of healing and production of callus in undisplaced tibial fracture". Hardy JRW, Gregson P, Richardson JB, Thomas P, Jones PW. Poster at EuroSurgery '93 Conference, 3rd European Congress of Surgery, September 14-17, 1993.

First Prize Registrars Case Presentation Meeting 1995, Leicester General Hospital Trust. "Patella Baja".

Award by BORS for Travel to Paris to present: Fracture site movement before and after dynamisation of the Orthofix daf. Hardy JRW, Gardner TN, Richardson JB, Evans M, Ten Voorde W. Paper read on my behalf at European Orthopaedic Research Society, Paris, April 19-20 1993.

Medicine FLTDG Applicant: John Hardy, Orthopaedics & Trauma  
Title: Multisite lecturing. Multisite lecturing for the 3rd year MDEM block, one lecture 5 sites. Amount awarded: £700 Award to assist in the production of a template for delivering lectures to 5 Academies simultaneously.

In 2001 I raised £13,000 for the development of the multimedia facilities at the Avon Orthopaedic Centre to enhance the reputation it has as an Internationally renowned Learning Centre for Orthopaedic and Trauma Surgery.

## SOCIETIES AND MEMBERSHIPS

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GMC Registration No (Full): 2981343

Member B.O.R.S

Member BMA

Member BASK

FRCS Edinburgh

FRCS England

Fellow B.O.A.

B.O.T.A. Member

Member of B.O.S.T.A. & Registered National Sports Medicine Institute  
M.D.U. No: 188877E

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## **EXTRACURRICULAR ACTIVITIES**

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My extracurricular activities include painting and conservation.

## **LANGUAGES**

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I can read and speak French to a good O-level standard.