

Curriculum Vitae

Mr Michael John Haydon McCarthy

BMedSci, BMBS(Hons), MSc(OrthEng), FRCS(Tr&Orth)

Consultant Spinal Surgeon

PERSONAL DETAILS

Name Michael John Haydon McCarthy

Home Address

Telephone Home:
Mobile:

Email

Date of Birth

Nationality British

Civil Status

GMC Number

CCT

NTN

FRCS

Defence

Website www.spinedragon.com

EDUCATION / QUALIFICATIONS

Feb 2009 FRCS(Tr&Orth) Part 2

Nov 2008 FRCS(Tr&Orth) Part 1

March 2008 Cardiff University
Master of Science in Orthopaedic Engineering with Distinction

Jun 2002 MRCS Part 2 Viva

May 2002 MRCS Part 2 Clinical

Nov 2001 MRCS Part 1 Core Module
MRCS Part 1 Systems Module

1994-1999 Nottingham University Medical School
Bachelor of Medicine and Bachelor of Surgery with Honours

1997 Nottingham University Medical School
Bachelor of Medical Sciences in the First Class

1987-1994 St. Cuthbert's Secondary School
Newcastle-upon-Tyne
3 A-Levels all at Grade A (Chemistry, Physics and Biology)
9 GCSEs all at Grade A

AWARDS

Best Research Project Cardiff University Medical School

5 Year Outcome of Central Cord Syndrome, July 2022 (Supervisor)

Inaugural Bluespier Research Prize

South West Orthopaedic Club, May 2012

Soli Lam Spinal Fellowship Award

British Orthopaedic Association, June 2008

Societe Internationale de Chirurgie Orthopaedique et de Traumatologie- Trainees Forum - International Trainees' Best Paper Award

Marrakech, Morocco, August 2007

“Is There Any Point In Classifying Subtrochanteric Fractures? – The Reproducibility Of Four Classification Systems”

British Orthopaedic Association – Best Trainee Presentation

Annual Meeting, Birmingham, September 2005

“The Reliability And Validity Of The Vernon And Mior Neck Disability Index”

British Association of Spinal Surgeons – Best Podium Presentation

Annual Meeting, Aberdeen, February 2005

“Cauda Equina Syndrome: Factors Affecting The Outcome Of 42 Patients With A Mean Follow Up Of 5 Years”

Malkin Orthopaedic Research Prize

The 30th Annual Malkin Symposium, Nottingham, May 2004

“Cauda Equina Syndrome: Factors Affecting Long Term Outcome”

Bart Prize

Awarded for 3rd Year BMedSci Research Project, Nottingham, July 1997

“The Bilateral Effects Of Neonatal Capsaicin Treatment On The Number And Mean Cell Volume Of Neurones In The Tenth Thoracic Dorsal Root Ganglion Of The Rat: A Stereological Study”

In addition, I was a runner up in the *National Duke Elder* Undergraduate Prize in Ophthalmology ran by the Royal College of Ophthalmologists and in the Annual Undergraduate Prize at the *International Anatomical Society* Annual Meeting, both held in 1998.

FUNDING

1. £500 from Synthes Ltd. Spine Division (2006) for Masters Degree.
2. £3000 from the Plymouth Orthopaedic Research Fund (2007) for Masters Degree.
3. circa £200,000 Synthes Ltd. (2007) for DVD Trial (see below).
4. £15,000 Soli Lam Spinal Fellowship Award (2010).
5. £5000 Welsh Arthritis Research Network Grant (2013).

6. £6000 Globus Medical MRI Rotation Study (2016).

EMPLOYMENT**CURRENT POST**

Feb 12 - Present	Consultant Spinal Surgeon	University Hospital of Wales and Llandough University Hospital
Feb 13 - Present	Consultant Spinal Surgeon Private Practice	Nuffield Cardiff and Vale Hospitals
Jan 15 - Present	Medicolegal Expert in Spinal Surgery Claimant, Defence and Negligence	Nuffield Cardiff and Vale Hospitals
Oct 16 - Present	Honorary Senior Lecturer	University of Cardiff Medical School

FELLOWSHIPS

Aug 11 – Feb 12	Spinal Fellow	Royal Devon and Exeter Hospital Mr Chan, Mr Hutton, Mr Khan and Mr Clarke
Jul 10 – Jul 11	Spinal Fellow	AO Spine Centre, Brisbane, Australia Dr Williams and Dr Askin
Oct 09 – Feb 10	Spinal Fellow	Royal Devon and Exeter Hospital Mr Chan, Mr Hutton and Mr Khan

SPECIALIST REGISTRAR TRAUMA AND ORTHOPAEDICS (NTN)

Feb 10 – Jul 10	Spinal Surgery	Musgrove Park Hospital Taunton Mr Madhavan, Mr Thorpe and Mr Steele
Aug 09 – Oct 09	Hip Surgery	Royal Devon and Exeter Hospital Mr Howell, Mr Wilson, Mr Gie and Mr Timperley
Feb 09 – Aug 09	Spinal Surgery	Royal Devon and Exeter Hospital Mr Chan, Mr Hutton and Mr Khan
Aug 08 – Feb09	Foot and Ankle Surgery Hand Surgery	Royal Devon and Exeter Hospital Mr Sharpe, Mr Talbot and Mr Standley
Jan 08 – Aug 08	Lower Limb Arthroplasty and Hand Surgery	Torbay Hospital Mr Lofthouse and Mr Birdsall
Jul 07 – Jan 08	Lower Limb Arthroplasty and Knee Surgery	Torbay Hospital Mr MacEachern and

		Mr Hockings
Jan 07 – Jul 07	Knee Surgery	Derriford Hospital, Plymouth Mr McAllen and Mr Coleridge
Jul 06 – Jan 07	Shoulder and Elbow Surgery	Derriford Hospital, Plymouth Mr Brinsden and Mr Murphy
Jan 06 - Jul 06	General Orthopaedics and Lower Limb Arthroplasty	Derriford Hospital, Plymouth Mr Fekry
Jul 05 - Jan 06	Paediatric Orthopaedics	Derriford Hospital, Plymouth Mr Jeffery
Feb 05 - Jul 05	General Orthopaedics	Derriford Hospital, Plymouth Mr Halawa

RESEARCH FELLOW

Feb 04 - Feb 05	Clinical Research Fellow in Spinal Surgery	QMC, Nottingham Mr Grevitt
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POST MRCS SHO LEVEL

Aug 03 - Feb 04	Orthopaedics & Trauma	Derby Royal Infirmary Mr Quinnell
Feb 03 - Aug 03	Plastic and Hand Surgery	Nottingham City Hospital Mr Perks and Mr Starley
Nov 02 - Feb 03	Spinal Surgery	QMC, Nottingham Mr Webb and Mr Mehdian
Aug 02 - Nov 02	Neurosurgery	QMC, Nottingham Mr White and Mr Robertson

NOTTINGHAM BASIC SURGICAL TRAINING ROTATION

Feb 02 - Aug 02	Cardiothoracic Surgery	Nottingham City Hospital Mr Beggs and Mr Morgan
Aug 01 - Feb 02	General Surgery	Nottingham City Hospital Mr Rigg
Feb 01 - Aug 01	Orthopaedics & Trauma	QMC, Nottingham Professor Davis and Mr Radford
Aug 00 - Feb 01	Accident & Emergency	QMC, Nottingham Mr Esberger

PRHO POSTS

Aug 99 – Aug 00	Medicine	Nottingham City Hospital Dr MacFarlane (Respiratory) Dr Smith (HCE)
	Surgery	Nottingham City Hospital Mr Beggs (Thoracic) Mr Williams (General)

OPERATIVE EXPERIENCE

Please refer to my Specialist Registrar Logbook, OCAP PBAs, Fellowship experience and my website. A full list of procedures that I have performed as a Consultant is available on request.

As a Consultant Orthopaedic Spinal Surgeon, I perform all aspects of spinal surgery ranging from minimally invasive surgery to complex paediatric and adult spinal deformity. I am fully trained in all spinal surgical approaches to the anterior, lateral and posterior aspects of the cervical, thoracic and lumbar spine. I do not currently perform endoscopic spinal surgery, base of skull / posterior cranial fossa surgery or surgery on intradural pathologies.

FELLOWSHIP EXPERIENCE

Following the completion of FRCS (Tr&Orth) exam I have had 2½ year's experience in Spinal Surgery. I have participated in over 650 spinal operations of which 60 were scoliosis procedures. I have been the principle surgeon in 56 posterior lumbar decompressions, 21 lumbar decompression fusions, 49 discectomies, 14 ALIFs, 12 ACDFs (7 for trauma), 5 anterior cervical corpectomies for trauma, 13 posterior cervical fixations for trauma and 34 posterior thoracolumbar fixations for trauma.

I spent my first year following FRCS(Tr&Orth) at Exeter Spinal Unit. I gained experience in all aspects of spinal surgery including deformity. This included the use of the dissecting microscope, technique of microdiscectomy and microdecompression in the lumbar spine, anterior approaches to the thoracolumbar spine, the Harms technique and the XLIF procedure. Prior to my Fellowship in Australia, I worked in the Spinal Unit in Taunton where I continued to develop my skills in all aspects of spinal surgery in particular degenerate scoliosis, image guided pedicle screws, iliac screw insertion, vertebroplasty, Magerl screws and lumbosacral injection techniques. I participated in the introduction of the NICE Metastatic Spinal Cord Compression Guidelines and the process of establishing service frameworks. Furthermore, I introduced a simple spreadsheet for ward rounds, patient management and data collection.

I spent a year in Brisbane Australia (2010/11). This was an intense learning experience with a steep learning curve. The first 6 months was predominantly adult degenerative surgery (led by Dr Richard Williams) and the second 6 months focused more on paediatric deformity (led by Dr Geoff Askin). I worked in both the private and public health sectors. The public hospitals being Princess Alexandra Hospital (AO Reference Centre) and the Mater Children's Hospital. I assisted in surgery at both Mater Private Hospital and Brisbane Private Hospital. I was the principle surgeon in the Public Hospitals and generally performed half of each operation during the private cases. I was on call every other week for 8 months and for the remaining 4 months every third week. The on call commitment consisted of managing emergency cases at the public hospitals. The Spinal Injuries Unit in Queensland is located at the Princess Alexandra Hospital and I was exposed to a very high volume of spinal trauma. Of particular note during my time in Brisbane I gained experience in the techniques of endoscopic scoliosis

correction, sublaminar wires, kyphosis correction, C2 pedicle screws, the Tomita procedure, pedicle subtraction osteotomy, en bloc spondylectomy, percutaneous pedicle screw fixation, translaminar screw insertion and use of the O-arm and biomodels.

MEDICAL ELECTIVE

Trauma Surgery at Cook County Hospital, Chicago (1999). Six weeks in the trauma unit gave me an early insight into treatment strategies employed for poly-trauma victims. Active participation in patient management improved my basic surgical skills and furthered my interest in Trauma. Students were given ward and patient responsibilities far beyond that which I had encountered in the UK. I was involved in several resuscitative thoracotomies for both low and high velocity penetrating trauma. Under supervision I placed several chest drains and central lines, I performed pericardiocentesis and on one occasion open cardiac massage.

RESEARCH EXPERIENCE

My research experience has increased my confidence and ability in the appraisal of published articles, laboratory-based research, dealing with statistics, data capture and analysis, presentation at meetings and writing manuscripts. As a Consultant I support the trainees and medical students doing research and audit projects and I have supervised a PhD student at Cardiff University.

Current Projects

1. An Analysis Of Pedicle Screw Placement And Subsequent Return To Theatre Was The Intraoperative Imaging Adequate.
2. Analysis of Pedicle Screw Placement in the Surgical Correction of AIS.
3. ICU Pressure Sores in Spinal Patients.
4. Torticollis due to Chiari Malformation - Case Report.
5. Posterior Decompression of Thoracolumbar Fractures - The Evidence Indications and Complications – Literature Review.
6. Spinal Injection Service Modernisation / Improvement / Outcomes.
7. 5 Year Outcome of Central Cord Syndrome.
8. 5 Year Outcome of Thoracolumbar Fractures and Employment.
9. Inflamed Cervical Facet Joints and Response to Injection.
10. The Positive Effects of COVID on the Scoliosis Service.
11. Audit - Loss of Cord Monitoring: Factors in Scoliosis Surgery.
12. CT Study to Correlate the Interpedicular Distance and Maximum Length Pedicle Screw: Intraoperative Guide to Ensure Safe Pedicle Screw Insertion.

Fellow, Registrar And Medical Student Projects

1. An Audit Of Outcome Following New Spinal Outpatient Appointment During Covid 19 Recovery Phase.
2. Analysis of out of area non major trauma on call spinal referrals in a tertiary major trauma centre.
3. Globus Ellipse lateral mass screws – single surgeon series over 10 years with modified technique.
4. CT study to correlate the interpedicular distance and maximum length pedicle screw: intraoperative guide to ensure safe pedicle screw insertion.
5. University Hospital of Wales Spinal Infection Guidelines.
6. Ogilvie’s Syndrome (OS) Following Paediatric Posterior Scoliosis Correction.
7. Audit Of Medical Student Teaching: Deyos Low Back Pain Myths..
8. A Comparison of the Spinal Teaching Provided to Undergraduate Medical Students Across the UK.
9. Analysis of Pedicle Screw Placement in The Surgical Correction of Adolescent Idiopathic Scoliosis: Does Pedicle Screw Malpositioning Lead to Increased Requirement for Post-Operative CT Imaging and Revisional Surgery?
10. Health Beliefs and Low Back Pain.
11. Radiological Analysis of Expandable Interbody TLIF Cages.
12. How The Straight Leg Raise (SLR) And Crossed Straight Leg Raise (XSLR) Sign Influence Patient Reported Outcome Measures (Proms) In Patients With A Lumbar Disc Herniation.
13. Expectations And Concerns Of Patients Attending Spinal Orthopaedic Outpatient Clinic.
14. Transoral Gunshot Injury Resulting in Mechanical Block to Cervical Rotation A Case Report.
15. Radiological Comparison Of Pre-Contoured Versus Conventional Rods In Posterior Surgical Correction Of Adolescent Idiopathic Scoliosis.
16. Factors Predicting Missed Pedicle Screws And Unplanned Return To Theatre Within 90 Days: Analysis Of 889 Patient Data.
17. Lumbar Facet Joint Cysts: Investigating Demographics And Evaluating Management Within CVUHB – A Retrospective Case Series.
18. Patient Outcomes Following The Use Of Methylprednisolone Acetate 40mg Particulate Steroid Versus Dexamethasone 3.3m/6.6mg Non-Particulate Steroid In

Foraminal Epidural Injections For The Management Of Radicular Pain Due To Disc Prolapse.

19. Symptomatic Post-Operative Spinal Subdural Extra-Arachnoid Hygromas: Resolution With Conservative Management.
20. Septic Arthritis Of The Costovertebral Joint: A Unique Case Presenting As Renal Colic.
21. An Audit Of Elective Outpatient Spinal Surgery Referrals.
22. Radiological Evaluation Of Fusion Rates, Cervical Alignment And Postoperative Swelling Following Anterior Cervical Discectomy And Fusion Involving Either A Standalone Anchored Cage Construct Or Cage And Plate Combination.
23. Do Lumbar Facet Joint Injections Provide Symptom Relief For Low Back Pain And Does This Relate To Patient Recorded Outcome Measures? – A Single Surgeon Cohort.
24. Do Preoperative Depression And Anxiety Predict Outcomes Of Lumbar Spinal Surgery?
25. A Comparison Of (1) MRI Muscle Fat Content In Psoas And Erector Spinae Muscles And (2) Patient Reported Outcome Measures In Patients With Lumbar Degenerative Disc Disease, L4/5 Degenerative Spondylolisthesis And L5/S1 Lytic Spondylolisthesis.
26. A Service Evaluation To Determine If There Is A Correlation Between CT SPECT And MRI In Inflammatory End Plate Changes Of The Lumbar Spine.
27. Pilates for Low Back Pain.
28. The Anatomical Effects Of Rotation On The Lumbar Spine: An MRI Study (PhD Thesis).

AO Spine Fellow

A one-year post working at the AO Spine Reference Centre in Brisbane, Australia. My main research projects were:

1. Complications Of The Use Of BMP In A Single Surgeon Cohort Of 300 Patients: Rrhbmp2 Versus Rrhbmp7 A Survivorship Analysis In Lumbar Spinal Surgery
2. A Radiological Analysis Of Early Failure Of Cervical Fixation For Trauma In The Subaxial Cervical Spine

MSc Orthopaedic Engineering With Distinction (Cardiff University):

A Biomechanical Comparison of the Synthes Dynamic Hip Screw, Dynamic Helical Hip Screw, Proximal Femoral Nail Antirotation (PFNA) and the Stryker Gamma 3 Lag Screws. Supervised by Professor T. Miles and Mr J. Keenan. Centre for Orthopaedic Biomechanics, Department of Mechanical Engineering, Bath University (2008).

Specialist Registrar Trauma And Orthopaedics:

I set up the trial entitled: A Prospective Randomised Controlled Trial Of The Dynamic Hip Screw Versus The Dynamic Helical Hip Screw (DVD Trial). I gained experience in submitting and attaining full ethical approval from the UK REC. Synthes Ltd agreed to fund the trial by providing the surgical equipment, the new implants (at the same cost as the standard ones) and meeting the cost of follow up appointments and X-Rays for each patient (circa £200,000).

Clinical Research Fellow In Spinal Surgery:

This was a one year post in the Department of Spinal Surgery and Studies at the Queens Medical Centre, Nottingham (February 2004-5). The on call commitment included cover of the neurosurgical wards. I was actively involved in the following research:

1. Cauda Equina Syndrome: (A) A Study Of The Long Term Neurological And Urological Outcomes And (B) MRI Measurements Reproducibility And Prediction Of Clinical Outcome.
2. Comparison Of The Neck Disability Index And The SF36 Health Questionnaires.
3. The Injured Spine: A Chapter In “An Introduction To Spinal Surgery” (AO Publishing).
4. Vertebroplasty – A Review.
5. A Study Of The Long Term Outcome Of Infected Spinal Instrumentation Left In-Situ.
6. The Use Of Low Intensity Pulsed Ultrasound In Patients With Neck Pain.

Completed Bachelor Of Medical Sciences:

The bilateral effects of neonatal capsaicin treatment on the number and mean cell volume of neurones in the tenth thoracic dorsal root ganglion of the rat: a stereological study. Supervised by Dr. C. Kent and Professor T. Mayhew. Department of Human Anatomy and Cell Biology, School of Biomedical Sciences, Queens Medical Centre, Nottingham (July 1996 – March 1997).

ETHICS

1. Full UK REC submission and approval for the DVD trial.
2. I assisted in the Australian ethics submissions for (1) Complications Of The Use Of BMP In A Single Surgeon Cohort Of 300 Patients: RhBMP2 Versus RhBMP7 A Survivorship Analysis In Lumbar Spinal Surgery and; (2) A Radiological Analysis of Early Failure of Cervical Fixation for Trauma in the Subaxial Cervical Spine

PATIENT REPORTED OUTCOME MEASURES (PROMS)

I have collected patient reported outcome scores since becoming a Consultant in 2012. To date I have a database of over 4000 PROMS. Since 2018 I have been using the British Spine Registry for every operative patient.

PUBLICATIONS

Spinal

1. Effects Of Neonatal Capsaicin Administration On The Numbers And Volumes Of Neurones In The Left And Right T10 Dorsal Root Ganglia In The Rat. M.McCarthy, C.Kent and T.Mayhew. **Journal of Neurocytology** 2000; **28**: 161-69.
2. Melorheostosis At The Tenth And Eleventh Thoracic Vertebra Crossing The Facet Joint: A Rare Cause Of Back Pain. M.McCarthy, H.Mehdian, K.J.Fairbairn and A.Stevens. **Skeletal Radiology** 2004; **33**: 283-286.
3. **Introduction to Spine Surgery**. Edited by S. Corbett. Author of chapter "The Injured Spine": 89-111. AO Publishing, Thieme, Switzerland, 2006.
4. Cauda Equina Syndrome: The Factors Influencing Functional and Sphincteric Outcome. M.J.H.McCarthy, C.E.W.Aylott, M.P.Grevitt and J.Hegarty. **Spine** 2007; **32**: 207-16.
5. The Reliability And Validity Of The Vernon And Mior Neck Disability Index And Comparison To The Short Form-36 Health Survey Questionnaire M.J.H.McCarthy, M.P.Grevitt, P. Silcocks and G.Hobbs. **European Spine Journal** 2007; **16**: 2111-7.
6. **Oxford Desk Reference Major Trauma**. Edited by J. Smith, I. Greaves and K. Porter. Author of chapter "Spinal Injuries": 163-207. Oxford University Press, UK, 2011.
7. The Influence Of The Energy Of Trauma, The Timing Of Decompression, And The Impact Of Grade Of SCI On Outcome. M.J.H.McCarthy, S.Gatehouse, M.Steel, B.Goss and R.Williams. **Evidence Based Spine Journal** 2011; **2**: 11-17.
8. A Radiological Comparison of Anterior Fusion Rates in Lumbar Anterior Interbody Fusion. M.J.H.McCarthy, L.Ng, G.Vermeersch and D.Chan. **Global Spine Journal** 2012; **2**: 195-206.
9. Neck Pain. Map of Medicine. Contributor. www.mapofmedicine.com
10. Cervical Radiculopathy. Map of Medicine. Contributor. www.mapofmedicine.com
11. YouTube as a source of patient information for lumbar discectomy: an assessment of videos and their content. F.Brooks, H.Lawrence, A.Jones and M.J.H.McCarthy. **Annals of the Royal College of Surgeons of England** 2014; **96(2)**: 144-146.
12. A Comparison of Magnetic Resonance Imaging Muscle Fat Content in the Lumbar Paraspinal Muscles with Patient-Reported Outcome Measures in Patients with Lumbar Degenerative Disk Disease and Focal Disk Prolapse. A .Bhadresha, O.J.Lawrence and M.J.H.McCarthy. **Global Spine J** 2016; **6**: 401-410.
13. Management Of Symptomatic Degenerative Low-Grade Lumbar Spondylolisthesis. N.Evans and M.J.H.McCarthy. **Effort Open Reviews** 2018; **3**: 610-631.

14. Symptomatic Post-operative Spinal Subdural Extra-Arachnoid Hygromas Resolution with Conservative Management. R.A.Morgan and M.J.H.McCarthy. **JBJS Case Connector** 2020; 10.
15. Transoral Gunshot Injury Resulting in Mechanical Block to Cervical Rotation A Case Report. Tyler J. Jones, Alexandra L. Stanley and Michael J.H. McCarthy. **JBJS Case Connector** 2021; 11.
16. **Handbook of Orthopaedic Trauma Implantology**. Editors: Arindam Banerjee, Peter Biberthaler, Saseendar Shanmugasundaram. Author of chapter “Biomechanics of Lumbar spine”: Springer 2021.
17. Long-term outcome after surgical treatment of Scheuermann’s Kyphosis (SK). U.K.Debnath, N.A.Quraishi, M.J.H. McCarthy, J.R.McConnell, S.M.H.Mehdian, A.Shetaiwi, M.P.Grevitt and J.K.Webb. **Spine Deformity** 2022; 10: 387-397.

Orthopaedic

1. Plain Radiograph And MRI Assessment Of Acute Scaphoid Waist Fracture Displacement: Their Value For Predicting Fracture Outcome. M.Bhat, M.McCarthy, T.R.C.Davis, J.Oni and S.Dawson. **British Journal of Bone and Joint Surgery** 2004; 86(5): 705-713.
2. Lining Up the Liner: 2 Case Reports of Early Ceramic Liner Fragmentation. M.J.H.McCarthy and M.Halawa. **The Journal of Arthroplasty** 2007; 22: 1217-22.
3. Use Of The Abbreviated Mental Test Score By Junior Doctor On Patients With Fractured Neck Of Femur. N.P.Jain, P.M.Guyver, L.P.C.McCarthy, S.Sarasin, N.K.Rouholamin and M.J.H.McCarthy. **Archives of Orthopaedic Trauma Surgery** 2008; 128: 235-8.
4. Pseudo-Obstruction, A Rare Complication Of Shoulder Arthroplasty. N.P.M.Jain, P.M.Guyver, M.J.H.McCarthy and A.J.Murphy. **European Journal of Orthopaedic Surgery and Traumatology** 2008; 18: 143-145.
5. Vastus Medialis Necrosis Secondary To The Combination Of The Subvastus And Median Parapatellar Approaches For Implantation Of A Total Knee Replacement. R.Faroug, Y.Shah, M.J.H.McCarthy and M.Halawa. **European Journal of Orthopaedic Surgery and Traumatology** 2009; 19: 121-124.
6. Two Stage One Component Revision In Infected Total Hip Replacements - Two Case Reports And Literature Review. R.Faroug, Y.Shah, M.J.H.McCarthy and M.Halawa. **Hip International** 2009; 19(3): 292-298.
7. Is There Any Purpose In Classifying Subtrochanteric Fractures? – The Reproducibility of Four Classification Systems. P.M.Guyver, M.J.H.McCarthy, N.P.M.Jain, R.J.Poulter, C.J.P.McAllen and J.Keenan. **European Journal of Orthopaedic Surgery and Traumatology** 2014; 24: 513-518.
8. The Short Term Functional And Radiological Outcome Of Patients Treated With The Synthes Proximal Femoral Nail Antirotation (PFNA) For Unstable Proximal Femoral

Fractures. P.M.Guyver, M.J.H.McCarthy, N.P.M.Jain and J.Keenan. **European Journal of Orthopaedic Surgery and Traumatology 2011; 21: 493-501.**

9. **Editor: 10 Years of Technical Top Tips for Surgeons** - The Annals of the Royal College of Surgeons of England. www.rcseng.ac.uk/publications/techtips
10. The Accuracy and Reliability of Pre-Operative Templating In Revision Total Knee Arthroplasty. A Comparison Of Analogue and Digital Methods. N.P.M.Jain, P.M.Guyver, M.J.H.McCarthy, J.Press and J Keenan. **Journal of Orthopaedics 2014; 11: 121-125.**

PRESENTATIONS

Spinal

INTERNATIONAL

1. **The International Anatomical Society, Newcastle-upon-Tyne** - January 1998. The Bilateral Effects Of Neonatal Capsaicin Treatment On The Number And Mean Cell Volume Of Neurones In The Tenth Thoracic Dorsal Root Ganglion Of The Rat: A Stereological Study. M.McCarthy, C.Kent and T.Mayhew.
2. **European Federation of National Associations of Orthopaedics and Traumatology, Lisbon, Portugal** - June 2005. MRI Measurements In Cauda Equina Syndrome: Reproducibility And Prediction Of Clinical Outcome. M.J.H.McCarthy, D.Annesley-Williams, A.T.Brodie, C.E.W.Aylott, A.Jones and M.P.Grevitt.
3. **European Federation of National Associations of Orthopaedics and Traumatology, Lisbon, Portugal** - June 2005. Cauda Equina Syndrome: Factors Affecting The Outcome Of 42 Patients With A Mean Follow Up Of 5 Years. M.J.H.McCarthy, C.E.W.Aylott, M. P.Grevitt, M.C.Bishop and A.T.Brodie.
4. **Eurospine, Barcelona, Spain** - September 2005. The Vernon And Mior Neck Disability Index: Reliability And Validity, And Comparison To The Short Form-36 Health Survey Questionnaire. M.J.H.McCarthy, M.P.Grevitt, P.Silcocks and G.Hobbs.
5. **Spine Society Australia, Melbourne, Australia** - April 2011. A Non Randomised Single Surgeon Cohort Study Of RhBMP2 Versus RhBMP7 In Lumbar Spinal Surgery: An Outcome Analysis Of 186 Patients. M.J.H.McCarthy, S.Stanojevic, B.Goss and R.Williams.
6. **Spine Society Australia, Melbourne, Australia** - April 2011. A Radiological Analysis Of Early Failure Of Cervical Fixation For Trauma In The Subaxial Cervical Spine. O.Jenkins, M.J.H.McCarthy and R.Williams.
7. **Spine Society Australia, Melbourne, Australia** - April 2011. Does Posterior Pedicle Screw Supplementation Without Posterolateral Fusion Improve Anterior Lumbar Interbody Fusion When Using Anterior Cage And Screw Constructs? – A Radiological Study. M.J.H.McCarthy, L.Ng and D.Chan.

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8. **Eurospine, Berlin** – September 2016. Expandable Interbody Implants. M.J.H.McCarthy

NATIONAL

1. **BSS, Leeds** - April 2003. The Reproducibility Of Radiological Measurements In Pre- And Post-Operative Patients With Thoracic Adolescent Idiopathic Scoliosis. M.McCarthy, A.A.Cole and J.K.Webb.
2. **SLBPR, Leicester** - November 2004. MRI Measurements In Cauda Equina Syndrome: Reproducibility And Prediction Of Clinical Outcome. M.J.H.McCarthy, D.Annesley-Williams, A.T.Brodie, C.E.W.Aylott, A.Jones and M.P.Grevitt.
3. **SLBPR, Leicester** - November 2004. Cauda Equina Syndrome: Factors Affecting Long Term Outcome. M.J.H.McCarthy, C.E.W.Aylott, M.P.Grevitt and M.C.Bishop.
4. **BASS, Edinburgh** - February 2005. MRI Measurements In Cauda Equina Syndrome: Reproducibility And Prediction Of Clinical Outcome. M.J.H.McCarthy, D.Annesley-Williams, A. Brodie, C.E.W.Aylott, A.Jones and M.P.Grevitt.
5. **BASS, Edinburgh** - February 2005. The Reliability And Validity Of The Vernon And Mior Neck Disability Index And Comparison To The Short Form-36 Health Survey Questionnaire. M.J.H.McCarthy, M.P.Grevitt, P. Silcocks and G.Hobbs.
6. **BASS, Edinburgh** - February 2005. Cauda Equina Syndrome: Factors Affecting The Outcome Of 42 Patients With A Mean Follow Up Of 5 Years. M.J.H.McCarthy, C.E.W.Aylott, M.P.Grevitt and M.C.Bishop.
7. **BASS, Edinburgh** - September 2005. The Reliability And Validity Of The Vernon And Mior Neck Disability Index. M.J.H.McCarthy, M.P.Grevitt, P.Silcocks and G.Hobbs.
8. **BOA, Birmingham** - September 2005. Cauda Equina Syndrome: (1) The Factors Affecting Outcome And (2) An Analysis Of MRI Measurements. M.J.H.McCarthy, C.E.W.Aylott, A.T.Brodie, D.Annesley-Williams, A.Jones, M.P.Grevitt and M.C.Bishop.
9. **Trauma Care Conference, Telford** - May 2005. Spinal Injuries in Sports.
10. **Britspine, Liverpool** - April 2010. Implementation Of The NICE Guidelines For Metastatic Cord Compression – Do They Make A Difference? C.L.Berry, M.J.H.McCarthy, L.Ballagher, A.Clarke, M.Osbourne and M.J.Hutton.
11. **BASS, Edinburgh** - February 2011. Does Posterior Pedicle Screw Supplementation Without Posterolateral Fusion Improve Anterior Lumbar Interbody Fusion When Using Anterior Cage And Screw Constructs? – A Radiological Study. M.J.H.McCarthy, L.Ng and D.Chan.
12. **Britspine, Warwick** - April 2014. A Comparison Of (1) Mri Muscle Fat Content In Psoas And Erector Spinae Muscles And (2) Patient Reported Outcome Measures In Patients With Lumbar Degenerative Disc Disease, L4/5 Degenerative

Spondylolisthesis And L5/S1 Lytic Spondylolisthesis. A. Cunningham, A.Saba and M.J.H.McCarthy.

13. **BASS, Bath** – April 2015. Technical Tips In Spinal Surgery.
14. **BSS, Cardiff** – December 2019. Radiological Comparison of Pre-Contoured Vs Conventional Rods in Posterior Surgical Correction of Adolescent Idiopathic Scoliosis. S.Singh, C.Woodward, D.Winson, D.A.Jones, S.Ahuja, J.Howes, P.R.Davies, S.H.James, M.J.H.McCarthy
15. **BOA, Virtual Congress** – September 2020. Assessing An Undergraduate Low Back Pain Teaching Programme: Medical Student Understanding Of Deyo's Low Back Pain Myths. M.Karim and M.J.H.McCarthy. 2nd Prize Medical Student Section.
16. **BOA, Virtual Congress** – September 2020. Ogilvie's Syndrome Following Paediatric Posterior Scoliosis Correction. S.Singh, A.Ragab and M.J.H.McCarthy.

REGIONAL

1. **The 30th Annual Malkin Symposium, Nottingham** - May 2004. Cauda Equina Syndrome: Factors Affecting Long Term Outcome. M.J.H.McCarthy, C.E.W.Aylott, M.P.Grevitt and M.C.Bishop.
2. **South West Spine Club, Bath** - January 2010. Screw Web PACS – Is Pedicle Sizing Accurate And Reproducible On CT. T.A.Bucher, M.J.H.McCarthy, A.C.Redfern and M.J.Hutton.
3. **South West Orthopaedic Club, Plymouth** - April 2010. Screw Web PACS – Is Pedicle Sizing Accurate And Reproducible On CT. T.A.Bucher, M.J.H.McCarthy, A.C.Redfern and M.J.Hutton.
4. **South Wales Cancer Network Acute Oncology Meeting, Port Talbot** - March 2013. Surgical Pathways, Guidelines and Audit of Metastatic Spinal Cord Compression.
5. **South West Spinal Club, Saunton Sands** - June 2017. Do Preoperative Depression and Anxiety Predict Outcomes of Lumbar Spinal Surgery? E.Bentley, B.Markall and M.J.H.McCarthy.
6. **South West Spinal Club, Saunton Sands** - June 2017. Do Lumbar Facet Joint Injections Provide Symptom Relief For Low Back Pain And Does This Relate To Patient Recorded Outcome Measures? – A Single Surgeon Cohort. B.Markall, E.Bentley and M.J.H.McCarthy.
7. **Current Concepts in Spinal Surgery, Cardiff** - September 2019. The History of Scoliosis. M.J.H.McCarthy

LOCAL

1. **Medical Grand Rounds, Royal Devon and Exeter Hospital** - March 2009. The Surgical Management of Discitis and Vertebral Osteomyelitis. M.J.H.McCarthy and D.Chan.

2. **Department of Trauma and Orthopaedics, Royal Devon and Exeter Hospital -** July 2009. An Audit of the NICE MSCC Guidelines.
3. **AO Spine Meeting, Brisbane, Australia -** August 2010. Clinical Outcomes in Spinal Surgery.
4. **TA Predeployment Medical Personnel, Cardiff -** January 2013. Military Spinal Injuries.
5. **Pan Celtic Orthopaedic Meeting, Cardiff –** September 2015. Spinal Trauma Update.
6. **Orthopaedic Research Day, Cardiff –** July 2017. Spinal Research Update.
7. **Medical Grand Rounds, University Hospital Wales –** November 2018. Spinal Infections and Guidelines.

HOST / ORGANISER

1. Inaugural Cardiff Spinal Surgery Research Symposium – July 2022.

Orthopaedic

INVITED SPEAKER

1. **President of the Royal College of Surgeons (Mr. Bernard Ribiero) –** Peninsula Medical School, May 2005. Trainee or Trainer – What Makes a Good Surgeon?

INTERNATIONAL

1. **European Trauma Congress, Prague -** May 2004. A Prospective Randomised Audit Of The Use Of The Abbreviated Mental Test Score In Patients With Fractured Neck Of Femur. S.Sarasin, M.McCarthy and L.McCarthy.
2. **Societe Internationale de Chirurgie Orthopaedique et de Traumatologie-*Trainees Forum*, Marrakech, Morocco -** August 2007. Pseudo-Obstruction, A Rare Complication Of Shoulder Arthroplasty. N.P.M.Jain, P.M.Guyver, M.J.H.McCarthy and M.D.Brinsden.
3. **Societe Internationale de Chirurgie Orthopaedique et de Traumatologie-*Trainees Forum*, Marrakech, Morocco -** August 2007. Is There Any Point In Classifying Subtrochanteric Fractures? - The Reproducibility of Four Classification Systems. P.M.Guyver, N.P.M.Jain, M.J.H.McCarthy, R. Poulter and J.Keenan.
4. **Sir Peter Frayer, Galway -** September 2007. Modernising Medical Careers (MMC): How Informed Are Patients And Health Care Professionals? N.P.M.Jain, P.M.Guyver, M.J.H.McCarthy, M.D.Brinsden.
5. **Sir Peter Frayer, Galway -** September 2007. Junior Doctor Use Of The Abbreviated Mental Test Score In Patients With Fractured Neck Of Femur. N.P.Jain, P.M.Guyver, L.P.C.McCarthy, S.Sarasin, N.K.Rouholamin and M.J.H.McCarthy.

6. **European Federation of National Associations of Orthopaedics and Traumatology, Nice, France** - May 2008. The Short Term Outcome of Subtrochanteric Fractures Treated with the New Synthes Proximal Femoral Nail Antirotation. P.M.Guyver, M.J.H.McCarthy, N.P.M.Jain and J.Keenan.

NATIONAL

1. **BSSH, London** - September 2003. Plain Radiograph And MRI Assessment Of Acute Scaphoid Waist Fracture Displacement: Their Value For Predicting Fracture Outcome. M.McCarthy, M.Bhat, T.R.C.Davis, J.Oni and S.Dawson.
2. **Combined Services Orthopaedic Surgeons (CSOS), Bovington** - May 2007. Short Term Outcome of Subtrochanteric Fractures Treated with the New Synthes Proximal Femoral Nail Antirotation. P.M.Guyver, N.P.M.Jain, M.J.H.McCarthy and J.Keenan.
3. **BTS, Nottingham** - October 2007. Short Term Outcome of Subtrochanteric Fractures Treated with the New Synthes Proximal Femoral Nail Antirotation. P.M.Guyver, M.J.H.McCarthy, N.P.M.Jain and J.Keenan.
4. **Combined Services Orthopaedic Society (CSOS), London** - May 2008. Is There Any Point In Classifying Subtrochanteric Fractures? – The Reproducibility of Four Classification Systems. P.M.Guyver, N.P.M.Jain, M.J.H.McCarthy and J.Keenan.
5. **BTS, Liverpool** - May 2010. The Biomechanics Of Lag Screw Insertion: A Comparison Of The Synthes Dynamic Hip Screw, Dynamic Helical Hip Screw, Proximal Femoral Nail Antirotation And The Stryker Gamma 3 Lag Screws. M.J.H.McCarthy, J.McFarlane, R.Long and J.Keenan.

REGIONAL

1. **South West Orthopaedic Club, Tewkesbury** - November 2006. Modernising Medical Careers (MMC): How informed are patients and health care professionals? PM Guyver, NPM Jain, M.J.H.McCarthy, M.D.Brinsden.
2. **South West Orthopaedic Club, Wick Nr Bath** - October 2007. Short Term Outcome of Subtrochanteric Fractures Treated with the New Synthes Proximal Femoral Nail Antirotation. P.M.Guyver, M.J.H.McCarthy, N.P.M.Jain and J.Keenan.
3. **South West Orthopaedic Club, Plymouth** - April 2008. The Biomechanics Of Lag Screw Insertion: A Comparison Of The Synthes Dynamic Hip Screw, Dynamic Helical Hip Screw, Proximal Femoral Nail Antirotation And The Stryker Gamma 3 Lag Screws. M.J.H.McCarthy, R.Long, R.Weston, S.Gheduzzi, J.Keenan and A.Miles.

LOCAL

1. **Department of Trauma and Orthopaedics, Derbyshire Royal Infirmary** - January 2004. SHO Use Of The Abbreviated Mental Test Score In Patients With Fractured Neck Of Femur. M.J.H.McCarthy, S. Sarasin and L. McCarthy.

POSTER PRESENTATIONS

Spinal

INTERNATIONAL

1. **SpineWeek, Oporto, Portugal** - June 2004. The Reproducibility Of Radiological Measurements In Pre- And Post-Operative Patients With Thoracic Adolescent Idiopathic Scoliosis. M.McCarthy, A.A. Cole and J.K.Webb.
2. **SpineWeek, Oporto, Portugal** - June 2004. Difficulties In The Management Of Spinal Deformities In Larsen's Syndrome – A Case Report. M.McCarthy, K.Lam, H.Mehdian and R.Kerslake .
3. **International Society for the Study of the Lumbar Spine, New York** - May 2005. Cauda Equina Syndrome: Factors Affecting The Outcome Of 42 Patients With A Mean Follow Up Of 5 Years. (*Special Poster*) M.J.H.McCarthy, C.E.W.Aylott, M.P.Grevitt and B.J.Freeman
4. **International Society for the Study of the Lumbar Spine, New York** - May 2005. MRI Measurements In Cauda Equina Syndrome: Reproducibility And Prediction Of Clinical Outcome. (Special Poster) M.J.H.McCarthy, D.Annesley-Williams, A.T.Brodie, C.E.W.Aylott, A.Jones, M.P.Grevitt and B.J.Freeman.
5. **Eurospine, Barcelona** - September 2005. Cauda Equina Syndrome: Factors Affecting Outcome. M.J.H.McCarthy, C.E.W.Aylott and M.P.Grevitt.
6. **Spine Society Australia, Melbourne, Australia** - April 2011. Screw Web PACS – Is Pedicle Sizing Accurate And Reproducible On CT. T.A.Bucher, M.J.H.McCarthy, A.C.Redfern and M.J.Hutton.
7. **Spine Society Australia, Melbourne, Australia** - April 2011. Implementation Of The NICE Guidelines For Metastatic Cord Compression – Do They Make A Difference? C.L.Berry, M.J.H.McCarthy, D.Cumming and M.J.Hutton.
8. **Eurospine, Copenhagen** - September 2015. Rootogram To Success? S.Gudipati, K.Lingutla and M.J.H.McCarthy.
9. **Eurospine, Copenhagen** - September 2015. Anatomical Effects of Rotation on the Atlantoaxial Joint. N.K.Rath, X.Yang, K.Lyons, L.Nokes and M.J.H.McCarthy.
10. **GSC, Milan** – May 2017. Medial Epidural Spill: Does It Make A Difference In The Effectiveness of Transforaminal Epidural Steroid Injections H.O.Vercoe, O.A.Ibrahim and M.J.H.McCarthy.
11. **GSC, Milan** – May 2017. Kinematic MRI Analysis of the Lumbar Intervertebral Discs and Neural Foramina in Trunk Rotation. B.A.Omairi, O.Lawrence, X.Yang, Y.Hicks, L.Nokes, K.Lyons and M.J.H.McCarthy.

12. **Eurospine, Milan** – October 2022. How the Straight Leg Raise and Crossed Straight Leg Raise Sign Influence Patient Reported Outcome Measures in Patients with a Lumbar Disc Herniation. A.Stanley, T.Jones and M.J.H.McCarthy.
13. **Eurospine, Milan** – October 2022. Expectations and Concerns of Patients Attending a Spinal Outpatient Clinic. T.Jones, A.Stanley and M.J.H.McCarthy.

NATIONAL

1. **The British Scoliosis Society, Leeds** - April 2003. Difficulties In The Management Of Spinal Deformities In Larsen’s Syndrome – A Case Report. M.McCarthy, K.Lam, H.Mehdian and R.Kerslake.
2. **The British Orthopaedic Oncological Society, Stratford** - June 2003. Melorheostosis At The Zygoapophyseal Joint Of The Tenth And Eleventh Thoracic Vertebra – A Rare Cause Of Back Pain. M.McCarthy, H.Mehdian, K.J.Fairbairn and A.Stevens.
3. **The British Society of Neuroradiologists, Cambridge** - September 2004. MRI Measurements In Cauda Equina Syndrome: Reproducibility And Prediction Of Clinical Outcome. M.J.H.McCarthy, D.Annesley-Williams, A.T.Brodie, C.E.W.Aylott, A.Jones and M.P.Grevitt.
4. **Britspine, Liverpool** – April 2010. Screw Web PACS - Is Pedicle Sizing Accurate And Reproducible On CT. T.A.Bucher, M.J.H.McCarthy, A.C.Redfern and M.J.Hutton.
5. **Society Low Back Pain Research, London** - November 2013. The Patient Health Questionnaire (PHQ9) and Generalised Anxiety Disorder Questionnaire (GAD7) in the Spinal Surgery Out Patient Setting: A Comparison to Visual Analogue Score, Oswestry Disability Index / Neck Disability Index and Disability Benefit. F.Brooks and M.J.H.McCarthy.
6. **BASS, Norwich** – April 2013. The Use Of Percutaneous Spinal Biopsy In Suspected Discitis. P.Goru, K.Lyons and M.J.H.McCarthy.
7. **BASS, Norwich** – April 2013. Lumbar Discectomy: YouTube as a Source of Patient Information and Education. F.Brooks, H.Lawrence, A.Jones and M.J.H.McCarthy.
8. **Society for Back Pain Research** – February 2014. The Patient Health Questionnaire (Phq9) And Generalised Anxiety Disorder Questionnaire (Gad7) In The Spinal Surgery Out Patient Setting: A Comparison To Visual Analogue Score, Oswestry Disability Index/Neck Disability Index And Disability Benefit. F Brooks and MJH McCarthy.
9. **BASS, Bath** – April 2015. Do Patient Reported Outcomes Correlate With A Patient’s Expectation For Lumbar Back Complaints? F.Brooks and M.J.H.McCarthy.
10. **BASS, Manchester** – April 2017. Questioning Nice – Is There A Role For Foraminal Epidural Injections In Central Lumbar Spinal Canal Stenosis? N.R.Evans and M.J.H.McCarthy.

11. **BOA Annual Congress** – September 2020. Assessing An Undergraduate Low Back Pain Teaching Programme: Medical Student Understanding Of Deyo’s Low Back Pain Myths. M. Kareem and M.J.H.McCarthy.
12. **ASiT, Virtual Congress** – February 2021. How the Straight Leg Raise and Crossed Straight Leg Raise Sign Influence Patient Reported Outcome Measures in Patients with a Lumbar Disc Herniation. A.Stanley, T.Jones and M.J.H.McCarthy.
13. **ASiT, Virtual Congress** – February 2021. Expectations and Concerns of Patients Attending a Spinal Outpatient Clinic. T.Jones, A.Stanley and M.J.H.McCarthy.

Orthopaedic

INTERNATIONAL

1. **European Federation of National Associations of Orthopaedics and Traumatology, Helsinki, Finland** - June 2003. Trapezial Space Height Measurement Following Trapeziectomy: A Comparison Of The Use Of Standard And Stress Radiographs.M.Bhat, T.R.C.Davis, A.Bannerjee and M.McCarthy. Runner up best poster prize.
2. **European Federation of National Associations of Orthopaedics and Traumatology, Helsinki, Finland** - June 2003. Plain Radiograph And MRI Assessment Of Acute Scaphoid Waist Fracture Displacement: Their Value For Predicting Fracture Outcome. M.Bhat, M.McCarthy, T.R.C.Davis, J.Oni and S.Dawson.
3. **Societe Internationale de Chirurgie Orthopaedique et de Traumatologie, Marrakech, Morroco** - August 2007. Short Term Outcome of Subtrochanteric Fractures Treated with the New Synthes Proximal Femoral Nail Antirotation. P.M.Guyver, N.P.M.Jain, M.J.H.McCarthy and J.Keenan.
4. **Societe Internationale de Chirurgie Orthopaedique et de Traumatologie- Trainees Forum, Marrakech, Morroco** - August 2007. The Use Of The Abbreviated Mental Test Score In Patients With Fractured Neck Of Femur. N.P.M.Jain, M.J.H.McCarthy, L.P.C.McCarthy and S.Sarasin.
5. **European Federation of National Associations of Orthopaedics and Traumatology, Vienna, Austria** - June 2009. The Accuracy of Pre-Operative Templating in Revision Knee Arthroplasty. P.M.Guyver, N.P.M.Jain, M.J.H.McCarthy, J.Press and J.Keenan.

AUDIT

I actively participate in the bimonthly departmental audit meetings. I have supervised the medical students and junior medical staff performing several audits and clinical evaluation projects (listed above). I collect PROMs on all of my patients and a list of complications, morbidity and mortality. I regularly perform total practice audit for appraisal and revalidation (see website). I regularly collect and analyse the feedback from the courses that I teach on. I am in the process of auditing the Case 14 Low Back Pain medical student teaching program. Previous audits include:

1. The Treatment of Cardiac Arrests in the A+E Department – How Well Are We Following the Resuscitation Council Guidelines? - Jan 2001 M.J.H.McCarthy. Department of Accident & Emergency Surgery, QMC, Nottingham.
2. National Blood Transfusion Audit. M.J.H.McCarthy, February 2006. Department of Trauma and Orthopaedics, Derriford Hospital, Plymouth.
3. DVT Prophylaxis: How well are we following the departmental guidelines? V.Chandra and M.J.H.McCarthy, February 2006. Department of Trauma and Orthopaedics, Derriford Hospital, Plymouth.
4. SHO Use of the Abbreviated Mental Test Score in Patients with Fractured Neck of Femur. M.J.H.McCarthy, S.Sarasin and L.P.C.McCarthy, Dec 2003. Department of Trauma and Orthopaedics, Derbyshire Royal Infirmary.
5. An Audit of NICE Guidelines on Metastatic Spinal Cord Compression Referrals to the Spinal Surgery Service, July 2009. Exeter Spinal Unit, Royal Devon and Exeter Hospital, Exeter.
6. Audit of Cardiff Spinal Unit Referral Form. 1st audit 2020, completed loop 2021.
7. Audit of Cardiff Spinal Brace / Orthotics Form. 1st Audit 2020, ongoing.

CME / PROFESSIONAL MEMBERSHIPS

I am a member of the BMA, BOA, AO Spine and BASS. I am in the process of applying to the BSS. I receive the BMJ, BJJ, ESJ, GSJ and EBSJ. I subscribe to the online TOC for Spine, TSJ and CSS.

COURSES ATTENDED

Jul 1999	Advanced Life Support Provider, Revalidated Sept 2002, Nottingham.
Sept 2000	ATLS Provider, Newcastle.
Nov 2000	Management of the Acutely Ill Medical Patient Course, Nottingham.
Mar 2001	Basic Surgical Skills Course, Derbyshire Royal Infirmary.
Sept 2001	Care of the Critically Ill Surgical Patient Course, Sheffield.
Sept 2002	Certificate for Infection Control Training in Theatre, Nottingham.
Feb 2003	Basic Operative Orthopaedic Skills Course, London RCS.
Sept 2003	Statistical Methods for Surgeons, London RCS.
Nov 2003	AO Painful Spine Course, Newcastle.
Apr 2004	AO Principles of Fracture Fixation (Basic), Edinburgh.
May 2004	AO Injured Spine Course, London.
Aug 2004	USS Seminar, Nottingham.
Sept 2004	AO Spine Masterclass, Nottingham.

Sept 2004	DePuy Posterior Spinal Instrumentation, Stoke-on-Trent.
Sept 2004	Posterior Cervical Spine Workshop, Nottingham.
Dec 2004	Anterior Approaches to the Lumbar Spine (Cadaveric), London RCS (DePuy).
Aug 2005	Approaches to the Foot and Ankle, London RCS.
Oct 2005	Orthopaedic Approaches, Oswestry.
Nov 2005	Exeter Hip Symposium, Exeter.
Feb 2006	Child Protection Course, Derriford, Plymouth.
May 2006	Trauma Care Conference, Telford.
Jan 2007	Basic and Advanced Life Support Revision, Derriford, Plymouth.
Jun 2007	ATLS Provider, Derriford, Plymouth (<i>Invited to become Instructor</i>).
Aug 2007	DePuy Orthopaedic Summer School, Edinburgh.
Feb 2008	Orthofix South Wales External Fixation Course.
Jul 2008	Bone Tumour Study Day, Birmingham.
Sept 2008	Fluoroscanner Image Intensifier Course, Exeter.
Oct 2008	Nottingham Hand Course.
Dec 2008	Bristol Paediatric Orthopaedic Course.
Jan 2009	Bristol FRCS(Orth) Course.
July 2009	ATLS Instructor Course, RCS London .
March 2010	Management of Spinal Metastases (Cadaveric), RCS London (DePuy).
May 2010	Keele Clinical Management Course.
Aug 2010	AO Advanced Lumbar Spine Course, Xi'an China.
Sept 2010	DePuy Lumbar Spine Course, Sydney, Australia.
Oct 2010	Synthes Surgical Approaches Course, Brisbane, Australia.
Feb 2011	AO Masters Course, Sydney, Australia.
Sept 2011	AO Trauma and Tumour Course, Sheffield.
Nov 2011	AO Controversies Course, Cardiff.
May 2012	Dilemmas in Deformity, Dartington.
Sept 2012	XLIF Course, New York.
Apr 2013	iFuse, SI Bone, Cardiff.
Apr 2013	NHS Appraiser Training, Cardiff.
May 2013	Ageing Spine, MERC, London.
Jun 2013	BioSkills Lab Training, Globus Medical, Philadelphia.
Jun 2013	Trainer Development Day, Cardiff.
Sept 2013	Training Orthopaedic Trainers, Cardiff.
Jun 2014	Dilemmas in Deformity, Dartington.

Jun 2015	Complications in Spinal Surgery, London.
Oct 2015	Sporting Spine, Cardiff.
Jun 2016	Complications in Spinal Surgery, London.
Jun 2016	Dilemmas in Deformity, Dartington.
Nov 2016	Deanery Day, Cardiff.
Jan 2017	TOES, Cardiff.
Nov 2017	Team Manager 1, WSA, Cardiff.
Mar 2018	Team Manager 2, WSA, Cardiff.
Jun 2018	Dilemmas in Deformity, Dartington.
Oct 2018	GCP, Cardiff.
Jan 2019	NOTTS, Cardiff.
Oct 2019	UK Coaching Safeguarding and Protecting Children, Cardiff.
Nov 2019	Team Manager 3, WSA, Cardiff.
Jun 2020	Firefly: 3D Printed Spinal Navigation Webinar
Sept 2020	CESS SHOT Fellowship in Endoscopic Spine Surgery (On Line)
Jan 2021	Medico Legal Essentials Course
Jan 2021	Clinical Negligence Course

SOCIETY MEETINGS ATTENDED

Jan 1998	International Anatomical Society Annual Meeting, Newcastle.
Apr 2003	British Scoliosis Society Annual Meeting.
Jun 2003	British Orthopaedic Oncological Society Annual Meeting, Stratford.
Sept 2003	British Society for Surgery of the Hand Autumn Meeting, London.
Apr 2004	Britspine, Nottingham.
Nov 2004	Society of Low Back Pain Research, Leicester.
Sept 2005	Eurospine, Barcelona.
Sept 2005	British Orthopaedic Association, Birmingham.
May 2006	Trauma Care Conference, Telford.
Oct 2007	British Trauma Society, Nottingham.
Oct 2007	South West Orthopaedic Club, Wick Nr Bath.
Apr 2008	South West Orthopaedic Club, Plymouth.
Mar 2009	South West Orthopaedic Club, Taunton.
June 2009	South West Spine Club, Cornwall.
Oct 2009	Inspiration 9 th Annual Meeting, Scientix, Monaco (Clinical cases presented).

Jan 2010	South West Spine Club, Bath.
Apr 2010	South West Orthopaedic Club, Plymouth.
Apr 2010	Britspine, Liverpool.
Apr 2011	Spine Society, Melbourne, Australia.
June 2012	South West Spine Club, Saunton Sands, Devon.
Mar 2013	South Wales Cancer Network, Acute Oncology Meeting, Port Talbot.
Nov 2013	5 th Annual Metastatic Spinal Cord Compression Meeting, Birmingham.
Nov 2013	Society of Back Pain Research, London.
Jan 2014	South West Spine Club, Bristol.
Apr 2014	Britspine, Warwick.
Jun 2014	South West Spine Club, Devon.
Jul 2014	Cardiff Registrars Day.
Sep 2015	Eurospine, Copenhagen.
Jan 2016	South West Spine Club, Newport.
Sep 2016	Eurospine, Berlin.
Jan 2017	South West Spine Club, Bowood.
Jun 2017	South West Spine Club, Saunton Sands.
Sep 2017	Eurospine, Belfast.
Apr 2018	Britspine, Leeds.
Sep 2018	Eurospine, Barcelona.
Jun 2019	South West Spine Club, Swansea.
Sep 2019	Eurospine, Finland.
Nov 2019	BSS, Cardiff.
Oct 2022	Eurospine, Milan.

RESPONSIBILITY / MANAGEMENT

1996-7	Honours Year Representative at medical school.
2000-4	SHO Education Feedback Representative at the Annual Postgraduate Dean Education Review for Accident and Emergency, General Surgery, Neurosurgery and Spinal Surgery.
2004-5	Administrative SHO in Spinal Surgery. I have contributed and written part of the 1 st Edition of the QMC Spinal Unit Junior Doctor's Induction Handbook.
2006	Examiner Peninsula Medical School ISCE.
2005-7, 9	SpR Rota Coordinator.
2009	Development of Exeter Spinal and MSCC Referrals.

2012 on	Development of department consent forms for cervical, lumbar and generic spinal surgery.
2013 on	Trained NHS Appraiser.
2013 on	Clinical Supervisor.
2014 on	Development of Department Guidelines on MSCC.
2015 on	Educational Supervisor.
2015 on	Case Lead Low Back Pain Undergraduate Teaching Cardiff Medical School.
2017 on	Examiner Cardiff Medical School.
2018	Lead for Spinal Teaching on Regional SpR Teaching Program.
2018 on	Development of Department Guidelines on Spinal Infection.
2019 on	Development of Department Electronic Spinal Referral Form, Spinal Clearance Protocol, Spinal Orthotics - Collar and Brace Form, Post Operative Guidelines Form, Manual Handling of Acute Spinal Injuries Guidelines.

TEACHING EXPERIENCE

2001	Anatomy Demonstrator, Nottingham Medical School. Voluntary basis during orthopaedic SHO job.
2001-5	Ward Based Teaching of the Clinical Medical Students.
2004	Informal Teaching and Support of Junior Colleagues and Physiotherapists. Lecture Nottingham Back Team on Cauda Equina Syndrome (May).
2005-7	Formal and Informal Teaching of SpRs, SHOs and Medical Students.
2008	Assistant Supervisor for MSc Engineering Student, Bath University. Lag Screw Cut Out In Osteoporotic Bone: A Laboratory Investigation.
2009	Spinal Teaching on Regional SpR Teaching Program.
July 2009	Qualified ATLS Instructor.
Dec 2009	Faculty ATLS Plymouth.
Feb 2010	Faculty ATLS Stevenage.
Mar 2010	Cervical Spine Instrumentation, Taunton.
Jul 2010	Regular Presentations at AO Spine Meetings in Brisbane, Australia.
Oct 2011	Faculty ATLS Falmouth.
May 2012	Faculty for Surgi C Spinal Surgery Current Concepts Course Degenerative, Chepstow.
June 2012	Faculty for Spinal Surgery for the FRCS(Tr&Orth) Course, Cardiff.
June 2012	Faculty for FRCS(Tr&Orth) VIVA Course, Cardiff.
Nov 2012	Faculty ATLS Cardiff.

Nov 2012	Faculty ATLS Falmouth.
Jan 2013	Faculty MSc Orthopaedic Engineering.
Jan 2013	Faculty for FRCS(Tr&Orth) VIVA Course, Cardiff.
Apr 2013	Faculty MSc Trauma Surgery, Morriston.
May 2013	Faculty for Surgi C Spinal Surgery Current Concepts Course Deformity, Cardiff.
Jun 2013	Faculty for Spinal Surgery for the FRCS(Tr&Orth) Course, Cardiff.
Jul 2013	Faculty for FRCS(Tr&Orth) VIVA Course, Cardiff.
Oct 2013	GPVTS Spinal Teaching, Cardiff.
Nov 2013	Faculty ATLS Cardiff.
Nov 2013	Faculty ATLS Merthyr Tydfil.
Nov 2013	Intermediate Theatre Practitioners Course, Globus Medical, Cardiff.
Dec 2013	Spinal Patient Education Class (Video), Cardiff.
Jan 2014	Faculty for Spinal Surgery for the FRCS(Tr&Orth) Course, Cardiff.
Jan 2014	Faculty MSc Orthopaedic Engineering.
Apr 2014	Faculty Globus MIS Techniques and Principles, Philadelphia.
May 2014	Faculty ATLS Brecon.
May 2014	Faculty Current Concepts Course Unstable Spine, Cardiff.
June 2014	Faculty Globus Complications Spine Surgery, Warwick.
Jun 2014	Faculty Spinal Surgery for the FRCS(Tr&Orth) Course, Cardiff.
Nov 2014	GPVTS Spinal Teaching, Cardiff.
Nov 2014	Faculty ATLS Cardiff.
Nov 2014	GP Talk Causes and Cures of Low Back Pain, Cardiff.
Mar 2015	Faculty Globus MIS, Philadelphia.
May 2015	Faculty Current Concepts, Cardiff.
May 2015	Faculty MSc Trauma Surgery, Swansea.
Jun 2015	Course Chair Globus Fellows Course, Philadelphia.
Jul 2015	Faculty Spinal Surgery for the FRCS(Tr&Orth) Course, Cardiff.
Oct 2015	GPVTS Spinal Teaching, Cardiff.
Oct 2015	Regional SpR Neurology Teaching, Cardiff.
Apr 2016	GP Teaching, Vale Hospital, Cardiff..
Apr 2016	Faculty Globus MIS, Philadelphia.
May 2016	Faculty Current Concepts, Cardiff.
May 2016	Faculty ATLS, Cardiff.
Jun 2016	Faculty Globus Complications Course, London.

Sep 2016	Faculty Spinal Surgery for the FRCS(Tr&Orth) Course, Cardiff.
Sep 2016	Faculty Globus Sagittal Balance Course, Cape Town.
Oct 2016	Regional SpR Oncology Teaching, Cardiff.
Nov 2016	GPVTS Spinal Teaching, Cardiff.
May 2017	Faculty Current Concepts, Cardiff.
Jun 2017	Course Chair Globus Fellows Course, Philadelphia.
Oct 2017	GPVTS Spinal Teaching, Cardiff.
Oct 2017	Faculty AO Spine Simulation Traingin, Cardiff.
Nov 2017	Faculty ATLS, Cardiff.
Apr 2018	MRCS Spinal Teaching, Cardiff.
May 2018	Course Chair Globus MIS, Manchester.
Jun 2018	Course Chair Globus Fellows Course, Philadelphia.
Jul 2018	Faculty Current Concepts, Cardiff.
Sept 2018	Lead for Spinal Teaching on Regional SpR Teaching Program.
Oct 2018	Faculty Globus Sagittal Balance Course, Madrid.
Jan 2019	Faculty Spinal Surgery for the FRCS(Tr&Orth) Course, Cardiff.
Apr 2019	Faculty Globus Sagittal Balance Course, Vienna.
Jun 2019	Course Chair Globus Fellows Course, Philadelphia.
Sep 2019	Faculty Current Concepts, Cardiff.
Oct 2019	GPVTS Spinal Teaching, Cardiff.
Mar 2020	Course Chair Globus MIS Course, Geneva.
May 2020	Course Chair Globus: Inspiring the Next Spine Surgeons for Registrars and Fellows: What Approach and Why? Live Webinar.
Apr 2021	GPVTS Spinal Teaching, Cardiff.
May 2021	Course Chair Globus: Beyond Fellowship: What to Expect My First Years in Practice. Live Webinar.
Nov 2021	MTEG Spinal Trauma Teaching, Cardiff.
Jun 2022	Course Chair Globus Fellows Course, Cologne.
Jul 2022	Organiser and Chair – Inaugural Cardiff Spinal Surgery Research Symposium.
Nov 2022	Course Chair Globus Thoracolumbar Considerations and Strategies Course, Clogne.
2015 on	Case Lead Low Back Pain Undergraduate Teaching Cardiff Medical School.
2017 on	Examiner Cardiff Medical School.

INFORMATION / TECHNOLOGY

I am competent in word processing and in the formation of electronic spreadsheets and reference databases. I regularly use PowerPoint for presentations at hospital, regional and international meetings. My research has exposed me to advanced data capture and analysis. In preparation for the Clinical Fellow in Spinal Surgery post I attended the Statistical Methods for Surgeons course held at the Royal College of Surgeons. This improved my understanding of statistical principles and applications. I have subsequently completed a module in statistics whilst undertaking my Masters Degree.

GENERAL INTERESTS

I enjoy swimming, gardening and photography.

CAREER AIMS

Both my academic and surgical interests lie within Spinal Surgery, particularly, the technical challenges and the wide range of interventions that it offers in deformity, tumour and complex fracture surgery. I enjoy the wide range of pathology and neuropathology seen in Spinal Surgery and anatomy associated with the different approaches to the spine. I take a keen interest in teaching and would like to further develop this skill. I would like to continue being involved in the medical education of both undergraduate and postgraduate trainees.

REFEREES

Mr.D.Chan
Senior Consultant Orthopaedic Spinal Surgeon

Mr P.Davies
Consultant Spinal Surgeon

Mr.P.Thorpe
Consultant Spinal Surgeon