

ASH KHURANA

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Consultant Orthopaedic & Spinal Surgeon
Honorary Lecturer
Aneurin Bevan University Health Board
Royal Gwent Hospital, Newport

Treasurer – British Association of Spinal Surgeons (**BASS**; Exec Team member, **Ex Professional Practice lead** 2020 to 2022)

Ex Education Committee & Exec member,
British Indian Orthopaedic Society (BIOS)

Current professional involvements:

National T&O SAC (Specialty Advisory Committee) Member

FRCS T&O Examiner - JCIE

HEIW Generic curriculum teacher

Medical Student SSC supervisor

Ex-Lead Editor for UKITE in-training exam

Appraiser - ABUHB, NHS

Clinical Governance lead, T&O, ABUHB

Examiner & Interviewer, Cardiff University

Reviewer for various journals including

Bone & Joint Journal - Previously JBJS(B)

Member IAG, South Wales Police

Ex Faculty for

MSc (Orth. Engin), Cardiff

FRCS (T&O) - Spine course, Cardiff

Nspine - *The comprehensive spine course*

Orthotrainer - *ST3 (T&O) interview skills*

GMC Number: 6073667 (On Specialist

Register with CCT in T&O)

On the GMC medicolegal expert panel

Curriculum Vitae

I am a Consultant Orthopaedic Surgeon with special interest in spinal pathologies and trauma. After completing my FRCS (T&O), I undertook the prestigious Advanced Spinal Fellowship at Queen's Medical Centre, Nottingham. I undertake high volume spinal and trauma surgeries on elective and emergency basis. I use the deeper understanding of mechanical principles in surgically treating my patients and maintain a full record of PROMS (Patient reported Outcome Measures) in my clinical practice.

Professional Qualifications:

MB BS	1999 MS University, India
MS (Orthopaedics)	2003 MS University, India
MRCS	2005 RCS Ed (Intercollegiate)
MSc (Orth Engineering)	2008 Cardiff University
FRCS (Trauma & Orthopaedics)	2012 Intercollegiate Specialty Boards, UK
LLM (Legal Aspects of Medical Practice)	2015 Cardiff University
(Thesis - Clinical Negligence in Cauda Equina Syndrome)	

Merit & Awards:

BAPIO national award for clinical excellence, 2022

Gwent travelling Fellowship, 2012, Hong Kong

Welsh Registrar's Day 2008: Best presentation

MSc (Orth Engineering): Distinction in 1st year

AO Course: AO Principles book for pre-op planning

MB BS: Merits & Distinctions, MS University, Baroda

Professional Memberships

British Association of Spinal Surgeon (Exec team member)

British Scoliosis Society

British Orthopaedic Association

British Medical Association

British Indian Orthopaedic Association

Professional Experience

Fellowships (Out of Programme Experience)

Senior Spinal Fellow (With prospective approval from the SAC & GMC)

Centre for Spinal Studies & Surgery, QMC, Nottingham Aug 12 to July 13

This fellowship was accredited by RCS Eng as Advanced Spinal Fellowship.

Visiting Clinical Fellow

July 2012

Duchess of Kent and Queen Mary Hospitals, Hong Kong

Previous Appointments

Specialist Registrar, Trauma & Orthopaedics (On Wales Training Rotation)

Royal Gwent Hospital, Newport

Aug 11 to July 12

Spines

Greg Jones

James Cordell-Smith

Nevill Hall Hospital, Abergavenny

Aug 10 to July 11

Sports & Spines

Atif Nada

Lower limb arthroplasty

Robin Rice

Morrison Hospital, Swansea

Aug 09 to July 10

Paediatric Orthopaedics

Neil Price, Paul Williams

Foot & Ankle

UK Choudhuri, Paul Williams

University Hospital of Wales, Cardiff	Aug 07 to July 09
Spines	Paul Davies, John Howes, Sashin Ahuja, A Jones
University Hospital of Wales, Cardiff	Aug 07 to July 09
Shoulder / Sports	Richard Evans, Rhys Williams, Angus Robertson
Lower limb arthroplasty	Chris Wilson, Steve Jones, Alun John
Ysbyty Gwynedd, Bangor	Dec 06 to July 07
Shoulders & Hip	Mel Jones

Previous Appointments

Trauma Fellow and Clinical Research Fellow	Feb 06 to Dec 06
Royal Gwent Hospital, Newport	
Hand & Upper limb	Rob Savage & Ro Kulkarni
Senior House Officer, Trauma & Orthopaedics	Aug 05 to Feb 06
Royal Gwent Hospital, Newport	K Hariharan
Senior House Officer, Accidents & Emergency	Feb 05 to Aug 05
University Hospitals of Leicester	A Kumar
Senior House Officer, Trauma & Orthopaedics	Aug 04 to Feb 05
Royal United Hospital, Bath	J L Pozo, Mathew Burwel

Research and Publications:

I am a reviewer for the following journals:

Bone and Joint Journal (Previously JBJS (B))
Indian Journal of Orthopaedics
Core Surgery

My published articles include:

- 1) **Book Chapter: Surgical versus Nonoperative Treatment for Lumbar Spinal Stenosis Four-Year Results of the Spine Patient Outcome Research Trial.** Abdul Nazeer Moideen, Ashish Khurana; **50 Studies Every Orthopaedic Surgeon Should Know**; ISBN: 9780190096656 Oxford University Press; June 2024
- 2) **Accuracy of the revised Tokuhashi score in predicting survival in patients with metastatic spinal cord compression (MSSC).** Quraishi NA, Manoharan SR, Arealis G, Khurana A, Elsayed S, Edwards KL, Boszczyk BM. Eur Spine J. 2013 Mar;22 Suppl 1:S21-6. doi: 10.1007/s00586-012-2649-5. Epub 2013 Jan 18.
- 3) **Intracranial hypotension with a sixth cranial nerve palsy subsequent to massive thoracic CSF hygroma:** a rare complication of thoracic disc excision. Khurana A, Brousil J, Russo A, Evans A, Quraishi NA, Boszczyk BM. Eur Spine J. 2013 Jun.
- 4) **Comparison of aprotinin and tranexamic acid in adult scoliosis correction surgery.** Khurana A, Ahuja S et al. Accepted for publication in European Spine Journal. Mar 2012 DOI: 10.1007/s00586-012-2205-3
- 5) **Percutaneous sacro-iliac joint fusion with HMA screws: functional and radiological outcome.** Khurana A, Guha A, Mohanty K, Ahuja S, 2009. JBJS (Br) 2009; 91-B: 627-31.
- 6) **Weil osteotomy: Assessment of medium term results and predictive factors in recurrent metatarsalgia.** Khurana A, Kadambande S, James S, Tanaka H, Hariharan K. Accepted for publication in Foot and Ankle surgery. July 2010 doi:10.1016/j.fas.2010.04.003
- 7) **The anatomy of anatomy: A review for it's modernization.** Sugand K, Abrahams P, Khurana A. Anat Sci Educ. Mar 2010; 3 (2):83-93.
- 8) **Comparison of transverse wires and half pins in Taylor Spatial Frame: A biomechanical study.** Khurana A, Byrne C, Evans S, Tanaka H, Hariharan K. Journal of Orthopaedic Surgery and Research, Mar 2010, 27;5:23.

- 9) **Dermabond wound closure in total hip arthroplasty.** Khurana A, Parker S, Goel V, Alderman PM; Acta Orthop. Belg. 2008, 74(3); 349-353.
- 10) **Appropriateness and outcome of acute GP referrals to Orthopaedics.** Khurana A, Kadambande S, Kulkarni R; Health Services Journal, Jan 2007
- 11) **Rheumatoid forefoot reconstruction- 1st MTPJ fusion and excision arthroplasty of lesser metatarsals.** Kadambande S, Khurana A, Hemmadi M, Hariharan K; Acta Orthop. Belg. 2007 Feb ; 73(1) : 88-95
- 12) **Extensive pigmented villonodular synovitis of the foot and ankle.** Khurana A, Kadambande S, Hariharan K; The Foot 16 (2006) 214-215
- 13) **Anthropometric analysis of shod and unshod feet – A comparative study.** Kadambande S, Khurana A, Bansal M, Hariharan K; The Foot 16 (2006) 188-191
- 14) **Retrograde Ender nailing for humerus shaft fractures.** Khurana A, Modi H, Mathur H, Daveshwar H, (2008). Acta Orthopaedica Belgica. 2009, 75 (5):599-605.
- 15) **Minimally invasive technique for the management of comminuted fracture of the tarsal navicular bone.** Pendse A, Al-Naser S, Khurana A, Gadgil A, Fanarof H: The Internet Journal of Orthopaedic Surgery. Vol 5(1) 2007.
- 16) **Evaluation of efficiency and safety of JT 2000 in osteoarthritis – A comparative clinical trial.** Mathur H, Khurana A, Srivastava D; Medicine Update Vol 11(9); 31-37, 2004
- 17) **Sideswipe injury in lower limbs: Mechanism and Management.** Khurana A, Hariharan K
Published on AO website: www.aofoundation.org ; Aug 2006
- 18) **Why I became a surgeon** as a selected entry in a competition organized by The Royal College of Surgeons of Edinburgh. Surgeons News, Vol 5.2; 65-66, April 2006
- 19) **Do check X-rays influence the management of patients who have undergone hip fracture fixation using image intensifier guidance?** Khurana A; Injury. 2007 Mar;38(3):392
- 20) **Quadriceps and patellar tendon rupture.** Khurana A; Injury. 2007 Nov;38 (11):1327-8

Presentations (*National and International*):

- 1) **Clinical Negligence in Cauda Equina Syndrome.** South West Spinal Meeting, Jan 2016
- 2) **Giant Calcified Thoracic Disc Herniations – Considerations and Treatment Strategies.** Khurana A, Tsegaye M, Mehdian SMH, Boszczyk BM, Quraishi N
British Association of Spinal Surgeons, Norwich, March 2013
- 3) **Re-operation Rates in the Surgical Treatment of Patients with Metastatic Spinal Cord Compression (MSCC).** Khurana A, Manoharan SR, Edwards KL, Boszczyk BM, Quraishi NA
 - a) British Association of Spinal Surgeons, Norwich, March 2013
 - b) International Meeting on Advanced Spine Techniques, Vancouver, July 2013
- 4) **Fusion rate of stand-alone anterior lumbar interbody fusion with bone morphogenetic protein-2 for the treatment of degenerative disc disease with and without spondylolisthesis.** Behrbalk E, Uri O, Khurana A, Parks RM, Boszczyk BM
British Association of Spinal Surgeons, Norwich, March 2013
- 5) **Medium term outcomes of Bac Jac – an interspinous spacer device.** Khurana A, Jones G.
Welsh Registrar Day, July 2012 (*Podium*)
- 6) **Evaluation of Exogen® in fracture healing.** Khurana A, Rice R.
Welsh Registrar Day, July 2011 (*Podium*)
- 7) **Comparative analysis of Exeter Trauma Stem hip hemiarthroplasty with Logic mono-block hemiarthroplasty stem: A surgeon satisfaction survey.** Paringe V, Brown C, Khurana A, Mohanty K. EFORT, Copenhagen, June 2011 (*Poster*)
- 8) **Changing Trends in Pre-Operative Antibiotic Prophylaxis for Proximal Femoral Fractures: In Perspective of C Difficile associated Diarrhoea.** Paringe V, Mosley-Lynch C, Khurana A, John A, Mohanty K. British Trauma Society, May 2011. (*Poster*)
- 9) **Neurological status documentation in upper limb fracture patients.** Uppin ES, Khurana A, Choudhuri UK.
 - a) Royal College of Surgeons Audit Symposium, Feb 2011 (*Podium*)
 - b) British Trauma Society, May 2011 (*Podium*)
- 10) **Dislocation rate after revision hip arthroplasty using large diameter femoral heads.** Khurana A, Ganapathi M, Clatworthy E, Maheson M, Jones S, John A.
British Hip Society, Sheffield, Feb 2010. (*Poster*)
- 11) **Traumatic proximal femoral birth fracture presenting as a dislocated hip: A case report.** Karran A, Khurana A, Evans R, Williams PR.
Pan-celtic meeting, Ireland, June 2010. (*Poster*)
- 12) **Post-operative reduction in Haemoglobin is related to rise in Troponin T following hip fracture surgery.** Abdul W, Khurana A, Mukhopadhyay S, Mohanty K.
 - a) British Hip Society, Sheffield, Feb 2010. (*Podium*)
 - b) British Trauma Society, Manchester, May 2010 (*Podium*)

- 13) **Removal of foot K wires in outpatient clinic: The patient experience.** Khurana A, Prasad V, Thomas R. BOFAS, Old Windsor, Nov 2009. (*Poster*)
- 14) **Representation – rehospitalisation following foot and ankle surgery.** Ruth NK, Guha A, Khurana A, Hemmadi S, O'Doherty D.
a) British Orthopaedic Association (BOA), Manchester, Sep 2009 (*Podium*)
b) BOFAS, Old Windsor, Nov 2009 (*Podium*)
c) EFORT, Madrid, May 2010(*Poster*)
- 15) **Femoral head histology in suspected pathological fractures of the femoral neck.** Guha A, Khurana A, Ramasamy R. British Orthopaedic Association (BOA), Manchester, 2009 (*Poster*)
- 16) **Rehospitalisation rates following total hip replacement.** James G, Rowlands C, Khurana A, Guha A, Jones S. British Orthopaedic Association (BOA), Manchester, Sep 2009 (*Poster*)
- 17) **Re-hospitalisation rates following Total Knee arthroplasty.** Rowland C, Khurana A, Jones S.
a) British Orthopaedic Association (BOA), Manchester, Sep 2009(*Poster*)
b) British Association for Surgery of the Knee (BASK), Edinburgh, April 2009 (*Poster*)
- 18) **Comparing motion capture with image registration to study the errors associated with quantifying knee kinematics.** Whatling GM, Khurana A, Wilson C, Holt C et al. British Association for Surgery of the Knee (BASK), Edinburgh, April 2009 (*Podium*)
- 19) **Economics of ankle fractures.** Khurana A, Paringe V, Drew E, Mohanty K. British Trauma Society (BTS), Newcastle, May 2009 (*Podium*)
- 20) **Starving for hip fracture surgery.** Khurana A, Jenner R, Mohanty M. British Trauma Society (BTS), Newcastle, May 2009 (*Poster*)
- 21) **Comparison of transverse wires and half pins in Taylor Spatial Frame – A Biomechanical study.** Khurana A, Tanaka H, Hariharan K.
a) Welsh Registrar's Day, July 2008 (*Podium*) (*Awarded best scientific presentation*)
b) British Orthopaedic Foot & Ankle Society (BOFAS), Liverpool, Nov 2008, (*Podium*)
c) British Trauma Society (BTS), Newcastle, May 2009 (*Poster*)
- 22) **Percutaneous HMA screw fusion for Sacro- Iliac Joint.** Khurana A, Mohanty K, Ahuja S.
a) BritSpine Meeting, Belfast, May 2008 (*Podium*)
b) British Orthopaedic Association Annual Congress (BOA), Liverpool, Sep 2008 (*Podium*)
c) Welsh Orthopaedic Society, Bridgend, May 2008 (*Poster*)
- 23) **The effect of blood conservation measures in adult scoliosis correction surgery.** Khurana A, Guha A, Jones A, Howes J, Pugh S, Davies PR, Ahuja S.
a) BritSpine Meeting, Belfast, May 2008 (*Poster*)
b) Welsh Orthopaedic Society Meeting, Bridgend, May 2008 (*Poster*)
c) British Scoliosis Society Annual Meeting (BSS) , London, Sep 2008 (*Podium*)
d) British Orthopaedic Association Annual Congress (BOA), Liverpool, Sep 2008 (*Podium*)
- 24) **Consent for Spinal Surgery: How much does the patient want to know?** Batra S, Khurana A, Jones DG, Jones A, Davies PR, Ahuja S. BritSpine Meeting, Belfast, May 2008 (*Podium*)

- 25) **Dysfunctional Uterine Bleeding following scoliosis surgery** Khurana A, Ahuja S et al
a) British Scoliosis Society Annual Meeting (BSS), London, Sep 2008 (*Podium*)
b) British Orthopaedic Association Annual Congress (BOA), Liverpool, Sep 2008 (*Poster*)
- 26) **Psychosocial impact of Perthe's disease.** Khurana A, Kadambande S, Goel V, Tayton KJ.
a) Welsh Registrar's Day, Cardiff, July 2008 (*Podium*)
b) BSCOS, Taunton, Jan 2008 (*Podium*)
c) 9th EFORT Congress, Nice, France, May 2008 (*Podium*)
- 27) **Carbon Footprints of Higher Surgical Training in Orthopaedics.** Khurana A, Jones MW.
a) Welsh Orthopaedic Society, Bridgend, 2008 (*Podium*)
b) 9th EFORT Congress, Nice, France, May 2008 (*Podium*)
- 28) **Dermabond Wound Closure in Primary Hip Arthroplasty.** Khurana A, Parker S, Alderman PM. 9th EFORT Congress, Nice, France, May 2008 (*Podium*)
- 29) **Trauma Surgery: An occupational hazard?** Khurana A, Tanaka H.
a) British Trauma Society, Leeds, Oct 2006 (*Podium*)
b) 8th EFORT Congress, Italy, May 2007 (*Podium*)
- 30) **The Metatarsal Skyline view and medium term follow up of Weil's osteotomy.** Khurana A, Kadambande S, James S, Tanaka H, Hariharan K.
a) British Orthopaedic Foot & Ankle Society, Cheshire, UK, Nov 2006 (*Poster*)
- 31) **Cross Specialty Referrals in Orthopaedics.** Khurana A, Kulkarni R. 8th EFORT Congress, Italy, May, 2007 (*Podium*)
- 32) **The Metatarsal Skyline view: A radiographic assessment of the transverse metatarsal arch.** Hariharan K, Khurana A, Kadambande S, James S, Tanaka H. International Federation of Foot and Ankle Societies, France, July 2006 (*Podium*)
- 33) **Foot Function following operative fixation of displaced intra-articular calcaneal fractures.** Khurana A, Kadambande S, Hariharan K.
a) 7th European Trauma Congress, Slovenia, May 2006 (*Podium*)
b) Pan Celtic Orthopaedic Meeting, Ayrshire, June 2006 (*Poster*)
- 34) **Calcaneal osteosynthesis using Tension Band Wiring.** Khurana A, Kadambande S, Hariharan K. 7th European Trauma Congress, Slovenia, May 2006 (*Poster*)
- 35) **Rheumatoid forefoot reconstruction- 1st MTPJ fusion and excision arthroplasty of lesser metatarsals.** Khurana A, Kadambande S, Hariharan K. Pan Celtic Orthopaedic Meeting, Ayrshire, June 2006 (*Podium*)
- 36) **Follow up following ACL reconstruction: The gwent experience.** Deogoankar K, Monaghan J, Khurana A, Lewis M, Mintowt-Czyz W J. Pan Celtic Orthopaedic Meeting, Ayrshire, June 2006 (*Poster*)
- 37) **How big is the defect in the late aseptic TKR Osteolysis?** Kankate R, Khurana A, Pozo J L. British Association for Surgery of the Knee (BASK), Gateshead, March 2005 (*Podium*)

Thesis:

Clinical Negligence in Cauda Equina Syndrome.

Dissertation accepted as a part of 2nd year LLM (Legal Aspects of Medical Practice) at Cardiff University. The study reviewed all the cases regarding the Cauda Equina Syndrome tried in the British courts and the NHSLA data over 10 years *Institute: Law School, Cardiff University.*

Comparison of stiffness of Taylor Spatial Frame applied using half pins and transverse wires - A biomechanical study.

Dissertation accepted as a part of 2nd year MSc (Orthopaedic Engineering) at Cardiff University. The study compared axial and torsional stiffness of TSF frame constructed with half pins and transverse wires. *Institute: Department of BioMechanical Engineering, Cardiff University.*

Evaluation of Medium – Long term results of cemented total hip arthroplasty. Dissertation accepted by M.S. University, Baroda, India, for MS examination in Dec 2002. A retrospective study involving radiological and clinical assessment of 64 patients with follow up of 5 to 16 years (mn9.6).

Audit:

I have been **Clinical Governance and Audit lead** for Trauma & Orthopedics at Aneurin Bevan University Health Board since 2019. I have inspired several audit by junior doctors and associates for enhanced compliance and defining standards for maintaining and improving overall patient care. I have lead the unit with clinical governance for quality improvement initiatives for better communication, documentation, service provision and outcomes.

- 1) Evaluation of the Cauda Equina Service:** Times for scans, surgery, documentation and the outcomes. *Audit Stage:* continuing audit. Evaluated the times taken to perform MRI scan and the time to surgery with a correlation to the clinical outcomes and GIRFT pathways. July 2023
- 2) MSCC - Timing of Investigation, Surgery and Outcome.** Presented this continuing audit in the East Midlands regional meeting (NSSG) as an ongoing regional audit. Oct 2012
- 3) Fasting for hip surgery.** University Hospital of Wales, Cardiff
Audit Stage: initial audit. *Recommendation:* 'NBM' time should start depending on the patient's position on the trauma list rather than the midnight before. *Outcome:* Re-audit in 6 months.
- 4) Efficiency and outcome of spines trauma lists.** University Hospital of Wales, Cardiff, Dec 2008 *Aim:* To evaluate the standard of care provided in the tertiary spinal unit.
Change in practice: Following acute surgical intervention, patients are transferred to the referring peripheral hospitals for further rehabilitation as soon as it is safe to improve efficiency further. The areas needing improvement and more resource allocation identified.
- 5) Re-hospitalisation rates following Total Hip and Knee arthroplasty.** University Hospital of Wales, Cardiff, May 2008. *Audit Stage:* Initial audit. *Recommendation:* First follow-up now scheduled within 2 weeks. *Re-audit:* in 12 months.

- 6) **Tariff Audit for shoulder and elbow surgeries.** Khurana A, Kulkarni R
A nationwide audit performed on behalf of BESS (British Elbow and Shoulder Society) to assess the differences in tariffs for various shoulder and elbow procedures.
- 7) **Legibility and compliance of notes.** PanGwent clinical governance meeting, July 2006. *Audit stage:* Audit & re-audit for closure of the loop. *Aim:* To compare the results with the standard practice described in the RCS guidelines. *Change in practice:* A team based structure for cross-cover rather than ad-hoc cross-cover arrangements established.
- 8) **Cross specialty referrals in Orthopaedics.** PanGwent clinical governance meeting, June 2006. *Audit stage:* Initial audit. *Recommendation:* Sub-specialist care for complex trauma fracture had higher patient satisfaction and should be encouraged.
- 9) **GP referrals to Orthopaedics: A&E waits, types and outcomes.** PanGwent clinical governance meeting, Mar 2006. *Audit stage:* Initial audit. *Change in practice:* Rapid access back pain clinics were made available to GPs to avoid undue referrals to AE. Refresher courses for GPs recommended.
- 10) **Management of Shoulder Dislocation in A&E.** *Audit stage:* Audit & re-audit for closure of the loop. *Change in practice:* A&E case cards re-designed with dedicated mandatory bold columns for pain scores, analgesia and time documentation on the front. A 'pain nurse' was appointed with a sole responsibility of ensuring pain relief in the trauma patients.
- 11) **Prophylactic Antibiotics in Elective Orthopaedic Surgeries.** PanGwent clinical governance meeting, Mar 2004.

Teaching Experience:

I am very enthusiastic about teaching and assessment of medical undergraduates on clinical placement at the Health Board hospitals. I regularly train undergraduate students during their clinical placements within the Core Programme and help with their Student Selected Components (SSCs) as required. I have been teaching the undergraduate (2nd year) students during the Spinal block (Case 14) for several years and have received positive feedback.

I have been an examiner for Year 2 and 4 ISCE undergraduate exams at Cardiff University for the past 4 years and have been an interviewer for admissions to Cardiff Medical School for 3 years. As junior doctors lead, I ran an effective teaching programme for Orthopaedic Junior doctors at Royal Gwent Hospital, delivering and organising teaching every Wednesday lunch time. This programme covered common Orthopaedic presentation and its management and also catered to the undergraduate students who are on a placement within the unit.

I have been a tutor for MSc (Ortho. Engineering), Cardiff University and for FRCS (T&O) Spines course at WIMAT, Cardiff. I have been a faculty member for **Nspine**, an exciting and novel comprehensive Spinal course hosted by Nottingham Spinal Unit, aimed not only at the spinal surgeons but also at all allied specialties. www.nspine.co.uk.

My teaching role is formally recognized by Cardiff University as a lecturer. I am also FRCS examiner for Trauma & Orthopaedics.

Medico-legal and relevant courses/ conferences:

2013 to 2024	British Association of Spinal Surgeons or Brit spine annual conference, often chairing sessions as an exec member.
2018 to 2024	Online Medco accreditation
2020 to current	Tutor on generic curriculum course for consultants and junior doctors by HEIW (Health Education and Improvement Wales) – on Consent and Medical law
2024	Specialist Info Medo-legal Conference, London
2015, 2018, 2021, 2023	Premex Medico-legal conference, Birmingham/ Bolton
2018, 2019	British Orthopaedic Association – Annual Conference
2014 to 2020	NHS Appraisal regional annual conference
2014 to 2019	South West Spinal Conference
Oct 2013	Future Leaders of Spinal Surgery, Cambridge
Oct 2013	Mastering difficult consultations, MPS Education, Cardiff
July 2013	Summer University – Complex degenerative spine
June 2013	Performance Management and Training the trainer course, Latitude U
Nov 2009	Medical Law: Generic curriculum course, Cardiff
Aug 2008	Medical Statistics Course (Online), RCS Ed & Bath University
Sep 2007	Posterior Spines Instrumentation Course, Keele University