

Curriculum Vitae of

THOMAS D A COSKER

MB ChB FRCS (Tr & Orth) MSc (Tr Surg) FAS

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Age: 43

Marital Status; married with 3 children

Nationality: British : GMC: 4729785 : MDDUS M185887

Career Highlights

- **Director of Human Anatomy and Designated Individual**, University of Oxford
- **Chair of Examiners, Preclinical Anatomy Course**, University of Oxford
- **Examiner, BM1**, University of Oxford
- **External Examiner**, University College Dublin
- **Secretary, British Orthopaedic Oncology Society**
- **Mini MBA**, completed during a year of work with **McKinsey and Company**
- **Course Chair, Miller UK 2011-20**; international course for the FRCS (Tr & Orth)
- **Senior Lecturer, British Society of Gynaecology Annual Meeting 2019 and 2020**
- **Lecturer and Examiner, for MSc in Trauma Surgery 2010/1**, University of Wales
- **Lecturer, Nuffield Department of Surgery**, Oxford
- **Winner, British Orthopaedic Oncology Society Gold Medal, 2011**
- **Winner, Welsh Orthopaedic Society Gold Medal, 2004**
- **Winner, Royal College of Surgeons of England Surgical Bursary 2009**
- **Graduate**, University of Wales College of Medicine with Distinction at Finals, 2000
- **Masters in Trauma Surgery**, graduating with Merit, 2008 (University of Wales)
- **Specialist Registrar**, Oxford Training Programme, 1995-2001
- **Honorary Lecturer and Examiner 2011/2**, Peninsula Medical School
- **Lecturer, Oxford Hand Course, 2017 - present**
- **Senior Surgical Lecturer MPS 2007-13**, teaching over 1500 students per annum
- **Published**, over 20 peer reviewed books, articles and papers
- **Presented**, at over 30 national and international meetings

Current Appointment: Director of Human Anatomy, University of Oxford

I have been Director of Human Anatomy for the University of Oxford since 2014. I am responsible for the delivery of all undergraduate human anatomy teaching both in the dissecting room and associated facilities. I also examine for the undergraduate course. I am the External Examiner for University College Dublin, in Anatomy. I am the Designated Individual for the Oxford Anatomy Licence.

I am also the course convenor and organiser of *Miller UK* (www.millerfrcs.co.uk) an international course to prepare candidates for the FRCS (Tr & Orth). This draws on the skills of 75 world famous surgical tutors. I am the *course lead for the Anatomy Section* of the course and have already taught over 1,000 surgeons on the course.

Current Appointment: Consultant Surgeon, Oxford Sarcoma Service, Nuffield Orthopaedic Centre

I am also a Consultant Orthopaedic Oncology Surgeon at the Nuffield Orthopaedic Centre in Oxford. I am conversant with the full range of orthopaedic oncology procedures and have a particular interest in treating upper limb tumours (both primary and secondary). I personally see over 50 patients a week in our specialist tumour clinics and as a team we operate on around 15 cases a week. I am engaged in an active programme of teaching and research and have produced several key papers in this area.

The Oxford 3d Printing Hub

I have established the *Oxford Anatomy Library of 3d Anatomical Models* and 3d printing hub at the Nuffield Orthopaedic Centre. I have raised in excess of £100k towards this aim from Nuffield Hospitals Fund. Three primary models have so far been developed; the retroperitoneum, the renal tract and the upper GI tract. These are proving extremely popular with our medical students and junior doctors. We are progressively extending the range of models to cover the entire human body and are currently working on a highly accurate model of the Base of Skull. This is ground-breaking science which combines CT, MRI and cutting edge 3d-printing. It is a hugely innovative and important project. We are presenting this work nationally and internationally and it is deriving substantial interest.

Microsoft Hololens Technology

I am actively implementing Hololens Augmented Reality software in partnership with Case Western Reserve University at the University of Oxford. The first headsets are scheduled to arrive shortly following a successful grant from the Nuffield Hospitals Fund and we will work to test this material and innovate new learning modules with our senior medical students and surgical trainees. This will be a first in the UK and will help reinforce the importance of Anatomy for our future surgeons. We are currently developing modules specifically aimed at sarcoma tumour pathology which will educate medical students and allied healthcare professionals as well as potentially act as a surgical adjunct in theatre.

Education and Prizes

School:	Hymers College, Kingston-Upon-Hull,	Sep	'92
		to	
A-levels:	Chemistry, Maths & Further Maths Physics & Gen. Studies (all at grade A)	Jul	'94
Medical School:	University of Wales College of Medicine	Aug	'00
Postgraduate:	MRCS (Eng)	Jan	'04
	FRCS (Tr & Orth)	Mar	'11
	Masters in Trauma Surgery	Mar	'08
	CCT, Oxford Training Rotation	July	'11
Prizes:	Distinction at Finals MBBCh Merit at Intermediate MBBCh Spot diagnosis prize, AO Course	May	'04
	Winner Welsh Orthopaedic Society Gold Medal	May	'04
	Winner British Orthopaedic Oncology Society Gold Medal	May	'11
	Winner, British Orthopaedic Oncology Society Gold Medal	June	'12

Published Research

- 1. Preparation for the next major incident: are we ready? A 12-year update.** Mawhinney JA, Roscoe HW, Stannard GAJ, Tillman SR, Cosker TD; *Emerg Med J.* 2019 36(12):762-4; 2019
- 2. A cadaveric analysis of the blood supply to rectus Femoris.** Williams M, Caterson J, Cogswell L, Gibbons C, Cosker T. 2019 *J Plast Reconstr Aesthet Surg.*72(4):616-21.
- 3. Surgical management of primary bone sarcomas, Cosker TDA and Gibbons M, Orthopaedics and Trauma. Volume 31, Issue 3, June 2017, Pages 173-179**
- 4. Talonavicular ligament: prevalence of injury in ankle sprains, histological analysis and hypothesis of its biomechanical function;** Miriam de Dea, Loizou et al and Cosker TDA; *British Journal of Radiology*; 2017 <https://doi.org/10.1259/bjr.20160816>;
- 5. The vascularised fibular graft for limb salvage after bone tumour surgery;** PH Hilven, L Bayliss, T Cosker et al; *The Bone and Joint Journal*; pp853-861; Vol 97-B, No. 6, June 2015
- 6. Reverse the trend for proximal humeral fractures: a review of the evidence for the use of reverse shoulder replacement in acute trauma;** C Taylor, T Cosker and C Smith; *Shoulder and Elbow* pp1-7, 2012
- 7. Use of the composite pedicled pectoralis minor flap after resection of soft tissue sarcoma in reconstruction of the glenohumeral joint.;** van de Sande MA, Cosker T, McDonnell SM, Gibbons CL, Giele H; *Case Rep Orthop.* 2014;2014:937342. doi: 10.1155/2014/937342. Epub 2014 Dec 31
- 8. Surgical treatment of recurrent proximal tibio-fibular joint ganglion cysts;** Gulati A, Lechler P, Steffen R, Cosker T, Athanasou N, Whitwell D, Gibbons CL; *Knee.* 2014 Oct;21(5):932-5. doi: 10.1016/j.knee.2014.05.002. Epub 2014 Jun 4
- 9. Surgical outcome of malignant primary bone tumours in elderly and very elderly patients.** Cosker T, Lechler P, Gulati A, Whitwell D, Giele H, Trent S, Athanasou N, Gibbons C. *Int Orthop.* 2014 Oct;38(10):2149-54. doi: 10.1007/s00264-014-2400-4. Epub 2014 Jun 20.
- 10. Anatomical variations of the deltoid artery; Relevance to the deltopectoral approach to the shoulder;** Bunker TD, Cosker TDA, Dunkerley S, Kitson J, Smith CD; *Journal of Bone and Joint Surgery* Jan 2013
- 11. Reverse the trend for proximal humeral fractures; a review of the evidence for the use of reverse shoulder replacement in acute trauma;** Taylor C, Cosker TDA, Smith C; *Shoulder and Elbow*, April 2012
- 12. Does it matter whom you see? - a fracture clinic audit.** Cosker TD, Ghandour A, Naresh T, Visvakumar K, Johnson SR. *Ann R Coll Surg Engl.* 2006 Oct;88(6):540-2.
- 13. Immediate application of improvised pelvic binder as first step in extended resuscitation from life-threatening hypovolaemic shock in conscious patients with unstable pelvic injuries.** Nunn T, Cosker TD, Bose D, Pallister I. *Injury.* 2007 Jan;38(1):125-8. Epub 2006 Sep 22.

14. **Experience of the T2 supracondylar nail in distal femoral fractures.** Ghandour A, Cosker TD, Kadambande SS, Pallister I, Russell ID. *Injury*. 2006 Oct;37(10):1019-25. Epub 2006 Aug 28.
15. **ST Application Guide 2010;** Commissioned by the Medical Protection Society; ISBN 978-1-873671-00-9
16. **Working in Medicine and Dentistry (book);** Cosker TDA et al; Department for Education and Employment; ISBN 0-86110-764-0
17. **Preparation for the next major incident – are we ready?** *Emerg Med J*. 2006 Sep;23:709-12; presented on BBC Radio 5 live, Today on Radio 4; presented on >20 local radio stations live interviews on BBC News, BBC World, ITV News and Channel 4 news
18. **Pelvic Ramus fractures in the elderly;** Cosker TDA, Gupta SJ, Tayton KJJ; *Acta Scandinavica Acta Orthop*. 2005 Aug;76(4):513-6
19. **Vacuum-assisted closure to aid wound healing in foot and ankle surgery** Mendonca D, Cosker T, Makwana NK; *Foot Ankle Int* Sep;26(9):761-6.
20. **Self-inflicted burns: a rising tide?** Mendonca D, Cosker T; *Burns*. 2005 Mar;31(2):245
21. **Pressure for beds; does it put our Orthopaedic patients at risk?;** Elsayed S, Cosker TDA, Grant AJ; *Injury*. 2005 Jan;36(1):86-7.;
22. **The correct choice of post-operative wound dressing has a significant effect on orthopaedic wound outcome;** Cosker TDA, Elsayed S, Mendonca AD, Gupta S, Tayton KJJ; *International Journal of Wound Care* Dec 2004 pp 48-55
23. **Vacuum injury caused by suction (case report);** Cosker TDA, Gupta S, Tayton KJ; *Injury*. 2004 Nov;35(11):1194-5.
24. **Bacterial contamination of the Lead Apron; does it matter?** Elsayed S MRCS; Lloyd, J MRCS; Cosker, T DA MRCS; Hussain, A MBBS; Kulkarni, R FRCS (Orth); *The Journal of Trauma: Injury, Infection, and Critical Care*: August 2005 - Volume 59 - Issue 2 - p 542
25. An on site MRI scanner is essential requirement for any hospital providing acute trauma facilities; TDA Cosker, J Jacobs, A Ghandour, K Basu, N James, S Chatterji; 2018 **Orthopaedic Proceedings Vol. 90-B, No. SUPP_III**
26. **Staff Satisfaction in a changing NHS;** Cosker TDA, Elsayed S, Prabhu V, Kulkarni R; *Annals R Coll Surg Eng* 2004 (S); 86; 102-104
27. **A two tier health system?** *Life in the Australian medical system;* Cosker TDA; *BMA News*; Feb 8, 2003; p11
28. **Day case surgery from the wards or a dedicated unit; do the same standards apply?;** Cosker TDA, Elsayed S, Mendonca AD, Preece M; *J Clinical Governance*; June 2006; pp923-926
29. **Epidural Abscess : The Importance of Re-Imaging.** A. Ardolino, T.D.A. Cosker, S. Blagg; *The Internet Journal of Surgery*. 2007. Vol 13 Number 1.

Submitted for publication

1. **Surgical outcome and oncological survival of Osteofibrous dysplasia-like- and classic Adamantinoma: an international multicenter study of 318 cases.** EM Schutgens, P Picci, Cosker TDA et al to Journal of Bone and Joint Surgery, Feb 2020.
2. **Venous thromboembolism in orthopaedic oncology – Risk factors, incidence and prophylaxis.** Stevenson J, Cosker TDA et al; to Bone and Joint Journal; provisionally accepted pending revisions Feb 2020.
3. **The diffuse-type TGCT patient journey: a prospective real-world study;** Nicholas M. Bernthal & Geert Spierenburg, John H. Healey, Petra Laeis, Eva-Maria Fronk, Silvia Stacchiotti, Emanuela Palmerini, Eric L. Staals, T D A Cosker, and Michiel A.J. van de Sande; submitted to Bone and Joint Journal
4. **The production of a three-dimensional printed model of the hepato-biliary system from CT imaging data;** Williams M, Smillie R, Leung B and Cosker TDA; submitted to the Journal of 3d printing, Feb 2020
5. **Management of Malignant Pathological Fractures & Metastatic Bone Disease (MBD);** Ashford R, Stevens J and Cosker TDA; submitted to the Bone and Joint Journal
6. **Relevant Surgical Anatomy for the treatment of Orthopaedic Oncology Tumours; approaches, hazards and pitfalls for the experienced surgeon;** Current Orthopaedics and submitted to Journal of Anatomy, accepted for publication in Current Orthopaedics above, March 2017; Cosker et al
7. **All you need to know about Shoulder Surgery : Mini guide;** Cosker TDA, Elsayed S, Dunkerley S, Miller M; To be published as accompanying mini guide for Miller UK (ISBN to be allocated)
8. **All you need to know about Arthroplasty : Mini guide;** Cosker TDA, Elsayed S, Dunkerley S, Miller M; To be published as accompanying mini guide for Miller UK (ISBN to be allocated)
9. **The Financial Impact of Sarcoma;** Cosker TDA, Taylor C, Oehringer, G, Gibbons M; Submitted to the Annals of the Royal College of Surgeons
10. **13 year follow up of Liposarcoma of the Posterior thigh;** Cosker TDA, Athanisou N, Whitwell D, Gibbons M; Submitted to the Journal of Bone and Joint Surgery

Podium Presentations

1. **Oxford Surgical Innovation Conference; the application of 3d printing and Hololens technology in the teaching of anatomy;** 2019 and 2020.
2. **The skeletal system; a brief introduction;** HS Talks, October 2019
3. **3d Med-Live; the application of 3d printing technology in the Anatomy Sector,** accredited by the Royal College of Surgeons, London, October 2019

4. **An innovative online resource for learning radiology and anatomy**, Khan S, Cowdell I, Cosker TDA: African Anatomy Society
5. **The articularis genu muscle**. Williams, Caterson, Gibbons, Cosker. Oral presentation at the BOA Annual Congress, 2019.
6. **Anatomy at Oxford: Past, present and future**. Cosker. OxSI, 2020.
7. **Application of epineural dissection for liposarcoma encasement of the sciatic nerve**. Caterson, Williams, Gibbons, Cosker. Oral presentation at the BOA Annual Congress, 2019.
8. **The articularis genu muscle – the pathoanatomy and imaging of the fifth quadriceps muscle, and it's clinical relevance in oncology**. Caterson, Williams, Cosker, Gibbons. Oral presentation at BASK, 2019.
9. **One stop shop clinic in Sarcoma**; Cosker TDA, Martin H, Gibbons CLMH, Whitwell D; Presented at the British Orthopaedic Oncology Society Oxford, 2015
10. **One stop shop clinic in Sarcoma**; Martin H, Cosker TDA, Alvand A, Grammatopoulis G, Whitwell D, Gibbons CLMH; winning presentation at the British Orthopaedic Oncology Society Oxford, 2015
11. **Long term follow up of endoprosthetic replacement of the proximal humerus**; Cosker TDA, McDonnell S, Whitwell D, Giele H, Gibbons, CLMH, presented at the ISOLS meeting in Beijing 2013
12. **Anatomical variations in the deltoid artery : relevance to the deltopectoral approach to the shoulder**; S N Dunkerley, T Cosker, J Kitson, T D Bunker and C D Smith; EFORT 2013
13. **13 year follow up of Liposarcoma of the Posterior thigh (Winner, Gold Medal)** Cosker TDA, Athanisou N, Whitwell D, Gibbons M; Presented at the British Orthopaedic Oncology Society, Oswestry 2011 and International Society of Limb Salvage, Beijing
14. **Are we ready for the next major incident?** Cosker TDA, Wong K, Turner P, Blagg S; Presented at the Bomb and Blast Conference, London 2005; And the British Emergency Medicine Annual Meeting, London 2009
15. **There remains a poor understanding of the red flag symptoms in acute back pain**; Wong K, Cosker TDA, Turner P, Blagg S; Presented at the British Association of Spinal Surgeons, June 2006
16. **Access to urgent MRI scanning facilities remains variable across units in the UK** Cosker TDA, Basu K, Ghandour A, Chatterji S; Presented at the British Association of Spinal Surgeons, June 2006
17. **There is a significant biomechanical difference in different brands of screw fixation in the SCARF osteotomy**; Cosker TDA, Prasad V, Evans S, Fanarof H; Presented at the PanCeltic orthopaedic meeting, June 2006
18. **Do innocuous fractures of the pelvic rami really exist?;** Cosker TDA, Gupta SJ, Tayton KJJ; British Orthopaedic Association (Birmingham) 2003; main hall & Welsh

Orthopaedic Society, May 2004; *Winner of the 2004 Welsh Orthopaedic Society Gold Medal*

19. **Management of Warfarinised Patients requiring Emergency Orthopaedic Surgery;** Cosker TDA, Jacobs J et al; British Orthopaedic Association (Birmingham) 2005; main hall
20. **Pressure for beds – is it putting our orthopaedic patients at risk?;** Elsayed S (presenter), Cosker TDA, Grant AJ; British Trauma Society (London 2003) and Australian Trauma Society (Adelaide 2003)
21. **General Practice as part of the Medical school curriculum;** Cosker TDA; Welsh association of general practitioners (Builth Wells) May 2000
22. **Optimising the management of warfarinised patients requiring emergency orthopaedic surgery;** Cosker TDA, Visvakumar K (presenter), Chatterji S; presented at Trauma in the 21st Century, September 2004

Poster Presentations

Are we ready for the next major incident; London Trauma Conference; Dec 2019; Mawhinney J, Cosker TDA

Application of epineural dissection in liposarcoma encasement of the sciatic nerve. Williams, Caterson, Gibbons, Cosker. Poster presentation at ASiT 2019.

Entrapment of the superficial peroneal nerve due to tumour compression. Williams, Caterson, Gibbons, Cosker Poster presentation at ASiT 2019.

Clinicopathological relevance of Articularis Genu in distal femoral resection for primary and metastatic bone tumours. Caterson, Williams, Cosker, Gibbons. Poster presentation at BASK 2019.

The impact of the NICE guidelines on GP referrals for suspected sarcoma (Winner Best Poster 2011)

Cosker TDA, Athanisou N, Whitwell D, Gibbons M
Presented at the British Orthopaedic Oncology Society, Oswestry 2011

How good are GP's at diagnosing possible sarcoma?

Cosker TDA, Athanisou N, Whitwell D, Gibbons M
Presented at the British Orthopaedic Oncology Society, Oswestry 2011

Factors influencing outpatient discharge;

Finlay AY, Cosker TDA, Davies RW, et al.
Presented at the British Dermatology Association, London 2000

Staff Satisfaction in a changing NHS; Cosker TDA, Elsayed S, Prabhu V, Kulkarni R; Welsh Orthopaedic Society, May 2004

Optimising the management of warfarinised patients requiring emergency orthopaedic surgery; Cosker TDA, Visvakumar K, Chatterji S; Welsh Orthopaedic Society, June 2005

Management Training

Management Training

Healthcare Management Consultant, McKinsey & Co.

I worked for 12 months with McKinsey and Co, a team of international management consultants at Head Office in London, working on a variety of projects in major teaching hospitals and Primary Care Trusts to gain a wealth of management experience. I also studied for, and passed, the mini-MBA.

Courses

Courses:

Masters in Trauma Surgery	Mar	'08	
ALS Course	June	'01	
Basic Surgical Skills (Sydney)	July	'02	
ATLS Course (South Wales)	Sept	'02	
AO Course (Leeds)	June	'04	
External Fixators Appn Course	Nov	'04	
Exeter Hip Symposium,	Oct	'05	
Expedition Medicine Course, France	Jan	'05	
Advanced Paediatric Life Support	Oct	'05	
Unicompartmental Knee Meeting	Nov	'07	
Metal on Metal Hip Bearings Course	Jan	'08	
UNICON "Training the Trainer"	Sept	'09	
Reading Shoulder Unit Update Conference	Oct	'08	
APLS	Dec	'08	
British Society for Children's Orthopaedic Surg.	Jan	'10	
Swansea Hand Course	Feb	'10	
Oxford Sarcoma Course	Nov	'10	
ATLS	Dec	'10	
Oxford Knee Course	Apr	'11	
Miller USA	Feb	'11	
Miller UK	Apr	'11	
Reading Shoulder Unit Update Conference	Aug	'11	
Becoming an Honorary Lecturer, Exeter	Sep	'11	
British Orthopaedic Oncology Association	May	'13	
Miller UK		annually	
Update in Sarcoma, Royal Marsden Hospital	May	'15	
Resuscitation Training Refresher course	May	'15	
Interview skills for Consultants	Jun	'15	
British Orthopaedic Oncology Society		annually	

Society Memberships

- Royal College of Surgeons of England (RCS Eng)
- Secretary, British Orthopaedic Oncology Society
- British Orthopaedic Association (BOA)
- Girdlestone Orthopaedic Society (GOS)
- Fellow of the Anatomical Society (FAS)

Referees

The following colleagues have kindly agreed to act as my referees:

PROFESSOR JOHN MORRIS

Emeritus Professor in Human Anatomy
DPAG, University of Oxford
John.morris@dpag.ox.ac.uk

PROFESSOR CLMH GIBBONS

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MR DUNCAN WHITWELL

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