

TOM QUICK



Tom J Quick MA(Cantab) MBBS FRCS(Tr&Orth) FHEA MD(res)

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Profile

Tom is an experienced clinical academic and fellowship trained peripheral neurosurgeon from a Paediatric orthopaedic background. His practice is 50:50 paediatric and adults and encompasses all aspects of nerve injury treatment from primary intervention to later reconstruction in the neonate, child, adolescent and adult.. Tom holds a number of honorary appointment with Great Ormond St Hospital , The Evelina Children's Hospital, University College London, where he operates on children with significant co morbidities. Tom's interests are Obstetric Brachial Palsy (Erb's palsy) traumatic nerve injury, nerve injury and development in the growing shoulder and adult brachial plexus upper limb and lower limb nerve injury and traumatic neuropathic pain states.

Appointed in Spring 2013 to the PNI Unit Tom is one of three consultants in this national referral centre and was clinical lead in this unit from 2017-2020. With his interests and background training Tom takes over 50% of the unit's obstetric palsy cases. The unit offers spinal root re-implantation, nerve stimulator pain modulation service, hand surgery clinic, birth plexus injury shoulder specialist clinic, quantitative sensory testing, one stop Nerve conduction and EMG clinics and a fully integrated multidisciplinary team approach.

Tom has research collaborations across UCL, London the UK and across the world. Tom is engaged in exploratory science projects towards the rate of nerve regeneration, MRI neurography and re-innervated muscle assessment and cell therapies towards augmenting and improving nerve regeneration. His clinical projects centre around obstetric palsy assessment and treatment, co-contraction, neuropathic pain, improvements and quantification of nerve recovery specifically motor outcomes and also medical education.

Tom was Head of Undergraduate Education from 2014-2019 in the Division of Surgery UCL and continues to be active in teaching and training the next generation of health care professionals and furthering the engagement of medical students in surgical practice, research and science.

Tom was awarded his Doctorate (MDres) by the division of Surgery and Interventional science on 28th July 2018 and is currently an honorary Associate Professor in the Institute of Orthopaedics and Musculoskeletal Science. Tom was a co-founder of the UCL Centre for Nerve Engineering and in this group is clinical lead for peripheral nerve. Tom is director for research in the associated peripheral nerve injury research unit.

Tom publishes regular peer reviewed research and book chapters. He is an active reviewer for the Journal of Bone and Joint, the Journal of Plastics and Reconstructive Surgery and the Journal of Neurosurgery and Neuroscience. He lectures on assessment and treatment of nerve injury on training courses for surgeons and allied health professionals and presents his on going research at international research meetings regularly every year.

Tom was awarded the prestigious 'ABC travelling fellowship' to represent the British Orthopaedic Association in a 6 week tour of the USA and Canada lecturing on my experience in the clinical and research aspects of nerve injury. This was due to be conducted in 2020 but has now been rescheduled to 2022.

Current Appointments

Consultant Surgeon, Peripheral Nerve Injury Unit, Royal National Orthopaedic Hospital, Stanmore, UK

Honorary Associate Professor, Institute of Orthopaedics and Musculoskeletal Science, University College London, UK

Honorary Consultant Surgeon, Great Ormond Street Hospital, London

Honorary Consultant Surgeon, Evelina Children's Hospital, London

Honorary Consultant Surgeon, University College Hospital, London

Current Memberships

British Orthopaedic Association (BOA)

British Society Surgery of the Hand (BSSH)

Seddon Society

Anglo-Scandinavian Plexus Society

Medical Defence Union

Expert Witness Institute

Education & Qualifications

Manchester Grammar school, Manchester ,

Magdalene College, Cambridge, History of Art **MA(Cantab)** and MB exemptions

University College Hospital, London (Royal Free Campus) **MBBS**

Royal College of Surgeon of Edinburgh, **MRCS(Ed)**

Intercollegiate board of Surgeons, **FRCS(Tr&Orth)** (2011)

Paediatric orthopaedic Fellow, Westmead children's hospital (2011-2012)

Post graduate fellow, PNI unit RNOH (2010 and 2013)

Fellowship of the Higher Education Academy (**FHEA**) 2016

Doctorate **MD(res)** UCL 2018 'The clinical assessment of re-innervated motor function'

Clinical Skills

As part of providing a national referral service for Adult and paediatric brachial plexus and peripheral nerve injury Tom has a large experience of traumatic supra- and infra-clavicular plexal injury repair and reconstruction. Microsurgical graft and transfer and secondary reconstruction cases. Tom has one of the largest obstetric palsy practices in the world providing huge experience in this very focused field. He sees over 150 new patients with OBPP per year and has inherited the long term follow up of over 2500 patients whom he sees regularly. Tom has been an advisor to the BOA and NICE on matters of nerve injury.

Research

Tom is Clinical lead for peripheral nerve in the UCL Centre for Nerve Engineering and collaborates with UCL colleagues and with other national and international colleagues. As an Honorary Associate Professor in the Institute of Orthopaedics and Musculoskeletal science at UCL tom supervises a number of PhD students as well as his teaching responsibilities. Tom has published widely and his output is registered with ORCID (<https://orcid.org/0000-0002-5342-1509>).

Medicolegal/Expert opinion

Starting in 2013, and having now been instructed in excess of 500 cases encompassing personal injury and medical negligence. Tom sees 2 new medicolegal cases for opinion per week with a ratio of 70:30 between claimant and defence instruction. He instructions via a paper free practice and has a turn around of 6-8 weeks from receiving instruction to completed reports (with video and static image evidence).

Tom has a wealth of experience in court appearances. Having appeared (both as a witness to fact and an expert witness) in personal injury, medical negligence, criminal and family courts. In all court appearances the side calling Mr Quick as an expert were successful. Senior Counsel Liam Reidy in Dublin comment that in under cross examination Tom was "brilliant and remained composed".

A large percentage of Tom's reports concern both the condition and prognosis and the likely causation of cases of Obstetric (Erb's) Palsy. In commenting on causation Tom restricts his comments to the pathophysiology of nerve injury not straying into the area of the obstetric expert but offering supportive evidence to that of the midwife or obstetrician.

Tom has attended training at Irwin Mitchell's 'Becoming a Medico-Legal Expert' Spring Series 2014 and attended the Expert Witness Institute Conference 2015. Tom was elected as a member of the Expert Witness Institute in 2015. Tom has provided educational talks to lawyers and medical experts on issues around nerve injury (some of which are available to view on his website).

Tom is a member of the organising committee of the Annual Cambridge (Peterhouse) Medicolegal conference which hopes to return in 2021 after a COVID recess in 2020.

National Policy & Guidelines

NICE Processed nerve allografts to repair peripheral nerve discontinuities Interventional procedures guidance [IPG597] Published date: 22 November 2017 <https://www.nice.org.uk/guidance/ipg597>

Intensive care society (**ICS**) and British Orthopaedic Society (**BOA**) joint guideline on "prevention, diagnosis and management of Plexopathy during prone positioning. 2020

Regional Anaesthesia UK (**RA-UK**) and British Orthopaedic Society (**BOA**) Algorithm for management of nerve injury associated with regional anaesthesia (unpublished)

BOA/BSSH/BAPRAS BOAST-5 guidelines 2021 revision; "Nerve injury"

Publications - <https://orcid.org/0000-0002-5342-1509>

1. Wilcox MB, Jessen KR, **Quick TJ**, Phillips JB. *The molecular profile of nerve repair: humans mirror rodents*. Neural Regen Res 2021;16:1440-1
2. Wilcox M, Laranjeira S, Brown H, **Quick T**. *How to assess the recovery of muscular function following nerve injury: A view from surgeons and patients*. J Plast Reconstr Aesthet Surg. 2020 Dec 11;S1748-6815(20)30649-5.
3. Wilcox M, Gregory H, Powell R, **Quick TJ**, Phillips JB. *Strategies for Peripheral Nerve Repair*. Curr Tissue Microenviron Rep. 2020;1(2):49-59
4. Dean BJF; Corona Hands Collaborative. *Mortality and pulmonary complications in patients undergoing upper extremity surgery at the peak of the SARS-CoV-2 pandemic in the UK: a national cohort study*. BMJ Qual Saf. 2020 Oct 9;bmjqs-2020-012156.
5. Brown H, **Quick TJ**, *The characterisation of pain reported by children with brachial plexus birth injury. Association of paediatric chartered physiotherapists Journal* 11. 3 (2020) 22-27
6. Wilcox Matthew B, Jessen Kristjan R, **Quick Tom J**, Phillips James B *The molecular profile of nerve repair: humans mirror rodents Neural Regeneration Research* 2021 16 7(1440-1441)
7. Simpson AI, Vaghela KR, Brown H, Adams K, Sinisi M, Fox M, **Quick TJ** *Reducing the Risk and Impact of Brachial Plexus Injury Sustained From Prone Positioning—A Clinical Commentary*. Journal of Intensive Care Medicine. 2020;35(12):1576-1582.
8. Wilcox, M.B., Laranjeira, S.G., Eriksson, T.M., Jesson KR, Mlrsky R, **Quick TJ**, Phillips JB *Characterising cellular and molecular features of human peripheral nerve degeneration*. Acta Neuropathol Commun 8, 51 (2020)
9. Barrett P, **Quick TJ**, Mudera V, Player DJ. *Generating intrafusal skeletal muscle fibres in vitro: Current state of the art and future challenges*. Journal of Tissue Engineering. January 2020.
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12. Brown, H, Bassett, P, **Quick, TJ**. *Inter- and intra-rater reliability and clinical utility of the Brachial Plexus Outcome Measure: A pilot study*. Hand Therapy, 24(4), 123–129. <https://doi.org/10.1177/1758998319861655>
13. **Quick TJ**, Brown H. *Evaluation of functional outcomes after brachial plexus injury*. J Hand Surg Eur Vol. 2019 Oct 9;1753193419879645.



14. Bartlett RD, Momin SMB, Azam S, Rotimi O, **Quick TJ** *Development of a "Surgical Shadowing Scheme" to improve undergraduate experiences of surgery.* Advances in Medical Education and Practice, August 2019
15. Wilcox M, Brown H, Johnson K, Sinisi M, **Quick TJ**. *An assessment of fatigability following nerve transfer to reinnervate elbow flexor muscles.* Bone Joint J. 2019 Jul;101-B(7):867-871.
16. Wilcox M, **Quick TJ**, Phillips JB. *The Effects of Surgical Antiseptics and Time Delays on RNA Isolated From Human and Rodent Peripheral Nerves.* Front Cell Neurosci. 2019 May 22;13:189.
17. Brown H, Johnson K, Gilbert A, **Quick TJ**. *The lived experience of motor recovery of elbow flexion following Oberlin nerve transfer: A qualitative analysis* Hand Therapy 2018 Volume: 23 issue: 4, page(s): 130-138
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19. Anand U, Yiangou Y, Akbar A, **Quick T**, MacQuillan A, Fox M, Sinisi M, Korchev YE, Jones B, Bloom SR, Anand P. *Glucagon-like peptide 1 receptor (GLP-1R) expression by nerve fibres in inflammatory bowel disease and functional effects in cultured neurons.* PLoS One. 2018 May 29;13(5):e0198024.eCollection 2018.
20. Singh AK, Rudge W, **Quick T**. *An important lesson in assessing neurovascular involvement in proximal humeral fractures: the presence of neuropathic pain in a dysvascular limb.* J Shoulder Elbow Surg. 2018 Jan;27(1):e20-e24.
21. Kakkar LS, Bennett OF, Siow B, Richardson S, Ianoş A, **Quick T**, Atkinson D, Phillips JB, Drobnjak I. *Low frequency oscillating gradient spin-echo sequences improve sensitivity to axon diameter: An experimental study in viable nerve tissue.* Neuroimage. 2017 Aug 1.
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38. **T J Quick** *Emergency Medicine: Concepts and Clinical Practice* Rosen 5th & Emergency: Diagnosis and Management Book reviews: Injury 2003 July;34(7):558
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Book Chapters

Wilcox M, Brown H, **Quick TJ**. *Clinical Outcome Measures Following Peripheral Nerve Repair* *Current Tissue Microenvironment Reports*, Springer, New York in press.

Wilcox M, **Quick TJ** *'Strategies for peripheral nerve repair' in Current Tissue Microenvironment Reports*, Springer, New York in press.

Key S, Skinner J, **Quick TJ** *"Total hip arthroplasty" in "Peripheral nerve issues after orthopaedic Surgery: A Multidisciplinary approach to prevention evaluation and treatment"* Springer, New York in press.

Dhir, R, Suggand K, **T Quick**. *'Peripheral Nerve Injury'* Chapter in *ABC of Orthopaedics and Trauma* Eds. Gupta C M, Sugand K. 2018 John Wiley & Sons Ltd .

T J Quick, R Birch. 'Nerve repair' chapter in *Green's Hand surgery 7th Ed.* Editor Scott Wolfe- Elsevier(Amsterdam) May 2016

T J Quick, M Fox. 'Traumatic nerve injury chapter in *Stanmore Trauma Guide Ed. S Dawson-Bowling* CRC Press Publication
Date: 2nd Dec 2014 | ISBN-10: 1444148826 | ISBN-13: 978-1444148824