



Curriculum Vitae

Miss SALMA CHAUDHURY, MB BChir (Cantab), MA, PhD (Oxon), FRCS (Orth)

Consultant in Trauma & Orthopaedics - Cambridge University Hospitals
Affiliate Assistant Professor, University of Cambridge
Major Trauma Consultant - Cambridge University Hospitals
Specialist interest in Shoulder and Elbow Surgery and Trauma



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Postgraduate Qualifications **Associate Editor** BJJ 360 (**British Joint Journal**)
British Elbow and Shoulder Society (BESS) Research Council Member
British Orthopaedic Association (BOA) Council Member
British Elbow and Shoulder Society (BESS) Travelling Fellowship Award
PhD (DPhil) in Orthopaedic Surgery from **Oxford University**
Co-director of Orthopaedic Undergraduate Teaching, **Oxford University**
Advanced Trauma Life Support (**ATLS**) Instructor
Future Leader's Program BOA
FRCS (Orth) – Fellow of the Royal College of Surgeons
MRCS – Member of the Royal College of Surgeons
Masters MA in Anatomy – **Cambridge University**

Medical Degree MB BChir **University of Cambridge** 2004

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SUMMARY OF PROFESSIONAL EXPERIENCE

I am a triple fellowship-trained **Consultant Trauma and Orthopaedic surgeon with expertise in complex Shoulder and Elbow trauma** in multiply injured patients, their prognosis as well as soft tissue shoulder injuries. I am a consultant at **Cambridge University Hospitals**, which is the **Major Trauma Centre** for East Anglia and deals with the majority of the region's complex trauma. I am on the on-call rota for trauma so regularly treat patients with multiple orthopaedic injuries, and run a weekly trauma and elective clinic.

I have a specialist interest in degenerative shoulder diseases and shoulder replacements, especially from shoulder overuse (as a consequence of spinal cord injuries, amputees and severe lower limb injuries), plus the effects of peripheral nerve injuries on shoulder function. I have expertise in soft tissue shoulder injuries, which builds upon my **PhD in Orthopaedic Surgery from Oxford University** focused on rotator cuff healing in the shoulder.

I have a **complex tertiary referral practice**, and am asked for advice or further management of shoulder and elbow problems to patients from other hospitals throughout the East of England (population of 5.5 million).

My elective practice predominantly involves managing soft tissue problems of the shoulder (e.g. rotator cuff problems, instability) and elbow, as well as arthritis of the shoulder requiring shoulder replacements. I also see patients with post-traumatic shoulder and elbow sequelae.

I undertook **specialist fellowship training** in internationally recognised centres of excellence in **Oxford, Cambridge, Reading and Hospital for Special Surgery in New York**, the leading Orthopaedic hospital in the US. I have experience managing spinal and brachial plexus injuries having worked at a leading Spinal Injuries Unit in Stoke Mandeville. I was awarded the prestigious **BESS (British Elbow and Shoulder Surgery) travelling fellowship** and travel to leading shoulder surgery units to learn advanced shoulder and elbow techniques. I have visited the Mayo Clinic, Hospital for Special Surgery in New York and Basel.

MEDICOLEGAL EXPERIENCE

I am a Consultant Trauma and Orthopaedic Surgeon at Addenbrookes, Cambridge University Hospitals, managing complex, multiply injured polytrauma patients. I specialise in shoulder and elbow surgery. I am on-call for and treat all major trauma and orthopaedic injuries and also manage complex regional referrals.

I accept instructions for all aspects of general shoulder and elbow orthopaedics including but not limited to:

- complex shoulder and elbow trauma
- multiply injured polytrauma patients
- amputations
- post-traumatic complications including arthritis
- infections and revisions
- non-unions
- open fractures
- soft tissue shoulder and elbow injuries
- sports injuries
- road traffic accidents
- industrial accidents

I regularly treat, as well as report on patients sustaining the full spectrum of complex upper limb injuries and polytrauma patients as well as single limb injuries.

STRONG TRACK RECORD OF ACADEMIC SUCCESS

I am an internationally recognised key opinion leader based upon my expertise and academic track record.

- I hold a **PhD in Orthopaedic Surgery from Oxford University**
- I studied **medicine at Cambridge University** and attended St Paul's girl's school.
- I am widely published with **43 peer-reviewed publications**, with **23 first-author manuscripts** (listed below) mainly in shoulder and elbow and **1 book chapter**.
- I have been successfully awarded **research grants of almost £500,000**, including an **ORUK Early Career Research Fellow grant for £97,878** and a CARE Cambridge Arthritis Research Endeavour grant for £51,025
- I am the **associate editor for Bone and Joint Journal 360**, and for **Journal of Shoulder and Elbow Surgery** (the leading international journal) I was previously the social media editor.
- Based upon my expertise, I have widely lectured internationally and nationally in conferences and on teaching courses
- I gave **18 international oral presentations** with **3** at the American Academy (**AAOS**) and **6** at **EFORT**.
- I gave **15 national oral presentations** with **6** at **BESS** (the leading British Elbow and Shoulder Society).
- I won academic **research prizes** from the **British Trauma Society**, the British Elbow and Shoulder Society, SECEC and Oxford Deanery.

NATIONAL LEADERSHIP ROLES

I help shape key policies and guide orthopaedic research by sitting on national executive committees for the leading orthopaedic and shoulder and elbow governing societies:

- British Orthopaedic Association council member
- British Elbow and Shoulder Surgery Research Committee
- British Orthopaedic Research Society ex-Executive Committee member

TEACHING EXPERTISE

Based on my expertise, I am invited to lecture and teach extensively. A few recent highlights are listed below:

- I was the **co-director for undergraduate orthopaedic teaching at Oxford University** for 4 years
- I am a course convenor and faculty on a myriad of international and national courses, including at **Cambridge University** (e.g. shoulder and Elbow Surgical Approaches), **Oxford University MSC** in Musculoskeletal Sciences and for ORUK (FRCS Revision and ST3 selection).
- I am an ATLS instructor
- I have taught internationally as far afield as China and Palestine.
- I helped organise and run a Leadership and Management Course for Core Surgical Trainees in London

OTHER INFORMATION

Hobbies

Dancing, swimming, art, travelling

Languages

Fluent in Bengali, Sylheti, Hindi, Urdu. Proficient in French, German. Basic Spanish

PUBLICATIONS

1. M Ng...S Chaudhury..S Dakin. A single cell atlas of frozen shoulder capsule identifies features associated with inflammatory fibrosis resolution. **Nature Communications**. Feb 2024; 15 (1): 1935. doi: 10.1038/s41467-024-45341-9
2. BORCo research group (including **S Chaudhury**). The Role of Gender in Operative Autonomy in Surgical Trainees (GOAST). **Bone and Joint Journal**. July 2023. 105-B(7):821-832. doi: 10.1302/0301-620X.105B7.BJJ-2023-0132.R2.
3. **S Chaudhury**, R Myatt, M Hussain, T Aboelmagd, A Malhas. 2-year Clinical and Radiographic Outcomes Following Uncemented Reverse Shoulder Replacements for Proximal Humerus Fractures. **Journal of Shoulder and Elbow Surgery**. October 2022 doi:10.1016/j.jse.2022.09.005
4. N Rupani, C Hing, D Eastwood, J Clarke, R Gregory, **S Chaudhury**, 'How Diverse and Inclusive are the Demographic, Socio-economic and Disability Profiles of the British Orthopaedic Association membership in the United Kingdom?' **Journal of Trauma and Orthopaedics**. June 2022.
5. **S Chaudhury**, N Rupani, L Woolidge, S Gwilym. 'Management of Traumatic Instability'. **Orthopaedics and Trauma**. April 20, 2022. doi.org/10.1016/j.mporth.2022.03.005.
6. S Chaudhury, A Musa, S Gwilym. 'Rotator Cuff Tears'. **Orthopaedics and Trauma**. April 22, 2022. doi.org/10.1016/j.mporth.2022.03.003.
7. A Fox, O Fox, M Schar, **S Chaudhury**, R Warren, S Rodeo. 'The Glenohumeral ligaments: superior, middle and inferior: Anatomy, Biomechanics, Injury and Diagnosis'. **Clinical Anatomy**. 2021; PMID: 33386636.
8. **S Chaudhury**, L Bavan, N Rupani, K Mouyis, R Kulkarni, A Rangan, J Rees. 'Managing acromioclavicular joint pain: a scoping review'. **Shoulder Elbow**. 2018; 10(1), 4-14. doi.org/10.1177/1758573217700839
9. **S Chaudhury**, A Hazlerigg, C Granville, J Nguyen, S J Matthews. 'Lower Limb Surface Pressures Generated By Different Types of Immobilisation Casts'. **World Journal of Orthopaedics**. 2017; 8(2), 170-177.
10. **S Chaudhury**, Z Xia, D Thakkar, O Hakimi, A J Carr. 'Genetic Profiling of Normal and Different Sized Rotator Cuff Tears Using Microarrays'. **Journal of Shoulder and Elbow Surgery**. 2016; 25(10), 1561-70.
11. **S Chaudhury**, D Delos, J Dines, O'Brien, D Altchek. 'Arthroscopic Subscapularis Bankart Technique as a Salvage Procedure for Failed Anterior Shoulder Stabilization'. **Hospital for Special Surgery Journal**. 2014; 10 (1), 73-78.
12. D Delos, M Leineweber, **S Chaudhury**, S Alzoobee, Y Gao, S Rodeo. 'The Effect of Platelet-Rich Plasma on Muscle Contusion Healing in a Rat model'. **American Journal of Sports Medicine**. 2014; 42 (9): 2067-74.
13. J Tilley, R Murphy, **S Chaudhury**, J Czernuszka, A J Carr. 'Effect of Tear Size, Corticosteroids and Subacromial Decompression Surgery on the Hierarchical Structural Properties of Torn Supraspinatus Tendons'. **Bone and Joint Research**. 2014, 3 (8), 252-261.
14. A Fox, M Schär, F Wanivenhaus, T Chen, E Attia, N Binder, M Otero, S Gilbert, J Nguyen, **S Chaudhury**, R Warren, S Rodeo MD. 'Fluoroquinolones Impair Tendon Healing in a Rat Rotator Cuff Repair Model: A Preliminary Study'. **American Journal of Sports Medicine**. 2014, 42 (12): 2851-9.
15. **S Chaudhury**, F Wanivenhaus, A J Fox, S A Rodeo. 'Allografts Replacement for Absent Native Tissue'. **Sports Health**. 2013; (5), 175-182.
16. **S Chaudhury**, M De La Lama, R Adler, L V. Gulotta, F Cordasco, S A Rodeo, J Hannafin, S Fealy. 'Platelet-rich plasma (PRP) for the treatment of lateral epicondylitis: an analysis of functional outcomes and contrast-enhanced ultrasonography to assess vascularity'. **Skeletal Radiology**. 2013; 42 (1), 91-7.
17. B Halpern, **S Chaudhury**, S A Rodeo, C Hayter, E Bogner, H Potter, J Nguyen. 'Clinical and MRI outcomes after platelet-rich plasma treatment for knee osteoarthritis'. **Clinical Journal of Sports Medicine**. 2013; 23 (3), 238-9
18. **S Chaudhury**. 'Mesenchymal stem cell applications to tendon healing'. **Muscles, Ligaments and Tendons Journal**. 2012; 16, 2 (3), 222-9.
19. **S Chaudhury**, J Dines, D Delos, R F Warren, C Voigt, S Rodeo. 'The role of fatty infiltration in the pathophysiology and outcomes of rotator cuff tears'. **Arthritis Care and Research**. 2012; 64 (1), 76-82.
20. **S Chaudhury**, A J Carr. 'Lessons we can learn from gene expression patterns in rotator cuff tears'. **Journal of Shoulder and Elbow Surgery**. 2012; 21 (2), 191-9.
21. **S Chaudhury**, S Gasinu, S A Rodeo. 'Bilateral Anterior and Posterior Glenohumeral Stabilization using Achilles Tendon Allograft Augmentation in a Patient with Ehler-Danlos Syndrome'. **Journal of Shoulder and Elbow Surgery**. 2012; 21 (6), e1-e5.
22. **S Chaudhury**, S Hobart, S A Rodeo. 'Bilateral First Rib Stress Fractures in a Female Swimmer; A Case Report'. **Journal of Shoulder and Elbow Surgery**. 2012; 21(3), e6-e10.
23. J M R Tilley, **S Chaudhury**, O Hakimi, A J Carr, J T Czernuszka. 'Tenocyte proliferation on collagen scaffolds

- protects against degradation and improves scaffold properties'. **Journal of Materials Science: Materials in Medicine**. 2012; 23 (3), 823-33
24. O Hakimi, **S Chaudhury**, R Murphy, A J Carr. 'Differential growth on sutures of tendon cells derived from torn human rotator cuff'. **Journal of Biomedical Materials Research**. 2012; 100 (3), 685-92.
 25. L Gulotta, **S. Chaudhury**, D Wiznia. 'The Application of Stem Cells to Tendon Healing'. **Stem Cells International**. 2012:291431.
 26. **S. Chaudhury**, C Holland, F Vollrath, A J Carr. 'Tensile and shear mechanical properties of rotator cuff repair patches'. **Journal of Shoulder and Elbow Surgery**. 2012; 21 (9), 1168-1176.
 27. **S Chaudhury**, S A Rodeo. 'Biologic Solutions To Rotator Cuff Healing'. **Techniques in Shoulder and Elbow Surgery**. 2012; 13 (2), 45-54.
 28. B C Halpern, **S Chaudhury**, S A Rodeo. 'The Role of Platelet Rich Plasma in Inducing Musculoskeletal Tissue Healing'. **HSS Journal**. 2012; 8 (2), 137-145.
 29. F Wanivenhaus, A J S Fox, **S Chaudhury**, S A Rodeo. Epidemiology of Injuries and Prevention Strategies in Competitive Swimmers. **Sport Health**. 2012; 4 (3), 246-51.
 30. **S Chaudhury**, R Murphy, A J Carr. 'Tendon Tissue Engineering: The Potential Application of Stem Cells, Biological Factors and Repair Scaffolds To Improve Rotator Cuff Tendon Tears'. **Comprehensive Biotechnology**. 2012. 5, 291-310.
 31. **S Chaudhury**, C Holland, F Vollrath, A J Carr. 'Fourier Transform Infrared (FTIR) Spectroscopic Analysis of Normal And Torn Rotator Cuff Tendons'. **Journal of Bone and Joint Surgery (Br)**. 2011; 93-B (3), 370-7.
 32. **S Chaudhury**, C Holland, F Vollrath, A J Carr. 'Dynamic Shear Analysis; A Novel Technique For Comparing Normal And Torn Rotator Cuff Tendons'. **Journal of Bone and Joint Surgery (Br)**. 2011; 93-B (7), 942-8.
 33. **S Chaudhury**, C Holland, D Porter, U Tirlapur, F Vollrath, A J Carr. 'Torn human rotator cuff tendons have reduced collagen thermal properties on differential scanning calorimetry'. **Journal of Orthopaedic Research**. 2011; 29 (12), 1938-1943.
 34. **S Chaudhury**, S A Rodeo. 'Healing of the rotator cuff; affecting the biologic and mechanical environment'. **Current Orthopaedic Practice**. 2011; 23 (1), 18-22.
 35. N Goardon, E Marchi, A Atzberger, L Quek, A Schuh, P Woll, A Mead, K Alford, R Rout, **S Chaudhury** ... P Vyas. 'Co-existence Of LMPP-Like And GMP-Like Leukemia Stem Cells In Acute Myeloid Leukemia'. **Cancer Cell**. 2011; 19 (1), 138-52.
 36. **S Chaudhury**, S E Gwilym, J Moser, A J Carr. 'Surgical options for patients with shoulder pain'. **Nature Reviews Rheumatology**. 2010; 6 (4), 217-226
 37. **S Chaudhury** N. Davies, C. McCarthy. 'Radiology Quiz'. **Current Orthopaedics**. 2008; 22 (6), 400-405.
 38. P Giannoudis, P. Richards, R. Dimitriou, **S Chaudry** and S.J. Matthews. 'Pelvic embolisation in polytrauma patients: The UK perspective'. **Injury Extra**. 2007; 38 (4), 150.