

### PEER REVIEWED PUBLICATIONS

1. **Savage R.** In vitro studies of a new method of flexor tendon repair. J Hand Surg [Br]. 1985 Jun;10(2):135-41.
2. **Savage R, Risitano G.** Flexor tendon repair using a "six strand" method of repair and early active mobilisation. J Hand Surg [Br]. 1989 Nov;14(4):396-9.
3. **Savage R.** The influence of wrist position on the minimum force required for active
4. movement of the interphalangeal joints. J Hand Surg [Br]. 1988 Aug;13(3):262-8.
5. **Savage R.** and Risitano G A new technique for primary flexor tendon repair: experimental work and results of 27 digits. Rivista di Chirurgica della Mano. 1988; 25(1)
6. **Savage R.** Repair of juxta-articular ligament avulsion: brief report. J Bone Joint Surg Br. 1988 Jan;70(1):149-50
7. **Savage R.** The mechanical effect of partial resection of the digital fibrous flexor sheath. J Hand Surg [Br]. 1990 Nov;15(4):435-42.
8. **Savage R.** Complete detachment of the epiphysis of the distal phalanx. J Hand Surg [Br]. 1990 Feb;15(1):126-8.
9. **Savage R, Burke FD, Smith NJ, Hopper I.** Carpal tunnel syndrome in association with vibration white finger. J Hand Surg [Br]. 1990 Feb;15(1):100-3.
10. **Savage R.** Transepiphyseal fracture-dislocation of the femoral neck. Injury. 1990 May;21(3):187-8
11. **Savage R.** Compartment syndrome caused by false aneurysm. J Bone Joint Surg Br. 1990 Sep;72(5):923
12. Pemberton DJ, McKibbin B, **Savage R**, Tayton K , Stuart D. Carbon-fibre reinforced plates for problem fractures. J Bone Joint Surg Br. 1992 Jan; 74(1):88-92
13. **Savage R.** Strength of various suture techniques. Letter. J Hand Surg [Br]. 1992 Dec;17(6):705
14. **Savage R, Nathdwarawala Y.** Role of CT scan in clicking forearm. Injury. 1992;23(5):356-7..

15. Shewring DJ, **Savage R**, Thomas G. Experience of the early use of technetium 99 bone scintigraphy in wrist injury. *J Hand Surg [Br]*. 1994 Feb;19(1):114-7.
16. Fowler C, Sullivan B, Williams LA, McCarthy G, **Savage R**, Palmer A. A comparison of bone scintigraphy and MRI in the early diagnosis of the occult scaphoid waist fracture. *Skeletal Radiol*. 1998 Dec;27(12):683-7.
17. Ganapathi M, **Savage R**, Jones AR. MRI assessment of the proximal pole of the scaphoid after internal fixation with a titanium alloy Herbert screw. *J Hand Surg [Br]*. 2001 Aug;26(4):326-9.
18. Bhatia R, Blackshaw G, Barr V, and **Savage R**. Comparative study of 'staples versus sutures' in skin closure, following Dupuytren's surgery. *J. Hand Surg [Br.]* 2002: 27(1):53-54
19. Ganapathi M, Joseph G, **Savage R**, Jones AR, Trimms B and Lyons K. MRI susceptibility artefact related to scaphoid screws: the effect of screw type, screw orientation and imaging parameters. *J. Hand Surg. [Br.]* 2002: (27) 2:165-170
20. **Savage R**. Book Review: The evolution of Orthopaedic Surgery: Leslie Klenerman The Royal Society of Medicine Press, Ltd. 2002:(27) 5:491
21. Diba VC, Holme SA, **Savage R** and Mills CM. Bilateral nail dystrophy associated with vibrating tool use. *British Journal of Dermatology* 2003:148 (1) 173-174
22. Barr V, Bhatia R, Hawkings P and **Savage R**. Intramuscular tenotomy of FDS in the distal forearm after surgical release of Dupuytren's Disease *J. Hand Surg. [Br.]* 2003 (28) 1:37-39
23. Tayton KJJ, Alderman PM, Roberts P, Kulkarni R, Hariharan K, **Savage R** and Jones DG. An EWTD – compliant SpR rotation. *Annals R College Surg Eng ( Suppl.)* 2004; 86: 164-166
24. **Savage R** – Letter to the Editor. Re. Biochemical analysis of a modification of Tang method of tendon repair. *J.Hand Surg [Br.]* 2004 (29) 3: 307
25. **Robert Savage** Letter to the Editor, *Journal of Hand Surgery*, 5.1.04 - re. Carpal Tunnel Syndrome and Work. Dias JJ et. al. *J.H.S.* 2004 29B:4:329-333
26. Bebbington A, Lewis P, and **Savage R**. - Cast Wedging for Orthopaedic Surgeons. *Injury* 2005;36(1):71-2

27. Bebbington A, **Savage R.** – Dupuytren’s Disease in an Infant. J Bone Joint Surg (Br.) 2005;87:111-113
28. **Savage R,** Pritchard M G, Thomas M and Newcombe R. Differential splintage for flexor tendon rehabilitation: an experimental study of it’s effect on finger flexion strength. Journal of Hand Surgery [Br.] 2005 (30) 2:168-174
29. **Savage R** – Core sutures in primary flexor tendon surgery. Chapter one: The International Federation of Societies for Surgery of the Hand – Flexor Tendon Committee Report. J.Hand Surg [Br.] 2005 (30) 1: 100-116
30. Hand Surgery in the UK: manpower, resources, standards, and training. A Working Party report by the British Society for Surgery of the Hand: 2007 Co-authors: Brennan M, Burge P, Burke FD, Dias J, Elliot D, Hobby J, Matthewson M, **Savage R,** Watson S.
31. Lewis J and **Savage R.** Two-knife scar excision. Annals of the Royal College of Surgeons. 2009; 91:81-87 (p.84)
32. **Rob Savage** and Dan Brown. Biology of tendons. In: Core Skills in Orthopaedic Surgery. The Royal College of Surgeons. 2009: 107-111
33. **Rob Savage** and Dan Brown. Tendon repair options and principles. In: Core Skills in Orthopaedic Surgery. The Royal College of Surgeons. 2009: 113-118
34. **Rob Savage** and Dan Brown. Tendon rehabilitation. In: Core Skills in Orthopaedic Surgery. The Royal College of Surgeons. 2009: 119-123
35. **Rob Savage,** Dan Brown and Guy Stern. Tendon repairs. In: Specialty Skills in Plastic Surgery. The Royal College of Surgeons. 2010: 35-51
36. Oxford Textbook of Trauma and Orthopaedics. Oxford University Press. Chapter author: Flexor tendon injuries. **Robert Savage.** 2011. 1024-1030
37. Tendon surgery of the hand. Saunders Elsevier. Editors: Tang, Amadio, Guimberteau, Chang. Chapter author: Evolution of end to end surgical tendon repairs. **Robert Savage.** 2012. 239-245
38. Tendon surgery of the hand. Saunders Elsevier. Editors: Tang, Amadio, Guimberteau, Chang. Chapter author: Current status and the future. **Robert Savage.** 2012. 442-443

39. Tendon repair and reconstruction. Hand Clinics: Editors: Tang and Lee. Chapter author: Current practice of primary flexor tendon repair: a global view. Tang, Amadio, Boyer, **Savage**, Zhao, Sandow, Lee, Wolfe. 2013. 183
40. **Savage R**. The search for the ideal tendon repair in zone 2: strand number, anchor points and suture thickness. Review Article. The Journal of Hand Surgery (European Volume) 2014, Vol 39E (1) 20-29
41. Trickett RW, **Savage R**, and Logan AJ. Angular correction related to excision of specific cords in fasciectomy for Dupuytren's disease. J Hand Surg (Eur Vol) 2014, Vol. 39E (5) 472-476

## PRESENTATIONS OF ORIGINAL SCIENTIFIC PAPERS

Ganapathi M, **Savage R** and Jones A.

The role of MRI scan in assessing avascular necrosis following treatment of scaphoid fracture.

Orthocelt 2000, Newport.

Bhatia R, Blackshaw G, Barr V, and **Savage R**.

Comparative study of 'staples versus sutures' in skin closure, following Dupuytren's surgery.

BSSH Autumn Scientific Meeting – London 2001

Welsh Orthopaedic Society – Cardiff 2002

Barr V, Bhatia R, Hawkings P and **Savage R**.

Intramuscular tenotomy of FDS in the distal forearm after surgical release of Dupuytren's Disease.

1<sup>st</sup> Derby Hand Club – Derby September 2002

Ganapathi M, Joseph G, **Savage R**, Jones A, Timms B and Lyons K.

Scaphoid screws and MRI artefacts

All Wales Training Day Cardiff - September 2002

Jones SA, Ennis O, and **Savage R**

Vascularised pedicle grafting for scaphoid non-union: clinical and computed tomography results.

BSSH Autumn Scientific Meeting – Edinburgh 2002

Ganapathi M, Joseph G, **Savage R**, Jones A, Timms B and Lyons K.

Scaphoid screws and MRI artefacts

EFFORT 2003, Helsinki June 2003.

**Savage R**

Differential splintage in flexor tendon rehabilitation; its effect on finger flexion strength

2<sup>nd</sup> Derby hand club – Derby, October 2003

Ganapathi M and **Savage R.**

MRI metal artefact in scaphoid fractures – the effect of wrist position

BSSH Autumn scientific meeting – London Oct 2003

Bebbington A, Pellard S and **Savage R.**

A variation of FRC reconstruction for trapezium arthroplasty – a review of 33 cases.

BSSH Autumn scientific meeting – London Oct 2003

**Savage R.** – Facilitator at the BSSH Research Away Day – Birmingham 26<sup>th</sup> March 2004

Hobby J, Brennan M, Burke FD, Dias J, Elliot D, Matthewson MH and **Savage R.**

Current provision of Hand Surgery in England, Wales and Northern Ireland.

BOA Conference, Manchester, September 17<sup>th</sup> 2004

**Savage R,** Pritchard M G, Thomas M and Newcombe R

Differential splintage flexor tendon rehabilitation: it's effect on finger flexion strength.

BSSH Spring Scientific Meeting – Belfast 2004

Welsh Orthopaedic Society Meeting 13<sup>th</sup> May 2005 - Cardiff

Twine C and **Savage R**

MRSA ring-fence in elective orthopaedics and multidisciplinary trauma management

BOA Conference, Birmingham, Sept 21<sup>st</sup> 2005

Cartwright-Terry M, Miah A, **Savage R**

Using the Patient Evaluation Measure to Audit Carpal Tunnel Surgery in our Unit

BSSH Spring Scientific Meeting – Leicester 2008

Brown J, Yewlett A and **Savage R**

Dupuytren's fasciectomy with excision of retrovascular tissue.

BSSH and ASSH Combined Scientific Meeting, Church House Conference Centre, London, 30<sup>th</sup> April – 2<sup>nd</sup> May 2009

Peltz T, Haddad R, **Savage R**, Scougall P, Walsh W

A comparison of human, porcine and ovine deep flexor tendons: what is the ideal animal model for in vitro flexor tendon studies?

FESSH Scientific Meeting, Bucharest, Romania. 24<sup>th</sup>-26<sup>th</sup> June 2010.

## **NATIONAL APPOINTMENTS**

Honorary Treasurer for the British Society for Surgery of the Hand 2010-2014

Honorary Secretary for the British Society for Surgery of the Hand 2004-2006

Editorial board for the Journal of Hand Surgery 1997-2000

Council member for the British Society for Surgery of the Hand 2002-2005

Member of the Committee of Management for the Journal of Hand Surgery 2002-04

Member of profile document committee for Hand surgery resources 2003-04

Member of Education and Training committee for the British Society for Surgery of the Hand 2004-2006

Member of Programme committee for the British Society for Surgery of the Hand 2004-2006

Member of Research and Audit committee for the British Society for Surgery of the Hand 2004-2008

BSSH representative on the BOA Board of Surgical Specialties 2005 – 2008

## NATIONAL TEACHING ACTIVITIES

National lecture on tendon repair techniques for the British Society for Surgery of the Hand 1997

Demonstrator on practical advanced course on tendon repairs – Royal College of Surgeons 1997

National lecture on tendon repair techniques for the British Society for Surgery of the Hand – Hand Instructional Course 2000

Lecturer and demonstrator on advanced surgical skills course – Wrist Surgery – Royal College of Surgeons 2003

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills Course – **Cardiff**. 11<sup>th</sup> May 2005. Suture Techniques in Primary Flexor Tendon Surgery.

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills Course – **Cardiff**. 23<sup>rd</sup> Nov. 2005. Suture Techniques in Primary Flexor Tendon Surgery - Tendon rehabilitation - K-wire fixation of distal radius fractures

BSSH Instructional Course in hand Surgery 3.3 – February 2006 – **Manchester**: Guest lecturer on Acute Tendon Repair Rupture.

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills in Orthopaedic Surgery Course – **Cardiff**. 10<sup>th</sup> May 2006. Biology and repair of Hand Tendons

Guest Lecturer for the British Society for Surgery of the Hand [BSSH], Instructional course on Distal Radius Fractures, at the British Orthopaedic Association [BOA] Annual Congress. The Scottish Exhibition and Conference Centre [SECC]: **Glasgow**, 29<sup>th</sup> September 2006

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills in Orthopaedic Surgery Course – **Cardiff**. 22<sup>nd</sup> November 2006. Biology and Repair of Hand Tendons

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills in Orthopaedic Surgery Course – **Cardiff**. 23<sup>rd</sup> May 2007.

Biology and Repair of Hand Tendons

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills in Orthopaedic Surgery Course – **Cardiff**. 22<sup>nd</sup> November 2006.

Principles of post-operative rehabilitation.

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills in Orthopaedic Surgery Course – **Cardiff**. 21<sup>nd</sup> November 2007.

Biology and Repair of Hand Tendons

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills in Orthopaedic Surgery Course – **Cardiff**. 23<sup>rd</sup> November 2007.

Principles of Wire fixation, Tension Band wiring and Olecranon fractures

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills in Orthopaedic Surgery Course – **Cardiff**. 21<sup>nd</sup> May 2008.

Biology and Repair of Hand Tendons

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills in Orthopaedic Surgery Course – **Cardiff**. 23<sup>rd</sup> May 2008.

Principles of Wire fixation, Tension Band wiring and Olecranon fractures

Guest lecturer on BSSH Instructional Course in Hand Surgery 4.3 – 6/7<sup>th</sup> February 2009 – **Manchester**

Flexor Tendon Repair Techniques – Suture Techniques

Flexor Tendon Repair – Methods of Assessment and Outcome

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills in Orthopaedic Surgery Course – **Cardiff**. 6th May 2009.

Biology and Repair of Hand Tendons

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills in Orthopaedic Surgery Course – **Cardiff**. 8th May 2009.

Principles of Wire fixation, Tension Band wiring and Olecranon fractures

Tutor: Cardiff Revision VIVA Course for FRCS Orth: 5<sup>th</sup> October 2010

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills in Orthopaedic Surgery Course – **Cardiff**. 4<sup>th</sup> November 2009.

Biology and Repair of Hand Tendons

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills in Orthopaedic Surgery Course – **Cardiff**. 6<sup>th</sup> November 2009.

Principles of Wire fixation, Tension Band wiring and Olecranon fractures

Tutor: Cardiff Revision VIVA Course for FRCS Orth: 18<sup>th</sup> January 2010

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills in Orthopaedic Surgery Course – **Cardiff**. 16<sup>th</sup> April 2010.

Principles of Wire fixation, Tension Band wiring and Olecranon fractures

Guest Lecturer on BSSH Scientific Meeting, Manchester April 22<sup>nd</sup> 2010 – Instructional Symposium – Distal Radius Fractures – Use of K-Wires in Distal Radius Fractures

Moderator on BSSH Scientific Meeting, Manchester April 22<sup>nd</sup> 2010 – Tendon Repair Live Surgery.

BSSH lead on HA'N'D project: Hand Assessment 'N' Diagnosis: for GPs and medical students

Guest Lecturer at Symposium on 'State of the Art in Tendon Repairs' at BSSH Scientific Meeting, Manchester March 31<sup>st</sup> 2011: Why multi-stranded repairs are best.

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills in Orthopaedic Surgery Course – **Cardiff**. May 4<sup>th</sup> 2011

Biology and Repair of Hand Tendons. Post operative Rehabilitation.

Tutor: Cardiff Revision VIVA Course for FRCS Orth: July 4<sup>th</sup> 2011

Guest Lecturer and demonstrator for the Royal College of Surgeons, Core Skills in Orthopaedic Surgery Course – **Cardiff**. Nov 2<sup>nd</sup> 2011

Biology and Repair of Hand Tendons

Guest lecturer on BSSH Instructional Course in Hand Surgery 5.3 – 3/4<sup>th</sup> February 2012 – **Manchester**  
Flexor Tendon Repair Techniques – Suture Techniques

Tutor: Cardiff Revision VIVA Course for FRCS Orth: Jan 14<sup>th</sup> 2013

Tutor: Cardiff Revision VIVA Course for FRCS Orth: July 1<sup>st</sup> 2013

Tutor: Cardiff Revision VIVA Course for FRCS Orth: June 30<sup>th</sup> 2014

### **INTERNATIONAL TEACHING ACTIVITIES**

Guest Lecturer for the symposium on flexor tendon injuries, at the combined Spring Meeting of BSSH and SECMA – **Valladolid, Spain**. 15<sup>th</sup> April 2005

The Core Suture in Primary Flexor Tendon Surgery.

Invited Speaker for Flexor Tendon Symposium, at the IFFSH Congress, **Sydney, Australia** – 25<sup>th</sup> March 2007

The Relevance of the Pulley System

Invited Speaker for Flexor Tendon Symposium, at the FESSH Congress, **Athens, Greece**

June 27-30 2007

Acute Flexor Tendon Repair, zone 2: The rehabilitative rationale.

The Rationale for early active rehabilitation: Stronger repairs

Invited Speaker for Flexor Tendon Symposium, at the Societa Italiano di Chirurgia della Mano, **Trapani, Sicily** Sept 15<sup>th</sup> -17<sup>th</sup> 2008-10-27

New Concepts in Flexor Tendon Repair – Primary Repair and Rehabilitation

Invited Speaker for Flexor Tendon Symposium, at the IFFSH Congress, **Seoul, S. Korea** – 3<sup>rd</sup> November 2010: Early Active Motion Protocols: Flexor Tendon Symposium

Invited Speaker for Flexor Tendon Symposium, at the Affiliated Hospital of Nantong University, **Nantong, China** – 28<sup>th</sup> October 2010

Reducing forces in tendon mobilisation.

Invited Speaker for Flexor Tendon Symposium, at the Affiliated Hospital of Nantong University, **Nantong, China** – 28<sup>th</sup> October 2010

Vascularised bone graft for scaphoid non-union.

Invited Speaker for BSSH Flexor Tendon Symposium: a British Update: Multistranded suture repair - how I do it: American Society for Surgery of the Hand. **Las Vegas, Utah, USA**. September 9<sup>th</sup> 2011.

Invited Speaker for BSSH Flexor Tendon Symposium: a British Update: What to do with the annular pulleys: American Society for Surgery of the Hand. **Las Vegas, Utah, USA**. September 9<sup>th</sup> 2011.

Invited Speaker for ASSH Flexor Tendon Symposium: My Favourite Flexor Tendon Repair and Why: Moderator, Prof James Chang: American Society for Surgery of the Hand. **Chicago, USA**. September 7<sup>th</sup> 2012.

## **UNIVERSITY OF WALES COLLEGE OF MEDICINE**

2000 and onward: Honorary title of Clinical Teacher in the Academic Department of Surgery: Cardiff University

Intermediate examiner for MB 2002-05

Intermediate examiner for MB year 3 clinical competence examination May 2008 – 2011

## REGIONAL AND LOCAL TEACHING

Teaching of SHO`s and Registrars on clinical and radiographic cases

Co-ordinator and lecturer for All Wales post-graduate FRCS. Orth. Course – Hand Term:1991-2005

Co-ordinator and lecturer for All Wales post-graduate FRCS. Orth. Course – Hand Term 2007

Co-ordinator and lecturer for All Wales post-graduate FRCS. Orth. Course – Hand Term 2010

Co-ordinator and lecturer for All Wales post-graduate FRCS. Orth. Course – Hand Term 2013

April 19<sup>th</sup> – Rheumatoid hand surgery

May 17<sup>th</sup> – Factitious disorder of the hand and upper limb

May 24<sup>th</sup> – Dupuytren`s surgery

June 7<sup>th</sup> – Tendon repair techniques

June 28<sup>th</sup> – Compartment syndrome / Skiers thumb

Lecturer on Royal Gwent Hospital Plaster Skills Course 2006

Lecturer on Royal Gwent Hospital Plaster Skills Course 2007

Lecturer on Royal Gwent Hospital Plaster Skills Course 2008

Lecturer on Royal Gwent Hospital Plaster Skills Course 2009

Lecturer on Royal Gwent Hospital Plaster Skills Course 2010

Lecturer on Royal Gwent Hospital Plaster Skills Course 2011

Lecturer on Royal Gwent Hospital Plaster Skills Course 2012

Lecturer on Royal Gwent Hospital Plaster Skills Course 2013

Lecturer on Royal Gwent Hospital Plaster Skills Course 2014

Lecturer to Multi-Professional Training 3 Course – Royal Gwent Hospital, Newport: Feb2005

Common Hand Pathologies and Nerve Compression : Diagnosis and Indications

Guest lecturer at the Caerphilly Local Health Board Clinical Forum, Aberbargoed. 10<sup>th</sup> May 2006:  
Rheumatoid Hand Surgery.

Guest Lecturer to the Gwent Medical Society 17<sup>th</sup> October 2006: Hand Assessment and Indication for  
Surgery.

Initial Tendon Assessment: Minor Injury Unit, Monnow Vale Hospital, Extended Nurse Practitioners.  
June 2011