

Associate Professor Craig S Waller

Orthopaedic Surgeon



Current Appointments

Visiting Orthopaedic Surgeon

- St Vincent's Private Hospital
- The Prince of Wales Private Hospital
- St Luke's Private Hospital
- Macquarie University Hospital

Associate Professor and Head of the Department of Sports Medicine

- Australian School of Advanced Medicine
- Macquarie University

Honorary Professor of Orthopaedic Surgery

- Peking University 3rd Hospital, Beijing, China

Memberships

- Royal College of Surgeons of Edinburgh
- Royal Australasian College of Surgeons
- Australian Orthopaedic Association
- Australian Association of Orthopaedic Surgeons
- Arthroplasty Society of Australia
- International Society for Arthroscopy, Knee and Orthopaedic Sports Surgery (ISAKOS)
- International Cartilage Repair Society (ICRS)
- Asia Pacific Arthroplasty Society (Founding member)
- Australian Medical Association
- Eastern Suburbs Medical Association
- The Neuromuscular Society

Education

Hurstville Boys High
Blakehurst High School
University of New South Wales
University of Sydney
Macquarie University

Qualifications

Undergraduate

1977-1981

- University of New South Wales
- Bachelor of Medicine
- Bachelor of Surgery
- Honours Class One, February 1982
- University Medal

Postgraduate

- Fellow of the Royal Australasian College of Surgeons 1989
- Certificate in Medical Education, Macquarie University 2008
- Fellow of the Royal College of Surgeons of Edinburgh 1989
- Fellow of the Australian Orthopaedic Association 1992



Academic Awards and Fellowships

- Certificate in Mathematics, Sydney University 2001

Undergraduate

- University Medal in Medicine
- Wallace Wurth Prize for General Proficiency throughout the Medical Course
- Staff Association Prize for General Proficiency by a Graduating Student in the Clinical Years
- Graduate Prize in Surgery
- The Gilbert Ashby Memorial Prize
- The C.V. Salisbury Memorial Prize
- The A.C. Thomas Memorial Prize
- The H.B. and R.L. Melville Prize
- The Keith Harrison Memorial Prize for Proficiency in Medicine, Final Degree Examinations, 1981

Postgraduate

- Zimmer Overseas Travelling Fellow 1987
- Associate Professor of Orthopaedic Surgery
- Australian School of Advanced Medicine. Macquarie University 2008
- Honorary Professor of Orthopaedic Surgery
- Peking University 3rd Hospital, Beijing, China. 2009.

Hospital Appointments

Macquarie University Hospital	2010- Current
St Vincent's Private Hospital	2007- Current
Canada Bay Private Hospital	2004-2007
Nepean Private Hospital	2002-2004
The Prince of Wales Private Hospital	1997 – Current
Hurstville Community Hospital	1995-2000
St Luke's Private Hospital	1993 – Current
Kensington Private Hospital	1992-1997
The Scottish Hospital	1989-1998
Westside Private Hospital	
Honorary Medical Officer The Prince of Wales Hospital	2001- Current
Senior Orthopaedic Registrar Baulkham Hills Private Hospital, Baulkham Hills	1988
Senior Orthopaedic Registrar Senior Surgical Officer Zimmer overseas travelling fellow	1987



The Royal National Orthopaedic Hospital, London
 Middlesex Hospital, London
 Orthopaedic Registrar 1986
 St Vincent's Hospital,
 St Vincent's Private Hospital

Orthopaedic Registrar 1985
 The Prince of Wales Hospital

Intern, R.M.O. 1922-1983
 The Prince of Wales Hospital, Randwick

PUBLICATIONS

Edgar MA, Ransford AO, Waller CS, Paterson JMH.
 A checklist for Spinal Cord Monitoring.
 Is it a True or False Positive Change?
 Journal of Bone and Joint Surgery (Br.)
 Volume 69B p854, 1987

Paterson JMH, Waller CS, Catterall A.
 Lower Limb Lengthening by a Modified Wagner Technique
 Journal of Paediatric Orthopaedics.
 Volume 9, Number 2, 1989. p 129-133.

Forbes HJ, Allen W, Jones SJ, Edgar MA, Webb PJ, Ransford AO,
 Waller CS.
 Spinal Cord Monitoring in Scoliosis Surgery.
 Experience with 1168 cases.
 Journal of Bone and Joint Surgery (Br)
 Volume 73B, No3. p 487-94, May 1991.

Waller CS.
 Comparison of Patellar Tendon versus Hamstring Autografts in Anterior
 Cruciate Ligament Reconstruction of the Knee
 Journal of Bone and Joint Surgery
 Volume 76B 1994 Proceedings

Waller CS.
 A new surgical technique for reconstruction of the anterior cruciate
 ligament using quadrupled semi-tendinosis and gracilis tendon grafts.
 Journal of Bone and Joint Surgery
 Volume 76B 1994 Proceedings.

Nicklin S, Waller C, Walker P, Chung WK, Walsh W.
 In vitro structural properties of braided tendon grafts.
 American Journal of Sports Medicine. 2000 Nov-Dec;28(6):790-3.

London N J, Hayes DA, Waller CS, O'Connell MK, Clifford AG.
 A novel implantable load absorber for the Treatment of medial
 compartment knee OA
 International Cartilage Repair Society Congress;
 Barcelona, Spain. September 2010.

Waller C, Hayes D, Block JE, London NJ.
 Unload it: The Key to the Treatment of Knee Osteoarthritis
 Knee Surg Sports Traumatol Arthroscopy
 DOI: 10.1007/s00167-011-1403-6
 Published 5th Feb, 2011.



London N, Wilton T, Williams R, Waller CS, Smith J, Guy S.
An Extra-Capsular Load Absorber Implant for Medial Knee OA.
5th Basel International Knee Congress; May 2011; Basel, Switzerland 2011.

London N, Hayes D, Waller CS, Williams R, Smith J.
Bridging the Treatment Gap: A Load Absorber Solution for Young,
Active Knee OA Patients. 12th EFFORT Congress; June 2011; Copenhagen,
Denmark 2011.

London N, Smith J, Guy S, Hayes D, Waller CS, Williams R.
Treatment of Medial Compartment Knee Osteoarthritis using an
implantable load absorber: UK and Australian Experience. British
Association for Surgery of the Knee (BASK); April 2011; Cardiff 2011.

Hayes DA, Waller CS, London NJ.
Unload it: The Key to the Treatment of Knee Osteoarthritis
ACTA Orthopædica. 2011.

Hayes, D., C.S. Waller, and N. London
Chapter 8: Unloading the Osteoarthritic Knee with the KineSpring
System: Surgical Technique and Early Clinical Results. ESSKA / Eikon
Best Practices Book Series: Partial Knee Replacement: Uni and Bi
Compartmental Options

Almqvist F, London N, Hayes D, Waller C, Williams R, Verdonk T, Wilton
T, Richardson J.

The COAST study: One-Year European Results with a Load Absorbing
Implant for Patients with Medial Knee Osteoarthritis.

13th EFFORT Congress: May 2012: Berlin, Germany 2012.

Almqvist KF, Verdonk R, Waller C, et al.

One-year results of the COAST study: A European evaluation of an
internal absorber system as an early unloading therapy for patients
with medial knee osteoarthritis (OA). Paper #FP12-1122..

European Society of Sports Traumatology, Knee Surgery and
Arthroscopy Congress 2012. May 2-5. Geneva

London N, Parker J, Williams R, Almqvist F, Verdonk R, Wilton T,
Richardson J, Waller C, Hayes D.

The KineSpring® System: An Early Surgical Option for Patients with
Medial Knee OA

13th EFFORT Congress: May 2012: Berlin, Germany 2012.

Waller CS

The Silent Hip 'neck only' prosthesis in total hip replacement.

Prospective study with a minimum two-year follow up. Clinical and
radiographic review.

Journal of Bone and Joint Surgery Br. 2012 Vol. 94-B SUPP XXIII p.227.
2012.

Waller CS

Mobile spacers in the treatment of medial compartment osteoarthritis
of the knee. Failure upon failure upon failure.

Journal of Bone and Joint Surgery Br. 2012 Vol. 94-B SUPP XXIII p.97.
2012.



Waller CS, McTighe T
An Alternative Conservative Approach to Hip Reconstruction
Journal of Reconstructive Review Vol3 No2 September 2013

David A Hayes, Craig S Waller, Chuan Silvia Li, Christopher Vannabouathong, Sheila Sprague, Mohit Bhandri
Safety and Feasibility of a KineSpring Knee System for the Treatment of Osteoarthritis: A Case Series
Clinical Medicine Insights Arthritis and Musculoskeletal Disorders. 2015;8 p. 47-54

Hayes, D., C.S. Waller, and N. London, Chapter 8
Unloading the Osteoarthritic Knee with the KineSpring System: Surgical Technique and Early Clinical Results. ESSKA / Eikon Best Practices Book Series: Partial Knee Replacement: Uni and Bi Compartmental Options

Hayes D., McNicholas M., Waller C.
Five year survival analysis of an implantable knee joint unloader
ESSKA 2016 Proceedings

PUBLICATIONS & ABSTRACTS

British Scoliosis Society 11th Annual Meeting, Leeds, 1987
A checklist for Spinal Cord Monitoring in Scoliosis Surgery. Is it a True or False Positive Change?

Australian Orthopaedic Association 48th Annual General Meeting, Perth, 1988
Limb Lengthening by a Modified Wagner Technique.
Spinal Cord Monitoring in Scoliosis Surgery. Experience with 754 cases.

Australian Orthopaedic Registrars Association Annual Meeting, Hunter Valley, 1988
Limb Lengthening by a Modified Wagner Technique.
Spinal Cord Monitoring in Scoliosis Surgery

Cervical Spine Research Society Annual Meeting, Plymouth, 1988
Spinal Cord Monitoring. Analysis of 750 cases
Edgar MA, Ransford AO, Waller CS

Australian College of Sports Physicians Annual Scientific Meeting, Sydney 1991.
Soft Tissue Impingement Lesions in the Ankle. Diagnosis and Results of Treatment by Arthroscopic Debridement.

Australian Orthopaedic Association Annual Scientific Meeting, Sydney, October 1994
Comparison of Patellar Tendon Autograft versus Hamstring Grafts in Anterior Cruciate Ligament Reconstruction. Results of 500 cases.
also published in proceedings of the Journal of Bone and Joint Surgery
A new surgical technique for reconstruction of the anterior cruciate ligament using quadrupled semi-tendinosis and gracilis tendon grafts.
also published in proceedings of the Journal of Bone and Joint Surgery

Asia Pacific Arthroplasty Society, Inaugural Meeting, Gold Coast, Queensland 1998.
Unicondylar knee replacement. Details of the minimally invasive technique.



Australian Orthopaedic Association Annual Scientific Meeting, Brisbane 1999.

Comparison of braided versus unbraided hamstring grafts in anterior cruciate ligament reconstruction. A biomechanical study using a sheep model.

Also published in the proceedings of the Journal of Bone and Joint Surgery.

Asian Federation of Orthopaedic research and Trauma Meeting, Chennai, India, February 1999.

Injuries to the posterior cruciate ligament. Surgical reconstruction, Techniques and results.

Anterior cruciate ligament reconstruction. Patellar tendon grafts versus hamstrings autografts, Techniques and results.

Minimally invasive unicondylar knee replacement, Techniques and results.

Asia Pacific Arthroplasty Society Meeting, New Delhi, India 1999.

Unicondylar knee replacement.

Instructional Course Lecture. Patella replacement in total knee arthroplasty.

Smith and Nephew Annual Winter Meeting, Palm Cove, Queensland 1999.

Anterior cruciate ligament reconstruction using fixation with a transfix post;

Techniques and results.

Minimally invasive unicondylar knee replacement.

Arthroplasty Meeting, Queenstown, New Zealand. August 1999.

Braided versus unbraided hamstring grafts in ACL reconstruction. A biomechanical study and clinical results.

Unicondylar knee replacement. Technique and results in 106 cases.

Australian Orthopaedic Association Continuing Education Meeting.

Update in Joint Replacement. Sydney 2000.

Minimally invasive unicondylar knee replacement.

Asia Pacific Arthroplasty Society Meeting, Shanghai, China 2000

Unicondylar knee replacement.

Patellofemoral problems in total knee replacement.

Management of the stiff total knee replacement.

Orthopaedic and Sports Medicine Meeting, Queenstown, New Zealand 2000.

Autogenous platelet therapy and its effects on healing of tendons in a bony tunnel. A biomechanical, histological and histochemical study in a sheep model.

Combined New Zealand and Australian Orthopaedic Association Meeting, Queenstown, N.Z. 2001.

Augmentation of Tendon Bone Healing Using Autologous Growth Factors

Nepean Centre for Joint Replacement and Reconstruction. Instructional Surgical Course for International Surgeons, Sydney 2002.

Articular cartilage repair and reconstruction

Principles of knee replacement



ASSOCIATE PROFESSOR CRAIG WALLER

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Live surgical demonstrations

Asia Pacific Arthroplasty Society Meeting, Phuket, Thailand 2002.
Mono-compartment arthritis of the knee, Surgical options of treatment
Unicondylar knee replacement

Hong Kong Orthopaedic Society Meeting, Hong Kong 2002
Unicondylar arthritis of the knee
The Preservation knee replacement
Design rationale. Surgical options.
Live surgical demonstrations

Combined 50th Annual Meeting of the Singapore Orthopaedic Association and The Western Pacific Orthopaedic Association, Singapore, October 2002.
Mosaicplasty for the treatment of osteochondral defects
Surgical treatment of unicondylar osteoarthritis of the knee

4th Annual Delta Course in Joint Replacement 2002
Articular cartilage refurbishment surgery
Anterior cruciate ligament reconstruction
Unicondylar knee replacement
Live surgical demonstrations

De Puy International Annual Meeting, Barcelona 2003
Knee replacement using computer assisted navigation
Unicondylar knee surgery

Western Sydney General Practitioners Society 2003
Early intervention for osteoarthritis of the knee

Sydney Physiotherapy Conference 2003
Early intervention for knee arthritis

Sydney Physiotherapy Conference 2004
Treatment of mono-compartment arthritis in the knee

Eastern Sydney General Practitioners Meeting 2005
Early intervention for osteoarthritis of the knee

Challenges in Knee Arthroplasty, Sydney 2006
Early intervention for knee arthritis

Sydney Physiotherapy Conference 2006
Anterior cruciate ligament reconstruction

Stryker Challenges in Knee Arthroplasty, Sydney 2007
Early Intervention, Spacers, UKR and others

De Puy Hip Meeting, Hamburg, Germany 2007
Modular Femoral Head Design. A new Concept

Asia Pacific Knee Symposium, Macau 2007
Early Intervention for Osteoarthritis of the Knee
Unicondylar Knee Replacement
Challenges in TKR
Trends and Future Directions in Knee Replacement

De Puy Hip Meeting, Sydney 2007



Modular Femoral Head Design. A new concept

Prince of Wales Private Hospital Updates 2007.
Update on ACL Reconstruction
Management of Meniscal and Chondral Injuries in the Knee
Double bundle ACL Reconstruction

Stryker Meeting, Sydney 2007
Design and Development of the Freedom Partial Knee Replacement

Stryker Meeting, San Diego 2007
Design Concepts for Unicondylar Knee Replacement

Tribos Meeting, Noosa, Qld. 2008
Design Considerations in Unicondylar Knee Replacement

St Vincent's Clinic Lecture Series, 2008
Revision ACL Reconstruction

Arthroplasty Society of Australia, Noosa Heads 2009.
2-4 year follow up of the Silent Hip "neck only" femoral stem in THA

St Vincent's Clinic Lecture Series 2009
Why double tunnel ACL reconstruction is unnecessary and potentially more likely to fail than single bundle ACL reconstruction

Delta Surgical Course, Chengdu, China, April 2009
Complex Primary and Revision Joint Replacement Surgery
Modern strategies to reduce wear in TKA
The S-ROM mobile bearing hinge in revision TKA
Live surgery demonstrations

11th Annual Delta Surgical Course, Sydney, Australia, 2009
Computer assisted navigation in TKA

American Knee Society Annual Meeting, 2009
Evaluation of a novel extra-capsular joint load reduction system for the knee

William J. Maloney, MD; Paul Tornetta III, MD; David A. Hayes, MD;
Craig S Waller, MD; Matthew J. Allen, Vet MB, PhD, Thomas W. Bauer,
MD, PhD; Anton G Clifford, PhD.

Pre-Clinical Evaluation of a Novel Extra-Capsular Joint Load Reduction System for the Knee
William J. Maloney, MD; Paul Tornetta III, MD; David A. Hayes, MD;
Craig S Waller MD; Matthew J. Allen, Vet MB, PhD; Thomas W. Bauer, MD, PhD

12th annual meeting of the Asia Pacific Arthroplasty Society, Xian, China, September 2009
Modern strategies for wear reduction in total knee replacement
Clinical and scientific basis for the cementless primary stem
Prosthetic options for management of hip instability
Patient Specific Navigation in total knee replacement
Corail hip stem: critical technique

Peking University 3rd Hospital, Lecture Series September 2009
Mobile bearing total knee replacement



Jishuitan Hospital, Beijing, Lecture Series September 2009
Ligament balancing in revision total knee replacement
Current status of joint replacement surgery

301 Military Hospital, Beijing, Lecture Series September 2009
Principles of revision total knee replacement
ACL reconstruction: Single bundle vs double bundle technique

Renmin Hospital, Beijing, Lecture Series September 2009
Current status of ACL reconstruction
Ligament balancing in total knee replacement

Australian Orthopaedic Association Annual Scientific Meeting, Cairns,
October 2009.
Mobile spacers for the treatment of osteoarthritis of the knee. Failure
after failure after failure

Australian Orthopaedic Association Annual Scientific Meeting, Cairns,
October 2009.
2-4 year follow up of the Silent Hip “neck only” femoral stem in THA
Poster presentation

Mechanical adaptations following unicompartmental knee arthroplasty
With D Dabirrahmani, M Gillies, J Sullivan, and M Neil
The clinical relevance of load reductions provided by a
unicompartmental knee absorber: A cadaveric study
D Hayes, C Waller, M Maloney, A Clifford, F Werner, M Connell
and J Saliman

Hayes, D.A., Waller, C.S et al., Assessing The Likely Clinical Effectiveness
Of A Novel Unicompartmental Knee Absorber

Orthopedic Research Society, March 7 2010, New Orleans, USA
Evaluation of a Novel Knee Load-Bypassing Device in a Sheep Model
Allen MJ, Waller CS, Townsend KL, Bauer TW, O'Connell M, Gabriel
S, Clifford A

Australian Orthopaedic Association COE meeting, Sydney, March 2010
The Young OA Knee: A Treatment Dilemma.
Bilateral Knee Replacement. Is it safe?

International Cartilage Research Society, 9TH World Congress,
Madrid, Spain, Sept, 2010
A novel implantable load absorber for the Treatment of medial
compartment knee OA
London N J; Hayes D A; Waller C S; O'Connell, M K; Clifford, A G

6th Annual Australian College of Sports Physicians Clinical Sports
Medicine
Conference, Sydney 2011.
ACL reconstruction. Graft choice. LARS vs Hamstrings

5th Basel International Knee Congress; May 2011; Basel, Switzerland 2011
An Extra-Capsular Load Absorber Implant for Medial Knee OA.
London N, Wilton T, Williams R, Waller CS, Smith J, Guy S.



12th EFFORT Congress; June 2011; Copenhagen, Denmark 2011.
Bridging the Treatment Gap: A Load Absorber Solution for Young,
Active Knee OA Patients.

London N, Hayes D, Waller CS, Williams R, Smith J.

British Association for Surgery of the Knee (BASK); April 2011; Cardiff
2011.

Treatment of Medial Compartment Knee Osteoarthritis using an
implantable load absorber: UK and Australian Experience

London N, Smith J, Guy S, Hayes D, Waller CS, Williams R.

Combined New Zealand Orthopaedic Association for Knee and Sports
Surgery and the Australian Orthopaedic Association Knee Society
Meeting, Queenstown, NZ, October 2011

Creation of a new and novel orthopaedic implant: Clinical challenges
and design solutions.

David Hayes, Craig Waller

Surgical technique and clinical results for an extra-capsular load
absorber implant for patients with medial knee OA.

Craig Waller, David Hayes.

Combined Annual Scientific Meeting of the Australian Orthopaedic
Association and the New Zealand Orthopaedic Association. Rotorua, NZ,
October 2011

Joint Unloading to Treat OA of the knee. A Practical Option

European Society of Sports Traumatology, Knee Surgery and
Arthroscopy Congress 2012. May 2-5. Geneva

Almqvist KF, Verdonk R, Waller C, et al. One-year results of the COAST
study: A European evaluation of an internal absorber system as an early
unloading therapy for patients with medial knee osteoarthritis (OA).
Paper #FP12-1122.

International Society for Technology in Arthroplasty (ISTA) 25TH
ANNUAL MEETING, Sydney, October 2012

The OAKS Study: Australian Results with a Load Absorbing Implant for
Patients with Medial Knee OA

Global Orthopaedics Meeting, Sydney, 25th July 2013

Design, development and results of the Paragon cementless hip stem

Pacific Rim Orthopaedic Symposium, Sapporo, Japan, August, 2014

Fixed bearing medial unicondylar knee replacements

Femoral rotation in total knee replacement

Surgical approaches in revision knee replacements

Australian Orthopaedic Association Continuing Education Meeting,
Sydney, May 2015

Dual Mobility Hip Replacement

The Evolution of my Knee Arthroplasty Practice

16th Asia Pacific Arthroplasty Society Meeting, New Delhi, India,
September 2015

Direct Anterior Hip Replacement

Critical Aspects of Ligament Balancing in Total Knee Replacement



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Bilateral Knee Replacement
Dual Mobility Hip Replacement
Modern Strategies to Reduce Wear in TKR

European Society of Sports Traumatology, Knee Surgery, and
Arthroscopy
ESSKA Barcelona May 2016
Hayes D., McNicholas M., Waller C.
Five-year survival analysis of an implantable knee joint unloader

Australian Innovation in Total Hip Arthroplasty, Sydney, November 2016
Direct anterior approach total hip replacement
Dual mobility in total hip replacement

Zimmer Biomet Symposium on Joint Replacement, Penang, Malaysia,
September 2016, Penang, Malaysia
Direct Anterior Approach THA, Learning curve and successes
The use of Dual Mobility for primary and revision THA
Expert Panel on revision hip and knee replacement- Complex Case
Discussions

17th Asia Pacific Arthroplasty Society Meeting, Penang, Malaysia,
September 2016
Bilateral total knee arthroplasty
Video Technique Session - Direct anterior total hip replacement
Dual mobility total hip replacement
Expert panel discussion. Complex hip and knee replacement

18th Asia Pacific Arthroplasty Society Meeting, Chennai, India,
September 2017
The modern cementless stem for today's THA
Dual mobility cups in primary total hip replacement
Debate against use of cemented cups in primary hip replacement
Direct anterior approach in THA. Is it the new gold standard?

19th Asia Pacific Arthroplasty Society Meeting, Bangkok, Thailand,
September 2018

Managing the stiff knee in primary TKA
Direct Anterior Approach-Technique and Results
Indications for dual mobility cups in primary hips
Session Chair: Complex revision knee replacements

RESEARCH PROJECTS

The minimally invasive Silent Hip for osteoarthritis of the hip
Phase two clinical and radiographic study

The OAKS Trial is a single arm study designed to evaluate the safety and efficacy of KineSpring System in treating patients with symptomatic osteoarthritis of the medial compartment of the knee. The OAKS study is fully enrolled, and patient follow-up continues

The OASYS Trial is a feasibility study designed to evaluate the Safety and Feasibility of the KineSpring System. Enrollment into the study is complete, and patient follow-up continues.

Kinespring PEEK implant trial

Paragon hip stem. Design, development and clinical use of a new implant



Global cup. Design, development and clinical use of a new implant

Mini hip replacement. Design, development and clinical use of a new implant

