

Dr Christopher W. Jones
Orthopaedic Surgeon

FAOrthoA FRACS PhD MBBS(Hons) BEng(Hons) BCom

Curriculum Vitae: 24/4/2018

DOB: 26/03/1976

Current Address:

89 King St
East Fremantle, WA
6158
P: 0417220248
E: cjon0040@gmail.com

Tertiary Qualifications;

- (1) Fellow Australian Orthopaedic Association (2016)
- (2) Fellow Royal Australian College of Surgeons - Orthopaedic Surgery (2015)
- (3) PhD Mechanical Engineering, Surgery & Pathology UWA (2007)
- (4) MBBS Bachelor Medicine & Bachelor of Surgery (Honours) USyd (2007)
- (5) Bachelor Mechanical Engineering (Honours) UWA (2001)
- (6) Bachelor Commerce (Marketing & Management) UWA (2001)

Fellowships:

(1) Complex Joint Reconstruction Fellow

Complex Joint Reconstruction Center, Hospital for Special Surgery
New York City, New York USA
Supervisor: Emeritus Professor Thomas P Sculco
August 2017-July 2018

(2) Adult Hip & Knee Reconstruction Fellowship

Mater Hospital, North Sydney, Australia
Revision Arthroplasty, Primary Hip & Knee Arthroplasty, Direct anterior hip replacement, Hip resurfacing
Supervisor: Prof William Walter Jr
Feb 2017-August 2107

(3) Allograft Fellowship – Perth Bone and Tissue Bank

Allograft Reconstruction, Tumour Limb Salvage Surgery, Revision Arthroplasty, Primary Hip & Knee Arthroplasty
Supervisors: Prof David Wood, Prof Richard Carey-Smith, Prof Piers Yates
Perth & Fremantle Western Australia
Feb 2016-Jan 2017

Current Academic Appointments:

- (1) *Senior Adjunct Research Fellow (Faculty of Engineering) – Curtin University
Western Australia
GPO Box U1987, Perth, WA 6845
July 2018 - Present*
- (2) *Clinical Lecturer - Weill Cornell Medical College
1300 York Ave, New York City, New York USA
August 2017-July 2018*
- (3) *Senior Clinical Lecturer, School of Medicine - University of Sydney
Camperdown, Sydney, NSW 2060
2010-Present*

Current Clinical Appointments:

- (1) *VMO Orthopaedic Surgery – Fremantle Hospital, Fiona Stanley Hospital,
Rockingham Hospital, Western Australia
Quinquennial Appointment*
- (2) *VMO Orthopaedic Surgery – The Mount Hospital, St John of God Murdoch
Hospital – Orthopaedics WA*

Previous Clinical Appointment:

- (1) *VMO Orthopaedic Surgery – Dubbo Base Hospital
Dubbo Base Hospital
Myall St, Dubbo NSW 2830
Head of Department: Dr Stephen Ruff
March 2017-August 2017*

Past Appointments:

- (1) *Orthopaedic Registrar – SET 5
Department of Orthopaedic Surgery
Royal Prince Alfred Hospital
Camperdown, NSW
August 2015 – Jan 2015*
- (2) *Orthopaedic Registrar – SET 5
Department of Hand Surgery
Royal North Shore Hospital
St Leonards, NSW
Feb 2015 – August 2015*

- (3) Orthopaedic Registrar – SET 4
Department of Orthopaedic Surgery
Royal North Shore Hospital
St Leonards, NSW August 2014 – Feb 2015

- (4) Orthopaedic Registrar – SET 4
Department of Orthopaedic Surgery
Fairfield Hospital
Fairfield NSW
Feb 2014 – August 2014

- (5) Orthopaedic Registrar – SET 3
Department of Orthopaedic Surgery
The Canberra Hospital
Garran, ACT
July 2013 – Feb 2014

- (6) Orthopaedic Registrar – SET 3
Department of Orthopaedic Surgery
Royal Prince Alfred Hospital
Camperdown, NSW
Jan 2013 – July 2013

- (7) Orthopaedic Registrar – SET 2
Department of Orthopaedic Surgery
Westmead Children's Hospital
Westmead, NSW
July 2012 – Jan 2013

- (8) Orthopaedic Registrar – SET 2
Department of Orthopaedic Surgery
Orange Base Hospital
Bloomfield Campus
Orange, NSW
Jan 2012 – July 2012

- (9) Orthopaedic Registrar – SET 1
Department of Orthopaedic Surgery
Dubbo Base Hospital
Dubbo, NSW
July 2011 – Jan 2012

- (10) Orthopaedic Registrar – SET 1
Department of Orthopaedic Surgery
Royal Prince Alfred Hospital
Sydney, NSW Jan 2011 – July 2011

(11) Senior Resident Medical Officer
Department of Orthopaedic Surgery
Royal Prince Alfred Hospital
Sydney, NSW
Jan 2010 – Jan 2011

(12) Intern & Resident Medical Officer
Medical Training & Administration Unit
Royal Prince Alfred Hospital
Sydney, NSW
Jan 2008 – Jan 2010

RACS Surgical Training Courses

1. EMST 2010
2. ASSET 2011
3. CCRISP 2011

AO Courses

1. AO Trauma Course – AO Foundation Asia/Pacific. Principles in Operative Fracture Management, Melbourne 2010
2. AO Trauma Course – AO Foundation North America. Advanced Principles of Fracture Management, Toronto, Canada 2017

OTC Courses

1. OTC Advanced Fracture Management Course – Fractures of the Foot & Ankle 27-28th October 2012, RNSH Sydney Australia
2. OTC Advanced Fracture Management Course – Fractures of the Upper Limb 1-2nd August 2015, RNSH Sydney Australia

Prizes and Scholarships

- (1) 2000 1st Place Warman Australia Design & Build Competition
- (2) ARC SPIR T PhD Scholarship 2003-2007
- (3) 2003 GAMSAT score 99th percentile
- (4) Commonwealth Education Scholarship for Academic Excellence (2004, 2005, 2006, 2007)
- (5) Norman John Dunlop Bursary for Academic Excellence (2004, 2005, 2006, 2007)
- (6) Ray Gardiner Memorial Scholarship 2007
- (7) Royal Prince Alfred Hospital Patrons Prize for Research by Junior Medical Officer 2008
- (8) Orthopaedic Surgery Teaching Award, Canberra Hospital ACT 2013
- (9) Australian Orthopaedic Association, Annual Scientific Meeting ACT 2013
“Award for Best Paper”
- (10) NSW Hand Surgery Society, Annual Scientific Meeting NZ 2015 “Award for Best Paper”

Societies

- Vice President Royal Prince Alfred Hospital Student's Association (2005-2006)
- Fellow - Royal Australian College of Surgeons (2016 – Present)
- Fellow – Australian Orthopaedic Association (2016 – Present)
- Provisional Fellow - Australian Arthroplasty Society (2017-Present)
- American Association of Hip and Knee Surgeons (2017-Present)
- Hospital for Special Surgery Alumni Association (2017-Present)

Teaching Interests

- Clinical Lecturer – Weill Cornell Medical College, New York City
- Senior Clinical Lecturer – Central Medical School, University of Sydney
- Royal Prince Alfred Hospital Medical School
 - Clinical Skills Tutor
 - PBL Tutor
 - OSCE examiner
- FRACS (Ortho) Trial Examination Royal Prince Alfred Hospital 2016 – Convenor, Organiser & Head Examiner
- Accredited & Unaccredited Orthopaedic Registrar & Resident Training
 - Weekly tutorials
 - Trial examinations
 - “Off-the-cuff” teaching sessions

Research Interests

- (1) Revision arthroplasty & complex limb reconstruction
- (2) Design & Manufacture of Orthopaedic Implants & Prosthesis
- (3) Mechanical testing, dynamic analysis and modelling of material properties
 - Arthroplasty devices and orthopaedic implants
 - Retrieval analysis
 - Suture materials and techniques
 - Articular cartilage
 - Osseous tissues
 - Tendon and ligament reconstruction
- (4) Articular Cartilage Repair/Regeneration
 - Matrix-Induced Autologous Chondrocyte Implantation
 - Bioscaffolds
 - Bioengineering/Cellular Engineering
 - Osteoarthritis

Current Research Projects - 2018

- The relationship of BMI to age of arthroplasty & subchondral bone remodelling in osteoarthritis – *Perth Orthopaedic Institute, WA*
- The link between proximal femoral osteolysis and arthroplasty design. *Perth Orthopaedic Institute, WA*
- Randomised controlled trial of adductor canal regional anaesthetic blocks for post-operative analgesia following total knee arthroplasty. *Fiona Stanley Hospital, WA*
- Randomised trial of different total knee arthroplasty designs assessing sagittal stability. *Mater Hospital NSW*
- Development of a novel pelvic tracking device for use during Total hip arthroplasty. *Mater Hospital NSW*
- Functional 3D modelling of hip-resurfacing for virtual assessment of impingement zones and optimal implant positioning. *Mater Hospital NSW*
- Biomechanical testing of taper stem fixation in a model of proximal femoral deficiency. *Hospital for Special Surgery, NYC*
- Analysis of 3-D computer tomographic features predicting success in custom triflange acetabular components. *Hospital for Special Surgery, NYC*
- Long-term outcomes of arthroplasty following proximal femoral and/or acetabular ORIF. *Hospital for Special Surgery, NYC*
- Rapid prototyping and 3D printing of patient specific models for pre-operative planning in complex revision total hip arthroplasty. *Hospital for Special Suregry, NYC*

Extra-curricular Activities:

- (1) Professional Rock Climber 1996-2004
 - a. Bigwall: The Nose - El Captain, Yosemite -19 hrs Onsight
 - b. Redpoint: 31/8b/5.13d/E86c
 - c. Onsight: 29/8a/5.13b
 - d. Boulder: 7C+/V10
 - e. Solo: E76c
 - f. Competition:
 - i. National - Australian National Champion 1996
 - ii. International - 2nd Place Asian Invitational Cup Hong Kong 2001
- (2) Surfing – lifelong
 - a. City Beach Surf Riders Club member 1991-Present
 - b. Extensive travels throughout North America, Hawaii, Pacific, Indonesia, Indian Ocean, Australia & New Zealand

Publications as at July 2018

Journal Articles

1. Jones CW, Keogh A, Smolinski D, et al., Histological Assessment of the Chondral and Connective Tissues of the Knee by Confocal Arthroscope. *Journal of Musculoskeletal Research*. 2004; 8:75–86.
2. Jones CW, Smolinski D, Wu JP, et al., Quantification of Chondrocyte Morphology by Confocal Arthroscopy. *Journal of Musculoskeletal Research*. 2004; 8:145–154.
3. Jones CW, Smolinski D, Keogh A, et al., Confocal Laser Scanning Microscopy in Orthopaedic Research. *Progress in Histochemistry and Cytochemistry*. 2005; 40 1-71.
4. Jones CW, Willers C, Keogh A, et al., Matrix-induced autologous chondrocyte implantation in sheep: objective assessments including confocal arthroscopy. *Journal of Orthopaedic Research*. 2007; 26:292-303.
5. Jones CW, Smolinski D, Willers C, et al., Laser scanning confocal arthroscopy of a fresh cadaveric knee joint. *Osteoarthritis and Cartilage*. 2007; 15:1388-96.
6. Vizesi F, Jones CW, Lotz N, et al., Stress Relaxation and Creep: Viscoelastic Properties of Common Suture Materials used for Flexor Tendon Repair. *The Journal of Hand Surgery*. 2008; 33:241-246.
7. Jones CW, Lam L-O, Butler A, et al., Cement Penetration After Patella Venting. *The Knee*. 2009;16:50–53
8. Jones CW, Smitham P, Walsh, WR. Relationship of surgical accuracy and clinical outcomes in Charité lumbar disc replacement. *Orthop Surg*. 2012 4(3):145-55.
9. Jones CW, Agolley D, Burns KA, et al., Charcot Arthropathy Presenting with Primary Bone Resorption. *The Foot*. 2012; 22(3): 258–263.
10. Jones CW, Lawson R. One size does not fit all: an unusual case of distal radioulnar joint dysfunction following volar locking plate fixation. *The Journal of Wrist Surgery*. 2014 3(1):42-5.
11. Jones CW, Low T, Milne B. Lactobacillus infection of Total Hip Arthroplasty after Probiotic Ingestion. *Journal of Clinical Infectious Diseases*. 2014 22(4):e86-e88.
12. Lavell A, Jones CW, Wong D, Counsel R, Carey-Smith R. Plexiform neurofibroma causing an ossifying subperiosteal haematoma: a rare case in the tibia of an 11-year-old girl. *Skeletal Radiology*. 2017 46(10): 1405–1413.
13. Jones CW, Spasojevic S, Goh G, Joseph Z, Wood DJ, Yates PJ. Wound Discharge After Pharmacological Thromboprophylaxis in Lower Limb Arthroplasty. *Journal of Arthroplasty*. 2018n33(1):224-229.
14. Jones CW, Shatrov J, Jagiello J, Hong A, Boyle R, Stalley P. Clinical and Radiographic Outcomes of Extracorporeal Irradiation in Tumor Limb Salvage Surgery. *The Bone & Joint Journal*. 2017 99-B(12):1681-1688.
15. Donald S, Nui R, Jones CW, Smith BJ, Clarke EC, Lawson RD. Effects of Removal and Reinsertion of Headless Compression Screws *The Journal of Hand Surgery (Am)*. 2018 43(2): 139-145
16. Jones CW, Parsons R, Yates PJ. Seasonal Variation in the Incidence of Deep Vein Thrombosis and Pulmonary Embolus after Hip or Knee Arthroplasty in Western Australia. *International Orthopaedics* 2018. Submitted – Under Review

17. Jones CW, Graves S, Lorimer M, Walter WL. Mortality Rates of Hip Resurfacing and Total Hip Arthroplasty in Australia; Data from the Australian Orthopaedic Association National Joint Replacement Registry. *The Journal of Arthroplasty*. 2018. Submitted – Under Review.
18. Katchky A, Jones CW, Walter WL, Shimmin AJ. Medially stabilized total knee arthroplasty: 5-year clinical and radiographic outcomes of the SAIPH™ TKR. *Bone & Joint Journal* 2018. *In Press*.
19. Gallagher C, Jones CW, Wylde C, Kimmel L, Yates PY. Osteoarthritis is associated with increased failure of proximal femoral fracture fixation. *International Orthopaedics*. 2018 Jun 20 – ePub ahead of print.
20. Jones CW, Jerabek S. Current evidence for handheld navigation in total knee Arthroplasty. *Journal of Arthroplasty*. 2018 33(7):19898-1993.
21. Jones CW, Malahia MA, Baral E, Wright T, Sculco TP, Sculco PK. Catastrophic failure of tripolar liners due to backside wear: a novel failure mode. *Arthroplasty Today*. *In Press*.
22. Jones CW, De Martino I, D’Apolito R, Nocon AA, Sculco PK, Sculco TP. The use of dual mobility bearings in patients at high risk of dislocation. *Bone & Joint Journal* 2018. *In Press*

Conferences

1. Jones CW, Smolinski D, Wu JP, et al. Clinical and Research Applications of a Laser Scanning Confocal Arthroscope. in Proceedings of the 2nd International Conference of Biomechanics of the Lower Limb in Health, Disease and Rehabilitation. 2003. University of Salford, United Kingdom.
2. Jones CW, Smolinski D, Wu JP, et al. Development of a laser scanning confocal arthroscope for clinical applications. In Proceedings of the XIXth Conference of the International Society of Biomechanics. 2003. University of Otago, Dunedin, New Zealand.
3. Smolinski D, Wu JP, Jones CW, et al. The Confocal Arthroscope as a Cartilage Optical Biopsy Tool. in Proceedings of the Eighth world congress of the Osteoarthritis Research Society International (OARSI) Berlin, Germany 12-15 October 2003. *Osteoarthritis and Cartilage*. 2003;11:S111:1-125.
4. Jones CW, Smolinski D, Keogh A, et al. Recent Developments in Laser Scanning Confocal Arthroscopy. in Proceedings of the 2004 Australia & New Zealand Orthopaedic Research Society. 2004. The University of New South Wales, Sydney, Australia.
5. Jones CW, Smolinski D, Keogh A, et al. Laser Scanning Confocal Arthroscopy of Matrix-induced Autologous Chondrocyte Implantation (MACI) in an Ovine Model. Proceedings of the 2005 Australian Orthopaedic Association Annual Meeting. 2005 Convention Centre, Perth, Australia.
6. Jones CW, Smitham P, Loeffler A, et al. Variables Affecting the Clinical and Functional Outcomes of Charité Lumbar Disc Replacement in Proceedings of the 6th Combined Meeting of the Orthopaedic Research Societies. 2007. Honolulu, Hawaii, USA.
7. Jones CW, Smitham P, Loeffler A, et al. Lumbar Disc Replacement Using the Charité Artificial Disc: Correlation of Surgical Placement to Clinical Outcomes.

- in Proceedings of the 2007 Australian Orthopaedic Association Annual Meeting. 2007. Gold Coast, Queensland, Australia.
8. Zheng MH, Jones CW, Keogh A, et al. 24.5 Matrix-induced autologous chondrocyte implantation (MACI®): In sheep: objective assessments including confocal arthroscopy. Proceedings in Osteoarthritis and Cartilage. 2007.
 9. Jones CW, Kilby P, Dahliwal R, Boyle R. TKR - Navigated vs Non-navigated and the Effect on Drain Output and Post-operative Haemoglobin Drop and Transfusion Rates. Australian Orthopaedic Registrars Association Annual Conference. Bondi, NSW. 2012:10.
 10. Jones CW, Agolley D, Burns KA, Gupta S, Horsley M. Charcot Arthropathy Presenting with Primary Bone Resorption. Australian Orthopaedic Registrars Association Annual Conference. Bondi, NSW. 2012:10.
 11. Jones CW, Lawson R. One Size Does Not Fit All: an Unusual Case of Distal Radioulnar Joint Dysfunction After Volar Locking Plate Fixation. 2012 NSW Hand Surgery Association Annual Conference. Blue Mountains, NSW. 2012:31.
 12. Millington S.A.; Jagiello J; Shatrov J; Jones C; Hong A; Boyle R; Stalley PD Long-term Functional, Quality of Life and Survival Outcomes, with respect to Histological Type, in Bone Tumours Treated by Extra-corporeal Irradiation and Re-implantation. International Society of Limb Salvage. 17th General Meeting, Bologna, Italy. September 11-13, 2013.
 13. Jagiello J; Millington S.A.; Jones C; Shatrov J; Hong A; Boyle R; Stalley PD. Extracorporeal Irradiation in Tumor Limb Salvage Surgery. International Society of Limb Salvage. 17th General Meeting, Bologna, Italy September. 11-13, 2013.
 14. Millington S.A.; Jagiello J; Shatrov J; Jones C; Hong A; Boyle R; Stalley PD. Resection of Pelvic Tumours and Reconstruction by Extra-Corporeal Irradiation and Re-Implantation: Long-term Experience. International Society of Limb Salvage. 17th General Meeting, Bologna, Italy. September 11-13, 2013.
 15. Jagiello J; Millington S.A.; Shatrov J; Jones C; Hong A; Boyle R; Stalley PD. Extracorporeal Irradiation in Paediatric Patients. International Society of Limb Salvage. 17th General Meeting, Bologna, Italy. September 11-13, 2013.
 16. Jagiello J; Millington S.A.; Shatrov J; Jones C; Boyle R; Stalley PD. Intercalary and Lower Limb Reconstruction with Extracorporeal Irradiated Autogenous Bone Graft in Limb-Salvage Surgery. International Society of Limb Salvage. 17th General Meeting, Bologna, Italy. September 11-13, 2013.
 17. Jones CW, Yates PJ, Zheng MH, Woods D. Matrix-induced autologous chondrocyte (MACI) implantation in sheep: assessment by confocal arthroscopy. Australian Orthopaedic Association, Annual Scientific Meeting. Canberra ACT, Australia. November 29th 2013.
 18. Jones CW; Bellemore M. Consequences of Delayed Diagnosis in Ankle Sepsis. Australian Paediatric Orthopaedic Society, Annual Scientific Meeting. Noosa QLD Australia. August 22-26th 2013.
 19. Stalley PD ; Jagiello J; Jones C; Shatrov J; Hong A; Boyle R. Extracorporeal Irradiation in Tumor Limb Salvage Surgery, Seventeen Years of Experience and Follow up. 10th Asia Pacific Musculoskeletal Tumour Society Meeting. Melbourne, Australia. April 9-11th 2014.

20. Shatrov J; Jones C; Jagiello J; Hong A; Boyle R; Stalley PD. Functional and quality of life outcomes following extra-corporeal irradiation and re-implantation for bone tumours: Long-term results. 10th Asia Pacific Musculoskeletal Tumour Society Meeting. Melbourne, Australia. April 9-11th 2014.
21. Jones C; Shatrov J; Jagiello J; Hong A; Boyle R; Stalley PD. Reconstruction by extra-corporeal irradiation and re-implantation following resection of pelvic bone tumours: Long-term experience. 10th Asia Pacific Musculoskeletal Tumour Society Meeting. Melbourne, Australia. April 9-11th 2014.
22. Jones, CW; Chen, L; Duff, S; Carey Smith, R; Wood, D; Zheng, MH. The Influence of Body Mass Index on Microarchitecture and Bone Remodelling of Subchondral Bone in Knee Osteoarthritis Patients. AOA Western Australian Branch 45th Annual Scientific Meeting, Bunker Bay, WA, August 19-20th.
23. Duff, S; Jones, CW; Carey Smith, R. Computer-assisted navigation for pedestal cup positioning: radiographic & early clinical outcomes. AOA Western Australian Branch 45th Annual Scientific Meeting, Bunker Bay, WA, August 19-20th.
24. Jones, CW; Chen, L; Duff, S; Carey Smith, R; Wood, D; Zheng, MH. The Influence of Body Mass Index on Microarchitecture and Bone Remodelling of Subchondral Bone in Knee Osteoarthritis Patients. AOA 2016 Annual Scientific Cairns, Qld Oct 10-15th.
25. Jones CW, Walter WL. Real-Time Pelvic Tracking During Total Hip Replacement Using a Novel 4D Tracking Device. Arthroplasty Society of Australia. 2016 Noosa, Qld June 21-24th
26. Gallagher C, Jones CW, Wylde C, Kimmel L, Yates PY. Osteoarthritis Is Associated With Increased Failure Of Proximal Femoral Fracture Fixation. AOA 2017 Annual Scientific Meeting. Adelaide, SA Vic Oct 8-12th
27. Jones CW, Gallagher C, Yates PY. Seasonal Variation in the Incidence of Deep Vein Thrombosis and Pulmonary Embolus after Hip or Knee Arthroplasty in Western Australia. AOA 2017 Annual Scientific Meeting. Adelaide, SA Vic Oct 8-12th
28. Walter WL, Jones CW. Edge Loading Angle >10degrees is Not Predictive of Groin Pain Following Hip Resurfacing. AOA 2017 Annual Scientific Meeting. Adelaide, SA Vic Oct 8-12th

Book Chapters

1. Jones CW, Yip K, Xu J, et al., Assessment of Bone, Cartilage, Tendon and Bone Cells by Confocal Laser Scanning Microscopy. 1st ed. Advanced Bioimaging Technologies in Assessment of the Quality of Bone and Scaffold Materials. Techniques and Applications, ed. Qin, L, Genant, HK, Griffith, J, et al. 2007, Berlin Heidelberg: Springer-Verlag. 700.
2. Jones CW, Schreuder FB, Walsh WR, Sutures, in Wiley Encyclopedia of Biomedical Engineering. 2006, John Wiley & Sons, Inc.
3. Jones CW, Clarke B, Yates P. *Strategies for Preventing Infections in Total Hip & Total Knee Arthroplasty*. Management of Periprosthetic Joint Infection: A global perspective on diagnosis, treatment options, prevention strategies and their economic impact. Berlin Heidelberg: Springer-Verlag 2017