

**Mr David Kieser**  
 MBChB, PGDipSurgAnat, PhD, FRACS, FNZOA

**Research specialisation:** Orthopaedics, musculoskeletal, sports, military and ballistics, forensics and biomechanics

**Experience:** David is an Orthopaedic surgeon with 14 years of academic experience including teaching of undergraduate and postgraduate students and clinicians. A multitude of research interests with an eclectic array of presentations, peer reviewed publications, book chapters and a clinical website. He is currently an honorary senior lecturer for the University of Otago.

As an athlete, former South African school aged provincial swimming and biathlon representative and New Zealand premier rugby player. Completed the Coast to Coast and now a recreational sportsman.

**Research overview:** He has been involved in research including anatomy, endocrinology, wound care, tumour, trauma, ballistics, forensic, biomechanics and sports related research. He currently is running research in military medicine, defence, orthopaedics, fatigue, concussion, biomechanics, cell biology, traumatology, radiology, pharmacology, microbiology, implantology and health resource utilisation. Internationally he collaborates with groups in the USA, Australia, Japan, UK, France and Germany covering the spectrum from forensics to clinical orthopaedics.

**Research publications:** 19 peer reviewed publications, 2 invited book chapters and 1 website. Editorial board member of the *Military Medical Review*. Example publications

1. Kieser DC, Hammond C. (2010) Leading Wound Care Technology - The ARANZ Medical Silhouette. *Advances in Skin and Wound Care Decision* 24(2): 68-70
2. Kieser DC, Taylor F, Ball C. (2011) The allograft sleeve: A case series of the surgical management of an interprosthetic fracture between a shoulder and elbow joint replacement. *Journal of Shoulder and Elbow Surgery* 20: e4-9.
3. Kieser DC, Gwynne-Jones D. (2011) Displaced intercondylar eminence fractures. *Journal of Orthopaedic Surgery* 19(3): 292-6.
4. Kieser DC, Roake, JA Hammond C, Lewis DR. (2011) Negative pressure wound therapy as an adjunct to compression for healing chronic venous ulcers. *Journal of Wound Care* 20(1): 35-7
5. Kieser DC, Van Rij A, Theis JC. (2011) A combined approach to the excision of sciatic notch dumbbell tumours. *ANZ Journal of Surgery* 81: 650.
6. Kieser DC, Carr DJ, Leclair SCJ, Horsfall I, Theis JC, Swain MV, Kieser JA. (2013) Gunshot induced indirect femoral fracture: Mechanism of injury and fracture morphology. *Journal of the Royal Army Medical Corp* 159: 294-9.
7. Kieser DC, Carr DJ, Girvan L, Leclair SCJ, Horsfall I, Theis JC, Swain MV, Kieser JA. (2013) Identifying the source of bullet wipe - a randomised blind trial. *International Journal of Legal Medicine* 127: 951-5.
8. Kieser DC, Carr DJ, Leclair SCJ, Horsfall I, Theis JC, Swain MV, Kieser JA. (2013) Clothing increases the risk of indirect ballistic fractures. *Journal of Orthopaedic Surgery and Research* 8: 42.
9. Kieser DC, Riddell R, Kieser JA, Theis JC, Swain MV. (2014) Bone micro-fracture observations from direct impact of slow velocity projectiles. *Journal of Archives in Military Medicine* 2(1): e15614.
10. Kieser DC, Kanade S, Waddell NJ, Kieser JA, Theis JC, Swain MV. (2014) The deer femur - a morphological and biomechanical animal model of the human femur. *Bio-Medical Materials and Engineering* 24: 1693-703.
11. Kieser DC, Poole TCA, Jennings M, Parker K, Kieser SCJ, Kieser JA, Theis JC. (2014) The validity of CMFDA and EthD-1 in the determination of osteocyte viability in the diaphysis of long bones in a sheep model. *Journal of Clinical and Experimental Pathology* 4: 201.
12. Kieser DC, Harrington M, Brooks H, Mros S, Kieser SCJ, Kieser GA, Theis JC, Kieser JA. (2014) Tracing the origin of bacterial contamination in close and medium range gunshot wounds in a sheep model. *Balkan Military Medical Review* 17(4): 111-4.



