

Dr Paul Hindle

MB ChB, PhD, FRCSC,
FRCS(Tr&Orth),
Orthopaedic Surgeon

Skills

- Elective open, arthroscopic and arthroplasty reconstruction
- Complex orthopaedic trauma reconstruction
- Medical Education
- Academic Research
- Leadership and Management
- Quality Improvement
- Occupational Medicine

Fellowship-trained orthopaedic trauma and upper extremity surgeon with a robust academic, clinical, and military background. Twenty-one years in the Royal Air Force, where I held leadership roles in surgery, academia and policy development. Expertise spans complex trauma, shoulder to hand reconstruction, and osseointegration. Demonstrated academic excellence with over \$2M in research funding, 25+ peer-reviewed publications, and roles in high-impact advisory groups. Proven ability to thrive in high-pressure tertiary care settings and committed to continuous innovation in orthopaedic care and education.

Current Position

- Since 2024-02
- Orthopaedic Trauma Associate**
St. Paul's Hospital / Providence Health Vancouver
 - Orthopaedic Trauma
 - Hand to shoulder elective reconstruction

Employment History

- 2023-02 – 2024-01
- Locum Orthopaedic Hand and Wrist Surgeon**
St. Paul's Hospital / Providence Health Vancouver
 - Tertiary referral hand, wrist and elbow elective and trauma practice
- 2019-08 - 2022-09
- Orthopaedic Trauma and Upper Extremity Reconstruction Surgeon**
Royal Air Force / University Hospitals Birmingham, UK
 - Complex and routine trauma surgery
 - Shoulder and elbow reconstruction
 - RAF Consultant Advisor
 - Trauma team lead
 - Royal Air Force lead surgeon for trauma and orthopaedic surgery
 - Defence Lead for Osseointegration
 - UHB procurement lead for orthopaedic trauma
 - Clinical lead for military day case surgery
 - Chair of Defence upper limb working group
 - National complex trauma clinic at DMRC Stanford Hall

2021-04 -
2022-09

Associate Professor

Defence Medical Services, Birmingham, UK

- Running academic department
- Research Steering Group
- Centre for Blast Injuries Studies advisory committee
- Supervision doctoral students
- Running clinical trial and grants
- UK Policy Working Group for osseointegration
- Editorial board BMJ Military Health
- Damage Control Orthopaedic Trauma Surgery Course Faculty

2018-08 -
2019-07

Trauma and Reconstruction Fellow

University of Toronto, Toronto, ON

- St. Michael's and Sunnybrook Hospitals
- Complex Trauma
- Shoulder and elbow reconstruction and arthroplasty
- Soft tissue knee reconstruction

2017-08 -
2018-07

Upper Extremity Fellow

University of Edinburgh, Edinburgh, UK

- Complex upper extremity trauma management
- Open and arthroscopic reconstruction

2010-08 -
2018-07

Orthopaedic Resident

South-East Scotland Deanery, Edinburgh, UK

- Six years orthopaedic training
- Two years full time research

2008-08 -
2010-07

Core Surgical Trainee

South-East Scotland Deanery, Edinburgh, UK

2005-08 -
2008-07

General Duties Medial Officer

Royal Air Force

- Officer Training, RAF College Cranwell
- Aviation Medicine, RAF Centre for Aviation Medicine
- Search and Rescue, RAF Valley, Wales
- Emergency Medicine, MDHU Peterborough
- Family Medicine and Pre-hospital care, RAF Akrotiri, Cyprus
- Surgical intern, MDHU Derriford, Plymouth

Education

2024-06

Fellow of the Royal College of Surgeons of Canada

Royal College of Surgeons of Canda

2021-11

Licentiate of The Medical Council of Canada

Medical Council Canada Qualifying Examination - Canada

2008-08 -
2018-08

Certificate of Completion of Training: Trauma and Orthopaedic Surgery

General Medical Council - United Kingdom

2017-02

Fellow Royal College of Surgeons (Tr&Orth)

Royal College of Surgeons of England

2012-08 -
2016-07

PhD: Stem Cell Tissue Engineering

University of Edinburgh - United Kingdom

1999-09 -
2004-07

MBChB: Medicine and Surgery

University of Sheffield - United Kingdom

Awards

- Canadian representative on the American Society for Surgery of the Hand international traveling fellowship, Sep - Oct 2023
- Air Power Essay Prize, Joint Services Command and Staff College, UK Defence Academy, May 2018
- Long Service and Good Conduct medal, September 2017
- British Orthopaedic Research Society travelling fellowship to Hong Kong, China, Singapore and Australia, September 2016
- Best presentation at the Winter Scottish Committee on Orthopaedics and Trauma scientific meeting, January 2016
- International Cartilage Repair Society travelling fellowship to attend summit on 'The Ageing Cartilage' in Zermatt, Switzerland
- Best presentation at the Summer Scottish Committee on Orthopaedics and Trauma scientific meeting, August 2014
- Best clinical paper presentation at the Combined Services Orthopaedic Society Meeting, May 2014
- Inaugural Winner International Journal Bone and Joint Surgery Frank Horan Essay Prize, September 2010

Research Grants

- Novel research into Direct Skeletal Fixation for Veterans. £270k, Office of Veterans Affairs Health Innovation, 2022
- Utility of Direct Skeletal Fixation following combat injuries for UK service personnel. £1.1M, HM Cabinet Office and Defence, 2022
- Identification of potential non-traditional antimicrobial agents with MSC secretome. £4,867, Defence Medical Services, 2021
- Prospective tissue bank for conflict wounds. £82,000, Defence Medical Services Research and Clinical Innovation award, 2021
- Genetic and cellular dysfunction of skeletal muscle following high-energy trauma. £37,976, Defence Medical Services, 2020
- The therapeutic role of MSCs for the prevention of infected fracture non-unions. £7,370, Drummond Committee, 2017
- Understanding the science of abnormal ossification and non-union. £40,836, Engineering and Physical Sciences Research Council, 2017
- The therapeutic role of MSCs for the prevention of infected fracture non-unions. £3,500, Defence Medical Services, 2017
- The infra-patellar fat pad as a source of perivascular stem cells for cartilage repair. £5,000, Joint Action, 2013
- The effects of varying solutions and osmolarities on MACI membranes. £2,866, Musculoskeletal Research and Education Endowment Fund, 2013
- Development of the ovine as a large animal model for perivascular stem cells. £8,100, Tenovus Scotland, 2013
- Pilot study for the sheep model for perivascular stem cells. £8,100, University of Edinburgh Internal Knowledge Transfer Fund, 2012

Publications

- Direct skeletal fixation for persons with bilateral transfemoral amputations: medium-term post-operative outcomes. Submitted *Injury*, August 2024.
- One year gait analysis and patient reported outcomes for persons undergoing direct skeletal fixation, *Journal of NeuroEngineering and Rehabilitation*, 2024
- Delivery of UK military upper limb prosthetics: current concepts and future directions. *BMJ Mil Health*, 2023
- Unsatisfactory post-operative trauma imaging is predictive of revision surgery. *Trauma*, 2023
- Health related quality of life and cost analysis for direct skeletal fixation following transfemoral amputation. *Injury*, 2022
- Longitudinal study of medical downgrades in the Royal Air Force. *BMJ Mil Health*, 2021
- Mortality risk of surgically managing orthopaedic trauma during the COVID-19 pandemic. *Bone and Joint Open*, 2021
- To What Extent do Fracture Clinic Patients use Smart Mobile Technology and what are their Specific Educational and Rehabilitative Needs that can be Addressed. *Integr J Orthop Traumatol*, 2021
- Perivascular progenitor cells for bone regeneration. *Regenerative Medicine in Plastic Surgery: Art, Science and Principles*, 2020
- Pericytes for the treatment of orthopaedic conditions. *Pharmacol Ther*, 2017
- The infra-patellar fat pad as a source of perivascular stem cells with increased chondrogenic potential for regenerative medicine. *Stem Cells Transl Med*, 2017
- Perivascular Mesenchymal Stem Cells in Sheep: Characterization and Autologous Transplantation in a Model of Articular Cartilage Repair. *Stem Cells Dev*, 2016
- *In vivo* models for articular cartilage repair. *Experimental Research Methods in Orthopaedics and Trauma*, 2015
- Viability of chondrocytes seeded onto a collagen I/III membrane for matrix-induced autologous chondrocyte implantation. *J Orthop Res*, 2014
- Establishing an Adipose Stem Cell Bank: A Review of the Ethical, Legal and Practical Issues in the United Kingdom. *J Plast Reconstr Aesthet Surg*, 2014

- Autologous Osteochondral Mosaicplasty or TruFit™ Plugs for Cartilage Repair. *Knee Surg Sports Traumatol Arthrosc*, 2014
- Joint Dislocations. Rockwood and Green's Fractures in Adults Eighth edition, 2014
- Appendicular Joint Dislocations. *Injury*, 2013
- Septic Arthritis of the Knee: The use of and effect of antibiotics prior to diagnostic aspiration. *Ann R Coll Surg*, 2012
- Frozen shoulder - Current Concepts Review Article. *J Bone Joint Surg Br*, 2012
- The Use of Early Scanning in Fistula Formation for Vascular Access. *J Vasc Access*, 2011
- Winner of the Frank Horan essay prize: The effect of war on the evolution of the treatment of open fractures. *J Bone Joint Surg Br*. 2010
- The Mental Capacity Act 2005: review of mental capacity assessment in people with proximal femoral fracture. *The Psychiatrist*. 2010

Book Chapters

- Perivascular progenitor cells for bone regeneration. *Regenerative Medicine in Plastic Surgery: Art, Science and Principles*
- *In vivo* models for articular cartilage repair. Simpson and Augat's Experimental Research Methods in Orthopaedics and Trauma.
- Joint Dislocations. Rockwood and Green's Fractures in Adults. Eighth edition,

Conferences

- Chair of three sessions at national conferences
- Three international podium presentations
- Fourteen national podium presentations
- Two regional presentations
- Seven international poster presentations
- Four national poster presentations