

# Sahil Kooner MD, FRCSC

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## EDUCATION & EMPLOYMENT

### **Employment**

Orthopedic Trauma, Hip & Knee Arthroplasty, Foot & Ankle Surgeon  
Chinook Regional Hospital  
Lethbridge, Alberta  
September 2021- Current

### **Fellowships**

Hip and Knee Primary and Revision Arthroplasty  
Mount Sinai Hospital  
University of Toronto  
August 2020- August 2021

Foot and Ankle Reconstruction  
St. Michael's Hospital/ Toronto Western Hospital  
University of Toronto  
August 2019-August 2020

### **Postgraduate Education**

Orthopedic Surgery Residency (FRCSC)  
University of Calgary  
2014-2019

Doctor of Medicine (MD)  
University of Calgary  
2011-2014

### **Undergraduate Education**

Bachelor of Health Sciences (BHSc)  
University of Calgary  
2008-2011

## RESEARCH

### Peer Reviewed Publications

**Kooner S**, Lee J, Jamal B, David-West K, Daniels T, Halai M. Successful treatment of Advanced Freiberg's Disease with a Modified Weil osteotomy: 5-year follow up A Pilot Case Series with a Review of the Literature. *The Foot*. December 2023. DOI:10.1016/j.foot.2022.101952

Kayum S, **Kooner S**, Khan RM, Halai M, Awoke Adam, Kanani Asa, Montgomery S, Meldrum A, Daniels T. Safety and Effectiveness of Outpatient Total Ankle Arthroplasty. *Foot & Ankle Orthopaedics*. October 2021. <https://dx.doi.org/10.1177/24730114211057888>

**Kooner S**, Kubik J, Mahdavi S, Khong H, Batuyong E, Sharma R. Effect of Major Psychiatric Illness on Patient Reported Outcomes in Primary Total Hip and Knee Arthroplasty: A Retrospective Matched Cohort Study. April 2021. *SAGE Open Medicine*. <https://dx.doi.org/10.1177/20503121211012254>

**Kooner S**, Kayum S, Al Khalifa A, Pinsker E, Daniels T. Two-Year Outcomes After Total Ankle Replacement with Novel Fixed Bearing Implant. *Foot & Ankle International*. May 2021 <https://dx.doi.org/10.1177/10711007211005781>

Cinats D, **Kooner S**, Johal H. Acute hindfoot nailing for ankle fractures: A systematic review of indications and outcomes. *Journal of Orthopaedic Trauma*. November 2021. <https://dx.doi.org/10.1097/bot.0000000000002096>

You D, Sepehri A, **Kooner S**, Krzyaniak H, Johal H, Duffy P, Schneider P, Powell J. Outcomes of Total Hip Arthroplasty Using Dual Mobility Components for Hip Fracture: A Systematic Review and Meta-analysis. *The Bone & Joint Journal*. April 2020. DOI:10.1302/0301-620X.102B7.BJJ-2019-1486

Halai M, **Kooner S**, Jamal B, McMillan J, Syme B, Holt G. The Relationship Between the Rotational Axes of the Distal Femur in the Arthritic Caucasian Knee: A Magnetic Resonance Imaging Analysis. *Journal of Knee Surgery*. April 2020. DOI:10.1055/s-0040-1709676.

**Kooner S**, Crocker D, Matthewson G, Byers B, Desy N. Ipsilateral Deltoid and Hand Compartment Syndrome. *JBJS Case Connector*. February 2020. DOI:10.2106/JBJS.CC.19.00289

Montgomery S, **Kooner S**, Ludwig T, Schneider P. Impact of 3D Printed Calcaneal Models on Fracture Understanding and Confidence in Orthopedic Surgery Residents. *Journal of Surgical Education*. February 2020. DOI:10.1016/j.jsurg.2019.10.004

Matthewson G, **Kooner S**, Rabbani R, Gottschalk T, Old J, Abou-Setta AM, Zarychanski R, Leiter J, MacDonald P. Does a delay in ACL reconstruction increase the incidence of

secondary pathology in the Knee? A systematic review and meta-analysis. *Clinical Journal of Sport Medicine*. November 2019. DOI: 10.1097/JSM.0000000000000762

**Kooner S**, Sridharan S, Hewison C, Lui J, Matthewson G, Johal H, Clark M. Waste and Recycling Among Orthopedic Surgery Subspecialties. *Canadian Journal of Surgery*. August 2019. DOI:10.1503/cjs.018018

**Kooner S**, Cinats D, Kwong C, Matthewson G, Dhaliwal G. Conservative Treatment of Cubital Tunnel Syndrome: A Systematic Review. *Orthopedic Reviews*. May 2019. DOI:10.4081/or.2019.7955

Matthewson G, **Kooner S**, Kwapisz A, Old J, Leiter J, MacDonald P. The effect of subscapularis repair on dislocation rates in reverse shoulder arthroplasty: a meta-analysis and systematic review. *Journal of Shoulder and Elbow Surgery*. February 2019. DOI:10.1016/j.jse.2018.11.069

**Kooner S**, Sheehan B, Kendal JK, Johal H. Development of a simple multidisciplinary arthroplasty wound-assessment instrument: the SMARt Wound Tool. *Canadian Journal of Surgery*. August 2018. DOI:10.1503/cjs.015017

Kendal J, Abbott A, **Kooner S**, Johal H, Puloski S, Monument M. A scoping review on the surgical management of metastatic bone disease of the extremities. *BMC Musculoskeletal Disorders*. August 2018. DOI:10.1186/s12891-018-2210-8

**Kooner S**. COA-ACO2018: Dynamic versus static fixation methods for syndesmosis injuries. OrthoEvidence Conference ACE Reports. June 2018. ACE Report #10306. <https://myorthoevidence.com/AceReports/Report/10306>

**Kooner S**, Kubik J, LeBlanc J, Martin R. Exertional Supraspinatus Syndrome: A Report of Two Cases. *JBJS Case Connector*. June 2018. DOI:10.2106/JBJS.CC.17.00255

**Kooner S**, Gibson E, Clark M. Peri-prosthetic Total Knee Fracture After Remote Reconstruction of the Anterior Cruciate Ligament. *Journal of Medical Case Reports*. September 2017. DOI:10.1186/s13256-017-1448-3.

**Kooner S**, Johal H, Clark M. Bicompartamental Knee Arthroplasty vs. Total Knee Arthroplasty for the Treatment of Medial Compartment and Patellofemoral Osteoarthritis. *Arthroplasty Today*. February 2017. DOI:10.1016/j.artd.2017.02.006.

**Kooner S**, Clark M. The Effect of Synovectomy in Total Knee Arthroplasty for Primary Osteoarthritis: A Meta-Analysis. *Journal of Knee Surgery*. July 2016. DOI:10.1055/s-0036-1584560.

### **Books/ Chapters**

**Kooner S**, Marsh A, Lau J. Chapter 41. Surgical Correction of a Bunionette Deformity. *Operative Techniques in Foot and Ankle Surgery*. October 2021.

**Kooner S**, Marsh A, Wilson I, Fu J, Lau J. Chapter 1. History of Total Ankle Replacement in North America. *Primary and Revision Total Ankle Replacement*. May 2021.  
[https://dx.doi.org/10.1007/978-3-030-69269-8\\_1](https://dx.doi.org/10.1007/978-3-030-69269-8_1)

Marsh A, **Kooner S**, Conlin C, Husain R, Lau J. Arthroscopic Ankle Arthrodesis. *Techniques in Foot and Ankle Surgery*. March 2020.  
<https://dx.doi.org/10.1097/btf.0000000000000268>

### **Active Research**

**Kooner S**, Kayum S, Khalifa A, Daniels T. Correction of Talar Sagittal Alignment Using a Novel Biased Polyethylene Insert for a Fixed Bearing Total Ankle Arthroplasty. (Manuscript submitted for publication to FAI January 2024).

Kubik J, **Kooner S**, Safir O, Gross A, Kuzyk P. Clinical Outcomes of Revision Arthroplasty with the ZMR Modular Taper Fluted Titanium Stem for the Treatment of Vancouver B2 and B3 Periprosthetic Femur Fractures. (Manuscript submitted for publication November 2023)

### **Podiums**

The Role of Orthopedic Trauma Rooms in the South Zone.  
*Surgical Grand Rounds*. Chinook Regional Hospital, Lethbridge, Alberta. December 2023.

**Kooner S**, Kayum S, Al Khalifa A, Khan R, Daniels T. Two-Year Outcomes After Total Ankle Replacement with a Novel Fixed-Bearing Implant.  
*Canadian Orthopedic Association Annual Meeting*. Vancouver, British Columbia. June 2021.  
*Orthopedic Fellows Research Conference*. Toronto, Ontario. May 2020.

Montgomery S, **Kooner S**, Schneider P. Impact of 3D Printed Calcaneal Fracture Models on Injury Understanding in Orthopaedic Surgery Residents.  
*Canadian Orthopedic Association Annual Meeting*. Halifax, Nova Scotia. June 2020.  
*Canadian Orthopedic Resident's Association*. Montreal, Quebec. June 2019.

Kubik K, **Kooner S**, Johal H. Treatment of Posterior Malleolus Syndesmotic Injuries: A Scoping Review.  
*Canadian Orthopedic Resident's Association*. Montreal, Quebec. June 2019.

Calgary Orthopedic Resident Research Group (CORRG). Quantification of Radiation Exposure in Orthopedic and Vascular Surgery Residents.

*Canadian Orthopedic Resident's Association. Montreal, Quebec. June 2019.*

**Kooner S**, Kubik J, Batuyong E, Sharma R. The Effect of Psychiatric Illness on Patient Reported Outcomes in Primary Total Hip and Knee Arthroplasty: A Retrospective Matched Cohort Study.

*Canadian Orthopedic Resident's Association. Montreal, Quebec. June 2019.*

*Resident Research Symposium. University of Calgary, Calgary, Alberta. April 2019.*

**Kooner S**, Sridharan S, Hewison C, Lui J, Matthewson G, Johal H, Clark M. Waste and Recycling Among Orthopedic Surgery Subspecialties.

*Surgeon's Day. Lethbridge, Alberta. May 2022.*

*Canadian Orthopedic Association Annual Meeting. Montreal, Quebec. June 2019.*

*Resident Research Symposium. University of Calgary, Calgary, Alberta. April 2018.*

**Kooner S**, Wang A, Montgomery S, Schneider P, Johal H. Static vs. Dynamic Fixation for Acute Syndesmosis Injuries: A Meta-analysis.

*Resident Research Symposium. University of Calgary, Calgary, Alberta. April 2018.*

Matthewson G, **Kooner S**, Kwapisz A, Old J, Leiter J, MacDonald P. The Role of Subscapularis Repair in Reverse Shoulder Arthroplasty: A Meta-analysis and Systematic Review.

*Canadian Orthopedic Resident's Association Meeting. Victoria, British Columbia. June 2018.*

**Kooner S**, Johal H, Clark M. Bicompartamental Knee Arthroplasty vs. Total Knee Arthroplasty for the Treatment of Medial Compartment and Patellofemoral Osteoarthritis.

*Annual Surgeon's Day Research Symposium. University of Calgary, Calgary, Alberta. June 2016.*

*Resident Research Symposium. University of Calgary, Calgary, Alberta. April 2016.*

**Kooner S**, Clark M. The Effect of Synovectomy in Total Knee Arthroplasty for Primary Osteoarthritis: A Meta-Analysis.

*Annual Surgeon's Day Research Symposium. University of Calgary, Calgary, Alberta. June 2015.*

*Resident Research Symposium. University of Calgary, Calgary, Alberta. April 2015.*

### **Abstracts and Proceedings**

Kayum S, **Kooner S**, Marsh A, Daniels T. Fusion Takedown Total Ankle Arthroplasty Surgical Technique.

*American Academy of Orthopedic Surgeons 2021.*

You D, Sepehri A, **Kooner S**, Krzyaniak H, Johal H, Duffy P, Schneider P, Powell J. Outcomes of Total Hip Arthroplasty Using Dual Mobility Components for Hip Fracture: A Systematic Review and Meta-analysis.

*Orthopaedic Trauma Association Virtual Annual Meeting. October 2020.*

Wong M, Weins C, **Kooner S**, Buckley R, Duffy P, Korley R, Martin R, Sanders D, Schneider P. Dynamic CT Shows Syndesmosis Position Varies with Ankle Range of Motion.  
*Canadian Orthopedic Association Virtual Annual Meeting*. June 2020

Matthewson G, **Kooner S**, Kwapisz A, Old J, Leiter J, MacDonald P. The effect of subscapularis repair on dislocation rates in reverse shoulder arthroplasty: a meta-analysis and systematic review.  
*Canadian Orthopedic Association Virtual Annual Meeting*. June 2020

Almansoori K, **Kooner S**, Swamy G. Hip abductor tears among patients with degenerative scoliosis: A Case series and literature review.  
*Canadian Spine Society Annual Conference*. Toronto, Ontario. March 2019.

**Kooner S**, Wang A, Montgomery S, Johal H. Static vs. Dynamic Fixation of Acute Syndesmosis Injuries: A Meta-analysis.  
*Canadian Orthopedic Association Annual Meeting*. Victoria, British Columbia. June 2018.  
*Canadian Orthopedic Resident's Association*. Victoria, British Columbia. June 2018.

**Kooner S**, Sridharan S, Hewison C, Lui J, Matthewson G, Clark M. Waste and Recycling Among Orthopedic Surgery Subspecialties.  
*Canadian Orthopedic Resident's Association*. Victoria, British Columbia. June 2018.

**Kooner S**, Cinats D, Kwong C, Matthewson G, Dhaliwal G. Conservative Treatment of Cubital Tunnel Syndrome: A Systematic Review.  
*Canadian Orthopedic Resident's Association*. Victoria, British Columbia. June 2018.

**Kooner S**, Johal H, Clark M. Bicompartamental Knee Arthroplasty vs. Total Knee Arthroplasty for the Treatment of Medial Compartment and Patellofemoral Osteoarthritis.  
*Canadian Orthopedic Association Annual Meeting*. Québec City, Québec. June 2016.

**Kooner S**, Switzer A, Damji O, Grewal S. Investigation of Courtship Short-Term Memory in *Drosophila melanogaster* via P-element mutagenesis *gish*, *fas2*, and *scb* genes.  
*Health Sciences Symposium*. University of Calgary, Calgary, Alberta. April 2012.

**Kooner S**, Edgecombe T, Stefanyshyn D. Subject Specific Alpine Ski Selection.  
*HRYS Studentship Symposium*. University of Calgary, Calgary, Alberta. July 2006.

## GRANTS/ AWARDS

FM-EM Resident Outstanding Teaching Award  
University of Alberta, Edmonton, Alberta. April 2024

Resident Research Travel Grant (\$2000)

**Kooner S**, Sridharan S, Hewison C, Lui J, Matthewson G, Johal H, Clark M. Waste and Recycling Among Orthopedic Surgery Subspecialties.  
University of Calgary, Calgary, Alberta. June 2019.

Resident Research Travel Grant (\$2000)

**Kooner S**, Wang A, Montgomery S, Schneider P, Johal H. Static vs. Dynamic Syndesmosis Fixation: A Meta-analysis.  
University of Calgary, Calgary, Alberta. March 2018.

Bone and Health Joint (COREF) Research Grant (\$5000)

Montgomery S, **Kooner S**, Ludwig T, Schneider P. Impact of 3D Printed Calcaneal Fracture Models on Injury Understanding in Orthopaedic Surgery Residents.  
University of Calgary, Calgary, Alberta. February 2019.

Bone and Health Joint (COREF) Research Grant (\$5000)

Calgary Orthopedic Resident Research Group (CORRG). Assessment of Radiation Safety Awareness Amongst Canadian Orthopedic Surgery Residency Training Programs.  
University of Calgary, Calgary, Alberta. February 2019.

Bone and Health Joint (COREF) Research Grant (\$5000)

**Kooner S**, Batuyong E, Sharma R. The Effect of Psychiatric Illness on Patient Reported Outcomes in Primary Total Hip and Knee Arthroplasty: A Retrospective Matched Cohort Study.  
University of Calgary, Calgary, Alberta. February 2018.

Bone and Health Joint (COREF) Research Grant (\$3500)

**Kooner S**, Sridharan S, Hewison C, Lui J, Clark M. Waste and The Carbon Footprints of Orthopedic Surgery Subspecialties.  
University of Calgary, Calgary, Alberta. February 2018.

Bone and Health Joint (COREF) Research Grant (\$4960)

Schneider P, Weins C, **Kooner S**, Duffy P, Sanders D. Can Dynamic CT Distinguish Differences in Tibio-fibular Motion Between Flexible and Static Fixation of Syndesmosis Injuries?  
University of Calgary, Calgary, Alberta. February 2018.

Bone and Health Joint (COREF) Research Grant (\$5000)

Calgary Orthopedic Resident Research Group (CORRG). Quantification of Radiation Exposure in Orthopedic and Vascular Surgery Residents.  
University of Calgary, Calgary, Alberta. February 2018.

Surgeon's Day Research Symposium Best Poster

Montgomery S, **Kooner S**, Schneider P. Impact of 3D Printed Calcaneal Fracture Models on Injury Understanding in Orthopaedic Surgery Residents.  
University of Calgary, Calgary, Alberta. June 2019.

Resident Research Symposium Best Podium Runner-up

**Kooner S**, Wang A, Montgomery S, Schneider P, Johal H. Static vs. Dynamic Syndesmosis Fixation: A Meta-analysis.

University of Calgary, Calgary, Alberta. April 2018.

Resident Research Symposium Best Podium Runner-up

**Kooner S**, Johal H, Clark M. Bicompartamental Knee Arthroplasty vs. Total Knee Arthroplasty for the Treatment of Medial Compartment and Patellofemoral Osteoarthritis.

University of Calgary, Calgary, Alberta. April 2016.

HYRS Summer Research Studentship (\$2500)

**Kooner S**, Edgecombe T, Stefanyshyn D. Subject Specific Alpine Ski Selection. HRYS Studentship Symposium.

University of Calgary, Calgary, Alberta. July 2006.

## **LOCUMS**

Chinook Regional Hospital, Lethbridge, Alberta, Canada

December 17-22, 2020

February 5-7, 2021

Guelph General Hospital, Guelph, Ontario, Canada

November 15-17, 2019

March 20-22, 2020

August 16, 2020

September 10-12, 2020

January 1-3, 2020

Northern Lights Regional Health Centre, Fort McMurray, Alberta, Canada

July 22-29, 2019

December 22-29, 2019

## **SCHOLARSHIPS & HONOURS**

Johnson/Munn Academic Scholarship

2012

Al Larson Memorial Scholarship

2012

Jason Lang Scholarship

2011-2014

Undergraduate Merit Scholarship

2009

Faculty of Medicine Dean's List

2008-2011

Undergraduate Entrance Scholarship

2008

Harnam Singh Hari Memorial Scholarship

2008

O'Brien BHSc Admission Award

2008

Rundle College Long Term Athletics Award

2008

Rundle College Valedictorian

2005, 2008



## **CONFERENCES & COURSES**

Advances in Hip and Knee Revision Arthroplasty (Zimmer, New York City)	2023
Great Expectation North (Stryker, Toronto, ON)	2022
Wright Medical ProStep Course	2020
Integra Foot and Ankle Fellows Course	2019
AOFAS Annual Meeting	2019
SPORC	2019
CORR Reconstructive Surgery Course	2019
AAOS Annual Meeting	2018-2019
AO Trauma Advanced	2017
COFAS Annual Meeting	2017, 2020
COA Annual Meeting	2016-2019
AO Trauma Basic	2015

## **MEMBERSHIPS & LEADERSHIP**

Mount Sinai Orthopaedic Chief Fellow	2020-2021
CPSO Independent License	2019-2021
CPSA Independent License	2019-Present
Research Portfolio Committee Resident Representative	2016-2019
Orthopedic Surgery Residency Social Events Coordinator	2014-2019

## **VOLUNTEER**

Surgery Clerkship OSCE Exam Assessor, University of Toronto	2020
MSK Undergraduate Course Instructor, University of Calgary	2015-2019
Childcare Playroom Volunteer, Alberta Children's Hospital	2009-2012
Basketball Head Coach, Rundle College Jr./Sr. High School	2008-2011