



Words of Wisdom by Werle!

Dear Orthopaedic Surgeons, Residents, and Staff,

I would like to begin by congratulating all of the Section members who received a promotion effective July 1st. Congratulations to Dr. Marlis Sabo, Dr. Ganesh Swamy, Dr. Neil White, and Dr. Aaron Bois who were promoted to Clinical Associate Professor. Congratulations to Dr. Fabio Ferri-de-Barros who was promoted to Clinical Professor. Dr. Ferri-de-Barros was also the recipient of the Guenter Award for International Health from the Cumming School of Medicine. Congratulations to all!

There is significant work proceeding on the Alberta Surgical Initiative (ASI). This has included the development of Central Access and Triage for Orthopaedic Surgery throughout the province. It is now called Facilitated Access to Specialized Treatment (FAST) and the hope is to have this program implemented with our Primary Care partners in the Calgary Zone by December 1st, 2022. A special thank you to Dr. Peter Lewkonja for his assistance as co-chair of the CZ Working Group. I would also like to thank all Section members that are participating in this important initiative. The Chartered Surgical Facility (CSF) RFP process for Orthopaedics is now in the due diligence phase. The importance of patient safety and quality of care has been emphasized throughout the process by the surgeons and clinicians involved. Health Human Resources will provide ongoing challenges within CSF and AHS environments as we attempt to resume and gradually increase surgical volumes this fiscal year.

Challenges with acute care coverage continue and this is a priority for the Section and Department. Stipends for Clinical Associates (Physician Extenders) will continue until a more definitive solution is implemented. A clinical ARP for a hospitalist model has been approved for Surgery within the Calgary Zone. Details regarding implementation and implications for our Section are being worked on in earnest through the Department. Increasing the number of Clinical Surgical Assistants (CSAs) is also in progress with ongoing hiring and a request for 4 additional CSAs within the Section. This remains the number one patient safety concern for the Section of Orthopaedics.

The Connect Care launch at ACH and PLC commenced on May 28th. Thank you to all participating Section members as your feedback, experience and ongoing work will undoubtedly help your fellow Section members in future launches (FMC – November 2022 and SHC/RGH in May 2023). On a positive note, the Section will welcome several guests this fall. I encourage you all to attend The Cy Frank Legacy Lecture by Dr. Ewa Roos (developer of the GLA:D program) from Denmark that will take place in-person on September 19th. As well, the Section will host the North American Traveling Fellows (NATF) on October 4th-7th. We will plan stimulating academic events for our Residents and Faculty during their visit.

Finally, I hope that you will all be able to take time for rest and relaxation with your friends and family this summer. You all deserve a break!

Thanks,

Jason

Education – Making the Grade!

Congratulations to Jennifer Purnell and Michael James for successfully passing the Royal College exam! Job well done!

Congratulations to the residents who again won the Annual Spencer McLean Classic Faculty vs Resident Hockey game with a score of 7 to 3. The faculty had an early lead but couldn't overcome the energy level of the residents during the latter part of the game. Thanks to all those who participated/watched the game and/or socialized afterwards.

Congratulations to Jennifer Purnell for winning an Alberta Medical Association/TD Meloche Monnex Scholarship.

Welcome to the new group of first year residents who started on July 1, 2022: Stephanie Gibbon (UCalgary); Tim Lasswell (McMaster); Michael Leslie (UCalgary); Kaja Matovinovic (UCalgary); Meredith Stadnyk (UAlberta).

The date for the site visit for the upcoming External Review (Accreditation) will be on Tuesday September 20th, 2022. Please mark this in your calendar as we hope that everyone can participate during the site visit.

2022-2023 Chief Resident are Murray Wong (R5) and Christopher Hewison (R4).

Research – Skeletal Mentions!

Congratulations to all involved in our in person May 12, 2022 10th Annual Orthopaedic Resident Research Day – Awardees are: (a) Full Presentations: L. Morrison 1st Place, T. Ludwig 2nd Place, M. Wong People's Choice; (b) Abbreviated Presentations: D. You 1st Place, A. Abbott 2nd Place, a tie for People's Choice went to M. Wong and L. Morrison; and (c) 3MT Presentations: A. Policchicho 1st Place, and to CORR for both 2nd Place and People's Choice. A huge thank you to our adjudicators D. Whelan, M-L Quan, and F. Nicholls, as well as to P. Schneider and J. Crawford for organizing the day.

For 2022 Clinician Scientist Awardees see details below under McCaig Institute.

2022-23 Research Assistant Salary Matching Competition awardees are Alex Rezanoff/Lisa Phillips, and Prism Schneider and team.

Faculty Seed Grant Applications are currently in the call for applications stage – deadline is: July 31st (contact Judy for more information – acortho@ucalgary.ca).

Request for COREF Applications will be distributed to Residents/Faculty in early July with a deadline date of September 27th.

Paul Salo has stepped down as the Director of Faculty Research and Prism Schneider has taken on this role starting July 1st.

News from the McCaig Institute for Bone and Joint Health

2022 Clinician Scientist Collaboration Seed Grants Awardees: (1) S. Manske/N. White "Evaluation of carpal kinematics following reduction and association of the scapholunate (RASL) procedure for scapholunate dissociation"; (2) M. Choi/A. Dufour "Sporadic inclusion body myositis proteomics to identify novel biomarkers (SPIN)"; (3) R. Walker/B. Edwards "Posterior horn medial meniscal root tears: A novel use of weight-bearing computed tomography to assess meniscal function post repair"; (4) P. Schneider/E. Agbani "Multi-modal analysis of platelet function in the setting of antiplatelet thromboprophylaxis use following total knee and total hip arthroplasty"; and (5) G. Swamy/H. Sparks "Exploring cellular heterogeneity in annulus fibrosus of degenerative spondylolisthesis and degenerative scoliosis patients".

Please mark your Calendars for the following events: (1) McCaig Summer Student Symposium on August 18th; (2) Cy Frank Legacy Lecture on September 19th - guest lecturer is Dr. Ewa Roos; and (3) Wood Forum October 29th - for full details contact: mccaig@ucalgary.ca.

Course Organization/Participation:

Paul Salo, on behalf of the McCaig Institute, hosted the April 5th Clinician Scientist Speed Dating event which was a great success with twenty participants – this McCaig Institute event was organized by Sandra Gollnick.

Mike Monument has been named as one of the 2022 ABC Travelling Fellows – this prestigious travelling fellowship will take place in the fall of this year (representation was selected by the COA's Exchange Fellowships Committee)

Fabio Ferri-de-Barros received the 2021 Guenter Award for International Health Award for clinical adjunct and research faculty from the Cumming School of Medicine at the University of Calgary – this awards acknowledges significant achievements in international health.

As of July 1st, the following individuals received academic promotions to the rank of Clinical Associate Professor – Aaron Bois, Marlis Sabo, Ganesh Swamy and Neil White; and Fabio Ferri-de-Barros was promoted to the rank of Clinical Professor.

Grants:

Prism Schneider and Neil White each received a 2022 Canadian Orthopaedic Research Legacy (CORL) Grant from the Canadian Orthopaedic Foundation. Titles of the projects are: “Timely Hip Fracture Care Pathway Implementation: A feasibility study” and “FROST 2.0: Factors predicting orthopaedic trauma volumes”.

Roman Krawetz, Holly Sparks and William Edwards were awarded a New Frontiers in Research Fund (NRF) Exploration Grant for their project “A transdisciplinary approach to develop stem cell therapies for equine cartilage injuries”.

Orthopaedic Faculty who were recipients of the McCaig Institute's 2022 Clinician Scientist Collaboration Seed Grants are: N. White/S. Manske; P. Schneider/E. Agbani; and G. Swamy/N. Sparks (for details see the McCaig Institute Section of this Newsletter)

Presentations:

On April 12th two of Prism Schneider's Masters graduate students were amongst the top nine presenters in the University of Calgary 3MT Finals: Tanya Cherppukaran “Identifying perpetrators of intimate partner violence” and Daniyya Chaudry “Duration of increased clotting ability following joint replacement surgery”.

Jessica Corpuz (trainee with Roman Krawetz) “Elucidating the role of proteoglycan 4 in murine intervertebral discs” - McCaig Weekly Seminar on May 4th.

The following individuals presented their research via podium presentations at the 7th Annual McCaig Meeting on Musculoskeletal Diseases on May 6th, Annalise Abbott – “Characteristics and surgical outcomes for patients with metastatic bone disease managed with urgent elective versus emergent surgical care pathways”; Anand Masson (trainee with Roman Krawetz) – “Induction of chondrocyte depletion by diphtheria-toxin is not sufficient to cause articular cartilage degradation”; Karys Hildebrand (trainee with Mike Monument) – “STING activation in sarcoma: Assessing clinically relevant therapeutic strategies”.

The following individuals presented their research via poster presentations at the 7th Annual McCaig Meeting on Musculoskeletal Diseases on May 6th, Ashley Clarke (trainee with Prism Schneider) – “Hypercoagulability profiles following surgically treated pelvic and acetabular fractures, demonstrated by serial-thrombelastography”; Nicoletta Ninkovic (trainee with Roman Krawetz) – “Effect of rhPRG4 on skin wound healing in large animal translational study”; Kurt Hildebrand (trainee with Mike Monument) – “Investigating the role of macrophages in a murine model of soft tissue sarcoma”; Alana Stahl (trainee with Roman Krawetz) – “Examination of bone turnover in ovariectomized cynomolgus monkeys post-antiresorptive treatment”; Jessica Corpuz (trainee with Roman Krawetz) – “Elucidating the role of proteoglycan 4 in murine intervertebral discs”; Taylor Bader (trainee with Ganesh Swamy and David Hart) – “Do biochemical and structural differences in the female post-menopausal intervertebral disc cause degenerative scoliosis and spondylolisthesis?”; Nabangshu Das (trainee with Antoine Dufour and Roman Krawetz) – “Interaction of proteoglycan 4 and tryptase: A key target in altered inflammatory signaling in osteoarthritis; and Lisa Yamaura (trainee with Prism Schneider) – “Evaluating hypercoagulability and platelet hyperactivity in patients with metastatic bone disease after orthopaedic surgery”: A pilot study”.

Two of Prism Schneider's trainees were presenters at the McCaig Institute Weekly Seminars: May 18th - Ashley Clark “To clot, or not to clot?: Using TEG analysis to assess hypercoagulability following pelvic and acetabular fractures”; May 25th – Lisa Yamaura “TEG Talk: Can thrombelastography identify hypercoagulability and platelet hyperactivity in orthopaedic surgery patients with metastatic bone disease?”.

Fabio Ferri-de-Barros presented “Ethics for Quality: The ACH Scoliosis Case Study” at the Department of Surgery City-wide Surgical Rounds on June 3.

Other:

Laural McDonald, long-time assistant to Bob Bray and Paul Salo retired from the University of Calgary at the end of May and we wish her all the best in her new role as Clinic Manager at Clearpoint!

Marlis Sabo has completed the first half of her sabbatical which was designated as a “musical component” and she is now moving on towards her academic component of her sabbatical. On May 30th she had a recital as a final preparation for her piano examination. Congratulations Marlis!

Kelley deSouza retired from his orthopaedic practice and his AHS leadership role at the RGH on May 13, 2022. We wish him well in his retirement.

Some recent publications:

Roman Krawetz, YE Wu, KL Bertram et al (including Paul SalP): Synovial mesenchymal progenitor derived aggrecan regulates cartilage homeostasis and endogenous repair capacity. Cell Death Dis 13, 470 (2022). <https://doi.org/10.1038/s41419-022-04919-1>.

Residents Retreat Canmore March 31 to April 1



April 28, 2022 Annual Spencer McLean Faculty vs Resident Hockey Game



Residents win 7-3

For our faculty and past and current residents, the celebration of **50 Years of Calgary Orthopaedic Surgery** has been postponed and will now take place on **June 24, 2023!** On-line registration will be available in Winter 2023 – watch for future emails. If you have any questions, contact Judy at acortho@ucalgary.ca.

Please contact Judy Crawford at acortho@ucalgary.ca if you have submissions or ideas for contents for future newsletters!

The Calgary Section of Orthopaedic Community was well represented at the 2022 COA, CORS, CORA Meetings which took place both virtually and in person in Quebec in June – Congratulations to all of you:

COA MODERATORS

A Bois – Shoulder 2; M Monument – (1) Case-Based Routable Session MSK Oncology On-call and in Community Practice Setting (2) Tumour/Trauma Osseointegration techniques for Lower Extremity Amputees (3) National Collaborations in MSK Oncology Research, (4) CANOOS Business Meeting – Tumour; J Werle – Adult Reconstruction Hip 1; and N White – (1) WECAN Annual Business Meeting – Hand & Wrist, (2) Hand and Wrist, (3) Hand & Wrist Symposium: An Update on Carpal Instability Patterns from Diagnosis to Treatment

COA SYMPOSIUM PRESENTATIONS

M Wong: The Resident Perspective (Symposium: Redefining Community Orthopaedics in Canada in 2022)

N White: Just Shorten the Ulna (Debate on How I fix a Malunion as part of the Techniques of Correction Hand and Wrist Symposium: Malunion of the Distal Radius - Identifying the Problem, Making a Treatment Plan) m

G Dhaliwal: Structural Autograft is Best (Debate on What Kind of Bone Graft Do I Use? as part of the Techniques of Correction Hand and Wrist Symposium: Malunion of the Distal Radius - Identifying the Problem, Making a Treatment Plan)

N White: The Distal Radioulnar Joint - When do you Need to do Something and What (Debate on What Kind of Bone Graft Do I Use? as part of the Techniques of Correction Hand and Wrist Symposium: Malunion of the Distal Radius - Identifying the Problem, Making a Treatment Plan)

AJ Bois: Indications for a Reverse Shoulder Arthroplasty – From Cuff Tear Arthropathy ... To the Moon! (Upper Extremity Symposium – Reverse Shoulder Arthroplasty – Where We Are and Where We Go)

G Dhaliwal: Splinting Postop: Why and When is it Important, How To Do It (Hand and Wrist Symposium – Stiffness in the Upper Extremity after Trauma or Surgery – How to stay out of trouble and what to do when it happens anyways)

K Hildebrand: The Stiff Elbow (Hand and Wrist Symposium – Stiffness in the Upper Extremity after Trauma or Surgery – How to stay out of trouble and what to do when it happens anyways)

R Martin: IM Nailing of the Tibia (Trauma Symposium – Tips and Tricks in IM Nailing)

G Dhaliwal: How I Think About Carpal Instability (Hand & Wrist Symposium – An Update on Carpal Instability Patterns from Diagnosis to Treatment)

Point/Counterpoint: RASL vs. Brunelli - moderated by K Hildebrand: Faculty R Grewal and N White (Hand & Wrist Symposium – An Update on Carpal Instability Patterns from Diagnosis to Treatment)

Panel Discussion - Wrist Instability after Distal Radius Fractures - Panelist BH Perey, G Dhaliwal, R Grewal and K Hildebrand, (Hand & Wrist Symposium – An Update on Carpal Instability Patterns from Diagnosis to Treatment)

COA 2022 MEETING HIGHLIGHTS PLENARY SESSION:

P Schneider, S Bergeron, A Liew, HJ Kreder, G Berry, Canadian Orthopaedic Trauma Society (COTS): A Randomized Controlled Trial Comparing Operative and Nonoperative Treatment of Humeral Diaphyseal Fractures

COA PODIUM PRESENTATIONS

J Werle, S Kearns, J Bourget-Murray, K Johnston: Comparing One-Year and Ten-Year Whole Blood Metal Ion Results Following Birmingham Hip Resurfacing for Osteoarthritis

E Bishop, G Kuntze, M Clark, J Ronsky: Biomechanical Effect of a Tri-Compartment Offloader Knee Brace on Knee Function and Pain during Stair Descent in Individuals with Multicompartment Knee Osteoarthritis

P Schneider, S Bergeron, A Liew, HJ Kreder, G Berry, Canadian Orthopaedic Trauma Society (COTS): A Randomized Controlled Trial Comparing Operative and Nonoperative Treatment of Humeral Diaphyseal Fractures

L Morrison, A Abbott, ZE Mack, P Schneider, LA Hiemstra: Pregnancy and Parenthood as a Woman in Orthopaedic Surgery: A Scoping Review

B Benavides, D Cornell, P Schneider, K Hildebrand: Inter-Rater Reliability of Traumatic Elbow Heterotopic Ossification Diagnosis at 52 Weeks Follow-Up

R Martin, K Matovinovic, P Schneider: Outcomes Following Surgical Management of Multi-ligamentous Knee Injuries Using Adjustable Suspensory Fixation

J Kitzen, K Paulson, B Edwards, R Bansal, R Korley, Felicia - Nurse, P Duffy, A Dodd, R Martin, P Schneider: Biomechanical Evaluation of Optimal Mini-Fragment Dual Plate Configuration for Midshaft Clavicle Fracture Fixation

A Tarcea, MM Vergouwen, BC Mattiello, EC Sayre, N White: The Alberta Slip and Fall Index

M Wong, B Benavides, R Sharma, R Ng, NM Desy: Topical Vancomycin for the Prevention of Prosthetic Joint Infection in Hip and Knee Arthroplasty: A Systematic Review and Meta-Analysis

L Yamaura, M Monument, L Skeith, P Schneider: Prolonged Post-operative Hypercoagulability Can be Defined Using Thrombelastography in Patients with Metastatic Bone Disease

A Abbott, J Kendal, S Moorman, B Wajda, P Schneider, S Puloski, M Monument: Characteristics and Surgical Outcomes for Patients with Metastatic Bone Disease Managed with Urgent Elective Versus Emergent Surgical Care Pathways

KM Hildebrand, KNs Hildebrand, K Marritt, C Salazar-Arcila, A Singla, M Monument: STING Activation in Sarcoma: Assessing Clinically Relevant Therapeutic Strategies

P Schneider: Thromboprophylaxis: One Size May Not Fit All, a TEG Talk

D You, R Korley, Felicia - Nurse, P Duffy, R Martin, A Dodd, RE Buckley, A Soo, P Schneider: Early Discharge Following Hip Fracture Surgery is Associated with Decreased Hypercoagulability and Venous Thromboembolism Risk

P Schneider, D You, A Dodd, P Duffy, R Martin, L Skeith, A Soo, R Korley, Felicia – Nurse: Platelet-mediated Hypercoagulability Following a Hip Fracture is Identified Using Thrombelastography

AJ Bois, C Brady, A Gabig, L Griffin, AK Dutta: The Evaluation, Classification and Management of Spontaneous Sepsis of the Native Shoulder Joint

R Lohre, A Lobo, AJ Bois, J Whitcomb Pollock, P Lapner, G Athwal, D Goel: Error in Implant Orientation by Novice Versus Experienced Surgeons: The Positive Impact of Hands-On Learning

R Boorman: What Happens to Patients When We do Not Repair Their Cuff Tears? 5 Year Rotator Cuff Quality of Life Index Outcomes Following Nonoperative Treatment of Patients with Full-Thickness Rotator Cuff Tears (JSES 2018)

G Hawker, E Bohm, M Dunbar, CA Jones, B Ravi, T Noseworthy, L Woodhouse; P Faris, DA Dick, JN Powell, PJ Paul; D Marshall: Criteria for Patient Appropriateness for Primary, Elective Total Knee Arthroplasty for Knee Osteoarthritis

COA EPOSTER PRESENTATIONS (VIRTUAL)

K Hildebrand, K Hildebrand C Salazar-Arcila, M Monument: Investigating Macrophage Deficiency in a Murine Model of Soft Tissue Sarcoma

L Morrison, P Schneider: Investigating Scholarly Education in Canadian Orthopaedic Residency

E Bishop, CA. McGibbon, G Kuntze, M Clark, J Ronsky: Effect of a Tri-Compartment Offloader Knee Brace on Knee Joint Forces during a Sit-Stand-Sit in Individuals with Multicompartment Knee Osteoarthritis

CORA PODIUM PRESENTATIONS

R Bansal, J Bourget-Murray, L Brunet, PL Railton, R Sharma, A Soroceanu, SG Piroozfar, C Smith, JN Powell: Assessment of Risk Factors for Acute Postoperative Periprosthetic Joint Infections following Primary Total knee Arthroplasty

D You, R Korley, Felicia - Nurse, P Duffy, R Martin, A Dodd; RE Buckley, A Soo; P Schneider: Early Discharge Following Hip Fracture Surgery is Associated with Decreased Hypercoagulability and Venous Thromboembolism Risk

J Kendal, LW Fruson, M Litowski, S Sridharan, M James, J Purnell, M Wong, TE Ludwig; J Lukenchuk, B Benavides, D You, T Flanagan, A Abbott, C Hewison, E Davison, BJ Heard, L Morrison, J Moore, L Woods, J Rizos, LJ Collings, K Rondeau; P Schneider: Which Radiographic Parameters Predict Delayed Fracture Displacement of Distal Radius Fractures Resulting in Surgical Treatment?

CORA EPOSTER PRESENTATIONS (VIRTUAL)

L Morrison, A Abbott, ZE Mack, P Schneider, LA Hiemstra: Pregnancy and Parenthood as a Woman in Orthopaedic Surgery: A Scoping Review
B Benavides, D Cornell, K Hildebrand, P Schneider: Inter-Rater Reliability of Traumatic Elbow Heterotopic Ossification Diagnosis at 52 Weeks Follow-Up

M Wong, B Benavides; R Sharma, R Ng; NM Desy: Topical Vancomycin for the Prevention of Prosthetic Joint Infection in Hip and Knee Arthroplasty: A Systematic Review and Meta-Analysis

L Morrison, P Schneider: Investigating Scholarly Education in Canadian Orthopaedic Residency

CORS EPOSTER PRESENTATIONS (VIRTUAL) – None in 2022

Within our newsletter in the COA/CORA/CORS section, if you read/notice duplications, it is because those presentations appeared in more than one locatin in the COA/CORA/CORS Programs.

If we missed any presentations/posters/moderator positions etc. for the 2022 COA, CORS, CORA Meetings please accept out sincerest apologies, as it would be an oversight on our behalf and was not intentional.