



Words of Wisdom by Werle!

Welcome to this edition of the “No Bones About It Newsletter”. I hope you’ve all had a great 2019 to date.

As our 2018/19 academic year draws to a close I would like to highlight some of the activities within the Section of Orthopaedic Surgery:

- The Arthroplasty/Trauma surgeon recruitment at SHC has concluded. Welcome to Dr. Emmanuel Illical who will begin in January 2020!
- Dr. Richard Ng has been recruited as the Quality Improvement Lead for Orthopaedics. Congratulations, Richard!
- The Senior Surgeon Policy Committee continues to meet and has several Orthopaedic members: Iain Russell, Nick Mohtadi, and myself.
- The budgeting process for the Section of Orthopaedics lead by Research and Finance Manager, Tommy Chan, has been completed. Fund transfers from the Department of Surgery should be forthcoming shortly. This funding is critical to our education and research programs within the Section.
- The COREF Research grant competition was successful with 12 resident/fellow research projects funded. Congratulations to all successful applicants and their faculty preceptors! Congratulations also to the 5 teams successful in the Faculty Seed Grant competition.
- Practitioner Reviews for the Section Members at SHC and FMC have been completed. Thank you to the Site Chiefs and OR nursing management that assisted with these.
- The new Ortho Executive Committee meets bimonthly (alternating with Section meetings) and includes the site chiefs as well as representatives from education and the research portfolios.

Thank you to all members that are participating in these activities on behalf of the Section.

A comprehensive Strategic Planning Retreat for Orthopaedics was held on January 26 and 27, 2019 at the Banff Centre. Six Working Groups were formed and are actively meeting to address the following areas: Unity, Patient-Centered Approach, The Department, Data, Non-Clinical Activity, and the Ortho Executive is working on the Senior Surgeon Policy, On Call, and OR allocation. All of this activity will culminate in Part 2 of the Strategic Planning process which will be a one-day retreat in the early Fall. More information will be forthcoming.

I hope to see all of you at the Orthopaedic Year End Barbecue being held at the Wild Rose Brewery on the evening of Thursday, June 27th. Come out to say farewell to the R5’s and welcome the new R1’s.

Finally, on behalf of the Section of Orthopaedics, I wish you all an adventurous and also restful summer vacation season with your family and friends.

Education – Making the Grade!

- Congratulations to our new chief residents for 2019-2020 – Jonathan Bouget-Murray and Joe Kendal
- Daniel You has been accepted into the Clinician Investigator Program for 2019-2020 – this is a highly competitive program that will support Daniel in an additional dedicated year for his MSc (he will return to the residency program in 2020-2021)
- Laura Morrison was awarded a one-year position as the Canadian Orthopaedic Association Global Surgery (COAGS) Resident Liaison to promote global health opportunities for residents.
- Annual Spencer McLean Classic Residents vs Faculty Hockey Game on April 18th – Residents won 4-2.
- Year-End BBQ is on June 27, 2019 at Wild Rose Brewery in the Barracks Room, beginning at 6:00 pm – we hope you can make it out to celebrate our residents!
- Ian Le and Jacques Bouchard attended the Royal College Specialty Committee CBD Workshop in May 2019. The residency program is on schedule for CBD rollout in July 2020. We will be trialing some EPAs early in the new academic year.
- Orthopaedic Resident Golf Yearly Tournament will be taking place on Thursday, August 8th – watch for further correspondence for registration!

Research – Skeletal Mentions!

- Our thanks to those who submitted applications to the Fraternal Order of Eagles (FOE) 2018 Competition and we congratulate FOE recipient Priyatha Premnath (Drs. Krawetz/Salo/Edwards)
- Welcome to Catherine Leonard (Research Facilitator [funded by the McCaig Institute and Orthopaedics]) - Her role is to facilitate research projects in Orthopaedics and the McCaig Institute and in particular to foster collaborations between the groups and to promote activity in the MoJo facilities
- Thanks to those who submitted applications to the Faculty Seed Grants competition; we are indebted to our volunteer reviewers; Awardees are Drs. A. Dodd, E. Joughin, N. Mohtadi, M. Sabo and P. Schneider -- Congratulations to the five PIs and their teams!
- 2019 Resident Research Day awardees were: Daniel You 1st Place Podium; Eva Gusnowski 2nd Place Podium; Jennifer Purnell 1st Place E-Poster; Daniel You People’s Choice Podium; and CORR for People’s Choice E-Poster
- Welcome to Stacy Kozak who is the interim replacement for the McCaig Institute Business/Operations Manager (Terri May)
- Daniel You awarded 3rd Place in the McCaig Institute’s 2019 Three Minute Thesis Competition in March
- COREF competition will be different this year – watch your emails!

McCaig Institute for Bone and Joint Health: The Institute has launched “The Mobility for Life Project” which is a longitudinal cohort study that expands existing research studies and includes exciting new research initiatives. This project will begin recruiting study participants in late 2019, will follow a large cohort of people with and without bone and joint conditions over many years and will encompass studies in four key areas: healthy living; inflammatory arthritis; osteoarthritis; and osteoporosis. Much of the data will be collected in the McCaig Institute’s Centre for Mobility and Joint Health (MoJo). The Director of the McCaig Institute, Steve Boyd states: “We’re excited to engage Albertans in finding a solution for bone and joint conditions. It’s a huge undertaking, but I think it really builds on our legacy and the McCaig Institute’s tradition of linking basic science with patients. Though we’re calling this a “new” initiative, in many ways, the McCaig Institute has been working towards this for decades.”

Kudos Korner – Congratulations go to

Medical Missions:

- Elaine Joughin participated in a medical mission trip to Thailand in November 2018
- Jim Powell and Jon Bourget-Murray went to Cuenca, Ecuador in March 2019 for the True North Missions Society and reported that 42 patients had surgery, Pam Railton and her team taught CPR to the athletic associations and that the hip screening and cervical cancer screening programs continue to progress

Course Organization/Participation:

- Stephen French presented on “MSK-short snappers on knees” at the CME/PD Evening Course on Obesity and MSK on March 6
- Drs. Duffy (Course chair), Schneider, Korley, Martin, Buckley, Puloski were instructors for the J&J Institute/DePuy Synthes Trauma Course “Orthopaedic Trauma Update for the On-call Surgeon” on April 5th
- Drs. Mohtadi and Rezansoff presented at the April 8th public information session “Tips for Hips: Causes and Treatments of Non-Arthritis Hip Pain”
- Drs. Buckley, Korley, Martin, Desy, Le were instructors at the CME/PD “20th Annual Glen Edwards Day – Trends in Trauma” on May 31
- May 4-5 Drs. Bois, Russell, Sharma, LaMothe, Brauer presented at The Canadian Society of Orthopaedic Technologist (CSOT) biennial Western Symposium, entitled “Stayin Alive – The Times they are a Changing”

Awards/Honours:

- Prism Schneider was honoured at the Cumming School of Medicine’s Celebration of Excellence event (re Avenue Magazine Top 40 Under 40)
- David Parsons is the President of the Canadian Paediatric Spine Society
- Jeremy LaMothe has taken on the position as the Director of Surgical Education for clerks (replacing Adrian Harvey)
- Good luck to Drs. Sabo and Clark who have been selected to participate in this year’s Sharpest Knife Themed Live Grant Competition at Surgeon’s Day in June – their presentation is on “Proximal humerus fractures in non-elderly adults: A pilot study”
- In February, Orthopaedic honourees at the Cumming School of Medicine Faculty Appreciation Night – Class of 2020 Preclerkship Awards/Class of 2018 Clerkship Awards were: (a) Gold Star Awards to Carol Hutchison and Peter Lewkonja; (b) Jersey Award to Peter Lewkonja; (c) Honour Roll Jeremy LaMothe, Mike Monument and Prism Schneider
- Eva Gusnowski (and her co-authors) won the award for best shoulder paper at the recent Arthroscopy Association of North America meeting in Orlando - her paper was on RCT on PRP for partial rotator cuff tears - Congratulations to Eva and team!
- Ganesh Swamy was highlighted in the Department of Surgery, Office of Surgery Research February 2019 “In the Loupe” Newsletter
- In June, Mike Monument received the 2019 Educator of the Year Award as chosen by his surgical colleagues in the Department of Surgery
- The following JOR paper was included as one of the "twelve highly cited articles by Canadian authors" in the JOR virtual issue Focus on Canada: Barton KI, Shekarforoush MM, Heard BJ, Sevick J, Vakili P, Atarod M, Martin CR, Achari Y, Hart DA, Frank CB, Shrive NG. Use of Pre-Clinical Models to Understand Biomechanical and Biological Consequences of Knee Injury and PTOA Development. JOR, Invited, 35(3), 454-465, 2017

Grants:

- Mike Monument, 2018 CORL Grant from COF – “Sting activation as a immunotherapy for soft tissue sarcoma”
- Neil White, 2018 CORL Grant from COF – “The C3P0 trial – Canadian prospective pragmatic perilonate outcomes trial”
- Alex Rezansoff, CSRDF Clinical Research Grant – “Randomized feasibility study comparing bracing protocols following MCL injury”
- Peter Lewkonja and team, CSRDF Education Research Grant – “Simulation-based training of orthopaedic residents in pedicle screw fixation via a minimally-invasive surgery”
- Aaron Bois, CSRDF Education Research – “Arthroscopic double-row repair technique for small-to-medium sized full-thickness rotator cuff tears”
- Murray Wong, Orthopaedic Trauma Association Resident Grant – “Dynamic CT analysis of normal syndesmosis motion and syndesmosis motion after static and dynamic fixation”

**Alberta
Orthopaedic
Resident
Research
Day**

**April 25,
2019**



Kudos Korner – Congratulations go to (continued)

Some recent publications:

- Chijimatsu R, Yano F, Saito T, Kobayashi M, Hamamoto S, Kaito T, Kushioka J, Hart DA, Chung U-I, Tanaka S, Yoshikawa H, Nakamura N. Effect of small compound TD-198946 on glycosaminoglycan synthesis and chondrogenesis of human synovial derived stem cells in vitro. Tissue Engineering & Regenerative Medicine. 2019. [E-pub ahead of print]
- Paul HA, Collins KH, Nicolucci AC, Urbanski SJ, Hart DA, Vogel HJ, Reimer RA. Maternal prebiotic supplementation reduces fatty liver development in offspring through altered microbial and metabolomics profiles in rats. FASEB J. 2019 Jan 10: fj20180155R.
- Rios JL, Bomhof M, Reimer RA, Hart DA, Collins KH, Herzog W. Protective effect of prebiotic and exercise intervention on knee health in a rat model of diet-induced obesity. Science Reports, 2019 March 7; 9(1):3893.
- Shekarforush M, Barton KI, Beveridge JE, Scott M, Martin CR, Muench G, Heard BJ, Sevick JL, Hart DA, Frank CB, Shrive NG. Alterations in joint angular velocity following traumatic knee injury in ovine models. Annals of Biomedical Engineering. 2019 47:790-801.
- Ishiguro H, Kaito T, Yarimitsu S, Hashimoto K, Okada R, Kushioka J, Chijimatsu R, Takena S, Makino T, Sakai Y, Moriguchi Y, Otsuru S, Hart DA, Fujie H, Nakamura N, Yoshikawa H. Intervertebral disc regeneration with an adipose mesenchymal stem cell-derived tissue-engineered construct in a rat nucleotomy model. Acta Biomater. 2019 87:118-129.
- Ahmed AS, Berg S, Alkass K, Druid H, Hart DA, Svensson CL, Kosek E. Nuclear factor-kappa B associated pain related neuropeptide expression in patients with disc degenerative disease. Int J Mol Sci. 2019 Feb 3; 20(3). Pii: E658.
- Hart DA, Herzog W, Reimer RA, Rios JL, Collins KH. Obesity and impact on host systems effecting mobility and potentially, on fidelity of navigation through the environment. European Medical Journal (Invited Review). 2019, 4(1):63-70.
- Montgomery SJ, Rollick NJ, Kubik JF, Meldrum AR, White NJ: Surgical outcomes of chronic isolated scapholunate interosseous ligament injuries: A systematic review of 805 wrists. Can J Surgery 62(2), April 2019 DOI: 10.1503/cjs.006918
- Affan A, Al-Jezani N, Railton P, Powell JN, Krawetz RJ. Multiple mesenchymal progenitor cell subtypes with distinct functional potential are present within the intimal layer of the hip synovium. BMC Musculoskelet Disord. 2019. PMID: 30909916.
- Al-Jezani N, Cho R, Masson AO, Lenehan B, Krawetz R, Lyons FG. Isolation and characterization of an adult stem cell population from human epidural fat. Stem Cells Int. 2019. PMID: 31007686.
- Beaupre LA, Khong H, Smith C, Kang S, Evens L, Jaiswal PK, Powell JN. The impact of time to surgery after hip fracture on mortality at 30- and 90-days: Does a single benchmark apply to all? Injury. 2019. PMID: 30948037.
- Bortz CA, Passias PG, Segreto F, Horn SR, Lafage V, Smith JS, Line B, Mundis GM, Kebaish KM, Kelly MP, Protosaltis T, Sciubba DM, Soroceanu A, Klineberg EO, Burton DC, Hart RA, Schwab FJ, Bess S, Shaffrey CI, Ames CP, International Spine Study Group (ISSG). Indicators for nonroutine discharge following cervical deformity-corrective surgery: Radiographic, surgical, and patient-related factors. Neurosurgery. 2019. PMID: 30848284.
- Hiemstra LA, Page JL, Kerslake S. Patient-reported outcome measures for patellofemoral instability: A critical review. Curr Rev Musculoskelet Med. 2019. PMID: 30835079.
- Matthewson G, Kooner S, Kwapisz A, Leiter J, Old J, MacDonald P. The effect of subscapularis repair on dislocation rates in reverse shoulder arthroplasty: A meta-analysis and systematic review. 2019. J Shoulder Elbow Surg. PMID: 30827833.
- Morrison L, Taylor R, Mercuri M, Thompson J. Examining Canada's return visits to the emergency department after a concussion. 2019. CJEM. PMID: 30947758.
- Ono Y, Makihara T, Yamashita S, Tam KK, Kawai N, Lo IK, Kimura A. Supraspinatus muscle location changes after arthroscopic rotator cuff repair: a potential source of preoperatively predicting tear patterns. Open Access J Sports Med. 2019. PMID: 30881154.
- Premnath P, Ferrie L, Louie D, Boyd S, Krawetz R. Absence of p21(WAF1/CIP1/SDI1) protects against osteopenia and minimizes bone loss after ovariectomy in a mouse model. 2019. PLoS One. PMID: 30970032.
- Shimomura K, Rothrauff BB, Hart DA, Hamamoto S, Kobayashi M, Yoshikawa H, Tuan RS, Nakamura N. Enhanced repair of meniscal hoop structure injuries using an aligned electrospun nanofibrous scaffold combined with a mesenchymal stem cell-derived tissue engineered construct. Biomaterials. 2019. PMID: 30471629.
- Turner B, Alghamdi M, Henning JW, Kurien E, Morris D, Bouchard-Fortier A, Schiller D, Puloski S, Monument M, Itani D, Mack LA. Surgical excision versus observation as initial management of desmoid tumors: a population based study. 2019. Eur J Surg Oncol. PMID: 30420189.
- Premnath P, Ferrie L, Louie D, Boyd S, Krawetz R. Absence of p21(WAF1/CIP1/SDI1) protects against osteopenia and minimizes bone loss after ovariectomy in a mouse model. 2019. PLoS One. PMID: 30970032.
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Life Lessons Quote from L. Frank Baum,
The Wonderful Wizard of Oz

“Can't you give me brains?” asked the Scarecrow.
“You don't need them. You are learning something every day. A baby has brains, but it doesn't know much. Experience is the only thing that brings knowledge, and the longer you are on earth the more experience you are sure to get.”

