

IN THE LOUPE

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Office of Surgical Research

OSR

Department of Surgery

WHAT'S INSIDE

Meet Dr. Trafford Crump • 1

Award Winners • 2

Important Dates • 2

Publications • 3

MEET DR. TRAFFORD CRUMP

It was a warm summer evening in September 2004. The sun was setting over Squam Lake in New Hampshire. The first day of Trafford's tenure as a Ph.D. student at the Center for the Evaluative Clinical Sciences at Dartmouth Medical School was coming to a close. He had spent the day attending a research meeting and now found himself enjoying a beer with the likes of Drs. John Wennberg, Elliott Fisher, and Jon Skinner. They had recently published their seminal paper characterizing the types of variations in health care utilization and were ruminating how these could be studied further.



Trafford's Ph.D. supervisor, Dr. Hilary Llewellyn-Thomas, leaned over and said, "It's a bit taking a drink from a fire hydrant, isn't it?" Trafford would come to find these kinds of casual intellectual interactions the most rewarding part of being a health services researcher.

After publishing his thesis on how patients' treatment preferences could be measured and used to evaluate the observed geographic differences in healthcare utilization, Trafford started the most challenging part of his career— trying to get a job back home in Calgary. He undertook a post-doctoral Fellowship at the University of British Columbia's Centre for Health Services and Policy Research. There, he combined his interests in patient-provided data with those of his mentor, Dr. Jason Sutherland, in healthcare funding models. It was a highly productive relationship that continues to this day.

The final leg of Trafford's path home came in 2017 when he was appointed as an Assistant Professor to the Department of Surgery at the Cumming School of Medicine. Here, Trafford collaborates closely with the Section of Urology, Community Health Sciences, and the Schulich School of Engineering. His goal is to build a rigorous program of research around how patients and clinicians can use technology to collect, analyze, and use patient-provided data for more effective and efficient clinical encounters. Trafford's future plans are pretty straight forward: do good work and let the rest take care of itself. There'll probably be a few more beers and fireside chats in there too.

CONGRATULATIONS TO OUR GRANT & AWARD WINNERS!

- Dr. Marcia Clark (University of Calgary Teaching and Learning Grant) - Comparing Simulation Debrief Quality of a Near-Peer Medical Student Based Versus Faculty-Led Simulation Debriefs.
- Dr. Trafford Crump & Kevin Carlson (SUFU Foundation Study of Chemodenervation) - The Use of Chemodenervation to Treat Overactive Bladder in Elderly Patients.
- Dr. Tito Dadou (Department of Surgery, Surgeon Scientist Program) - Deriving Benchmarks for Surgical Complications
- Dr. Prism Schneider (Avenue Magazine) - Top 40 Under 40 2018

If you have recently received a grant or award and would like to be featured in the next newsletter, please contact Maria Fernando at Maria.Fernando2@ahs.ca.

IMPORTANT DATES

Upcoming Internal Grant Competitions

- Calgary Surgical Research Development Fund – Deadline: February 28, 2019
- Surgeons' Day Sharpest Knife Competition – Deadline: March 29, 2019
- Department of Surgery Open Access Publication Fund – Deadline: June 30, 2019

All applications must be submitted to osr@ucalgary.ca by the specified deadline. For additional information on these competitions, please visit the [OSR Grants & Awards website](#).

Upcoming External Grant Competitions

- [CIHR Planning & Dissemination Grants](#) – Deadline: March 1, 2019
- [CIHR Spring 2019 Project Grant](#) – Deadline: March 4, 2019
- [Workers' Compensation Board Research Program](#) – Deadline: March 27, 2019

Please note that these competitions have internal University of Calgary deadlines and requirements. For assistance navigating the requirements, please contact Maria Fernando at Maria.Fernando2@ahs.ca or the Office of Research Services at rsogrants@ucalgary.ca.

RECENT DOS PUBLICATIONS (JAN - MID FEB 2019)

General Surgery

- Carver DA, Kirkpatrick AW, Eberle TL, Ball CG. Performance of biological mesh materials in abdominal wall reconstruction: study protocol for a randomised controlled trial. *BMJ Open*. 2019. PMID: 30772851.
- Kloos N, Keren D, Gregg S, Maclean AR, Dixon E, Mohamed R, Rochon R, Ball CG. Can we improve the efficiency of care in patients with colorectal cancer from the time of their initial referral for colonoscopy to surgical resection? 2019. PMID: 30694032
- Mah M, Mack LA, Hurton S, Bouchard-Fortier A. Cytoreductive surgery and heated intraperitoneal chemotherapy for peritoneal carcinomatosis from rare etiologies. *Am J Surg*. 2019. PMID: 30760409.
- Mckee JL, Mckee IA, Bouclin MD, Filips DF, Atkinson IJ, Ball CG, McBeth PB, Kirkpatrick MAW. A randomized controlled trial using iTClamp, direct pressure, and balloon catheter tamponade to control neck hemorrhage in a perfused human cadaver model. *J Emerg Med*. 2019. PMID: 30709605
- Netzer I, Kirkpatrick AW, Nissan M, McKee JL, McBeth P, Dobron A, Glassberg E. Rubrum Coelis: The contribution of real-time telemonitoring in acute trauma scenarios-a randomized controlled trial. *Telemed J E Health*. 2019. PMID: 30707651
- Robertson-More C, Prasad S, Gill R, Church N, Mitchell P, Debru E. Early routine use of upper GI contrast series post paraesophageal hernia repair: a single institution consecutive case series. *Surg Laparosc Endosc Percutan Tech*. 2019. PMID: 30730396.

Ophthalmology

- Arora A, Nazarali S, Sawatzky L, Gooi M, Schlenker M, Ahmed IK, Gooi P. K-RIM (Corneal Rim) Angle Surgery Training Model. *J Glaucoma*. 2019. PMID: 30689607
- Nazarali S, Arora A, Ford B, Schlenker M, Ahmed IK, Poulis B, Gooi P. Cadaver corneoscleral model for angle surgery training. *J Cataract Refract Surg*. 2019. PMID: 30318308

Orthopedic Surgery

- Kendal JK, Clark D, Longino D, Marion TE, Buckley R, Schneider PS, Martin R. VIS-IT: Visualizing the Injured Tibia-A Cadaveric Study of Limb Positioning for Posterolateral Tibial Plateau Fracture Visualization. *J Knee Surg*. 2019. PMID: 30677784
- Krawetz R. Resetting the clock on arthritis. *Arthritis Res Ther*. 2019. PMID: 30696476.
- Kwong CA, Ono Y, Carroll MJ, Fruson LW, More KD, Thornton GM, Lo IKY. Full-Thickness Rotator Cuff Tears: What Is the Rate of Tear Progression? A Systematic Review. *Arthroscopy*. 2019. PMID: 30472019
- Purnell JA, Bourget-Murray J, Kwapisz A, Bois AJ, LeBlanc J. Clinical results and complications following surgical management of symptomatic os acromiale: a systematic review. *J Orthop Surg Res*. 2019. PMID: 30674325
- Ren G, Whittaker JL, Leonard C, De Rantere D, Pang DSJ, Salo P, Fritzier M, Kapoor M, de Koning APJ, Jaremko JL, Emery CA, Krawetz RJ. CCL22 is a biomarker of cartilage injury and plays a functional role in chondrocyte apoptosis. *Cytokine*. 2019. PMID: 30623804
- Swamy G, Lopatina E, Thomas KC, Marshall DA, Johal HS. The cost effectiveness of minimally invasive spine surgery in the treatment of adult degenerative scoliosis: a comparison of transpsoas and open techniques. *Spine J*. 2019. PMID: 29859350
- Chijimatsu R, Yano F, Saito T, Kobayashi M, Hamamoto S, Kaito T, Kushioka J, Hart DA, Chung UI, Tanaka S, Yoshikawa H, Nakamura N. Effect of the small compound TD-198946 on glycosaminoglycan synthesis and transforming growth factor- β 3 associated chondrogenesis of human synovium-derived stem cells in vitro. 2019. PMID: 30650248
- Ishiguro H, Kaito T, Yarimitsu S, Hashimoto K, Okada R, Kushioka J, Chijimatsu R, Takenaka 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. PMID: 30690206
- Shekarforoush 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. *Ann Biomed Eng*. 2019. PMID: 30656532

Otolaryngology

- Mattos JL, Rudmik L, Schlosser RJ, Smith TL, Mace JC, Alt J, Soler ZM. Symptom importance, patient expectations, and satisfaction in chronic rhinosinusitis. *Int Forum Allergy Rhinol*. 2019. PMID: 30748101.
- Xu Y, Kong S, Cheung WY, Quan ML, Nakonshny SC, Dort JC. Developing case-finding algorithms for second events of oropharyngeal cancer using administrative data: A population-based validation study. *Head Neck*. 2019. PMID: 30706597

Pediatric Surgery

- Bourget-Murray J, Ferri-de-Barros F. Reinventing the wheel in scoliosis surgery: effective strategies for safely improving efficiency *Can J Surg*. 2019. PMID: 30693741

Surgical Oncology

- Corter AL, Speller B, Wright FC, Quan ML, Baxter NN. Taking the pulse of multidisciplinary cancer conferences for breast cancer care in Canada: a stocktake of current practice. *Breast*. 2019. PMID: 30711773.
- Rattner J, Farshidfar F, Bathe OF. Gas chromatography-mass spectrometry and analysis of the serum metabolomics profile through extraction and derivatization of polar metabolites. *Methods Mol Biol*. 2019. PMID: 30725459.

Thoracic Surgery

- Graham AJ, Ocampo W, Southern DA, Falvi A, Sotiropoulos D, Wang B, Lonergan K, Vito B, Ghali WA, McFadden SDP. Evaluation of an electronic health record structured discharge summary to provide real time adverse event reporting in thoracic surgery. 2019. PMID: 30659062

cont'd on page 4

Urology

- Kavanagh A, Baverstock R, Campeau L, Carlson K, Cox A, Hickling D, Nadeau G, Stothers L, Welk B. Canadian Urological Association guideline for the diagnosis, management, and surveillance of neurogenic lower urinary tract dysfunction. *Can Urol Assoc J*. 2019. PMID: 30763235.
- Liu G, Peterson AC, Wing K, Crump T, Younger A, Penner M, Veljkovic A, Foggin H, Sutherland JM. Validation of the ankle osteoarthritis scale instrument for preoperative evaluation of end-stage ankle arthritis patients using item response theory. *Foot Ankle Int*. 2019. PMID: 30628474
- Mickiewicz B, Hyndman ME, Vogel HJ. Metabolite profiling of clinical cancer biofluid samples by NMR spectroscopy. *Methods Mol Biol*. 2019. PMID: 30725460.
- Sutherland JM, Crump RT, Liu G, Bair MJ, Karimuddin A. Relationship between preoperative patient-reported outcomes and hospital length of stay: a prospective cohort study of general surgery patients in Vancouver, Canada. *Journal of Health Services Research & Policy*. 2019. PMID: 30103632
- Sutherland JM, Rajapakshe S, Younger A, Crump T, Wing K, Liu G, Veljkovic A. Do preoperative patient-reported outcomes predict hospital length of stay for surgically-treated end-stage ankle osteoarthritis patients? *Foot Ankle Surg*. 2019. PMID: 30773458.
- Wittig L, Andrews JM, Crump RT, Carlson KV, Baverstock RJ. Diabetic bladder dysfunction: a review. *Urology*. 2019. PMID: 30352207

If you have recently published a paper and would like to have it featured in the next newsletter, please contact Maria Fernando at Maria.Fernando2@ahs.ca. Department of Surgery members are underlined.