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2010 was a busy year in the Orthopaedic Section. We recruited three orthopaedic staff surgeons to complement our Section. Dr. Allan Hammond joined us in trauma, foot and ankle and complex knee ligament surgery after fellowships in the United States with Dr. Ned Amendola in Iowa and Dr. Jim Stannard in Missouri. Al also spent some time doing locums in Canada and travelled to Australia. Al is well known to our Program from his residency here and we expect him to make tremendous contributions particularly to the foot and ankle and complex knee ligament area.

Dr. Tod Clark joined us from the world renowned Mayo Clinic Hand Program where he did a Hand/Wrist Fellowship. Tod is also very well known from his residency time here. Tod will be working closely with Dr. Jennifer Giuffre to specialize in hand and wrist surgery. He is also probably going to develop an interest in elbow surgery. Tod’s expertise will be a very welcome need to the Section and his teaching skills will aid in the Residency Program.

Dr. Virginie Pollet joins us from Belgium. Virginie was actually living in France when she was recruited. She joins us in the area of Pediatric Orthopaedics where she was doing training in France at the Robert Debré Children’s Hospital in Paris. Prior to that she did clinical fellowship training in Pediatric Orthopaedic Surgery at the Wilhelmina Children’s Hospital in Utrecht. She also spent time doing General Orthopaedic Surgery at the Twenteborg Hospital in the Netherlands. We are extremely fortunate to recruit Virginie to the Section and her skills in the area of Pediatric Orthopaedics especially lower extremity and some pediatric orthopaedic sports medicine will be well received.

We also welcome Melanda Guenther to the position of Manager of Physician Services for the Section of Orthopaedics replacing Shaun Beach who went off to the Faculty of Medicine Simulation Program. Melanda joins us with a history of skills in human resource management and as our Section grows she will be challenged to manage the many staff that fall under the Section at both Pan Am and Health Sciences Centre. We welcome her skills to the Section.

We had another successful Orthopaedic Academic Day in September this year with Visiting Professor Dr. Doug Hedden who is now Chief of Surgery at the University of Alberta in Edmonton joining us as a Visiting Professor and adjudicator. Congratulations to Jesse Shantz and Mohammad Zarrabian for distinguishing themselves with their research.

The Residency Program continues to thrive under the direction of Dr. Jack McPherson and the helpful administrative skills of Donna Shepard. We thank Jack and Donna for their efforts.

Throughout the Section research continues to grow and our Orthopaedic Research Council now demonstrates a very healthy long list of personnel doing research within the Section.

We look forward to 2011 for continued growth and prosperity in the Section of Orthopaedics. We thank you all for your efforts in this regard.
Peter B. MacDonald, MD, FRCSC
Gibson Professor and Head Section of Orthopaedics
University of Manitoba
Dr. Peter MacDonald

Dr. Peter MacDonald is the Medical Director, Department of Surgery at the Pan Am Clinic in Winnipeg. He is also the Head, Section of Orthopaedic Surgery for the University of Manitoba and the Regional Leader, Section of Orthopaedic Surgery for the Winnipeg Regional Health Authority. In addition, Dr. MacDonald is the Gibson Chair of Orthopaedic Surgery and Chief Research and Innovation Officer of the Pan Am Clinic.

Dr. MacDonald completed his undergraduate degrees in Science and Medicine and his Orthopaedic Residency at the University of Manitoba. He then went on to complete his Sports Orthopaedic fellowship under the guidance of Drs. Richard Hawkins, Peter Fowler, and Anthony Miniaci at the University of Western Ontario. Dr. MacDonald has established himself as a prominent researcher in Orthopaedic Sports Medicine and in his accomplished career he has been awarded 52 research grants, published 47 articles in peer reviewed journals, completed 94 research abstracts, and has given 263 presentations at national and international meetings and symposia. He has also completed eight chapters, four educational videos and three review articles. He is a full professor at the University of Manitoba and is also a member of 12 orthopaedic and sports medicine associations, many of which he has served as a director, a committee member, and/or a faculty member. His most recent membership was by invitation to the prestigious Herodicus Society in 2010. Dr. MacDonald has been awarded with 13 research honours including the Robert B. Salter Award, an esteemed research award from the Canadian Orthopaedic Foundation. He was also chosen as the recipient of the 2010 Ignatian Challenge Award by his Alma Mater, St. Paul’s High School in Winnipeg. Dr. MacDonald also has a strong conviction in the role of mentorship in surgical training and has provided innumerable opportunities for the development of residents and international fellows in their surgical skills as well as their research interests.

Bio prepared by Sheila McRae, Research Assistant at Pan Am Clinic Orthopaedic.
The Arthroscopic Skills Day was held on April 23rd and April 24th, 2010. This is traditionally a one-day event for the residents and a one-day for community surgeons. This year we were fortunate in having three outstanding visiting professors in Dr. John Xerogeanes from Emory University in Atlanta, Dr. Gregory Fanelli from Danville, Pennsylvania and Dr. Daniel Whelan from Toronto, Ontario. All three have distinguished themselves as experts in the knee ligament reconstruction field.

This day has become extremely popular with the residents not only for its academic aspects and ability to have hands-on interaction with the visiting surgeons, but also the social aspects of the event that follows afterwards.

In 2011 we will be continuing this tradition with Dr. Xerogeanes returning for a shoulder skills day along with Dr. Ian Lo from Calgary and Dr. John Randle from Newmarket, Ontario.
Dr. Jamie Dubberley is an Orthopaedic Surgeon at the Pan Am Clinic in Winnipeg, specializing in upper extremity surgery. He is also an Assistant Professor in the Section of Orthopaedics at the University of Manitoba and is the Director of the Undergraduate Medical Students in Orthopaedics.

Dr. Dubberley completed an undergraduate degree in Physical Education at Acadia University and then completed his undergraduate medical degree and Orthopaedic Surgery Residency at the University of Manitoba. He then went on to complete a fellowship in Upper Extremity Orthopaedics at the Hand and Upper Limb Centre in London, Ontario. His research interests include the comparison of different surgical approaches to a variety of conditions, e.g., lateral epicondylitis, distal biceps tendon rupture, distal humerus fractures, as well as surgical resident education. Dr. Dubberley has been a program chair of the Manitoba Orthopaedic Symposium since 2006. He is a member of the Canadian Orthopaedic Association and the American Academy of Orthopaedic Surgeons and been involved in over 60 educational or research meetings and programs and given 24 presentations at the national and international level.
This has been a very busy year for Undergraduate Medical Education in the Section of Orthopaedic Surgery. We have seen all of the fresh young faces of the Clinical Clerks as they rotate on their clerkship rotations and have hosted 14 elective students from various medical schools both in Canada and abroad.

The Section continues to teach within the clinical clerkship program with an Introduction to Clerkship Seminar, Comprehensive Patient Assessment, Clinical Skills, and the Clerkship Seminar Series.

Clerkship electives requests have improved over the past year; however, more work is required to attract medical students from other Canadian medical schools to our program.

The Section will once again be participating in the Med II Block V Musculoskeletal Course which will take place from December to March. These consist of Seminars, Tutorials and Clinical Skills Sessions. The Section would like to send a special thank you to all of the senior residents and Fellows for their assistance in teaching this course.

The Section continues to participate in the training of the new Physician Assistant Trainees. All PAEP Trainees complete two-week rotations through Sports Medicine and Adult Orthopaedics. Trainees from the Military Physician Assistant Program continue to complete rotations in Orthopaedic Surgery and we have had a few nurse practitioners spend time as observers with our program.

The Section also continues to participate in the Early Exposure Program and the Mentorship Program to allow those students in their early stages of training the opportunity to spend time learning about the practice of orthopaedic surgery.

Thank you to all faculty, residents, and fellows who participated in teaching in the Undergraduate Education sessions with the Section of Orthopaedic Surgery. Your ongoing cooperation and assistance is very much appreciated.

Dr. Jamie Dubberley,
Director of Undergraduate Education

Dr. Laurie Barron

Dr. Barron practices at the Health Sciences Centre, Pan Am Clinic, and Concordia Hospital where he specializes in orthopaedic trauma and lower extremity joint replacement surgery. He has both Bachelor of Science and Doctor of Medicine degrees from the University of Saskatchewan.

His orthopaedic residency was also completed in Saskatoon. Following three years of community orthopaedic practice in Regina, he pursued two years of trauma and arthroplasty fellowship training in Halifax prior to his arriving in Winnipeg. In 2009 he was given the “Educator of the Year” award for the section of Orthopaedics, and he received an “Honourable Mention” in 2008 and 2010.
Dr. Jason Old

Dr. Jason Old has been in practice since 2009 at the Pan Am Clinic and Concordia Hospital as a member of the Sports and Upper Extremity group.

He completed his undergraduate medical degree and Orthopaedic Surgery Residency at the University of Manitoba Medical School. He completed fellowship training in shoulder and elbow surgery at North Shore Hospital in Auckland, New Zealand and at the Melbourne Shoulder and Elbow Centre in Australia. He also completed a shoulder surgery fellowship in Nice, France under Professor Pascal Boileau. He is also enrolled in a postgraduate program in medical education at the University of Dundee, Scotland. He has an interest in clinical shoulder and elbow research as well as medical education research.

Dr. Greg Stranges

Dr. Stranges works primarily out of Pan Am Clinic and specializes in Sports Medicine, Arthroscopy, Knee and Shoulder surgery. After an undergraduate degree in Science, he completed his MD degree and Orthopaedic Surgical Residency at the University of Manitoba in June of 2007.

Dr. Stranges was then accepted for a one-year fellowship at the University of Toronto in association with Sunnybrook Hospital and their Knee and Shoulder Surgery program then completed a second year long fellowship at the Steadman Hawkins Clinic of the Carolinas for a fellowship in Sports Medicine and Arthroscopic Surgery. Dr. Stranges returned to the University of Manitoba to begin an academic orthopaedic surgery practice in August 2009. He currently teaches at the undergraduate, graduate and residency levels of the University of Manitoba Surgery Program. Dr. Stranges current research is querying the benefit of sutures over staples in a randomized controlled trial. He is currently a member of the Canadian Orthopaedic Association, the American Academy of Orthopaedic Surgery, the American Orthopaedic Society of Sports Medicine, the Arthroscopy Association of North America and a Fellow of the Royal College of Physicians and Surgeons.
Dr. Tod Clark

Dr. Clark works at the Pan Am Clinic in Winnipeg where he specializes in hand, wrist and microvascular surgery, as well as peripheral nerve and brachial plexus reconstruction surgery. He has an undergraduate degree in Science and a Master’s degree of Science in Physiology specializing in stroke and vascular disease from the University of Manitoba.

Dr. Clark graduated from medicine at the University of Manitoba in 2004. He then completed his surgical residency at the University of Manitoba in 2009 and is a fellow of the Royal College of Physicians and Surgeons of Canada.

After his residency, Dr. Clark went on to do a clinical fellowship in Hand, Wrist and Microvascular Surgery at the Mayo Clinic in Rochester MN. Dr. Clark began his orthopaedic surgical practice in Winnipeg in August 2010 and is working with Dr. Jennifer Giuffre in developing a brachial plexus and peripheral nerve reconstruction clinic. He has helped develop Hand Service Rounds at the Pan Am Clinic which run Monday mornings from 7–8 a.m. and feature didactic lectures and informal case presentations. Dr. Clark has published various articles during his academic career. Please refer to the back of this publication for references as well as references for those articles which have been accepted for future publication. Dr. Clark won the Frederick Robert Tucker Memorial Award for Outstanding Orthopaedic Research for two years consecutively (2007 and 2008). Ongoing research interests include scaphoid non-union repair outcomes, pediatric carpal tunnel syndrome and lateral epicondylitis. He is currently a member of the Canadian Orthopaedic Association, the American Association of Orthopaedic Surgeons, and the American Society for Surgery of the Hand.

Dr. Jeff Leiter

Dr. Leiter is the Research Chair and Executive Director of the Pan Am Clinic Foundation. He is also an Assistant Professor in the Faculty of Medicine, Department of Surgery, Department of Human Anatomy and Cell Science and Department of Medicine at the University of Manitoba.

He has a Bachelor of Physical Education and Recreation Studies, a Master of Science in Biomechanics and a Doctor of Philosophy in Human Anatomy and Cell Science (Muscloskeletal Research), all from the University of Manitoba.

In his role as Orthopaedic Resident Research Director, Dr. Leiter fosters and supervises research initiatives and educates residents on various topics from ethics submissions to self audit and appraisal of practice.
Pan Am Program
Research Publications

DR. MACDONALD

PEER REVIEWED JOURNAL PUBLICATIONS


RESEARCH GRANTS


- Evaluation of Cardiovascular Fitness and the Association with Neuromuscular Control in Participants who have Undergone ACL Reconstruction. Alexander Gibson Chair Fund ($28,700) 2010–2011.


- A Randomized Study of Non-Operative Management versus Expedited Surgery among WCB Patients with Small Rotator Cuff Tears: Effect upon Time to Claim Closure in Two Prairie Centres; Workers Compensation Board of Manitoba ($126,500), 2010 (With Sheps, D).

DR. DUBBERLEY

RESEARCH ENDEAVOURS

- Dr. Jamie Dubberley – Outcomes of distal humerus fracture fixation: A case series (in progress).

- Dr. Jamie Dubberley – Arthroscopic versus open lateral release for the treatment of lateral epicondylitis: A prospective randomized controlled trial (recruitment ongoing).

- Repair of complete distal biceps tendon rupture through the use of a single anterior approach (study in progress).

- Dr. Jamie Dubberley – Evaluation of the use of computer-simulated surgical skills programs on the confidence and skills level of orthopaedic surgery residents (in progress).
Present Ipsilateral vs. contralateral hamstring graft harvest in ACL reconstruction., Randomized-Controlled Trial in Progress.

**Publications**

*Journal Article – Research*


*Book Chapter/Review Article – Research*


*Manuscript (in progress)*


**Presentations**

*National or International Meeting Presentation – Research*


2010 May Boileau P., Old J., Gastaud O., Brassart N., Roussanne Y., All- Arthroscopic Weaver-Dunn-Chuinard procedure with double-button fixation for chronic acromioclavicular joint dislocation., Nice, France.


2010 May MacDonald PB., McCormack RG., McRae S., Leiter J., Old J., Prospective randomized trial of ipsilateral vs. contralateral hamstring graft in ACL reconstruction., New Orleans, Louisiana, United States.

*Presentation – Teaching*

2009 Oct Old J., When a Bankart repair is not enough: novel procedures for the treatment of severe anterior shoulder instability., Winnipeg, Manitoba, Canada.
DR. STRANGES
RESEARCH ENDEAVOURS
Stranges, Greg – Sutures versus Staples for Wound Closure in Orthopaedic Surgery: A Randomized Controlled Trial.

PRESENTATION

AWARDS
Manitoba Medical Service Foundation Operating Grant Award 2010–2011.

DR. CLARK
PRESENTATIONS

PUBLICATIONS
Health Sciences Centre is home to the Winnipeg Spine Program, a multidisciplinary team of Orthopaedic Surgeons including Dr. Michael Goytan and Dr. Mike Johnson and a team of Neurosurgeons trained to treat complex disorders of the spine. Dr. Michael Goytan is the head of this program, which is a national leader in the development and utilization of minimally invasive surgical procedures.

The Winnipeg Spine Program includes a team of surgeons, nurses, physiotherapists and occupational therapists specializing in the effective treatment of the spine. They treat degenerative, developmental, inflammatory, traumatic and cancerous spinal disorders in adults and children.

The Winnipeg Spine Program was established in February 2003. It is the only program of its kind between Toronto and Calgary. With the assistance of innovative technology – MRI, CT, and specialized operating room equipment, Dr. Goytan and his team have the expertise in key areas such as anaesthesiology, physiotherapy, rheumatology, neurosurgery, nursing, and neuromonitoring.

Dr. Michael Goytan

Dr. Michael Goytan joined the Department of Surgery, Section of Orthopaedics, in 1998 as an Assistant Professor.

Dr. Goytan graduated from the University of Manitoba medical school in 1989 after completing an undergraduate degree in Science and graduate degree training in Biomechanics. He then completed a mixed surgical internship and orthopaedic residency at Health Sciences Centre and St. Boniface Hospitals. He later became certified by the Royal College of Physicians and Surgeons in Orthopaedic Surgery in 1995. In 1996, Dr. Goytan left Winnipeg to pursue further training in spine surgery. He spent the next two years completing spine fellowships in Montreal (Program Director Dr. Max Aebi) and Vancouver (Program Director Dr. Marcel Dvorak), where he gained further experience in the development of instrumentation for the cervical, thoracic and lumbar spine, and the treatment of spinal cord injury and spine tumour surgery.

Currently, Dr. Goytan is the Head of the Winnipeg Spine Program, Site Director for the Section of Orthopaedics, as well as an Assistant Professor in the sections of Orthopaedics and Neurosurgery/Winnipeg Spine Program at the University of Manitoba. He is also Program Director of the Winnipeg Spine Fellowship Program, which is devoted to post-graduate training of orthopaedic, and neurosurgery fellows in spine surgery.

His practice is devoted to pediatric and adult spinal disorders related to arthritis, tumours, trauma, and deformity. In addition to Health Sciences Centre, St. Boniface Hospital, Children’s Hospital, he has clinical appointments at CancerCare Manitoba, St. Amant, and the Rehabilitation Center for Children.
WINNIPEG SPINE PROGRAM

Health Sciences Centre is home to the Winnipeg Spine Program, a multidisciplinary team of Orthopaedic Surgeons and Neurosurgeons trained to treat complex disorders of the spine. Dr. Michael Goytan is the head of this program, which is a national leader in the development and utilization of minimally invasive surgical procedures.

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PROFESSIONAL ASSOCIATIONS & MEMBERSHIPS

Canadian Medical Association, Member
Manitoba Medical Association, Member
Royal College of Physicians and Surgeons of Canada, Member
Canadian Orthopaedic Association, Member

Dr. Michael Johnson

Dr. Michael Johnson joined the Department of Surgery, Section of Orthopaedics and Neurosurgery as an Assistant Professor in 2001.

Dr. Johnson graduated from the University of Manitoba Medical School [M.D., BSc (Med)] in 1994 after completing an undergraduate degree in Arts (English). He was certified by the Royal College of Physicians and Surgeons of Canada in Orthopaedic Surgery in 1999. Subsequently, he spent two years completing combined orthopaedic and neurosurgical adult and pediatric spine surgery fellowships in New York City (New York University Medical Center/Hospital for Joint Diseases) and Vancouver (Vancouver Combined Spine Program, Vancouver General Hospital). Clinical subspecialty areas of interest include spine trauma, spinal deformity and spinal tumors.

Dr. Johnson’s research interests extend into both clinical and biomechanical spine research. He is the Director of Spine Research at the University of Manitoba, Winnipeg Spine Research Laboratory (WSRL) located in the Rehabilitation Hospital. The WSRL is currently staffed with research assistants, medical students, physiotherapy students, orthopaedic and neurosurgical residents, and spine fellows. Ongoing projects include development of novel outcome measures such as accelerometers, global positioning systems and heart rate variability monitoring as clinical outcome tools in spine surgery and in-vivo spinal biomechanics. Completed projects have been presented at national and international spine meetings (Canadian Spine Society, North American Spine Society) and have been published in Spine and the Journal of Neurosurgery. Manuscripts have been published in Journal of American Academy of Orthopaedic Surgeons and Orthopaedic Knowledge Update Spine. Dr. Johnson’s research has received grant funding from the Alexander Gibson Foundation, Health Sciences Center Foundation and the Manitoba Medical Services Foundation.
Spine Program Research Publications

PAPER ACCEPTED FOR PUBLICATION

September 2010  “Characterization of Physical Activity in Lumbar Spinal Stenosis.”
SPINE, M. Johnson, M. Goytan, D. Kriellaars.

CURRENT RESEARCH PROJECTS

“Adolescent Idiopathic Scoliosis Patients’ Activity Levels (as measured by triaxial accelerometer), Physical Literacy and Participation, and Psychosocial Functioning.” M. Johnson, D. Kriellaars.


“Prospective Spine Treatment Outcomes Study (ProSTOS).” M. Johnson, M. Goytan, N. Berrington.


“Quality of Life, Physical Activity Monitoring, and Functional Status Evaluation of Pre- and Post-Surgical Patients Diagnosed with Lumbar Stenosis.” M. Johnson, D. Kriellaars.


“Multicenter: Prospective Spine Treatment Outcomes Study (ProSTOS).” M. Johnson, M. Goytan, N. Berrington.


PREVIOUS RESEARCH PROJECTS

“Analysis of Brace Treatment of Thoracolumbar Junction Fractures.” M. Goytan, M. Johnson.

“Physical Activity and Body Composition of Surgeons and Surgical Residents.” M. Johnson, D. Kriellaars.

“Quality of Life, Physical Activity Monitoring and Functional Status Evaluation of Pre- and Post-Surgical Patients Diagnosed with Cervical Spondylotic Myelopathy.” M. Johnson, D. Kriellaars.

“Quality of Life, Physical Activity Monitoring and Functional Status Evaluation of Pre- and Post-Surgical Patients Diagnosed with Lumbar Spinal Stenosis.” M. Johnson, D. Kriellaars.

“The Effect of Operative Management on Adolescent Idiopathic Scoliosis Patients’ Activity Levels (as Measured by Triaxial Accelerometer) and on Their Psychosocial Functioning.” M. Johnson, D. Kriellaars.

“Physical Activity, Psychologic Characterization and Body Composition of Surgeons in Comparison to Other Allied Health Professionals and Nonsurgical Professionally Employed Controls.” M. Johnson, D. Kriellaars.

“The Effect of Orthotic Management on Adolescent Idiopathic Scoliosis Patients’ Activity Levels (as Measured by Triaxial Accelerometer) and on Their Psychosocial Functioning.” M. Johnson, D. Kriellaars.

“An Evaluation of the Feasibility of an Exercise Program on Pre-Surgical Patients with Herniated Lumbar Disc.” M. Johnson, D. Kriellaars.
GRANTS RECEIVED

November 2010  Canadian Paraplegic Association Grant, “Physical Activity, Shoulder Injury, and Wheelchair calibration studies” M. Johnson, D. Kriellaars.


December 2009  Department of Surgery, University of Manitoba, “Effect of Lifestyle Intervention Program on Disability, Quality of Life and Physical Activity in Patients with Lumbar Spinal Stenosis after Surgery” M. Johnson, M. Goytan, N. Berrington, D. Kriellaars.

Support Staff

DEAN KRIELLAARS, PHD, RESEARCH DIRECTOR
KIM BERTONE, CLINICAL RESEARCH COORDINATOR
ROB PRYCE, MSC.CAT(C), PHD, RICK HANSENS REGISTRY
TANYA KOZERA, PT
GREG HODGES, PT
RUDY NEIBUHR, PT
RAMON ANGELES, CA, CLINICAL
NASSESH GASSEMI, CA, CLINICAL
TANIS BOKOZIS, LPN, SUPPORT STAFF
SHERIE BURTON, SURGICAL OFFICE ASSISTANT
DANA MCMILLAN, SURGICAL OFFICE ASSISTANT
RAIN CLAYWATER, SURGICAL OFFICE ASSISTANT
Dr. Brad Pilkey

Dr. Brad Pilkey works at the Health Sciences Centre in Winnipeg. He specializes primarily in Adult Trauma and Foot and Ankle Surgery. His undergraduate degree in Medicine and postgraduate training is from the University of Saskatchewan in Regina.

Dr. Pilkey completed a two-year fellowship training at the University of Toronto. His subspecialty training includes trauma, foot and ankle surgery, and lower extremity reconstruction. Dr. Pilkey’s research interests are centered on clinical outcomes in trauma and foot/ankle surgery. A list of his published work can be found at the back of this publication. He is a fellow of the Royal College of Physicians and Surgeons and currently serves as the Director of Orthopaedic Trauma at Health Sciences Centre. Dr. Pilkey also has representative positions on the Winnipeg Orthopaedic Surgical Executive, the HSC Quality Standards Committee, and the Postgraduate Education Committee. He has won the postgraduate teaching award and is a member of the Canadian Orthopaedic Association and the American Academy of Orthopaedic Surgeons.

Dr. Ted Tufescu

Dr. Tufescu has an undergraduate Pharmacology Degree from the University of Toronto, and a Medical Degree from Queen’s University.

He completed his Orthopaedic training at the University of Saskatchewan and obtained subspecialty fellowship training in Orthopaedic Trauma at Sunnybrook Health Sciences Centre in Toronto, where he also began his practice.

Dr. Tufescu currently practices at the Health Sciences Centre in Winnipeg, where he focuses on complex Orthopaedic trauma and post-traumatic problems. Dr. Tufescu is Assistant Professor at the University of Manitoba and heads research for the Orthopaedic trauma group. Dr. Tufescu’s research interests and publications have focused on improving and raising awareness for femur fracture care, hip fracture care, and documenting injury patterns and volumes in the province of Manitoba.

Teaching responsibilities include undergraduate and postgraduate students at the University of Manitoba. Dr. Tufescu has been invited faculty at numerous fracture care courses for nursing staff, residents and surgeons, and he chairs a fracture care course in Winnipeg.
Dr. Chris Graham

Dr. Graham has an Orthopaedic surgical practice at the Health Sciences Centre, is a member of the Health Sciences Orthopaedic Trauma team and specializes in fracture fixation. After completing undergraduate studies at the University of Saskatchewan with a Bachelor of Science, he returned to the University of Saskatchewan for more general studies and was accepted to the College of Medicine in September 1995, graduating in 1999.

Dr. Graham completed his Orthopaedic Surgery Residency at the University of Saskatchewan in 2004. Dr. Graham joined UMG in the Department of Orthopaedic Surgery as a Trauma Surgeon in 2004, and has also taught Trauma Surgery through the University Of Manitoba Medical School since. Dr. Graham’s Current research is focused on the use of radiostereometric analysis (RSA) to measure acetabular fracture fragment migration in vitro. He is a member of the Royal College of Physicians and Surgeons of Canada, the Canadian Orthopaedic Association, the Canadian Medical Association and sits on the Postgraduate Education Committee of the University of Manitoba Residency Training program, a position which he has held since 2005.

Dr. Allan Hammond

Dr. Allan Hammond completed both his degree in undergraduate medicine and his Orthopaedic Residency in 2008 at the University of Manitoba. It was here that he became a recipient of the Joe Doupe Memorial Scholarship through the University of Manitoba.

Dr. Hammond enjoyed work experience as a locum physician in British Columbia at the Penticton and Cowichan Hospitals, and in Alberta at the Chinook Hospital for the summer of 2008. In 2009, Dr. Hammond, completed a Fellowship in Foot and Ankle Surgery at the University of Iowa, with a focus on multi-ligament knee injuries. Following this, in 2010, he completed a Fellowship in Orthopaedic Trauma at the University if Missouri with a focus on arthroscopy and ankle arthritis.
Orthopaedic Trauma Research Publications

BOOKS AND CHAPTERS
Graham CP. The Ankle Fracture. In: Emil Schemitch editor. Evidence-Based Orthopaedics. Accepted for publication.
Pilkey B. The Perilunate Dislocation. In: Emil Schemitch editor. Evidence-Based Orthopaedics. Accepted for publication.

ABSTRACTS

INVITED PRESENTATIONS
Tufescu TV. Grand Rounds for the Department of Surgery at the University of Manitoba: The Mangled Extremity, December 2010.

Support Staff
RAMON ANGELES, CLINICAL ASSISTANT
NASSER GHASSEMI, CLINICAL ASSISTANT
RESEARCH: NIGAR SULTANA, PHD, RESEARCH ASSISTANT
CARMINA BELLISARIO, SURGICAL OFFICE ASSISTANT
KELLY DOYLE, SURGICAL OFFICE ASSISTANT
LOIS FRASER, SURGICAL OFFICE ASSISTANT
FRANCES MAGILL, SURGICAL OFFICE ASSISTANT
MELANIE REMPEL, SURGICAL OFFICE ASSISTANT
JULIE PERRAUlT, SURGICAL OFFICE ASSISTANT
Dr. Paul Jellicoe

Dr. Jellicoe works at the Children’s Hospital in Winnipeg, specializing in Pediatric Orthopaedics, with an interest in disorders of the feet.

He obtained his undergraduate medical degree at St. Andrews University, Scotland, and his MBChB degree from Manchester University. He completed his residency in orthopaedics in Newcastle, and while there obtained a postgraduate degree in Medical Law from the University of Newcastle.

During his fellowship training at the Hospital for Sick Children, Dr. Jellicoe was part of a team of medical personnel who, through the University of Toronto, travelled to rural Brazil with the aim of improving access to health care for underprivileged children.

Since taking up his current position in July 2008 he has taken on the role of Section Head for Pediatric Orthopaedics, and sits on the Pediatric Surgical Council and Postgraduate Medical Education Committee. His areas of interest for research include shoulder reconstruction following brachial plexus nerve injuries, as well as prevention of pediatric trauma.

Dr. Jack McPherson, Residency Program Director

Dr. McPherson is a Pediatric Orthopaedic Surgeon at the Children’s Hospital, Health Sciences Centre, Winnipeg.

He is a graduate of the University of Manitoba Medical School and completed his orthopaedic residency at the University of Manitoba, followed by his pediatric orthopaedic subspecialty fellowship training at the Hospital for Sick Children in Toronto.

His clinical practice includes general pediatric orthopaedics and trauma with a special interest in children with chronic disabilities. He is the orthopaedic consultant for the Assistive Technology Program and the Juvenile Spina Bifida Clinic at the Rehab Centre for Children and the consulting orthopedist for St. Amant Centre. He has a longstanding participation in medical education including past service as Department of Surgery Clerkship Coordinator, Orthopaedic Undergrad Coordinator, Core Surgery Program Director, and Med II Musculoskeletal Course Director. He is currently the Orthopaedic Residency Program Director. After serving as Service Chief for Pediatric Orthopaedics for many years, he is the current Director of Pediatric Surgery for Children’s Hospital and is very actively involved in pediatric surgery quality improvement.
The Orthopaedic Surgery Residency Training Program at the U of M has steadily grown over the years to now include 22 Faculty, 18 Residents and up to 5 Fellows. The Program also participates in the education of undergraduate medical students, Physician Assistants and Nurse Practitioners. Training occurs at the Health Sciences Centre Adult and Children’s Hospitals, the Pan Am Clinic, the Concordia Hospital and the Concordia Hip and Knee Institute.

A reflection on the past year reveals several exciting changes for the Program. All three of this past year’s graduating residents successfully passed the Royal College Examinations and are now undertaking subspecialty Fellowship training. Congratulations and all the best to Dr. Chris Lu (Arthroplasty Fellowship, Toronto), Dr. Heather Barske (Foot and Ankle Fellowship, Rochester, New York) and Dr. Sacha Rehsia (Arthroplasty Fellowship, Toronto).

The Section is pleased to welcome three new residents to our training program via the 2010 CaRMS match; Dr. John (Joe) Amirault, Dalhousie University, Dr. Christopher Kim, University of Manitoba, and Dr. Meaghan Rollins, Royal College of Surgeons in Ireland. We welcome all of the new residents and look forward to their unique contributions in the next five years.

The Resident Program was also strengthened by the addition of several new personnel. Dr. Allan Hammond (Trauma Orthopaedics and Foot and Ankle) and Dr. Tod Clark (Orthopaedic Hand Surgery), are graduates of our own residency program and return to add to our Program following completion of subspecialty training. Dr. Virginie Pollet is a new recruit to Pediatric Orthopaedics from Belgium and brings a more European approach to orthopaedic surgery in our Section. All of these surgeons have already augmented our teaching program and we look forward to their future contributions.

The educational training in our Program continues to be augmented with the addition of expanded clinical exposure (addition of Hand/Foot and Ankle specialists) and improvements to our formal academic teaching sessions. Our Wednesday resident academic/research day has been expanded from five teaching blocks (Trauma, Spine, Peds, Arthroplasty, Sports) to six with the addition of a Basic Science/Can Meds Block. Continued efforts are ongoing to improve the quality of teaching as well as inclusion of new learning opportunities such as procedural skills training and use of simulators. Ongoing improvement in evaluation includes both internal and external assessment tools and OSCE evaluations in keeping with changes to The Royal College exam process.

Resident research continues to flourish under the excellent direction of Dr. Jeff Leiter. This culminated with another outstanding Resident Research Day on September 29, 2010. Visiting guest speaker, Dr. Doug Hedden from Edmonton, adjudicated the resident competition and presented very stimulating presentations on congenital scoliosis and the Future of Orthopaedic Training. Resident research awards for 2010 were 1st place Dr. Jesse Shantz for "The Validation of a Novel Expertise-Based Global Assessment of Arthroscopic Skills in a Cadaveric Knee Model" and 2nd place, Dr. Mohammad Zarribian, "Sleep Quality and Disability in a Population of Spine Surgery Patients." Also presented at the Resident Research Day was the resident selected award for Educator of the year. This year’s award winner was Dr. Jamie Dubberley with honorable mention to Dr. Laurie Barron.

This year the Orthopaedic Residency Training Program re-instituted the Orthopaedic Junior Resident Award (HPH Galloway Scholarship) and Senior Resident Award (Elmer James Award). These prizes are selected by residents and attending staff and are awarded for well rounded resident performance, both academic and administration. This year’s awards were presented at the Welcome BBQ to Dr. Jon Marsh (Junior) and Dr. James Vernon (Senior).

Overall the Orthopaedic Residency Training Program has grown and excelled in the past year. Thanks to all of the residents and attending staff for their continued dedication and contribution to this important educational process and a special thanks to the Sectional leadership from Dr. Peter MacDonald and the excellent administration of the Program by Mrs. Donna Shepard.
Dr. Susan Thompson

Dr. Susan Thompson (nee Nasser-Sharif) is an attending Pediatric Orthopaedic surgeon at the Children’s Hospital and the Rehabilitation Centre for Children in Winnipeg.

She received her Bachelors of Science degree from the University of Manitoba and then went on to McGill University where she did her undergraduate degree in medicine. She completed her orthopaedic residency at McGill University and received her FRCSC in 1999.

From Montreal, Dr. Thompson went to the Alfred I duPont Hospital for children in Wilmington, Delaware, a division of Jefferson University, where she finished a fellowship in Pediatric Orthopaedic surgery. She then moved to Philadelphia and completed a fellowship in Hand Surgery at the Philadelphia Hand Centre, also a division of Jefferson University. Dr. Thompson then moved to Paris, France where she studied at l’Institut de la Main and had the opportunity to learn from Dr. Alain Gilbert who specializes in obstetrical brachial plexus injuries and congenital hand deformities. She returned to Delaware in 2002 and initiated and developed a pediatric hand program at the Alfred I duPont Hospital for children. After being an attending Pediatric Orthopaedic surgeon at Alfred I duPont for three years she then moved to Winnipeg to be with her husband and family.

Dr. Thompson’s interests include congenital pediatric hand anomalies, obstetrical brachial plexus injuries and pediatric hand trauma. She is currently a member of the Pediatric Orthopaedic Society of North America, the American Association of Orthopaedic Surgeons, the Canadian Orthopaedic Association, the Ruth Jackson Society, and the Manitoba Orthopaedic Society. Dr. Thompson is Board Certified in Orthopaedic Surgery in the United States and is a fellow of the Royal College of Surgeons of Canada. She is presently working on her Masters degree in Public Health at the University of Manitoba on a part time basis.

Dr. Brian Black

Dr. Black is a Pediatric Orthopaedic Surgeon who works at different clinic sites including Children’s Hospital, Pan Am, St. Boniface Hospital and Rehab Centre for Children.

Originally from Nova Scotia, he has a BSc degree from Mount Allison University, his medical degree from Dalhousie University in Halifax and completed his orthopaedic training at Queen’s University in Kingston. He completed a two year Fellowship in Pediatric Orthopaedics at The Hospital for Sick Children in Toronto.

His areas of research interest include pediatric trauma and he has written numerous papers on pediatric orthopaedic injuries associated with ATVs, snowmobiles, playgrounds, trampolines and motocross use. He is a past faculty member for the Orthopaedic Basic Science Course and Ste. Justine Pediatric Review Course as well as an examiner with the Royal College. He continues to enjoy clinical research and teaching. More recently he has rekindled his longtime interest in veterinary medicine.
Dr. Virginie Pollet

Dr. Pollet joined the Pediatric Orthopaedic Section of Surgery at the Children’s Hospital in October 2010.

In 1997, she completed her medical training in Brussels, Belgium and began her Orthopaedic Residency at the Free University of Brussels. During her residency, she developed a special interest in Sports Medicine and Pediatrics. As a resident in 2004, she received the Belgian Arthroscopy Society (ABA) Travel Fellowship Award to present as a visiting fellow at the ESSKA conference in Greece. After residency, Dr. Pollet moved to the Netherlands and worked as a general Orthopaedic surgeon for four years. In 2007, she was accepted for a fellowship program at the Texas Scottish Rite Hospital in Dallas, Texas and her experience there further focused her career interests in Pediatric Orthopaedic Surgery.

Dr. Pollet went on to complete a year long clinical fellowship at the Wilhelmina Children’s Hospital in Utrecht, Netherlands and another two years of clinical fellowship at the Robert Debre Children’s Hospital in Paris, France. She has been a participant of the European Pediatric Orthopaedic Society (EPOS) Marie Curie Course, a combined orthopaedic lecture and workshop course organized by the leading European and North American Orthopaedic Surgeons in four countries and runs concurrently for two years. In 2009, Dr. Pollet presented as a visiting fellow/member of EPOS in the United States and is also a member of the Dutch Orthopaedic Society (NOV) and the Belgian Orthopaedic Society (BVOT). Her research is focused on Developmental Dysplasia of the Hip (DDH), in which she is currently completing her doctoral research at the University of Utrecht.
Pediatric Orthopaedic Research Publications

DR. JELLIICOE

PUBLICATIONS

Jonathan P. Marsh, Paul Jellicoe, Ronald C. Monson, Brian Black, Tod A. Clark
Noise Levels in Adult and Pediatric Orthopaedic Cast Clinics.
Paul Jellicoe, FRCS; Jochen Son-Hing, M.D., FRCS(C); Sevan Hopyan, M.D., FRCS(C); George H. Thompson, M.D.:
Surgical hip dislocation for removal of intra articular exostoses. Report of 2 cases. JPO.

PRESENTATIONS


Dr. Jellicoe’s work presented by others:
Canadian Orthopaedic Association, Edmonton 2010.
Dr. M. Zarabian: Epidemiology of dirt bike injuries

Dr. J. Janicki: Is routine bone aspiration necessary in the initial management of acute Osteomyelitis
Podium presentation.

Dr. S. Hopyan,
Glenoid neck osteotomy for Brachial plexus shoulder deformity. Podium presentation.

Salter Day: 29 May 2009:
Dr. M. Shah/S Hopyan,
Glenoid neck osteotomy for Brachial plexus shoulder deformity.

DR. POLLET


ONGOING RESEARCH

Pollet V. “The effect of abduction treatment in stable developmental dysplasia of the hip (DDH) in infants between 3 and 6 months of age” MultiCentre Randomised Trial.

Pollet V. “Reproducibility of hip ultrasound for developmental dysplasia of the hip (DDH) in newborns: acetabular depth” Prospective study.

Support Staff

LYNNE FERRIS, ADMINISTRATIVE ASSISTANT
VICTORIA BROWN, SURGICAL OFFICE ASSISTANT
TONYA DERKSON, SURGICAL OFFICE ASSISTANT
JOCELYN MALAPIT, SURGICAL OFFICE ASSISTANT
KIM BARRATT, SURGICAL OFFICE ASSISTANT
Diabetic Foot is a multi-disciplinary sub-specialty in Medicine that is now gaining increased demand in North America. The Diabetic Foot Service provides patient care to patients with a range of conditions from complex diabetic mellitus conditions to ulcers and Charcot Foot complications.

This multi-disciplinary focus in the Diabetic Foot Service Program combines the disciplines of Infectious Disease, vascular Surgery and Plastic Surgery to provide the best possible care for patients with diabetes mellitus.

In 2010, we performed 780 procedures, including minor and major debridements (infected ulcers, osteomyelitis), toe amputation, ingrown nail surgeries, and other complications of the loss of sensation such as Charcot Foot. The Diabetic Foot Service is available to patients in the main OR, the outpatient OR, in clinics, in cast clinics and for those patients that are bedridden with other complications. This allows for the maximum flexibility of care and the rapid saving of limbs to patients with diabetes across a wide range of disciplines that can admit patients.

In 2010, the average number of Total Contact Casts was 450 cases, similar to the numbers in 2009. The continuing need for TCC shows the continuing gold standard indicator that this procedure has now become in the treatment of complications related to Diabetic Foot such as Ulcers and Charcot Foot.

The Diabetic Foot team attended several international conferences in 2010, including “The Diabetic Global Conference 2010” in Los Angeles, California and “The Diabetic Limb Salvage Conference 2010” in Washington, D.C.

The Diabetic Foot Team is currently continuing its collaborative research efforts across all the multidisciplinary specialties to continue to investigate the connection between Diabetic foot complications and depression, how to target decreased dialysis complications, and how to target diabetic nerve damage in feet at an earlier stage of disease. Dr. Dascall is beginning to research the connection between Vitamin D deficiency as a contributing factor to Charcot Foot. This research is not expected to be complete until 2012.

The Diabetic Foot Service continues to maintain the goal of educating diabetes patients at an earlier stage of the disease and its complications. If Charcot foot can be detected at an earlier stage of diabetes, some of the most devastating effects of nerve damage and severe deformities of the foot may be avoided.
Dr. Mario Dascal

Dr. Dascal received his undergraduate medical degree at the University of Buenos Aires in 1993 and completed his Orthopaedic Residency in 1990 there. He completed a Fellowship in Arthroscopy subsequently, and continued his education to specialize in Forensic Medicine and Occupational Medicine.

Before beginning to practice as a Diabetic Foot Surgeon here at the University of Manitoba as an Assistant Professor in 2004, Dr. Dascal’s practiced as a surgeon in Buenos Aires, Argentina. His practice in Argentina focused on General Orthopaedics, Arthroscopy and Diabetic Foot. Dr. Dascal’s research interests are in the area of Vitamin D deficiency as a contributing factor in Charcot foot disease. He is hoping to complete a major study in this area in 2012.

Diabetic Foot Program Publications

PUBLICATIONS

WORKS IN PROGRESS

PRESENTATIONS
Dascal M., The Manitoba Society of Orthopaedic Technologists, “Diabetic Foot, a Team Effort.”
Dascal M., 25th Annual Conference of The Ontario Society of Chiropodists, “Diabetic Foot, a Team Effort.”
Dr. David Hedden

Dr. Hedden is the current Site Medical Director of Surgery at Concordia Hospital. Dr. Hedden specializes in Orthopaedic Surgery with a focused area of practice in hip and knee reconstructive surgery. Dr. Hedden completed his Bachelor of Medicine and Surgery at the University of Cape Town, South Africa.

After coming to Canada, Dr. Hedden set up a General Practice and Anesthesia practice in Virden Manitoba. Dr. Hedden completed his postgraduate training in Orthopaedic Surgery at the University of Manitoba in 1997. Dr. Hedden spent a year in Toronto, ON at St. Michael’s Hospital completing a Fellowship in Lower Extremity Arthroplasty. Dr. Hedden joined University Medical Group in the Department of Surgery, Faculty of Medicine at the University of Manitoba in 1998 as an Assistant Professor in the Section of Orthopaedics. His current areas of research interest are clinical research related to hip and knee reconstructive surgery. He is a member of the Royal College of Physicians and Surgeons of Canada as well as an examiner for the Royal College for the past four years, the Canadian Medical Association, American Academy of Orthopaedic Surgeons, Canadian Orthopaedic Association, Manitoba Medical Association, the Canadian Medical Protective Association, Manitoba Orthopaedic Society, The College of Physicians and Surgeons of Manitoba, General Medical Council (UK), South African Medical and Dental Council, and an Assistant Professor for the University of Manitoba.

Dr. Eric Bohm

Dr. Bohm works at the Concordia Hip and Knee Institute in Winnipeg, Canada where he specializes in primary and revision hip and knee replacement surgery.

He has undergraduate degrees in both Mechanical Engineering and Medicine from McMaster University, and a graduate degree in Community Health and Epidemiology from Dalhousie University. He completed his orthopaedic residency at the University of Saskatchewan, and undertook an arthroplasty fellowship at Dalhousie University in Halifax.

His areas of research interest include access to healthcare, healthcare quality indicators, clinical trials, implant retrieval analysis, and radiographic stereometric analysis. He currently chairs the Winnipeg Regional Health Authority Orthopaedic committee, and the advisory committee of the Canadian Joint Replacement Registry (co-chair). He serves as medical advisor to the Winnipeg Regional Health Authority’s orthopaedic wait list project and their joint replacement registry. In 2009, he completed the prestigious ABC fellowship, sponsored by the American, Canadian, British and South African Orthopaedic Societies.
Dr. Colin Burnell

Dr. Burnell is the current Site Supervisor in Postgraduate Surgery Education for the Department of Surgery at Concordia Hospital. Dr. Burnell specializes in Orthopaedic Surgery with a focused area of practice in complex primary and revision hip and knee arthroplasty.

Dr. Burnell completed his medical degree along with postgraduate training in Orthopaedic Surgery at the University of Manitoba. He also completed a Fellowship in Primary and Revision Hip and Knee Arthroplasty.

Dr. Burnell joined University Medical Group in the Department of Surgery, Faculty of Medicine at the University of Manitoba in 2003 as an Assistant Professor in the Section of Orthopaedics. His current areas of research interest are retrieval analysis and clinical trials. He is a member of the Royal College of Physicians and Surgeons of Canada, Winnipeg Orthopaedic Surgery Executive, Manitoba Medical Association, Canadian Medical Association, College of Physicians and Surgeons of Manitoba, Manitoba Orthopaedic Society and The Canadian Medical Protective Association.

Dr. Thomas Turgeon

Dr. Turgeon specializes in Orthopaedic Surgery with a focused area of practice in complex primary and revision hip and knee arthroplasty. Dr. Turgeon completed his medical degree at the University of Western Ontario and his residency at the University of Saskatchewan.

He completed a two-year fellowship in hip and knee primary and revision arthroplasty and osteotomies with the Orthopaedic Medical Group affiliated with University of California San Diego. He also completed his Master’s degree in Public Health Epidemiology at San Diego State University, concurrently.

Dr. Turgeon joined University Medical Group in the Department of Surgery, Faculty of Medicine at the University of Manitoba in 2005 as an Assistant Professor in the Section of Orthopaedics. His current areas of research interest are retrieval analysis and clinical trials. He is a member of the Royal College of Physicians and Surgeons of Canada, Manitoba Medical Association, Canadian Medical Association, College of Physicians and Surgeons of Manitoba, Manitoba Orthopaedic Society, The Canadian Medical Protective Association, American Association of Hip and Knee Surgeons and the America Association of Orthopaedic Surgeons. Currently chair for Concordia Foundation and the Concordia Infection Control Committee.
Hip and Knee Research Publications

AWARD TO THE CJRG
Award of Merit, Canadian Orthopaedic Association, Canada, 2010, Concordia Joint Replacement Group.

DR. HEDDEN

SUBMITTED FOR PUBLICATION
Hedden D., Early Clinical Results of a High-Flexion, Posterior-Stabilized, Mobile Bearing Total Knee: A United States Investigational Device Exemption Trial.

DR. ERIC BOHM

PUBLISHED REFEREED PAPERS

PRESENTATION AS GUEST SPEAKER
Update on Arthroplasty Surgery, Information Session with Orthopaedic Physiotherapists, Health Sciences Centre, Winnipeg, Manitoba, October 25, 2010.
Surgery for Arthritis, Clerkship Seminar Series Presentation, Health Sciences Centre, Winnipeg, Manitoba, October 8, 2010.
Panel Member, Hip: Case-based Primary and Revision Total Joint Arthroplasty, Canadian Orthopaedic Association Annual Meeting, Edmonton, Alberta, June 20, 2010.

Orthopaedic Research at the Concordia Hip & Knee Institute: Overview of programs and potential linkages with CHS, Community Health Sciences Colloquium & Grand Rounds, Winnipeg, Manitoba, May 21, 2010.


What Have We Learned from our Arthroplasty Registry?, 1st International Arthroplasty Course, Guayaquil, Ecuador, April 17, 2010.


Primary Total Hip Arthroplasty, 1st International Arthroplasty Course, Guayaquil, Ecuador, April 16, 2010.

Total Hip Arthroplasty for Fractures, 1st International Arthroplasty Course, Guayaquil, Ecuador, April 15, 2010.

How To Do the Prosthesis of a Primary Hip, 1st International Arthroplasty Course, Guayaquil, Ecuador, April 15, 2010.


Bridging General and Specialist Care Pathway Presentation, Winnipeg, Manitoba, January 22, 2010.

**SCIENTIFIC POSTER PRESENTATIONS**

Petarak M., Slobodian I., Turgeon T., Bohm E. Patient Satisfaction When Completing Self-Administered Questionnaires on a Touch Screen Data Entry System in an Orthopaedic Clinic. International Society for Technology in Arthroplasty, Intercontinental Dubai Festival City Hotel, Dubai, October 6–9, 2010.

SCIENTIFIC PODIUM PRESENTATIONS


Turgeon T., Bohm E., Petrak M., Sinaisky M. Functional Outcome of Revision Total Knee Replacement – is it as Poor as We Think it is?, Canadian Orthopaedic Association Annual Meeting, Edmonton, June 20, 2010.


GRAND ROUNDS PRESENTATIONS

Bohm E., Research at the HKI – Studies and Results, Orthopaedic Grand Rounds, Health Sciences Centre, Winnipeg, Manitoba, November 3, 2010.

Bohm E., Orthopaedic Research at the Concordia Hip & Knee Institute: Overview of programs and potential linkages with CHS, Community Health Sciences Colloquium & Grand Rounds, Winnipeg, Manitoba, May 21, 2010.


RESEARCH REPORTS


DR. TURGEON

GRANTS
03/2010 – 03/2012  Stability Analysis of a LEGION™ Total Primary Uncemented Knee
    Smith & Nephew Richards Inc. (Memphis, TN)
    Principal Investigator: Thomas Turgeon
01/2010 – 01/2012  Development of Patient-Centered Joint Replacement Educational Video
    Development of in vivo knee
    Pfizer Canada Inc.
    Principal Investigator: Petrak, Martin
    Co-Applicant: Thomas Turgeon

CASE REPORTS
Marsh JP., Turgeon TR. and Guzman R. Acute Limb Ischemia Following Closed Reduction of a Hip Arthroplasty
    Dislocation. Orthop. 33(10);768, 2010.
Burnell CD., Turgeon TR., Hedden DR., Bohm ER. Paraneoplastic Clostridium septicum Infection of a Total Knee

INVITED PRESENTATIONS
Petrak M., Bohm E., Turgeon TR., Van der Put R., Burger A. Precision Phantom Study of a CR and DR Imaging
    System for Radiostereometric Analysis (RSA) using a Novel Spine Pedicle Screw. Presented at the International
Petrak M., Slobodian I., Turgeon TR., Bohm E. Patient Satisfaction When Completing Self-Administered
    Questionnaires on a Touch Screen Data Entry System in an Orthopaedic Clinic. International Society for Technology
Turgeon TR., Bohm E., Petrak M., Sinaisky M. Functional Outcome of Revision Total Knee Replacement – Is
    it as Poor as We Think it is? Presented at Canadian Orthopaedic Association Annual Meeting, Edmonton, AB:
    June 20, 2010.
Turgeon TR. Cementless Fixation in TKA, Trends and Updates in Total Knee Arthroplasty Symposium. Presented at
Turgeon TR., Bohm E., Kesler N., Petrak M., Burnell C., Hedden D. Femoral Head Penetration in X3 Cross-linked
    Acetabular Liners: A Three Year Study. Presented at Canadian Orthopaedic Association Annual Meeting, Edmonton,
    AB: June 18, 2010.
Turgeon TR., Bohm E., Kesler N., Petrak M., Burnell C., Hedden D. The Effect of Tobramycin on Femoral Stem
    Migration: A Three-Year RSA Study. Presented at Canadian Orthopaedic Association Annual Meeting, Edmonton,
    AB: June 18, 2010.

AWARDS
Award of Merit, Canadian Orthopaedic Association, Canada, Effective: 06/2010, New Care Models to Reduce
    Surgical Wait Times.

DR. BURNELL RESEARCH

AWARDS
Award of Merit, Canadian Orthopaedic Association, Canada, 2010, Concordia Joint Replacement Group.
SCIENTIFIC PRESENTATIONS


SUBMITTED FOR PUBLICATION (IN PROGRESS)

RESEARCH GRANTS
Dr. Tosin Akinbiyi

Dr. Tosin Akinbiyi, MD, University of Saskatchewan, Orthopaedic Residency, Fellow, Winnipeg Spine Program, University of Manitoba Medical Faculty

Current Research and Presentations:
Bone Mineral Resorption in SCI Patients – Resident Research Day 2010

Awards:
NSERC Research Scholarship – Characterization of Human Thioredoxin

Dr. Aaron Tay

Dr. Aaron Tay, MD, MBBS, FRACS Ortho (2009) Graduated as a Medical Doctor from the University of Western Australia, completed Orthopaedic Fellowship from 2002–2008 through the Royal Australian College of Surgeons (Orthopaedics), and a subsequent Orthopaedic Fellowship at Pan Am Sports Medicine in Winnipeg through the University of Manitoba Medical Faculty.

Recipient of the Orthopaedic Registrar of the Year in 2008 through the Sir Charles Gairdner Hospital WA.

Dr. Adam Durrant

Dr. Adam Durrant, MB.ChB, FRACS-Graduated as a Medical Doctor in 1998, has worked extensively in the management of severe trauma throughout Australia and the United Kingdom until 2008, when he completed his Fellowship as an Orthopaedic Trauma Surgeon and became a member of the Royal Australasian College of Surgeons. He completed post Fellowship training in 2010 in Upper Limb surgery and trauma at the Pan Am site for Sports Medicine in Winnipeg.

Sports Medicine: Dr. Moustfaa AlShrif, Dr. Alexander Van Tongel
Arthroplasty: Dr. Arfin Malhi
Dr. J. McPherson’s Message

Orthopaedic Surgery Resident Research Day, which was held on Wednesday, September 29, 2010 was a resounding success! Thank you to all of the organizers, Donna Shepard, Lorraine Gravel, Dr. Peter MacDonald, Dr. Jeff Leiter.

A special thank you to the contributing sponsors for this event, Mr. Judd Ekdahl and Dupuis.

Congratulations to all the residents for work well done and excellent presentations.

Award congratulations to the winners of this year’s Resident Research Day:

1st Place:  
Dr. Jesse Shantz “The Validation of a Novel Expertise-Based Global Assessment of Arthroscopic Skills in a Cadaveric Knee Model”

2nd Place:  
Dr. Mohammad Zarrabian “Sleep Quality and Disability In A Population of Spine Surgery Patients”

Honourable Mention:  
Dr. Jon Marsh “Noise Levels in Adult and Pediatric Orthopaedic Cast Clinic”

The Educator of the Year Award as selected by the residents was also presented as part of Resident Research Day. Congratulations to this year’s recipients:

Educator of the Year:  
DR. JAMIE DUBBERLEY

Honorable Mention:  
DR. LAURIE BARRON
RESIDENT RESEARCH DAY

The Section of Orthopaedic Surgery hosted the second annual Resident Academic Day at Pan Am Clinic on September 29, 2010. Dr. Douglas Hedden, the Walter Stirling Anderson Chair and Professor of Surgery for the Faculty of Medicine and Dentistry at the University of Alberta, was the Visiting Faculty and judged the presentations with Drs. MacDonald and Leiter. A total of 17 residents and one fellow presented their research.

Douglas Hedden is currently the Walter Stirling Anderson Chair and Professor of Surgery for the Faculty of Medicine and Dentistry at the University of Alberta. Prior to this achievement, Dr. Hedden served as Divisional Director, Division of Pediatric Surgery at the University of Alberta.

PUBLICATIONS

The orthopaedic residents published two research articles, two case reports and one textbook chapter in 2009–2010.

RESEARCH GRANTS

Five research grants were awarded to residents in 2010. The granting agencies included the Manitoba Medical Services Foundation, Orthopaedic Trauma Association, the Alexander Gibson Fund, Manitoba Institute of Patient Safety (Dr. John Wade Award) and Orthopaedic Research and Education Foundation (Appendix IV).

PUBLICATIONS 2010


Mascarenhas, Randy Operative Treatment of Fractures of the Patella.


Residents

Dr. Jesse Shantz

Dr. Jesse Shantz is a sixth-year Resident at the University of Manitoba who completed his undergraduate degree in medicine at the University of Western Ontario in London, Ontario. In 2011, Jesse will enter his Orthopaedic Fellowship training at the University of California.


Podium Presentation. COA Edmonton, June 2010.

Shantz, Jesse – A systematic review of the utility of arthroscopic simulator training in orthopaedic education, 2nd Annual Faculty of Medicine Resident and Fellow Research Day, 2010.

Dr. David Aimes

Dr. Aimes is a graduate of the University of Manitoba in Medicine. He is a second-year Orthopaedic Surgery Resident at the University of Manitoba.


Dr. Joe Amirault

Dr. Amirault is a graduate of Dalhouse University in Halifax, Nova Scotia in undergraduate medicine. He is a first-year Orthopaedic Surgery Resident at the University of Manitoba.

Dr. Mohammad Elkurbo

Dr. Elkurbo is a graduate of the Faculty of Medicine at Al Fateh University of Medical Sciences in Tripoli, Libya. He is a fifth-year resident in Orthopaedic Surgery at the University of Manitoba.

Elkurbo, Mohammed – Determining ACL Hamstring Graft Diameter from Anthropometric and MRI Measurements, Orthopaedic Resident Academic Day 2010.

Dr. Abdulhamid Elyousfi

Dr. Elyousfi is a graduate of the Faculty of Medicine at Al Fateh University of Medical Sciences in Tripoli, Libya. He has also graduated with a MSc. in Surgical Sciences at Imperial College, London, UK. He is a fifth-year resident in Orthopaedic Surgery at the University of Manitoba.


Dr. Danny Gillis

Dr. Gillis is a graduate of the University of Manitoba Faculty of Medicine. He is a second-year resident in Orthopaedic Surgery at the University of Manitoba.


Dr. Bahram Groohi

Dr. Groohi is a graduate of the Iran University of Medical Sciences for undergraduate medicine. He is a third-year resident in Orthopaedic Surgery at the University of Manitoba.

Groohi, Bahram – Seasonal Variations in Orthopaedic Injuries Treated at a Major Trauma Centre, Orthopaedic Resident Academic Day 2010.

Dr. Christopher Kim

Dr. Kim is a graduate of the University of Manitoba Faculty of Medicine. He is a first-year resident in Orthopaedic Surgery at the University of Manitoba.

Kim, Chris – A Prospective Clinical Study Comparing Anteromedial Portal Techniques Versus Transtibial Technique for Femoral Tunnel Positioning in Hamstring Anterior Cruciate Ligament Reconstruction, Orthopaedic Resident Academic Day 2010.
Dr. Earl Kowalczyk

Dr. Kowalczyk is a graduate of the University of Saskatchewan Faculty of Medicine. He is a fifth-year resident in Orthopaedic Surgery at the University of Manitoba.

Kowalczyk, Earl – Patient Satisfaction When Completing Hip and Knee Replacement Follow-up Questionnaires On a Touch-Screen Kiosk In an Orthopaedic Clinic, Orthopaedic Resident Academic Day 2010.

Dr. Jonathan Marsh

Dr. Marsh is a graduate of the University of Manitoba Faculty of Medicine. He is a third-year resident in Orthopaedic Surgery at the University of Manitoba.


Dr. Randy Mascarenhas

Dr. Mascarenhas is a graduate of the University of Manitoba, Faculty of Medicine. He is a third-year Orthopaedic Resident at the University of Manitoba.


Mascarenhas Randy – Transphyseal Anterior Cruciate Ligament Reconstruction with Autogenous Semitendinosus/Gracilis Tendons in the Skeletally Immature Patient, 2009 Department of Surgery Research Forum.

Mascarenhas, Randy – Iliac Crest Allograft for Glenoid Deficiency in Recurrent Anterior Shoulder Instability in Athletes, 2009 Department of Surgery Research Forum.


Dr. Meaghan Rollins

Dr. Rollins is a graduate of the Royal College of Surgeons in Ireland in Dublin, Ireland for undergraduate medicine. She is a first-year resident in Orthopaedic Surgery at the University of Manitoba.

Dr. Jamie Rusen

Dr. Rusen is a graduate of the University of Manitoba Faculty of Medicine. He is a third-year resident in Orthopaedic Surgery at the University of Manitoba.


Dr. Taranjit Tung

Dr. Tung is a graduate of the University of Saskatchewan Faculty of Medicine. He is a fourth-year Orthopaedic Resident at the University of Manitoba.

Tung, Taranjit – Cortical Step Sign in Assessing Rotation During Intramedullary Nailing of Winquist and Hansen Type II Femoral Shaft Fractures, Orthopaedic Resident Academic Day 2010.

Dr. James Vernon

Dr. Vernon is a graduate of the University of Sydney, Faculty of Medicine in Australia. He is a fifth-year Orthopaedic Resident at the University of Manitoba.

Vernon, James – Sutures versus Staples For Wound Closure in Orthopaedic Surgery: A Randomized Controlled Trial, Orthopaedic Resident Academic Day 2010.

Dr. Mohammad Zarrabian

Dr. Zarrabian graduated from the Queen’s University in Kingston.

Winning Research Paper, Resident Research Day

The Validation of a Novel Expertise-based Global Assessment of Arthroscopic Skills in a Cadaveric Knee Model.

Dr. Jesse Shantz*, MD MBA2
2 Section of Orthopaedics, University of Manitoba
* Corresponding Author

Funding for this research was generously provided by an unrestricted grant from the Arthroscopy Association of North America and through a grant from the Alexander Gibson Fund.

Acknowledgements: The authors would like to thank the residents and staff of the Section of Orthopaedics for volunteering the time to serve as subjects in this study. Additional thanks to Drs. John Collins and Daniel Pratt of the University of British Columbia for their guidance in the construction of the global assessment of arthroscopic skills. Thanks also to Dr. Jamie Dubberley, Dr. Jason Old and Dr. Greg Stranges for evaluating the countless videos.

PURPOSE

The development of skills in arthroscopic surgery is essential to the training of modern orthopaedic surgeons. Few validated, objective tools exist which track improvement in arthroscopic skills. The purpose of this study was to validate an objective global assessment of arthroscopic skills employing videotape footage of diagnostic arthroscopy performed by participants of various skill levels on a cadaveric knee.

METHODS

A total of 22 participants with varying arthroscopic experience performed a recorded diagnostic knee arthroscopy on a cadaveric knee. Recorded footage of the procedures from an arthroscopic and external view was assessed by five blinded evaluators and scored on a global skills evaluation and checklist evaluation form. Interclass correlation coefficient analyses were used to determine the inter-rater reliability. Mean scores of novice and experienced residents and practicing arthroscopists (based on rank and experience) were compared using a student’s t-test.

RESULTS

A total of 22 participants completed an attempt at a diagnostic arthroscopy of a cadaver knee. Interclass correlation coefficient for the five raters on the global rating scale was 0.626 indicating moderate to good agreement. Interclass correlation coefficient for visual analogue scale skill measurement was 0.645. Discriminant validity was shown by the ability of the global assessment to differentiate novice (95% CI=8-10) and experienced residents (95% CI=13-17) from fellows (95% CI=21-31) and staff (95% CI=17-23). There was a ceiling effect based on the inability to differentiate fellows from staff.

CONCLUSIONS

The Objected Assessment of Arthroscopic Skills global rating scale is a valid, reliable measure of arthroscopic skills in residents. It could be used for evaluative or educational purposes in orthopaedic training.

LEVEL OF EVIDENCE

Level II – Prospective Comparative Study

KEYWORDS

Education, Evaluation, Arthroscopy, OSATS
Education Events

Skills Course: L– R: Dr. Jesse Shantz, Dr. David Ames and Dr. Jon Marsh

Skills Course: L– R: Dr. Randy Mascarenhas, Dr. Jamie Rusen and Dr. James Vernon

Skills Course: L– R: Dr. Fanelli, Dr. Abdul Elyousfi and Dr. Bahram Groohi
Scope Day: L– R: Dr. Fanelli, Dr. Taranjit Tung and Dr. Christopher Kim

Scope Day: L– R: Dr. Warren Froese, Dr. Danny Gillis, Dr. Earl Kowalcyk and Dr. Heather Barske

Scope Day: L– R: Dr. James Vernon, Dr. Jamie Rusen and Dr. Randy Mascarenhas
Notes