

Department of Surgery

Annual Report

2017-18


CUMMING SCHOOL
OF MEDICINE



UNIVERSITY OF
CALGARY



Alberta Health
Services



Department of Surgery
Annual Report 2017- 2018

Acknowledgements

Compiled and edited by Tammie Roy,
Rosey Hwang and Susan Isherwood.

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LETTER FROM THE HEAD OF THE DEPARTMENT OF SURGERY



Dear Colleagues and Friends,

Over the last three years of my term as Head of the Department of Surgery (DoS), the DoS leadership team and faculty have continued to grow and evolve. In the past year, we have welcomed new Section Chiefs in Orthopedics (Dr. Jason Werle), Dentistry (Dr. Graham Cobb), and Ophthalmology (Dr. Andrew Crichton) to our leadership team. We have also reappointed Section Chiefs (second term) Drs. Rob Harrop, Frankie Fraulin, Greg McKinnon, Richard Edwards and Francios Harton. In addition, Dr. Greg Kozak was appointed new Surgery Site Lead for Rockyview Hospital and Dr. Marcia Clark as Surgery Site Lead for South Health Campus. Dr. Frankie Fraulin was also reappointed to a second term at the Alberta Children's Hospital. The DoS is very appreciative of the time and effort given to fulfilling the many and varied responsibilities of the leadership team.

The Department of Surgery in Calgary continues to grow with more than 13 faculty joining our Department over the past year. The Department is also saying goodbye to some

longstanding contributors to surgery care including Dr. Beth Lange (South Health Campus, Surgery Site Lead), Dr. Walley Temple, Dr. Ian Anderson, Dr. Peter Gibson, Dr. Robert Gordon, Dr. Stephen Miller, Dr. James Nixon, Dr. Douglas Vincelli, Dr. Patrick Wyse, and Dr. Carl Young.

Over the past 3 years, the DoS has made important advancements in research, education, and quality. Led by Drs. Mary Brindle and Claire Temple-Oberle, the Office of Surgical Research (OSR) has undergone a rebirth with a 1 million dollar investment from the DoS as well as a \$250,000 funding commitment from the Cumming School of Medicine (CSM) to support research activities.

Key additions to the OSR support team include a new research facilitator (Dr. Maria Fernando) as well as a statistician (Kimberly Rondeau). In the Office of Surgical Education, the new Director of the Office of Surgical Fellowship (Dr. Amin Kherani), a new Program Director for Surgical Foundations (Dr. Chris Armstrong), and a Chair of the Surgical Undergraduate Education Committee (Dr. Jeremy Lamothe).

The Center for Global Surgery plans to expand its activities in 2019 with new funding opportunities to attend future Bethune Round Table Conferences and recognition of the departmental activities in outreach surgery. Activities in Competence by Design also continue to ramp up in the department with great support provided by Drs. James Brookes and Chris Armstrong. On behalf of the CSM, the DoS thanks all faculty who contribute to undergraduate and postgraduate education. Finally, please monitor your DoS Newsletter for information on upcoming Grand Rounds Speakers for 2019-2020. With assistance from the Section Chiefs, Dr. Vick Chahal has assembled an outstanding lineup of speakers.

On the Quality front, Dr. Andrew Graham continues to effectively lead the DoS Office of Surgical Quality. The DoS Quality Council is now fully operational and includes representation from all Hospital Sites and the National Surgical Quality Improvement Program (NSQIP) leadership. We plan to include additional Section Representatives as well as a dedicated DoS Quality Improvement Manager in 2019 to continue assisting this group with project development and implementation.

In an ongoing effort to address challenges in the Department of Surgery, a number of new initiatives have been put in place:

- Patient Concerns: Dr. Jennifer Matthews is the new patient Concerns Coordinator and will assist with ensuring timely and appropriate responses to concerns raised by patients and/or their families.
- Facilities Allocation Chair: Dr. Paul McBeth will lead a space audit process and space allocation decisions within the department.
- Block Booking: Drs. Colin Schieman and Randy Moore will co-chair the Block Booking Committee which will continue to improve the OR allocation process.

As my third year as Department Head nears completion, several challenges remain for the DoS leadership to address. These include:

- Improving access to surgical care
- Ensuring appropriate on-call coverage
- Providing ongoing support for recruitment
- Ensuring fiscal responsibility with respect to department funding
- Developing a community outreach plan
- Addressing physician leadership and well-being
- Supporting AHS Senior leadership's request to develop innovation care pathways

2019 promises to be another exciting year for our department as we continue to grow in an ever dynamic environment. I look forward to sharing news of our continued growth and achievement. I again thank our members, friends, and colleagues for their ongoing support and interest.

Sincerely,

Sean C. Grondin MD MPH FRCSC FACS
Professor and Head Department of Surgery,
Cumming School of Medicine, University of Calgary,
Calgary Zone Clinical Department Head,
Alberta Health Services

85,544

*total surgical
procedures performed
at adult urban sites*

21,144

*surgical procedures
performed at FMC*

10,846

*surgical procedures
performed at ACH*

14,109

*surgical procedures
performed at PLC*

10,804

*surgical procedures
performed at SHC*

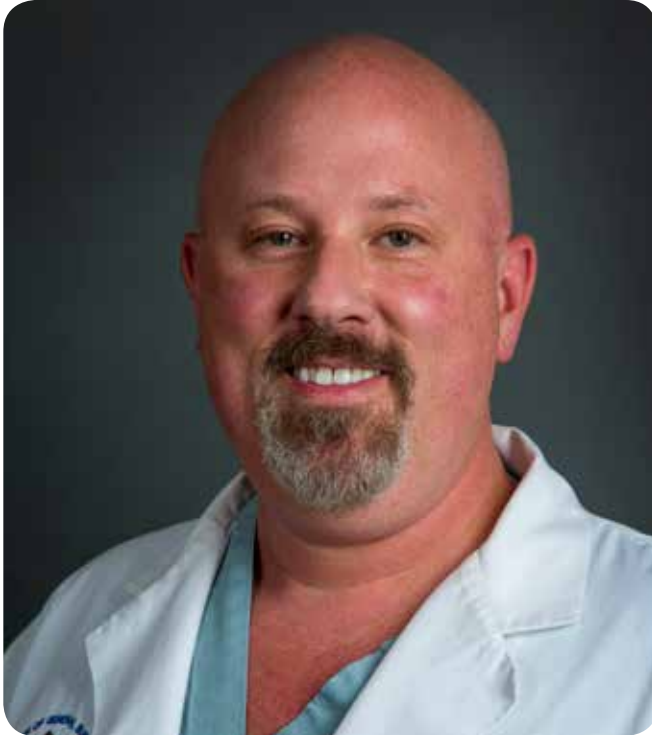
19,413

*surgical procedures
performed at RGH*

97%

*operating room
utilization across
all sites*

LETTER FROM THE DEPUTY HEAD — OPERATIONS



Dear Colleagues and Friends,

The Department of Surgery (DoS) has had many on-going projects and initiatives throughout 2017-2018, and we are very excited to share them with you.

We have made significant progress on a new Senior Surgeon Policy. The committee has met a number of times to review the results of the Departmental survey, gather more information, and debate the various viewpoints. We are now collating feedback from the committee members to draft a policy that will address the many important issues in the most equitable way.

We have successfully searched for and appointed interim Section Heads (Ophthalmology and Dentistry). Other searches coming to a conclusion include a new lead for the Evidence Decision Support Program (EDSP) Office, Site Head at South Health Campus, and a new lead to manage clinical coverage for the DoS. This includes the Clinical Assistant program, the Extender Program, and integration of these with the resident and fellow call coverage schedules.

We continue to operate with a high degree of efficiency at or near capacity across all hospitals in the city. We look forward to continue working with leadership to improve and expand surgical services throughout the zone.

The Block Booking Committee, under the leadership of Dr. Schieman and Dr. Moore, has been developing an implementation strategy of the policy. This will shift focus onto contributions to the DoS and citizenship activities including volunteerism and committee work, attendance at Sectional and Departmental meetings, and academic, administrative, and research activities.

These are exciting times with many opportunities for us as physicians and surgeons within Alberta.

Dr. Brindle has stepped down as DoS Deputy Head – Academic and moved onto an exciting new position at the Surgery Clinical Network (SCN). I will personally miss working with Dr. Brindle; however, her absence opens up opportunities for other members to join DoS leadership. Along with the Deputy Head position, the DoS has a number of new leadership positions which offer exciting opportunities to shape the future of the Department. I would encourage anyone interested to contact me or Dr. Grondin and put his or her name forward.

These are exciting times with many opportunities for us as physicians and surgeons within Alberta. I welcome questions and suggestions, so please do not hesitate to contact me.

Sincerely,

Elijah Dixon MD BSc MSc FRCSC FACS

Professor and Deputy Head - Operations

**Department of Surgery, Cumming School of Medicine,
University of Calgary, Alberta Health Services**

UPDATE FROM THE OFFICE OF SURGICAL EDUCATION



Mission:

- Works to develop, improve and share notions, views and activities at every level of surgical education.
- Lead development of educational skills for faculty.
- Evaluate education activities in the Department of Surgery (DoS).
- Organize and chair meetings of surgical education groups to promote new ideas and best practices.
- Represent surgical education at leadership forums within the DoS and at the Cumming School of Medicine (CSM).

During the last year, many educational activities took place within the DoS. Our members have been contributing broadly to the Undergraduate Medical Education (UME), Post Graduate Medical Education (PGME), Continuing Medical Education (CME), and Global Health education efforts throughout CSM.

OSE Retreat

The Office of Surgical Education (OSE) Retreat took place last year, and the report from the external review was discussed with education leads. Participants reflected on findings and recommendations of the report, and they identified immediate and long-term strategies to help improve educational efforts throughout the DoS.

All participants agreed on the need to improve accountability of faculty participation on educational activities. There should be a clear process on how to monitor educational activity, and we need to better define education roles and expectations in short and long-term for all faculty. The DoS needs to continue working on creating a solid infrastructure to help faculty succeed in their educational endeavors.

A centralized reporting and documentation system on all education activities was identified as a great tool to improve ongoing assessment. Annual report cards for all faculty would also help faculty and division leads to analyze and reflect on participation and quality of work of educational activities.

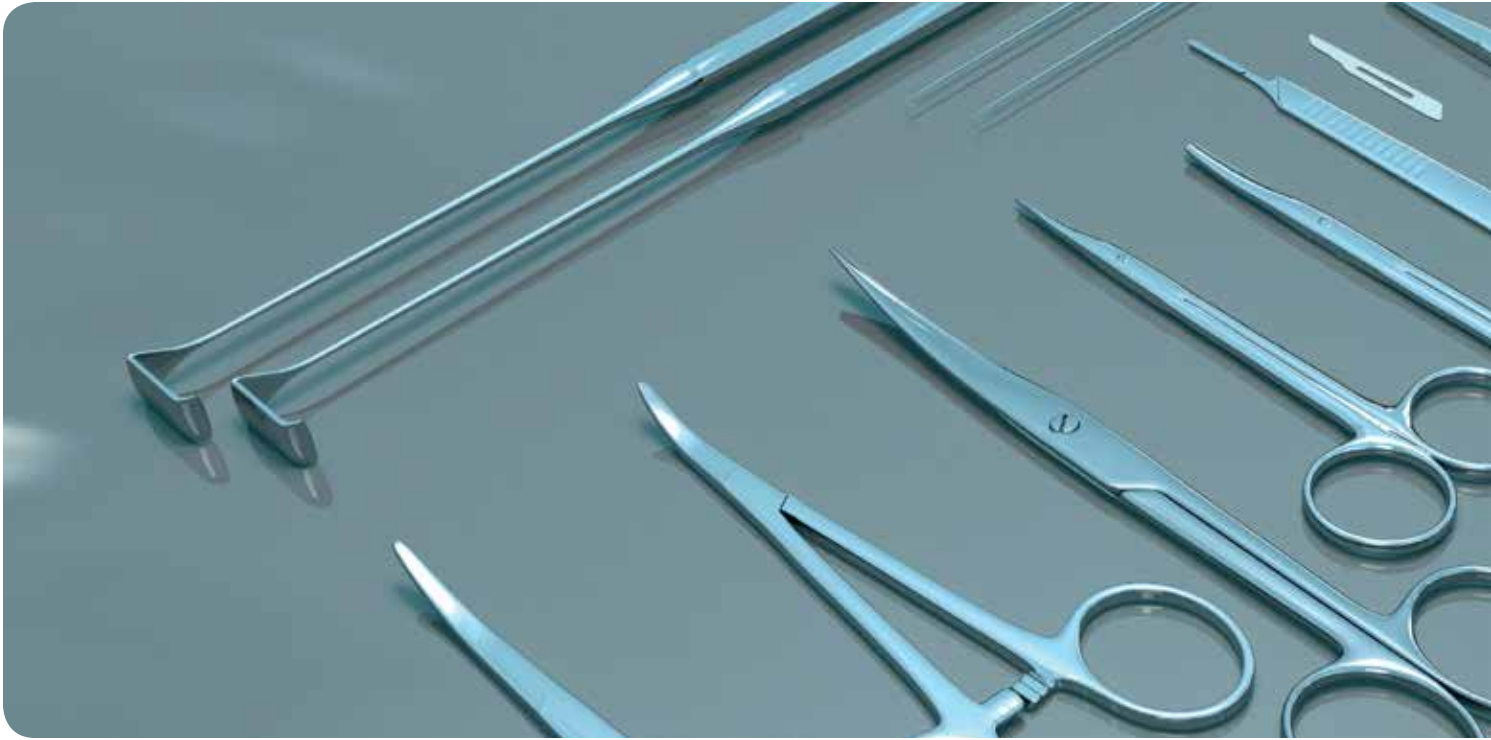
In the long-term, the DoS needs to establish a more robust process to deal with underperformers. OSE and sections need to collaborate in providing assistance to individuals that are struggling in education activities.

The Office of Surgical Education works to develop, improve and share notions, views and activities at every level of surgical education.

There is a place for the development of a DoS-wide teaching program to equip faculty, residents, and fellows with the fundamental building blocks required for effective and engaging teaching. Surgical educators should be helped and supported to establish an educational portfolio with a specific job description.

Surgical Foundations

In 2018, Surgical Foundations implemented the Royal College's Competency By Design (CBD), and the on-line ePortfolio evaluation system was introduced to faculty at



large. Through the hard work and dedication of Dr. Justin LeBlanc, Surgical Foundations' Program Director, and Dr. Chris Armstrong, Surgical Foundations' CBD Lead, nearly 400 faculty and residents have been on-boarded to ePortfolio and are using the new evaluation system.

***“Education is what remains after one has forgotten what one has learned in school.”
- Albert Einstein***

The PGY1 Surgical Skills Course component of the Surgical Foundations academic schedule was streamlined from a three-month program to a one-week Surgical Skills Boot Camp. To facilitate this new format, Programs in collaboration with Divisions and the DoS leadership, arranged PGY-1 residents to be off clinical duty for a full week of learning. A tremendous amount of work was done by Dr. Alicia Ponton-Carss, Dr. Adrian Harvey, and all the participating faculty to make the first year a huge success.

CME Activities:

The CME office provides support to the DoS membership with organizing professional courses and events. They provide accreditation services, course and event management, venue arrangements, advertising, marketing, course evaluation summaries, and event final reports. Some of the events currently organized through the CME office are:

- Office of Surgical Education Retreat
- Annual Townsend Day
- AOTrauma Basic Course for Operating Room Personnel
- Canadian Shoulder & Elbow Course
- Canadian Orthopaedic Resident Forum
- Surgical Foundations Teacher's Training Retreat

UME Activities

Clerkship: The Clerkship Class of 2018 had a total of 160 clerks with 19 clerks completing their clerkship in the rural setting (UCLICs). The department received 17-24 University of Calgary clerks for each of the eight surgery blocks. A variety of surgical seminar sessions were presented by dedicated department faculty in each block.

Visiting Clerks and Surgical Electives: 206 surgical electives were completed by University of Calgary medical students (both clerks and pre-clerks) and eligible final year medical students nationwide (visiting clerks). The high volume of requests reflects the recognition of passion for teaching as well as the quality of clerkship electives provided by department surgical preceptors.

PGME

- More than 90 DoS residents and other residents visiting from around the country
- 10 fully accredited residency programs, 286 surgeons teach in these programs



27 *surgical fellows*

104 *surgical residents*

- More than 30 fellows, General Surgery, Ophthalmology, Ortho, Plastics and Urology
- 4 different teaching sites providing surgical education at every level of training
- PGSTC, under the direction of Dr. Lloyd Mack, has been very active in designing new policies and promoting best practices within the DoS.

Accomplishments and Highlights

- Dr. Chris Hanson received the Excellence in Teaching by New Faculty Award
- Dr. Jim Nixon received the Excellence in Teaching by Senior Faculty Award
- Dr. Justin Yeung received the Educator of the Year Award
- Dr. Sean McFadden received the Ectopic Educator Award
- Dr. Steven Lopushinsky received the McPhedran Award for Innovation in Surgical Teaching

OSE Recognizing Educational Excellence in Teaching

The OSE would like to recognize Dr. Peter Lewkonja for his contribution as Course Chair of the University of Calgary's Undergraduate Medical Education MSK and Dermatology Course.

This is an 8 week course that involves over 30 surgeons/medicine faculty and is composed of 4 units (anatomy, orthopaedics and physitry, rheumatology, and dermatology).

The program exposes some 165 students annually to real-world clinical care. They are exposed early in their medical school curriculum by using a variety of techniques including traditional lectures, clinical correlation, and team-based learning approaches.

The OSE would like to recognize Dr. Wayne Rosen for his contribution as Chair of the University of Calgary's Undergraduate Medical Education Medical Skills Course.

In this role, Dr. Rosen is in charge of overall administration of the Medical Skills curriculum. This course teaches students skills in communication, physical exam, procedural skills, ethics, global health, well-physician, and collaborative practice.

This complex course involves over 200 hours of instruction during the first two years of medical school.

In addition to his role as the Chair of the Medical Skills course, Dr. Rosen has co-chaired the undergraduate bioethics unit at the Cumming School of Medicine for the past 14 years. This involves an additional 30 hours of front line instruction during the first 2 years of the undergraduate curriculum.

Dr. Artan Reso

**Director of the office of Surgical Education
Department of Surgery, Cumming School of Medicine,
University of Calgary, Alberta Health Services**

UPDATE FROM THE OFFICE OF SURGICAL RESEARCH



Vision:

The Office of Surgical Research exists to help surgeons achieve research excellence.

Mission:

By fostering and facilitating programs aligned with the four pillars of research strength within the Department of Surgery, the OSR will educate, promote, and invest in surgeons working in teams on innovative and impactful research.

The Office of Surgical Research (OSR) exists within the Department of Surgery (DoS) to offer direction and support for researchers, foster collaborations between thematically aligned institutes within the University of Calgary (U of C), enhance internal grant review processes to increase success of external funding competitions, and offer assistance in formulating research policy, direction, and goals within the DoS.

In January 2017, a needs assessment was performed by Dr. Achilles Thoma. Four key findings were identified:

1. There is general frustration over navigating administrative barriers.
2. Biostatistical support is required.
3. A new research funding model should be implemented.
4. High-performing surgeons should be provided with additional resources to promote success in external funding competitions.

To overcome administrative barriers within the University of Calgary, the OSR has hired a full-time Research Facilitator, Maria Fernando. Maria has previous experience with the Office of Research Services at the University of Calgary and holds a Ph.D. from the Cumming School of Medicine at the University of Calgary.

A key method to assist navigating administrative issues has been the development of a resource manual. The manual was released March 2019 and is located on the OSR website. It includes information on:

- How to hire a research assistant.
- Internal processes required to apply for grants.
- How to set-up a project at the University of Calgary.

If you have suggestions for topics you would like included in the next edition of the manual, please contact Maria at Maria.Fernando2@ahs.ca.

The OSR has also hired Kimberly Rondeau to provide biostatistical support. Kim brings nine years of experience providing statistical support in academic and governmental environments. To date, she has received 17 requests from DoS members. To request her support, please complete the survey at: <https://www.surveymonkey.com/r/KWZ6W3F>.

The OSR has also revamped its funding model to promote research excellence within the Department of Surgery. This has resulted in three new funding opportunities:

1. The OSR Pillars of Research Award

The grant structure in the OSR has been updated to reflect four pillars that align with the research strengths of DoS members: basic science, clinical, education, and health systems research. The new competition will fund two applications from these pillars each year with applications receiving \$25,000/year for two years.

2. Section funding

Each section chief was given the opportunity to request funds to be used to enhance research capacity within their section. In general, the main request was for funds to help support a dedicated research assistant for the section.

3. Open access fund

The open access fund aims to reimburse researchers in the department for costs associated with publishing in open access journals. The maximum available funding is \$2500 per award. Two awards will be given out twice a year, with June 30 and December 31 deadlines annually.

By fostering and facilitating programs aligned with the four pillars of research strength within the Department of Surgery, the OSR will educate, promote, and invest in surgeons working in teams on innovative and impactful research.

The CSRDF program will continue to fund small, novel projects within the DoS. The 2019 competition received 25 applications: one basic science, 13 clinical, eight health systems, and three education. The top four applications will be funded.

The final initiative is the “Targeted Support” initiative. It was implemented based on findings that high-

performing surgeons should receive additional resources to promote success in external funding competitions.

Through this initiative, section chiefs were invited to nominate researchers they felt should be targeted by the OSR for additional support.

Nominations were requested in three categories: emerging faculty, established researchers, and primary surgeon researchers. The OSR team has been meeting with these individuals to determine how we can support and enhance their research output.

2018 Surgeons’ Day

We had a successful 2018 Surgeons’ Day at the Libin Theatre with approximately 140 attendees. There were many excellent podium presentations, including two outstanding lectures from the guest speakers, Drs. Serdar Yilmaz and Lor Randall. Top resident paper went to Dr. Joeseeph Kendal from Orthopaedic Surgery for his presentation on BMP-2 signalling in pre-clinical models of osteosarcoma.

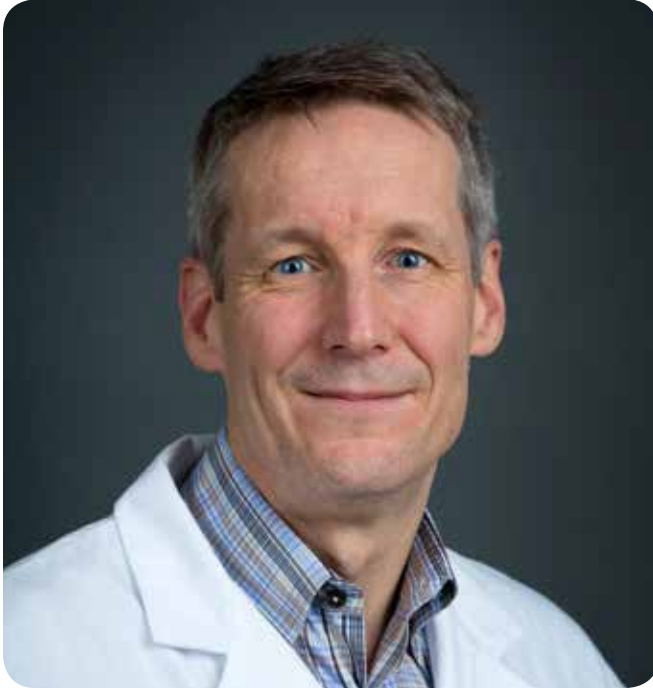
The runner up was Dr. Maher Sabalbal from Vascular Surgery for his presentation on same day discharge in percutaneous endovascular aneurysm repair pathways. The inaugural Sharpest Knife grant went to Dr. Neil White for his proposal to assess the effect of weather patterns and seasonal factors on orthopaedic trauma volume.

This year, prizes were awarded to the top poster for each pillar of the Office of Surgical Research: Kristen Barton (Basic Science), Michael Liss (Education), Ashlee Matkin (Health Systems), and Eva Gusnowski (Clinical Research).

Dr. Claire Temple-Oberle

**Director of the Office of Surgical Research,
Department of Surgery, Cumming School of Medicine,
University of Calgary, Alberta Health Services**

UPDATE FROM THE OFFICE OF SURGICAL QUALITY



Vision:

The vision of the Calgary Zone Surgical Quality Council (CZSQC) is to develop an objective, data-driven framework to be used within the Calgary Zone to guide surgical practice. This will result in an improved patient experience, enhanced clinical outcomes, neutral or reduced care delivery costs, and a positive caregiver experience.

Mission:

The CZSQC will use the three pillars of quality - effectiveness, efficiency and safety - to develop a framework based on shared learnings, data integration, and identified core clinical metrics. The framework will be used to generate quality improvement projects, guide resource allocation, and establish a reporting map for the Calgary Zone Surgical Executive.

Values:

The CZSQC creates a respectful and transparent environment to promote collaboration, complete data sharing, and accountability. This caring culture of performance stresses improvement not sanction to achieve enhancement in clinical care.

In the past year, the major focus of the Office of Surgical Quality (OSQ) was the establishment of the Calgary

Zone Surgical Quality Council (CZSQC). The CZSQC includes representatives from all National Surgical Quality Improvement Program (NSQIP) Surgeon Champions, Anesthetic Champions, Surgical Clinical Reviewers for each site, Department of Surgery and Anesthesia, AHS Analytics, Surgical Strategic Clinical Network, Calgary Zone Quality Council, Sectional Surgeon QI Leads, Executive Directors, and AHS OR Leadership.

The CZSQC established vision, mission, and value statements for both the council and Office of Surgical Quality. The mission statement of the Council informs the goals, agenda, and annual update. Dr. Liane Belland, Surgical Champion at Peter Lougheed Centre (PLC), was instrumental in the development of our vision, mission, and value statements.

Membership of CZSQC

The council meets monthly on Wednesdays at 6:45 a.m., and I would like to thank all members of the CZSQC for their support and attendance at that very early hour. The members of CZSQC have decided that to demonstrate their commitment to QI, they have chosen to collect and share attendance data with both the council and surgery executive. The mission for the coming year will be to complete the selection of sectional QI leads. We also hope to select and hire a QI consultant for the Department of Surgery. The establishment of the position of QI consultant will give the department an opportunity to support QI projects without having to draw QI resources from other disciplines.

Shared Learnings

One of the goals of The CZSQC was to identify and share the learnings of established surgical QI projects within the Calgary Zone. The Rockyview General Hospital (RGH) NSQIP team got the council off to a great start by sharing their experience with NSQIP. Led by Renee Duckworth and Susan Reader, they provided insight to the council on how to approach the implementation of NSQIP. At subsequent meeting presentations, a variety of surgical QI projects were presented. Dr. Gregg Nelson provided an overview of the ERAS program within Alberta. Dr. May Lynn Quan contributed a report on the QI project she leads to increase the proportion of patients who received mastectomy via day surgery. Each of the site NSQIP teams are scheduled to present an update to the council. The Foothills Medical Centre (FMC) NSQIP team, led by Surgical Clinical Reviewers Melissa Mucenski and Ayodeji Ogunade,

presented their experience with implementing the NSQIP program. The selection of procedures to be sampled and validation of coding of procedures and complications was shared. The goal in the coming year is to continue to have each of the surgical sites present their NSQIP experience and other QI projects occurring at their site. Additionally, we wished to establish more detailed reports from the ERAS teams within Calgary along with insights from Dr. Buie's rectal cancer care QI project. The council looks forward to learning from the urology and the ACH experience in QI.

Data Integration

A mission of the OSQ and CZSQC is to explore opportunities to integrate the wide variety of data sources available to facilitate data linkages and minimize redundant data collection. Dean Yergens from AHS Analytics and Renee Duckworth from the RGH NSQIP team have developed a process to allow linkage of NSQIP data to AHS enterprise data at an individual patient level. I believe this is critically important to future QI efforts. Congratulations Renee and Dean. Within data integration, a target for the coming year is to ensure that all Calgary NSQIP sites, as they come online, ensure data linkage to AHS Analytics. I hope to explore potential linkages to ERAS data in the future.

The Calgary Zone Surgical Quality Council creates a respectful and transparent environment to promote collaboration, complete data sharing, and accountability. This caring culture of performance stresses improvement not sanction to achieve enhancement in clinical care.

Core Clinical Metrics

A foundational goal of the Office of Surgical Quality and the CZSQC is to develop baseline clinical metrics for each section within the Calgary Zone.

This work has progressed more slowly than I had anticipated. At present, we await the final version of the report for the Section of General Surgery and anticipate its completion in March 2019. I wish to thank the Section of General Surgery especially the Surgeon

QI leads, Dr. Ryan Rochon and Dr. Grant Moffat. Dr. Rochon spent considerable effort to validate the cohort of surgical procedures. Dr. Rochon's work to explore the identification of anastomotic leaks following colon resection confirmed that discharge abstract data could not reliably produce this granularity of information. During his short time in Calgary, Dr. Moffat contributed insights from his previous QI experience and began work with Dr. Nickerson to potentially use return to OR data to inform morbidity and mortality rounds.

Dr. Kate Elzinga with assistance of Skyla Lundgren's ORIS team is refining the identification of a cohort of patients receiving flap reconstruction that the Section of Plastic Surgery is exploring as a possible metric. Dr. Elzinga is also exploring integrating synoptic data within this process. The goal of the coming year will be to complete work with plastic surgery. We will also monitor the progress of dissemination of the general surgery metrics as planned by Drs. Moffat, Rochon, and MacLean.

Reporting Structure to Surgical Executive

Reporting the results of both clinical metrics and QI projects to the surgical executive is important to promote surgical leadership engagement and to provide accountability. In the coming year, I hope to establish, with the CZSQC members, a schedule and presentation format from all NSQIP teams, sectional leads, and other major ongoing QI projects within the Calgary Zone to the CZSQC and surgical executive. The goal would be to afford each group a chance to present their work to the surgical executive yearly to promote engagement and demonstrate success to the leadership team.

Establish a Framework for Surgical QI Projects

In the coming year, a mission of the council will be to develop an archive of ongoing projects with specific information with regards to short term metrics, long term metrics, QI resources, and financial sponsorship. A specific framework for new projects coming forward needs to be established. Dr. Lea Austen has provided initial guidance for a framework based on the RGH experience. The goal will be to finalize and disseminate this framework.

Dr. Andrew Graham

**Director of the Office of Surgical Quality,
Department of Surgery, Cumming School of Medicine,
University of Calgary, Alberta Health Services**

SECTION OF DENTISTRY AND ORAL HEALTH



The Section of Dentistry and Oral Health consists of three divisions: Division of Adult Dentistry, Division of Pediatric Dentistry, and Division of Community Dentistry/Public Health Dental Clinics.

Through its 48 members, our section provides comprehensive oral health services to both adult and pediatric patients via hospital and community health dental clinics. The service also provides ambulatory care services in partnership with the Riverview Surgical Centre through its NHSF contract.

The Section of Dentistry and Oral Health is striving to be a valuable service to the hospital, cancer centre, emergency rooms, multidisciplinary teams of the Calgary Zone, and our patients, some of whom represent the most vulnerable health sectors with respect to their complex medical conditions, unique dental/oral, and/or social challenges.

The section continues to be actively involved in the ongoing planning of the new Calgary Cancer Centre Dental Clinic.

Division of Adult Dentistry

The Division of Adult Dentistry in the Calgary Zone has seen significant changes in the last 12 months. Some long-time staff of the clinic have moved to other opportunities, and we thank them for their service.

The Foothills Medical Centre (FMC) dental clinic has recently welcomed six new dental staff who have been a great addition to the section.

Shelly Bohn has worked tirelessly behind the scenes from an operational standpoint. Her hard work and direction from the senior leadership of the hospital and department has been greatly appreciated. The clinic has seen much needed minor renovations and upgrades to improve the environment for the patients it serves.

The clinic and hospital are committed to investing in modernizing its care delivery. The clinic is very much looking forward to the installation of its new dental CBCT scanner which will dramatically enhance the diagnostic imaging capabilities for the doctors working in the clinic.

Many thanks to the hospital lottery foundation for the support for this new technology.



48 *surgeons in the
Calgary Zone*

2,200 *emergency exams were
performed by public
health clinics in 2018*

\$200,000 *in lottery funding for
new technology and
diagnostic imaging*

*Dr. Graham Cobb
Section Chief of Dentistry and Oral Health*

Division of Pediatric Dentistry

The Division of Pediatric Dentistry in the Calgary Zone is composed of 18 pediatric dentists. The outpatient pediatric dental clinic at the Alberta Children's Hospital (ACH) offers comprehensive dental/oral care to infants, children, and adolescents.

Treatment modalities include communicative behaviour guidance/non-pharmacological behaviour modification, nitrous oxide inhalation sedation, minimal/moderate oral sedation, and general anesthesia in the operating room.

ACH dental specialists are also consultants for the Cleft Palate & Craniofacial Clinic, Nam Clinic, VPI Clinic, Orthodontic Clinic, OMFS Clinic, and TMJ Clinic.

Division of Community Dentistry/ Public Health Dental Clinics

The Division of Community Dentistry/Public Health Dental Clinics consists of nine members. The Public Health Dental Clinics provide dental treatment for individuals that otherwise depend on the primary and acute care system for relief of pain and infection. Albertans who typically do not qualify for dental insurance or government benefits can receive comprehensive dental treatment at the dental clinics within the Northeast Clinic at Sunridge Medical Gallery or the Sheldon M. Chumir Health Centre.

Albertans eligible for these dental services include the working poor, the unemployed, refugees, and the homeless population. Dr. Heidi Rabie is the Clinical Director of the FMC Dental Clinic and Zone Division Chief of Community Dentistry/ Public Health Dental Clinics.

The clinic took on some quality improvement initiatives in 2018 to decrease wait times and increase clinic efficiencies and saw nearly a doubling of emergency visits at the NE clinic. Congratulations to the clinic on receiving the Top Poster Award for the Successful Quality Improvement Projects Stream at the 2018 Quality and Safety Summit.

Highlights

- In 2018, the public health clinics performed 2200 emergency exams, more than 3000 extractions, and more than 3800 fillings for non-insured, low income, marginalized patients under direction and funding from Public Health, Population Public, and the Indigenous Health portfolio.
- The FMC Dental Clinic averaged 456 clinic visits per month for January and February 2019, an increase of 100% compared to the last six months of 2018.
- Ongoing recruitment planned for additional pediatric dental staff at ACH.



SECTION OF GENERAL SURGERY

The Section of General Surgery has 52 members and performs surgery at four adult Calgary hospitals and provides care in a wide variety of areas including benign and malignant diseases of the head and neck, breast, liver, pancreas, adrenal, and gastrointestinal tract. The section also includes trauma services that provide care to trauma patients in Southern Alberta.

The section held its Annual Research Day May 10-11. Dr. Nobhojit Roy was the guest judge, and Dr. John Kortbeek was the local judge. Dr. Roy gave the 16th Annual Roy Preshaw Lecture, while Dr. Paul McBeth gave the James Nixon Education Lecture. The top presentation went to Dr. Gabriel Marcil (preceptor Dr. Richdeep Gill) for The Incidence of Fractures Following Bariatric Surgery: A Systematic Review, Dr. Adriana De Visser (preceptor Dr. Gwen Hollar) won best research project for Global Health Electives: Ethical Engagement in Building Global Health Capacity, while best proposal went to Dr. Alysha Keehn (preceptor Dr. May Lynn Quan) for Young Women with Breast Cancer: A Priority Setting Partnership.

Several faculty members also volunteered in developing countries led by Dr. Gwen Hollaar. Members volunteering abroad included Dr. Gwen Hollaar (Laos), Dr. Greg McKinnon (Laos), Dr. John Kortbeek (Laos), and Dr. Antoine Bouchard-Fortier (Guatemala).

Member Updates

- Dr. Oliver Bathe has been very successful with 10 peer-reviewed publications and new grants as PI or Co-PI totalling \$5,942,932.
- Dr. Chad Ball was the division leader in research with 39 peer-reviewed publications in 2018, and he has assumed the role of Editor-in-Chief of the Canadian Journal of Surgery. He has also worked to complete the new Mattox/Felliciano/Moore Trauma textbook as its editor, wrote a haemorrhage control book, wrote six additional textbook chapters, and was a co-investigator in grants totalling \$124,466.
- Dr. May Lynn Quan has continued to push breast cancer research in the Calgary Zone with nine peer-reviewed publications and \$113,000 in new grants.
- Dr. Andrew Kirkpatrick has 15 peer-reviewed publications and has spearheaded an international multicenter clinical trial on the role of negative pressure wound therapy in the early management of severe intra-abdominal sepsis, the COOL trial (www.coolstudy.ca).

We had seven residents in the 2018 graduation class including Dr. Ikennah Browne (Master's at the University of California at Berkeley), Dr. Tito Daodu (Pediatric Surgery Residency in Calgary), Dr. Navi Dharampal (Thoracic Surgery Residency in Calgary), Dr. Mike Driedger (Hepatobiliary Surgery Fellowship at the Mayo



Dr. Tony MacLean
Section Chief of General Surgery

52 *surgeons in the
Calgary Zone*

80 *peer-reviewed
publications in 2018*

Clinic), Dr. Evan Jost (Surgical Oncology Residency in Calgary), Dr. Derek Roberts (Vascular Surgery Residency in Ottawa), and Dr. Adam Schofield (Locum at PLC, followed by Upper GI Fellowship in Australia).

Awards

- Dr. Chad Ball received the Department of Surgery Clinical Research Award.
- Dr. May Lynn Quan received the Department of Surgery Health Services Award.
- Dr. Don Buie received the Department of Surgery Dedication to Surgical Quality Award.
- Dr. Lloyd Mack received the Post Graduate Medical Education (PGME) Appreciation Award for Outstanding Commitment to Residency Education.
- Dr. John Kortbeek received the Alberta Medical Association Distinguished Service Award.

The following General Surgeons have received Gold Star teaching awards from the class of 2018: Dr. Chris Armstrong, Dr. Lea Austin, Dr. Don Buie, Dr. John Graham, Dr. Mike Dunham, as well as residents Dr. Scott Assen, Dr. Evan Jost, and Dr. Ryan Tong. Honourable mentions went to Dr. John Kortbeek, Dr. Mike Kwan, Dr. Steve Martin, Dr. Paul McBeth, Dr. Daphne Mew, Dr. Artan Reso, as well as residents Dr. Gabriel Marcil and Dr. Adam Schofield.

\$14M *in active grants*



SECTION OF OPHTHALMOLOGY

The Section of Ophthalmology provides services related to the eye including the retina, cornea, glaucoma, ocular oncology, urgent eye care, neuro-ophthalmology, pediatrics, comprehensive ophthalmology, adult strabismus, thyroid disorders and low vision services. We provide clinical services through Alberta Health Service facilities, non-hospital surgical facilities, and private offices. Two outpatient clinics are located at the Rockyview General Hospital and the Alberta Children's Hospital. For cataract and non-cataract ophthalmic surgery, we operate at 4 non-hospital surgical facilities and 2 hospitals.

The section offers a number of programs and services including:

- Lions Eye Bank of Southern Alberta at Rockyview General Hospital.
- Sight Enhancement Clinic at Rockyview General Hospital.
- Calgary Eye Foundation (President Dr. Carolyn Skov).
- Subspecialty clinics at Rockyview General Hospital:
 - Cornea, glaucoma, Marfan syndrome connective tissue disorders eye clinic, neuro-ophthalmology, ocular oncology, retina, solid organ transplant eye clinic, adult strabismus, urgent eye, and thyroid.
 - Retinopathy of prematurity screening service to the Neonatal Intensive Care Units at Alberta Children's Hospital, Foothills Medical Centre, Peter Lougheed Centre, Rockyview General Hospital, and South Health Campus.

Following a recent Royal College External review, the University of Calgary Ophthalmology program, led by



50 *surgeons in the
Calgary Zone*

24 *research
publications*

*Dr. Andrew Crichton
Section Chief Ophthalmology*

Dr. Chris Hanson, went from “intent to withdraw” status by the Royal College of Physicians and Surgeons of Canada, back to a full five-year accreditation program.

Our program is now leading the country in cataract case numbers and allows a personalized surgical schedule in accordance with both the Royal College and the resident’s personal career goals. We have now expanded the program to take two residents per year.

The Royal College review has given us direction for restructuring the training program, and we have made many infrastructure improvements over the last two years. We recently received new resident surgical loupes to be used when on call, and we are now in the process of renovating our surgical wet lab and resident common room. We have acquired two new operating microscopes: one for the Rockyview General Hospital and one for the Alberta Children’s Hospital. A new laser with top quality teaching scope has been added to the Rockyview Eye Clinic.

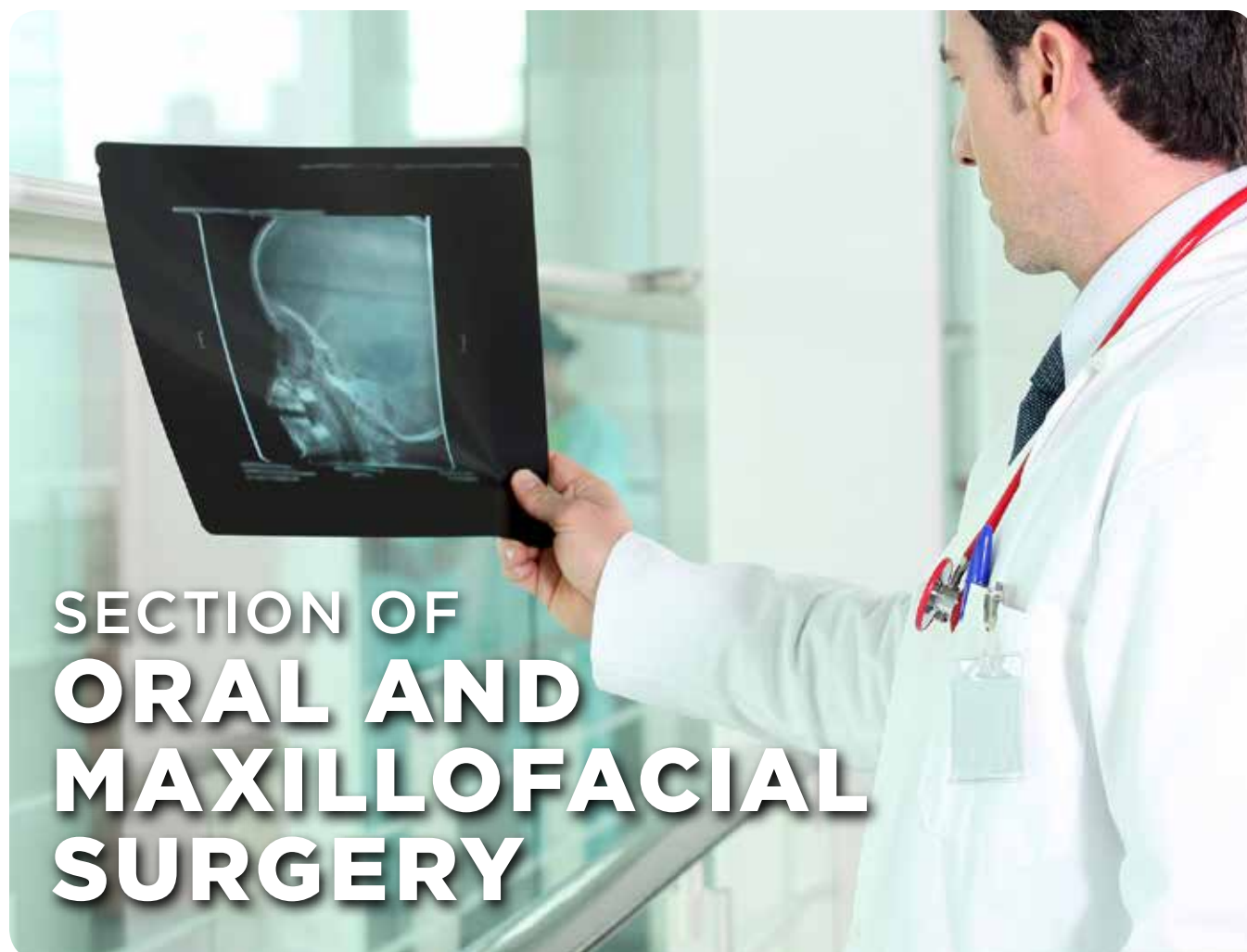
Coverage of retinal eye examinations for retinopathy of prematurity is now at all five existing neonatal intensive care units including the South Health Campus and the expansion at Alberta Children’s Hospital.

There has been continued positive feedback from emergency room physicians by allowing direct booking into the Urgent Eye Clinic by emergency room physicians after regular office hours, as well as by running the Urgent Eye Clinic at the Rockyview Hospital on weekends and statutory holidays.

A resident mentoring program has been instituted and an external ombudsman has been engaged.

Member Updates

- We have two new residents, Dr. Shangjun (Collier) Jiang and Dr. William Trask starting July 1, 2019.
- Dr. Malcolm Gooi and Dr. Helen Chung received their Royal College Certification in June 2018.
- Dr. Vivian Hill and Dr. Stephanie Dotchin have taken leadership roles in teaching ophthalmology in the newest undergraduate medical curriculum.
- Dr. John Huang has been active in coordinating ophthalmology electives and evaluations for medical students from University of Calgary and other Canadian universities.



SECTION OF ORAL AND MAXILLOFACIAL SURGERY

The Section of Oral and Maxillofacial Surgery has 10 members and delivers surgery to the Peter Lougheed Centre, Foothills Medical Centre, and the Alberta Children's Hospital. The section specializes in treating many diseases, injuries, and defects in the head, neck, face, jaw, and the hard and soft tissues of the oral (mouth) and maxillofacial (jaw and face) region.

Oral and Maxillofacial Surgery (OMFS) members provide services at the Cleft Lip and Palate Clinic, Craniofacial Clinic, Pediatric Dental Clinic, and Temporal Mandibular Joint/Rheumatology Clinic at the Alberta Children's Hospital. Members of the service are also involved in the Head and Neck Tumor Clinic at the Tom Baker Cancer Center and the Foothills Hospital Dental Clinic where they provide surgical services for cancer patients.

The OMFS section also provides surgery in non-hospital surgical facilities. Last year the number of surgeries performed in these facilities increased by 15 percent. Plastic surgery, otolaryngology, and general practice dental residents all rotated through the OMFS service. The residents worked in hospitals as well as in the OMFS private offices.

Highlights of the year include: increased utilization of CAD/CAM technology, virtual surgical planning (VSP), and custom plating and custom guides to treat patients



10 *surgeons in the
Calgary Zone*

405 *surgical cases at
the Peter Lougheed
Hospital*

203 *orthognathic jaw
surgery surgical cases*

*Dr. Richard Edwards
Section Chief of Oral and Maxillofacial Surgery*

with severe and complex dental-facial deformities and head and neck tumours (benign and malignant).

The service continued to perform total custom made temporal mandibular joint reconstruction surgery and immediate mouth, jaw, and facial reconstruction surgery for oral and head and neck cancers.

The section members provide call coverage for the five acute care hospitals and the urgent care centres in the Calgary Zone. They also provide call coverage for the RAAPID call centre that includes southern Alberta and southeastern British Columbia.

We welcome Dr. Todd Fairbanks as our newest member who joined the section in the past year.

The section is committed to continuing to advance the specialty of oral and maxillofacial surgery in the Calgary Zone and to provide excellent treatment for patients.

1,021 *surgical procedures
in non-hospital
surgical facilities*

SECTION OF ORTHOPEDIC SURGERY

The Section of Orthopaedic has 68 active members and delivers surgery to all five Calgary hospitals. We perform surgeries related to the musculoskeletal system including joint replacement, spine surgery, and reconstruction.

The Section of Orthopaedic Surgery is proud of the accomplishments of its 68 members over the past year, as we collectively strive for excellence in the three realms of clinical care: delivery, research, and education. Despite our significant OR activity, waitlists and demand for musculoskeletal care continue to climb in the Calgary zone. Only 63% of surgical cases in orthopaedics are being performed within the recommended ACATS window. The largest surgical demand includes shoulder surgery, hip and knee arthroplasty, and spine surgery followed in short order by other subspecialty care from our nine divisions.

The academic activities of the section have continued despite a significant re-alignment of the Orthopaedic Academic Office which occurred in 2018. The academic work is supported by our new Business and Research Manager, Tommy Chan, who joined

us from finance within the Cumming School of Medicine (CSM) in September. Judy Crawford, a longstanding assistant within the section, continues in support of our research and education mission.

The Undergraduate Medical Education program is lead by Dr. Peter Lewkonja who serves as Course Chair for Course 2 (MSK) within CSM. He has done an admirable job of revamping the course content and continues to evolve and modernize the curriculum and its delivery. Thank you to Peter and the faculty of the section who have contributed to these efforts.

Continuing Medical Education (CME) within the section is managed by Dr. Christina Hiscox. Several excellent city-wide Orthopaedic grand rounds were held during the academic year. These were held monthly via telehealth.

Orthopaedic Clerkship opportunities continue to be in high demand among our University of Calgary clerks as well as medical students from across Canada. The number of applications for CARMS in 2018/19 numbered 71 (for four matched positions) which represents a new high for our program. This is in no small part to the excellent preceptors and mentors that exist within the section. Thank you to Dr. Jeremy LaMothe who has assumed the Clerkship Director Position for the entire Department of Surgery in 2018.

Research activity is robust within the Section of Orthopaedic Surgery. We have strong collaborations with



68 *surgeons in the
Calgary Zone*

17,067 *surgical cases
performed at all
five hospitals*

*Dr. Jason Werle
Section Chief of Orthopedic Surgery*

the McCaig Institute for Bone & Joint Health, the Alberta Bone & Joint Health Institute, and the Bone & Joint Health SCN. These collaborations have translated into more than \$6.6M in research grant success over the past three years.

These have included substantial grants to Drs. Kevin Hildebrand (2.77M), Paul Salo (1.56M), Prism Schneider (0.54M), Marcia Clark (0.51M), and Ian Lo (0.42M). The section is proud of the research program, its teams, and its legacy of success.

The Office of Surgical Fellowship (OSF) administers seven fellowship programs currently training 13 orthopaedic fellows in subspecialty areas including: combined spine (5), pediatric spine (1), trauma (2), joint reconstruction (2), foot and ankle (1), sports medicine/Banff (1), and Hand & Wrist (1). These programs continue to enrich the academic environment at the University of Calgary. Dr. Jim Powell stepped down as Director of the OSF in 2018. The section applauds him for his efforts in establishing the OSF and putting the fellowship programs on solid footing.

With the future in mind, the section has initiated a strategic planning process to guide our clinical and academic efforts for the next five years. These plans have coalesced around six themes which include: Unity, Non-clinical Activity, Patient-Centric, Data, Department of Surgery, and OR allocation/on-call/Senior Surgeon Policy. The section will continue in this process throughout 2019.

Member Updates

- The section wishes to express its sincere gratitude to Dr. Kevin Hildebrand for his excellent leadership as our section chief from 2008 through to June 2018. The section also bid farewell to two surgeons, Dr. Maureen O'Brien (RGH) and Dr. Steve Miller (SHC), who retired from active surgical practice in 2018. We wish them well in their retirement pursuits.
- Dr. Richard Ng joined the RGH orthopaedic faculty in 2018 and has taken on the role of Ortho QI/QA lead.
- Dr. Prism Schneider was named one of Avenue Magazine's Top 40 Under 40 in December 2018. This extremely competitive process is a significant accomplishment. Congratulations Prism!
- Congratulations to Dr. Ian Le who was appointed Program Director of the Orthopaedic Surgery Residency Program effective July 1, 2018. Under his capable leadership, along with Ortho CBD Lead Dr. Jacques Bouchard, the program will transition to Competence By Design beginning in 2020. The residency has 21 current residents with one completing the Surgeon Scientist Program in the 2018/19 academic year.



SECTION OF OTOLARYNGOLOGY HEAD AND NECK SURGERY

The Section of Otolaryngology delivers surgery to all five Calgary hospitals. Surgeons are geographically concentrated at the various hospital sites to promote high-quality, efficient patient care. They also provide focused surgical experiences for the residents and opportunities for clinical studies. General otolaryngologists are present at all sites providing comprehensive care across the spectrum of otolaryngologic disorders.

The section takes special pride in providing a highly successful otolaryngology surgery residency training program. The hospital focused organization of subspecialty care in Calgary has facilitated our transition to Competency by Design (CBD), a competency-based medical education program, beginning in July 2017.

The Ohlson Research Initiative, a clinical and laboratory head and neck oncology research program embedded in the Arnie Charbonneau Cancer Research Institute, and the Rhinology clinical outcomes program of the

Rockyview General Hospital are leading the section in research highlights. The Otolaryngology–Neurotology, Laryngology, and Paediatric Otolaryngology are all active and expanding clinical research foci within the section.

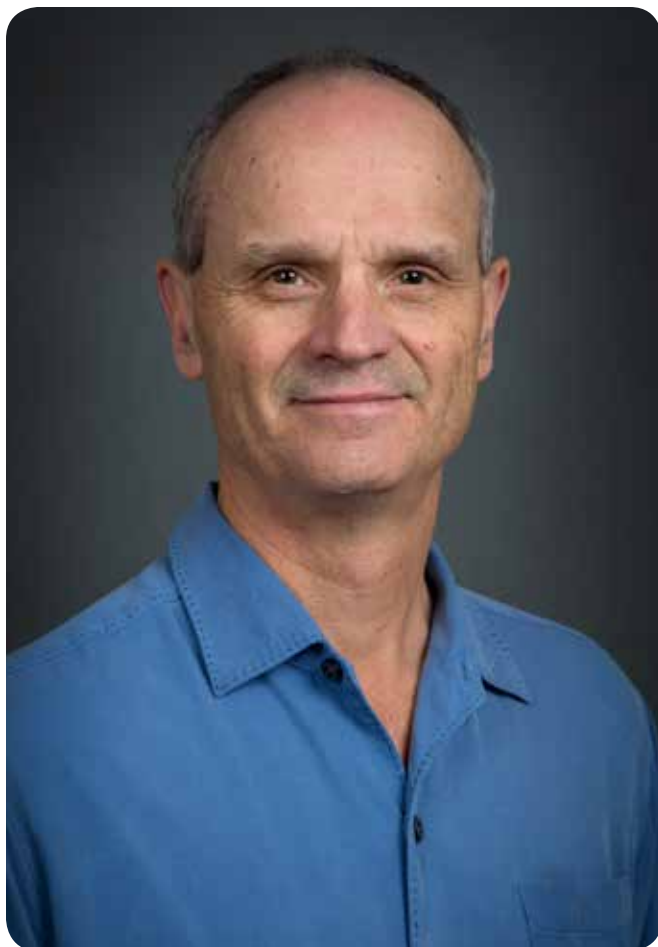
Otolaryngology at the University of Calgary/Alberta Health Services Calgary Zone is a rapidly evolving patient care, teaching, and research enterprise that strives to be national and international leaders in the specialty.

Ongoing focused recruitment and geographic concentration of subspecialty programs should allow for improvement in clinical care, medical education, and research output at all sites.

Otolaryngology Head & Neck Surgery is the first Royal College surgical specialty to transition to CBD with the first cohort of residents enrolled in July 2017. This implementation at the University of Calgary has proceeded very smoothly with residents and most faculty now comfortable with the process.

Member Updates

- Dr. Matt Bromwich University of Ottawa was the visiting guest speaker at the Annual Otolaryngology Resident Research day in January 2018.



27 *surgeons in the
Calgary Zone*

38 *peer reviewed
publications*

*Dr. J. Doug Bosch
Section Chief of Otolaryngology
Head and Neck Surgery*

- Dr. Doug Bosch was promoted to the rank of Clinical Associate Professor.
- Dr. Carrie Liu successfully completed her FRCS(C) specialty examinations in Otolaryngology and is currently completing a one-year fellowship in Pediatric Otolaryngology in Seattle Washington. She has been successfully recruited to return to Calgary in August 2019.
- Dr. Robert Hart joined the Head and Neck Group at the Foothills Medical Centre in July 2018. Dr. Hart is an experienced well-renowned Head and Neck Surgeon who had been practicing in Halifax, NS for the past 12 years. He currently holds an appointment of Professor at the University of Calgary, Cumming School of Medicine. His interest is in head and neck oncology and disorders of the thyroid/parathyroid.
- Dr. Michael Deutschmann has joined the Otolaryngology group at the Rockyview General Hospital in December 2018. Dr. Deutschmann completed his otolaryngology residency at the University of Calgary and a Head and Neck Fellowship at the University of Kansas.

He practiced General Otolaryngology in Red Deer for the past three years before joining us in Calgary. His interests are in general otolaryngology and disorders of the thyroid.

- Dr. Joe Dort has retired from surgical practice but will continue to direct the Ohlson Research Initiative. He is currently on a one-year sabbatical from July 1, 2018, to June 30, 2019.
- Dr. Fawaz Makki completed a six-month locum for Dr. Wayne Matthews (sabbatical) from July 1, 2018, to December 31, 2018. Thank you to Dr. Makki for his dedication, skill, and hard work.
- Dr. Jonathon Dautremont completed a Master of Science in Healthcare Quality at Queen's University (2018) and has joined the Surgical Quality Council.
- Dr. Shamir Chandarana was promoted to the rank of Clinical Associate Professor.
- Dr. Derrick Randall was promoted to the rank of Clinical Assistant Professor.

SECTION OF PEDIATRIC SURGERY



The Section of Pediatric Surgery delivers surgery to the Alberta Children's Hospital (ACH). Members are from pediatric general surgery, pediatric orthopedics, pediatric plastic surgery, pediatric otolaryngology, pediatric urology, and pediatric ophthalmology. The ACH's surgical services are complete with surgeons from the Department of Surgery Section of Dentistry, Section of Oral & Maxillofacial Surgery, the Department of Neurosciences, and the Department of Obstetrics and Gynecology.

The child and their family are at the centre of care for Pediatric Surgeons. The Section of Pediatric Surgery includes 29 primary members, from pediatric general surgery, pediatric orthopedics, pediatric plastic surgery, pediatric otolaryngology, pediatric urology, and pediatric ophthalmology. The Section set three common priorities, and 2018 was memorable on several fronts in regards to these goals:

1. Optimizing patient access to the operating room: ACH performed a record high 10,846 operative cases in the 2017-18 fiscal year. ACH does the second highest number of scheduled pediatric surgical cases in Canada after the Hospital for Sick Children in Toronto. We also improved access to the operating room for urgent cases by reassigning some elective time without affecting wait times for elective patients.
2. Supporting a positive work environment: ACH Surgical services held a well-attended retreat in November 2018, facilitated by Dr. Leslie Beatson, focused on the themes of culture, communication, and change.
3. Promoting quality, safety, education, and research: Safest Together is a major quality improvement initiative at ACH, and Dr. Paul Beaudry and Dr. Fabio Ferri de Barros lead our team in these initiatives.

Member Updates

We would like to welcome three new members:

- Dr. Marcel Abouassaly, Pediatric Orthopedic Surgeon, who brings lower extremity reconstruction training from the International Centre for limb lengthening in Baltimore, Maryland.
- Dr. Andrea Lo, Pediatric General Surgeon, who comes from the University of Chicago where she completed the prestigious Medical Education Research, Innovation, Teaching, and Scholarship (MERITS) program.
- Dr. Ugo Dodd, Pediatric Ophthalmologist, who completed her fellowship at Boston Children's Hospital and Harvard University.

Education

- Dr. Stephen Lopushinsky, Residency Program Director for Pediatric Surgery, received the McPhedran award for Innovation in Surgical Teaching for his successful development of a national boot camp.
- Dr. James Brookes continues as the Residency Program Director for Otolaryngology.
- Dr. Natalie Yanchar is the President of the Trauma Association of Canada and was recognized by the Royal College of Physicians and Surgeons for her contribution to the Trauma Resuscitation in Kids (TRIK) course.
- Dr. Simon Goldstein was promoted to Clinical Associate Professor. He is the current Chair of the Post graduate medical education (PGME) accreditation committee.
- Dr. Don McPhalen has been a Master Teacher for many years and also completed ten years as a Royal College examiner.
- Dr. Stephanie Dotchin, also a Master Teacher, holds the Retinopathy of Prematurity (ROP) Physician Lead role. She has developed a cohesive team in this area.

- Dr. Bill Astle continues his leadership as the President of the International Joint commission on allied health personnel in Ophthalmology.

Research

- Dr. Mary Brindle and her Efficiency, Quality, Innovation, and Safety (EQuIS) platform achieved a major accomplishment this past year; they received a Canadian Institutes of Health Research (CIHR) major grant: The Surgical Safety Checklist Revisited: Redevelopment of a Point of Care Tool to Improve Surgical Safety. This grant, paired with contributions from the Cumming School of Medicine and the Brian and Brenda MacNeill Chair in Pediatric Surgery, will provide her team with more than \$800,000 funding!
- Dr. Fabio Ferri de Barros continues his innovative work on improving the quality and safety in scoliosis surgery, with the help of his partner Dr. Dave Parsons. Internationally, he is being recognized for his work by the Pediatric Orthopedic Society of North America (POSNA). Dr. Parsons also continued his significant work with the Royal College on multiple committees.
- Dr. Elaine Joughin was successful in obtaining a Chief Medical Officer/Medical Affairs (CMO/MA) Quality Improvement Initiative Fund for her work evaluating post op pain. She is the Ombudsperson and Departmental advisor on diversity. Dr. Joughin received the Distinguished Service Award ACH in 2018. She has dedicated her career to the care of children with orthopedic problems and sports medicine injuries.
- Drs. Frankie Fraulin and Rob Harrop and their Master's student, Dr. Rebecca Hartley, were successful in obtaining two grants for their work on developing a clinical prediction rule for pediatric hand fractures. Dr. Harrop is also the Section Chief of Plastic Surgery and the President of the Canadian Society of Plastic Surgeons. Dr. Warren Yunker was successful in obtaining an Alberta Medical Association, Section of Pediatrics grant for his project on developing an app to monitor post op pain. In addition, Dr. Bryce Weber was successful in obtaining a Calgary Surgical Research Development Fund grant for his work on evaluating pain outcomes.
- Meanwhile, in the area of innovation, the ACH foundation and KidSIM led a 3D Printing Challenge. Drs. Gerry Kiefer and Marcel Abouassaly were successful in having their hip deformity proposal selected for printing. Dr. Kiefer also received the Surgical Citizenship Award from the Department of Surgery. He has been an advocate for patients, a leader of physicians, a promotor of the sections and the department, and a supporter of the Alberta Children's Hospital.



Dr. Frankie Fraulin
Section Chief of Pediatric Surgery

29 *surgeons in the
Calgary Zone*

10,846 *record high pediatric
cases in the 2017-
18 fiscal year*

\$800,000 *CIHR Grant awarded
to Dr. Mary Brindle*

50% *of members hold
leadership roles*



SECTION OF PLASTIC SURGERY

The Section of Plastic Surgery delivers surgery at all five hospitals in the Calgary Zone. Our members' expertise covers all subspecialty areas of plastic surgery including microsurgery, peripheral nerve, breast, craniomaxillofacial, hand, pediatrics, aesthetics, and oncologic reconstruction.

The Section of Plastic Surgery consists of 32 active plastic surgeons who provide care at all four acute care adult sites and at the Alberta Children's Hospital. Plastic surgery is a surgical specialty that focuses on the care and surgical restoration of structures of the body that are affected aesthetically or functionally by: birth defects, tumours, injuries, diseases, or the aging process. As such, we operate on many anatomic regions of the body and also have the privilege of working and collaborating with many other types of specialties to help solve a large variety of surgical problems. As such, we often think of ourselves as surgical innovators.

Under the direction of program director Dr. Duncan Nickerson, the University of Calgary Plastic Surgery Resident Training Program accepts 1-2 new residents each year to the 5 year plastic surgery training program. After completion of their residency, almost all

graduating residents go on to further fellowship training in various subspecialties within plastic surgery.

We offer three plastic surgery subspecialty fellowships:

- Oncologic reconstruction: Program Director, Claire Temple-Oberle
- Microsurgical reconstruction: Program Director, Christiaan Schrag
- Hand surgery: Program Director, Justin Yeung

Member Updates

- Dr. Kate Elzinga, a new member at the South Health Campus (SHC), did her plastic surgery residency at the University of Alberta and subsequent fellowship training at the University of Michigan (Hand and Upper Extremity) and the University of Manitoba (microsurgery). She has a clinical interest in peripheral nerve surgery, hand surgery, and microsurgery. She also represents the Section of Plastic Surgery in the Department of Surgery Office of Surgical Quality
- Dr. Aaron Knox, a new member at the Peter Lougheed Centre (PLC), did his surgery residency at the University of British Columbia and subsequent fellowship training in Hand and Upper Extremity Surgery in Sydney, Australia and fellowships in Medical Education at the University of Toronto and the University of Illinois. In addition to his clinical practice at the PLC, he



32 *surgeons in the
Calgary Zone*

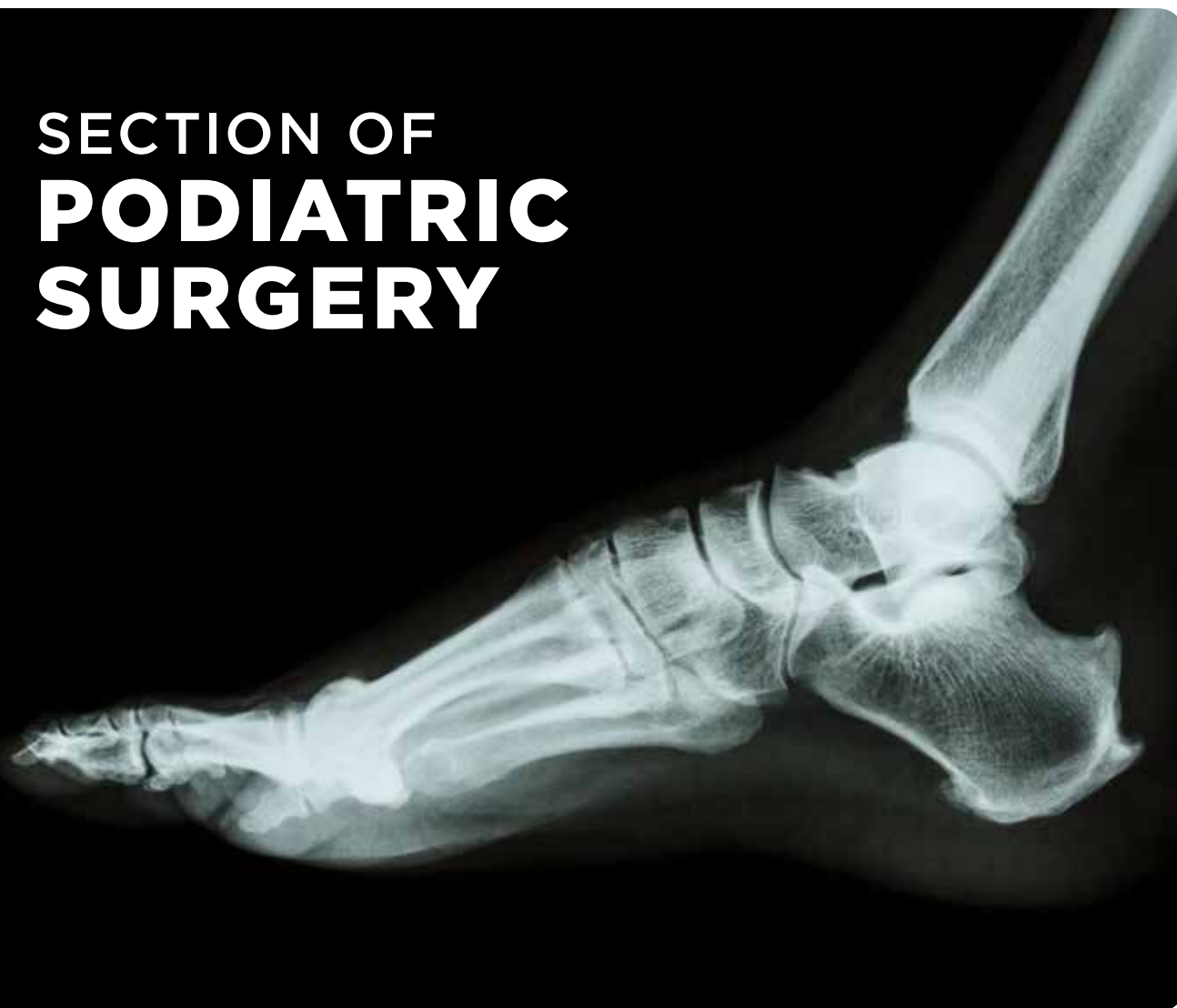
16 *research
publications*

*Dr. Rob Harrop
Section Chief of Plastic Surgery*

is involved in leading the Department of Surgery towards competency-based surgical education.

- Dr. Don Graham, a new member at the Rockyview General Hospital (RGH), did his plastic surgery residency at the University of Calgary and a hand fellowship at the Kleinert Hand Centre in Louisville, Kentucky, where he was on staff prior to being recruited back to Calgary.
- Dr. Justin Yeung received the 2018 Department of Surgery Surgical Innovation Award for his work in developing ShareSmart – A Mobile App for Confidential Sharing of Clinical Information. ShareSmart is an innovative smartphone camera app that enables healthcare professionals to take and share clinical photos and discuss cases between colleagues securely.
- Dr. Jennifer Matthews received the 2018 Department of Surgery Outstanding Contribution by a New Faculty Award that recognizes outstanding contributions to education, research, and quality during her first four years on faculty in the Department of Surgery. She has played an important role in the multidisciplinary Head and Neck Reconstruction program by establishing an effective follow-up clinic, developing synoptec reporting, and contributing to the development of a clinical care pathway for perioperative management of these complex patients.
- Dr. Justin Yeung received the 2018 Department of Surgery Educator of the Year Award determined by the surgical residents for outstanding commitment to surgical education in the operating room, at the bedside, and in the outpatient clinic.
- Dr. Rob Harrop is the current President of the Canadian Society of Plastic Surgeons (2018-2019).
- Dr. Earl Campbell is the current President of the Northwest Society of Plastic Surgeons (2018-2019).
- Dr. Claire Temple-Oberle has been formally appointed to Director of the Department of Surgery Office of Surgical Research.
- Drs. Christiaan Schrag and Jennifer Matthews, with the assistance of other plastic surgery faculty, conducted the Microsurgical Skills Simulation Course in the Spring of 2018 for the plastic surgery residents.
- D.C. Birdsell Plastic Surgery Resident Research Day and Visiting Professorship was held on November 30, 2018 with Dr. Joan Lipa (University of Toronto) serving as Visiting Professor.
- Dr. Jennifer Matthews hosted the Alberta Breast Reconstruction Awareness Day on October 17, 2018. Over 400 patients and family members attended this event (the largest attendance for any Canadian centre) where they had the opportunity to hear formal presentations as well as meet individually and in groups with others who had been through breast reconstruction, partners of reconstruction patients, and surgeons performing reconstruction.

SECTION OF **PODIATRIC SURGERY**



The Section of Podiatry delivers surgery to all five Calgary hospitals and performs surgeries relating to disorders of the lower extremity including the foot and the ankle.

The Zivot Limb Preservation Clinic at Peter Lougheed Centre continues to grow exponentially. This year we were able to buy much-needed equipment thanks to the generous donation made through the Calgary Health Trust. This donation will also help us to fund studies and education for patient and health care professionals. Our section continues to be a leading institution of the diabetic foot in Western Canada. The demand for high-risk diabetic foot care is growing as more attention is given to diabetic foot care and screening. We are currently involved in three studies to help prevent diabetic foot ulcers, decrease their healing time, and decrease level of amputation. Last year, there were almost 12,000 visits to the Zivot Limb Preservation Centre which is nearly a 50% increase from the previous year.

During the last year, our section performed 1,153 cases at non-hospital surgical facilities and 3,288 cases in the minor surgery clinic at the Peter Lougheed Centre.



13 *surgeons in the
Calgary Zone*

3,288 *cases in the minor
surgery clinic at PLC*

12,000 *visits to the Zivot Limb
Preservation Centre*

1,153 *cases at non-hospital
surgical facilities*

*Dr. Francois Harton
Section Chief of Podiatry*

Over the past five years, our section has been self-reporting post-operation complications and issues for non-hospital surgical facilities. The cases that have complications are also discussed at section meetings. This allows us to learn from each other and provide ideas on how to improve the system and set up pathways to prevent further complications.

The division members provide call coverage for the five acute care hospitals and the urgent care centres in the Calgary Zone. They also provide call coverage for the RAAPID call centre for the Calgary zone.

Member Updates

Our section would like to Welcome Dr. John Toole. Dr. Toole is originally from Winnipeg. He did a fellowship in Diabetic Limb Preservation and Foot Reconstruction at the University of Louisville in Kentucky before joining us.



SECTION OF SURGICAL ONCOLOGY

The Section of Oncology delivers surgery to three hospitals in the Calgary zone including the Alberta Children's Hospital, Foothills Medical Center and Peter Lougheed Center. The section performs surgeries related to cancer including breast, colorectal, endocrine, head and neck, hepatobiliary, lung, melanoma, and sarcoma.

Our section consists of a multidisciplinary group of surgeons dedicated to cancer care as their primary goal. Five members are located in the Tom Baker Cancer Centre, and three of these are primary appointments to the Department of Oncology with a cross-appointment to surgery. All other members are primarily appointed to the Department of Surgery and are located at three hospitals.

The new Calgary Cancer Center is on budget and on time. When completed in 2024, it will provide a world-class facility and be the home for section members as well as research staff and clinics.

Health outcomes research will be a primary focus of future activity and recruitment.

Growth in patient population and expansion of facilities will present the opportunity for recruitment of academic surgical oncologists in the foreseeable future.

Member Updates

- Dr. Lloyd Mack finished his tenure as president of the Canadian Society of Surgical Oncology. He assumed membership of the executive leadership of Cancer Control Alberta as well as acting Academic Deputy Head of the Department of Oncology. In addition, he was awarded a grant from the Canadian Partnership Against Cancer for \$850,000. He leads the Post Graduate Surgical Education Committee and is the Program Director for Surgical Oncology.
- Dr. Claire Temple-Oberle continued in her role as Director of the Office of Surgical Research in the Department of Surgery. In this capacity, she organized and led three trainee research days for fellows and residents. She continues as a world leader for ERAS for breast reconstruction and is nearing completion of her Master's degree in education.



9 *surgeons in the
Calgary Zone*

20 *research
publications*

*Dr. J. Greg McKinnon
Section Chief of Surgical Oncology*

- Dr. Antoine Bouchard-Fortier is active in clinical research in breast cancer, advanced G.I. malignancy, and sarcoma.
- Dr. Oliver Bathe continues as the leader of the hepatobiliary surgery group as well as the Provincial G.I tumor group. He is extremely active in research, clinical and translational, and is involved in numerous projects and trials. He supervises two postdoctoral fellows, one Ph.D. student and two Master's students.
- Dr. May Lynn Quan continues in her leadership role in the regional and provincial breast health program. She is a very active researcher and is one of the leaders in the Alberta Cancer Outcomes Research Network (ACORN).
- Dr. Walley Temple retired in 2018. He continues to contribute to the section as Professor Emeritus and will be organizing a national conference on patient-reported outcomes in cancer (PROS) to be held in November 2019. The Department of Oncology has established an annual Temple Lectureship in Surgical Oncology to be held in late 2019 or early 2020.
- Surgical Oncology Fellow Dr. Suzana Kupper successfully graduated from the surgical oncology training program in October 2018.

\$850,000 *grant awarded to
Dr. Lloyd Mack*



SECTION OF THORACIC SURGERY

The Section of Thoracic Surgery delivers surgery to the Foothills Medical Centre. We provide all aspects of esophageal surgery from surgery for benign disease to multimodality cancer care. We care for esophageal disease in a collaborative way with our gastroenterology and oncology colleagues.

The Section of Thoracic Surgery continues to grow and evolve in Calgary. The section actively tracks and reviews all important aspects of an academic tertiary care practice. Our in-house database, designed for our unique medical priority status central triage system, tracks all consults received from the initial referral until their initial consultations.

Our work and support of the Alberta Thoracic Oncology Program allows us to track times for appropriate management of all oncology patients. Working with the AHS and ACATS, the wait times for patients requiring thoracic surgery in the Calgary Zone are closely monitored. Surgical costs are tracked for each surgeon and the group using the lighthouse data system.

The section is most proud of the home-grown, real-time electronic discharge summary that is tracking morbidity and mortality rates for all patients undergoing thoracic surgery. This provides the cornerstone of our morbidity and mortality reviews and has stimulated a number of quality improvement research questions. The section works to review each aspect of the practice on a regular basis to drive needed change in a timely way.

The section is very pleased to begin work with our new dedicated Thoracic Anesthesia colleagues, Drs. Lorraine Chow, Julia Haber, Andrea Todd, Nicole Webb (cardiac rep), David Jungen, Michael Chong, Keith Anderson, Donal Finegan, Kelly Shinkaruk (term ended Feb 2019), Heather Hurdle (1 year term started in March 2019), and Desiree Teoh (1 year term started in March 2019). They have identified interest and expertise in thoracic anesthesia. We look forward to working closely, on our many complex and difficult patients, with this dedicated group of anesthetists.

The section continues to promote and support education of our many allied colleagues who care for thoracic surgery patients: nursing, physiotherapy, pharmacy, speech pathology, occupational therapy, and other dedicated groups. Each fall a full lineup of expert speakers present on a dedicated theme to over 100 allied professionals during our Thoracic Education Day. Last year's topic was "All Things Empyema". We look forward to another terrific learning adventure this fall.

Finally, the section is most excited about our OR nursing team. The newest member, Megan Schmidt, has put together an excellent, dedicated, and fun-loving team that support our patients through their most harrowing day. Thanks to Jenna Befus, Anne Cawood, Elyse Kautz, Leah Verburg, Shaina Vicenzino, and Clarice Kulcsar for your time and expertise.

Member Updates

- Dr. Sean Grondin has been designated president-elect for the Society of Thoracic Surgeons for 2020, and this will be the first time this most prestigious position is held by a Canadian. We are all very

proud of Dr. Grondin's achievement. He takes on that new role as he continues to effectively lead the largest surgical department in the country.

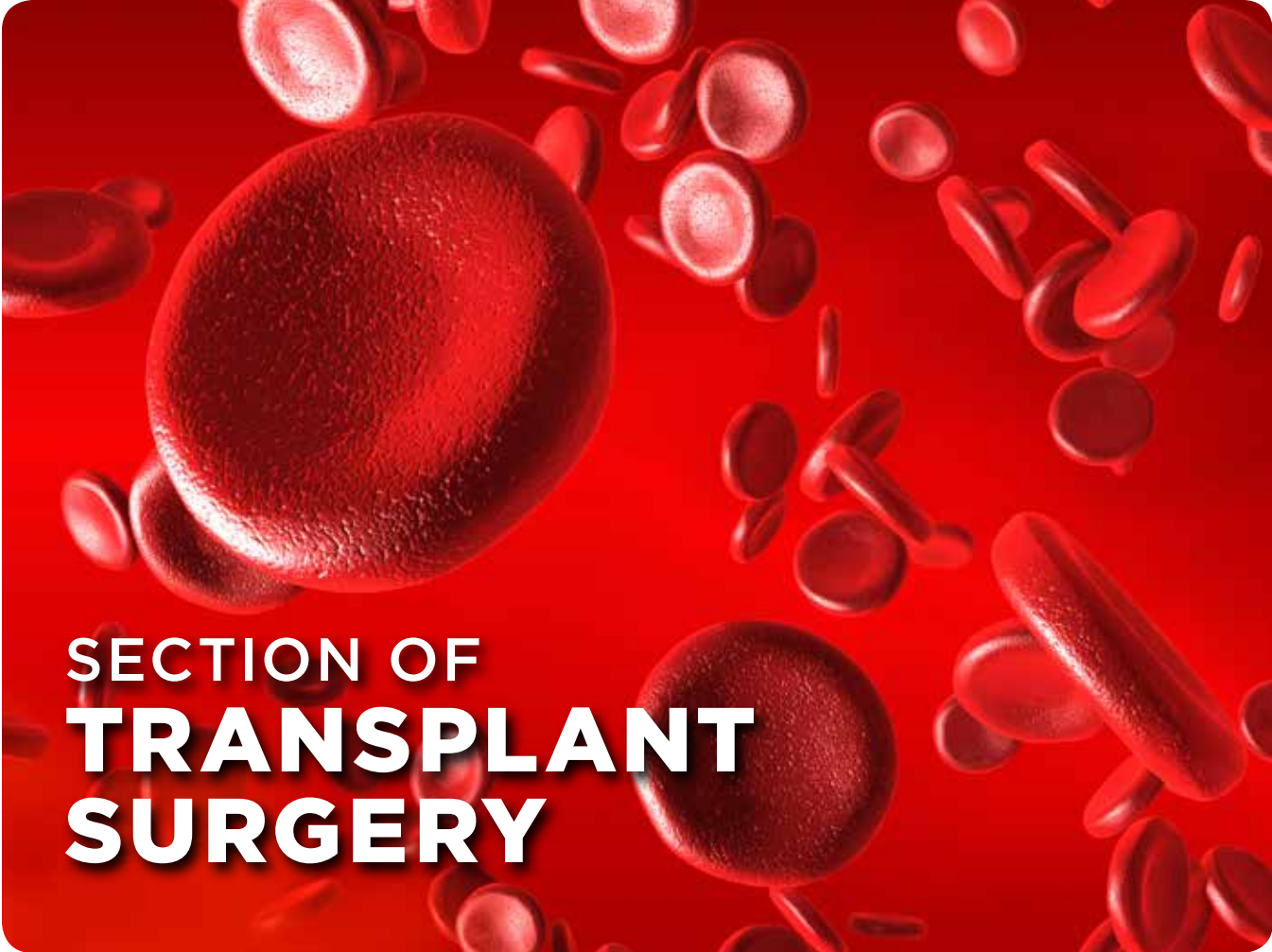
- Dr. Gary Gelfand continues his dedicated work with the Medical Council of Canada to set the LMCC exams, important work requiring much dedication. Gary also works tirelessly with the Alberta College of Physicians and Surgeons, Medical Facilities Accreditation Committee.
- Dr. Andrew Graham continues in his role as Director of the Office of Surgical Quality, tirelessly working to move the work of the department to the highest safety practices based on available data. Andy was the lead author on the publication reporting our discharge summary based MnM reporting: The Evaluation of an Electronic Health Record Structured Discharge Summary to Provide Real-Time Adverse Event Reporting in Thoracic Surgery; Graham, Ghali, Sotiropoulos, Falvi, Lonergan, Southern, McFadden, Ocampo, Wang. BMJ Quality and Safety. In press. The group congratulates Dr. Graham for all his expertise and hard work on this project.
- Dr. Colin Schieman continues his educational work as the program director and as the co-chair of the national thoracic surgery boot camp taking place in July. He is also working on the construction of the inaugural thoracic surgery exam preparation course which will take place this September. On the research front, Dr. Schieman has recently been awarded a generous grant from the Department of Surgery that enables the group to partner in a multicenter randomized controlled trial evaluating the prevention of perioperative trial fibrillation.
- Drs. Schieman and McFadden continue the collaborative work on the Canadian Association of Thoracic Surgeons Best Practices Committee which has released several new guidelines this year. Dr. Schieman is also the Southern Alberta lead on the intra-provincial working group which is working to introduce the novel POEM procedure for achalasia.
- Dr. Janet Edwards continues her work with the Kaizen that was started last year to streamline the patient experience and process from the clinic to the OR. She also continues to lead our undergraduate teaching experience. Janet has recently started in our office manager role and coordinates the many different schedules that control our lives. The changes to date have been well received. Dr. Edwards is also involved this year in organizing and presenting at the World Lung Congress.



Dr. Sean McFadden
Section Chief of Thoracic Surgery

6 *surgeons in the
Calgary Zone*

\$3,909 *the average cost of a
thoroscopic lobectomy*



SECTION OF TRANSPLANT SURGERY

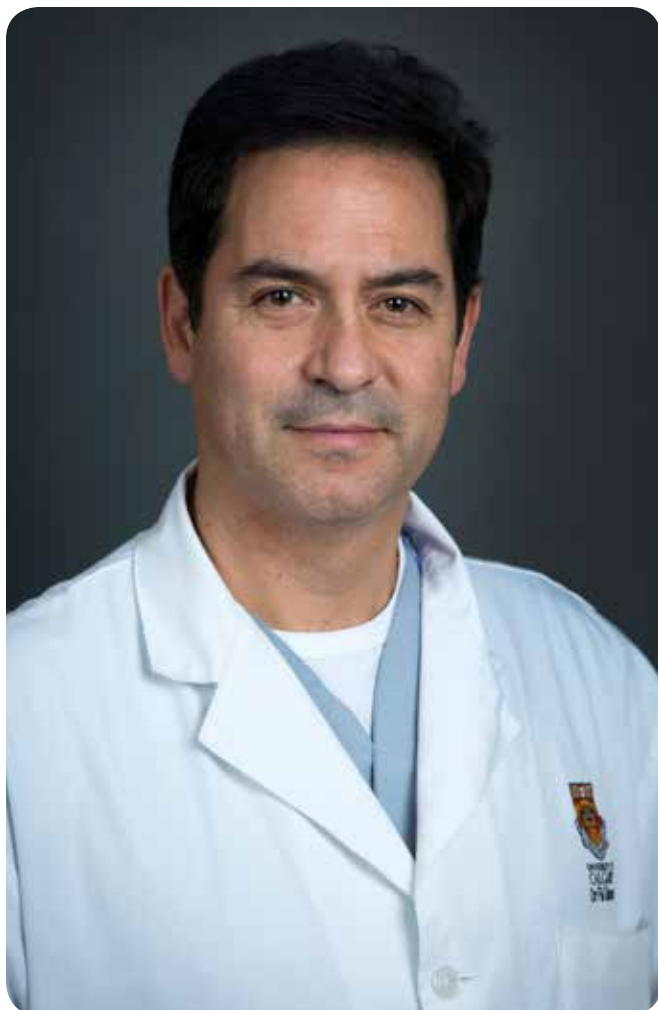
The Section of Transplant Surgery delivers surgery at the Foothills Medical Centre and performs surgeries relating to tissue and organ transplants.

The Section of Transplant Surgery has seen kidney transplant activity steadily grow for the 8th year. The consolidation of donation after cardiac death (DCD) program started in 2017 increased the number of available kidneys for patients with renal failure. We've also seen an increase in the number of living donations performed during the year and extended the opportunity for patients with incompatible donors to obtain kidney transplants through the pair exchange program, both locally and nationally. The section has also had an increase in anonymous donors by creating policies to govern this type of donation.

The non-heart beating donor program operation continues to be successful along with the non-transplant elective surgery booking process with reduced cancellation rates. The section is also continuing to provide the ABO-incompatible kidney transplants.

Our section has also been working towards an initiative where a full formal, professional and accountable model of patient care will be developed in accordance with CPSA guidelines and regulations, Alberta Health Services, and the University of Calgary policies and procedures. This will create a respectful, professional, and ethical environment for section members and a safety-focused model for patient care.

Our goal is to increase transplant activity in Southern Alberta while maintaining the highest quality and safety standards for our patients. To accomplish this goal, more resources are needed to balance the increasing needs within our section, particularly in respect to



3 surgeons in the
Calgary Zone

2-3 weeks after evaluation,
surgeries are performed

98 transplants
performed in 2018

*Dr. Mauricio Monroy-Cuadros
Interim Section Chief of Transplant Surgery*

human resources. We are also restructuring the section to increase efficiency, ensure resources are efficiently used, increase accountability for the members of the section, and increase safety standards for our patients.

Increased efficiency means increased resources for other sections. Therefore, the allocation of specific resources is urgently needed for the section to match clinical needs. We will be working on a clinical alternative funding plan in order to hire more physicians.

We continue to provide rotation on a non-regular basis for medical students elective rotations with the section staff.

The section also continues to train general surgery residents in transplant, vascular access and peritoneal catheter surgeries, immunology, and management of immunosuppression and immunosuppressed patients.

Section members continue to work on various clinical trials as well as theoretical and various research fields.

Member Updates

- Dr. Vantario Taylor is attending a one-year fellowship with the section.
- Dr. Anastasio Salazar is currently on sabbatical working on research entitled: A Mathematical Solution to Peto's Paradox Using Polya's Urn Model: Implications for the Aetiology of Cancer in General.



SECTION OF UROLOGY

The Section of Urology provides surgical services at the Southern Alberta Institute of Urology (SAIU) at the Rockyview General Hospital. The team of 15 adult urologists and three pediatric urologists serves patients at all acute-care sites in Calgary, providing care to individuals with a variety of urological conditions.

We offer specialized programs including the Chronic Kidney Stone Clinic at the South Health Campus (SHC), Vesia (Alberta Bladder Centre) at Southern Alberta Institute of Urology (SAIU), the men's health program at SAIU, and prostate cancer rapid-access clinics at the Prostate Cancer Centre. We value contributions to teaching and research, and as such, our members provide clerkship teaching and supervision.

Two fellowship programs are also run through the section including a fellowship in urologic oncology and a fellowship in reconstructive and functional urology. Members are also involved in a variety of clinical trials and basic-science research.

Our surgeons and staff have worked hard over the past year to continually improve patient care.

Below is a summary of our accomplishments:

- Construction was completed in early spring 2018 on an expanded clinic-area for our men's health program.
- The acute kidney stone clinic, located at South Health Campus Hospital, opened to patients in the fall of 2018.
- Two of our urologists have partnered with the transplant program to provide cadaveric kidney recipient call coverage.
- Our NSQIP team has been working to improve patient care. Over the past year, we have set goals to decrease rates of urinary tract infections and cystectomy lengths-of-stay. Current NSQIP data shows that cystectomy length-of-stay has improved. Our next NSQIP initiative is to decrease the number of patient readmits. We have formed a urology readmissions working group, which meets monthly, to tackle this issue.
- Our section is developing a urology central intake (UCI) program. The UCI program will simplify the referral process, enhance closed-loop communication, reduce administrative burden, and provide patients with timely, specialized care. The project will include hiring intake clerks to handle referrals, a partnership with Specialist LINK to offer tele-advice to family physicians, and links with the Alberta Referral Directory. The UCI will be operational in early 2019.



18 *surgeons in the
Calgary Zone*

51 *research
publications*

1,562 *urology cancer
cases completed
over the past year*

4,252 *urology cases
completed over
the past year*

*Dr. Kevin Carlson
Section Chief of Urology*

Member Updates

- Dr. Greg Kozak was chosen as the Zone Clinical Department Facility Chief, Rockyview General Hospital, Department of Surgery.
- Two of our urologists, Drs. John Dushinski and Martin Duffy, have been involved in international humanitarian work, and have taken their medical skills to under-served populations in Palestine and Guatemala, respectively.
- Dr. Geoffrey Gotto was selected by Avenue Magazine as one of the Top 40 Under 40.
- Dr. Kevin Carlson received the 2018 Award for Surgical Leadership, a distinguished service award from the Department of Surgery and the Rockyview General Hospital Medical Staff Association.
- Drs. Kevin Carlson, Richard Baverstock, and Trafford Crump presented at the Department of Surgery grand rounds.
- Two new urologists have joined our team: Drs. Kamaljit Kaler and Bimal Bhindi. Dr. Kaler specializes in endo-urology. He has taken a leadership role in the section and is overseeing the acute kidney stone clinic and the continuing education and quality assurance rounds. Dr. Bhindi recently completed his urologic oncology fellowship at the Mayo Clinic in Rochester. He comes with a strong research background and will be an asset to the team.

Members of the urology section are actively involved in research in the areas of prostate, bladder, and kidney cancers as well as urinary incontinence. Our work includes basic science research, translational work, and pharmaceutical studies.

Our team is also involved in seven interventional trials for the treatment of prostate cancer. We are also beginning a study to examine patterns of treatment and management of patients with advanced prostate cancer.

Vesia [Alberta Bladder Centre] continues to develop its independently-funded research program that is focused on the delivery of care and outcomes for lower urinary tract symptoms.

Over the course of the past year, Vesia's research team worked on several independent, grant-funded studies including the following:

- Measuring the relationship between overactive bladder symptoms and prostate cancer treatment. This study is funded by Prostate Cancer Canada's Movember Discovery grant.
- Studying the effectiveness of Botox treatment for elderly patients with overactive bladder.
- Measuring the effectiveness of a web-based, patient-reported-outcomes application for improving medical decisions, patient experiences and clinician and patient satisfaction.



SECTION OF VASCULAR SURGERY

The Section of Vascular Surgery sees outpatients and provides elective surgery for aneurysms, extra-cranial carotid disease, peripheral vascular disease, and lymphatic disease at the Peter Lougheed Centre. We also provide vascular emergency and trauma services at all sites in Calgary. Our section participates in multicentre, multi-national clinical, and FDA trials.

Member Updates

- Dr. Maher Sabalbal received second prize at the annual surgeons day in Calgary.
- Dr. Kenton Rommens received a \$40,000 Helios Scholarship and is currently doing a one-year fellowship in Advanced Aortic Surgery at the Texas Medical Centre. Dr. Rommens will return to Calgary in the fall of 2019.
- Dr. Paul Cantle has a dual appointment in trauma and vascular surgery and has a very visible role in education including Course Director for ATLS. He was faculty for the first Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA) course offered in Canada, and he has arranged and will be faculty for the first Western Canadian REBOA course in Calgary. Dr. Cantle is also faculty on the Advanced Trauma Operative Management (ATOM) course hosted in Calgary.
- Dr. Mark Nutley has been active in local and national clinical and basic science research. Many of our residents have been involved in Dr. Nutley's research projects at local, regional, and national meetings. Their paper, A Prospective Cohort Study of a Same Day Discharge Percutaneous Endovascular Aneurysm Repair Pathway, was presented at the CSVS meeting in Montreal in September 2018, and it is awaiting publication. Dr. Nutley is an active and contributing member of the Canadian Society for Vascular Surgery Research Group.
- Dr. Jeff Clark continues his strong leadership in his role as director of both the Direct Entry Vascular Residency Program and the 5 and 2 Vascular Fellowship Program at the University of Calgary. Dr. Clark's multidisciplinary team received accolades from the College of Physicians and Surgeons of Alberta after they received a "rare glowing letter of patient experience." This improved "patient experience" could not have been possible without the multidisciplinary clinic envisioned and championed by Dr. Paul Petrasek.



8 *surgeons in the
Calgary Zone*

10,000 *patients will be seen in
the ambulatory clinic
for the first time in 2019*

*Dr. Gregory Samis
Section Chief of Vascular Surgery*

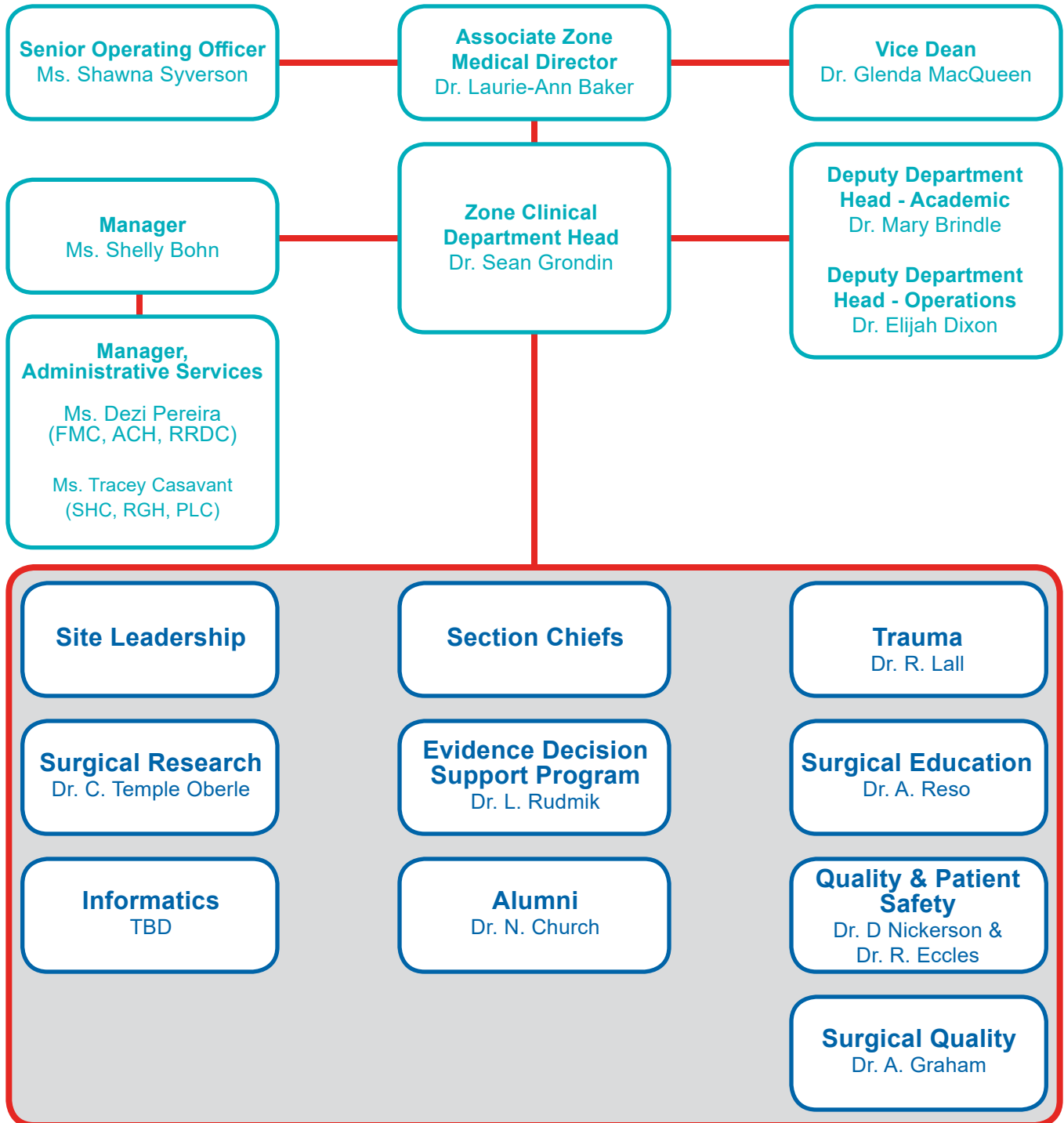
- Dr. Petrasek continues his leadership in the role of Section President for Vascular Surgery at the Alberta Medical Association.
- Dr. Petrasek also represents vascular surgery at the Surgical SCN. His leadership roles extend to our Canadian Society of Vascular Surgery where he sits on the Executive Committee.
- Dr. Randy Moore presented at regional, national, and international meetings including the "Houston Aortic Surgery Symposium." Dr. Moore has a dual appointment in the Department of Surgery and the Schulich School of Engineering. His multidisciplinary team includes Dr. Kristina Rinker from BioMedical Engineering and Dr. Eleana DiMastino whose expertise is Computational Fluid Dynamics. The team received a \$500,000 grant to help establish a bio-hub initiative, spearheaded by the University of Calgary, to stimulate entrepreneurial biotechnology development projects in Alberta. Dr. Moore has articles recently accepted for publication in high impact journals.
- Dr. Marie France Guimond continues in her leadership role as the Royal College Chair of the exam committee through two consecutive mandates: constant efforts to align with Royal College standards and

fast evolving specialty. She has also facilitated the transition of examination to allow both (5+2) as well as primary entry candidates (5+0) as the specialty went through significant curriculum changes. We're now preparing for the next coming transition when CBD trained candidates receive certification.

- Dr. Guimond has been involved with the Physician Leadership Institute (PLI) since arriving in Alberta. He's held a combination of designated roles including Ombudsman for residents with a genuine interest in the multidisciplinary practice involving multiple professional parties. He has been promoting physician wellness and gender equity in the medical practice, culminating in the creation of a Peter Lougheed Centre (PLC) course and workshop.

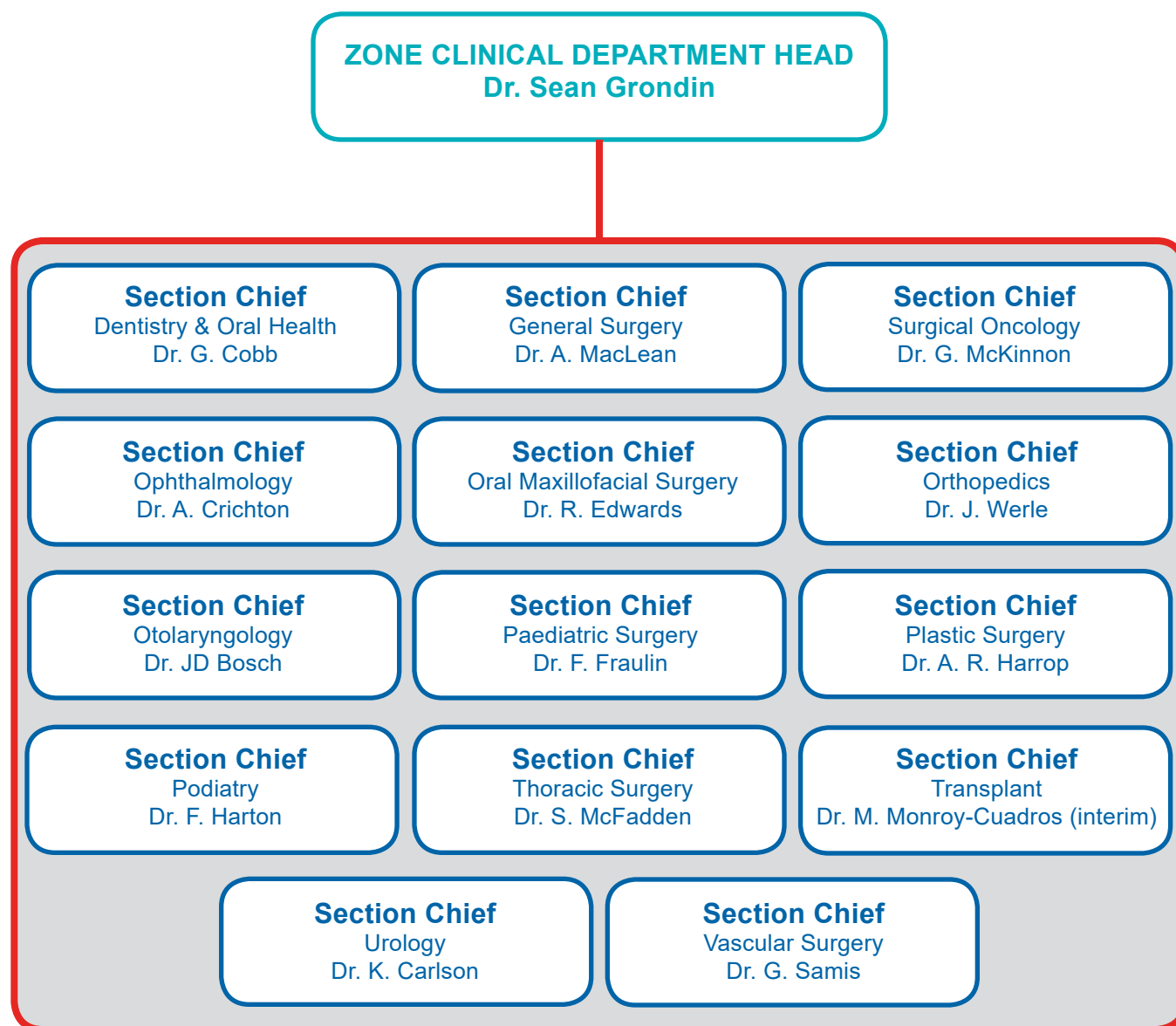
LEADERSHIP

DEPARTMENT OF SURGERY



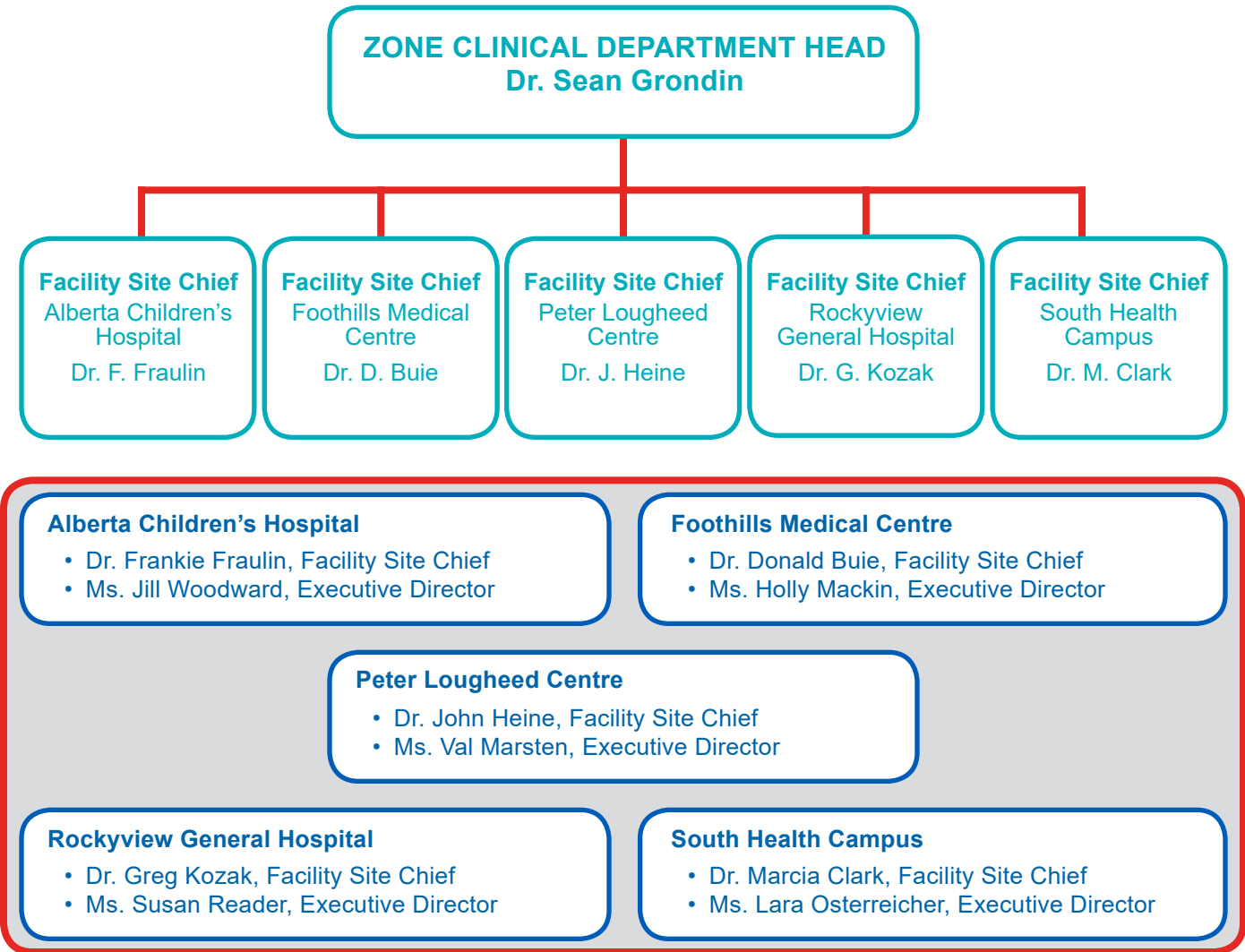
SECTION CHIEFS

DEPARTMENT OF SURGERY

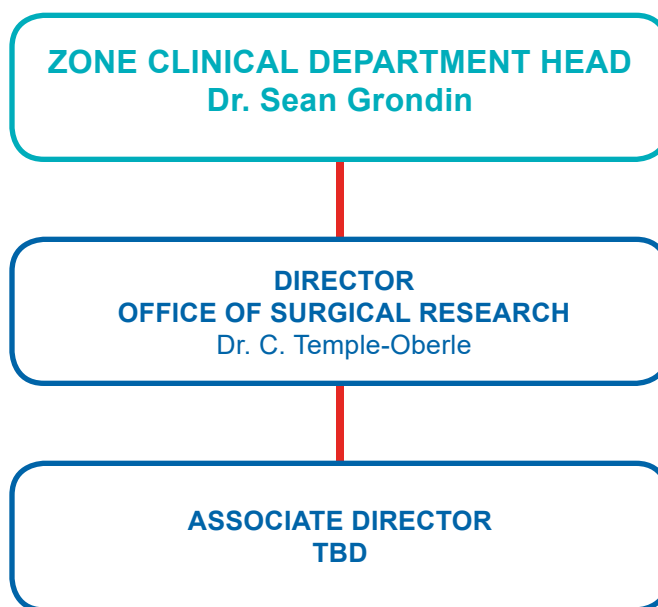


SITE LEADERSHIP

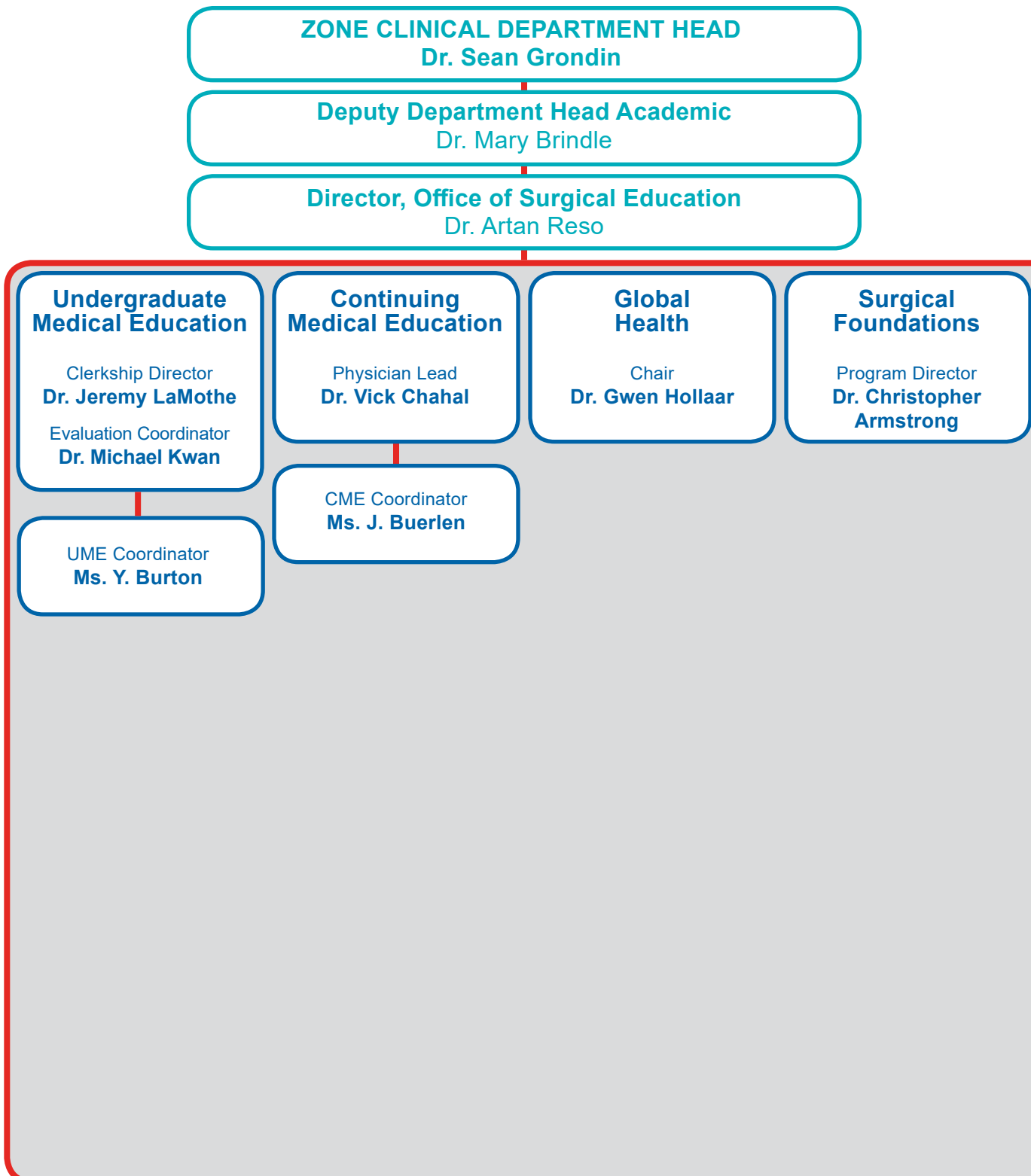
DEPARTMENT OF SURGERY



SURGICAL RESEARCH DEPARTMENT OF SURGERY



SURGICAL EDUCATION DEPARTMENT OF SURGERY



Post Graduate Surgical Training Committee

Chair
Dr. Lloyd Mack

Residency Program	Program Director
Colorectal Surgery	Dr. W. Donald Buie
Dentistry and Oral Health	Dr. Graham Cobb
General Surgery	Dr. Indraneel Datta
Ophthalmology	Dr. Chris Hanson
Orthopaedic Surgery	Dr. Ian Le
Otolaryngology	Dr. James Brookes
Paediatric General Surgery	Dr. Steve Lopushinsky
Plastic Surgery	Dr. Duncan Nickerson
General Surgical Oncology	Dr. Lloyd Mack
Thoracic Surgery	Dr. Colin Schieman
Vascular Surgery	Dr. Jeff Clark

Office of Surgical Fellowship

Director
Dr. Amin Kherani

Fellowship Program	Program Director
Gen. Surgery - Core	Dr. Indraneel Datta
Gen. Surgery - Endocrine	Dr. Adrian Harvey
Gen. Surgery - HPB	Dr. Chad Ball
Gen. Surgery - Transplant	Dr. Mauricio Monroy-Cuadros
Gen. Surgery - Trauma	Dr. Paul McBeth
Gen. Surgery - Upper GI	Dr. Neal Church
Ocular Oncology	Dr. Ezekiel Weis
Ophthalmology - Glaucoma	Dr. Patrick Gooi
Ophthalmology - Oculoplastics	Dr. Karim Punja
Ophthalmology - Retina	Dr. Amin Kherani
Ophthalmology - Retina	Dr. Geoff Williams
Orthopaedic - Arthroplasty (Joint Reconstruction)	Dr. James Powell
Orthopaedic - Arthroscopic/ Banff Sport Medicine	Dr. Mark Heard
Orthopaedic - Upper Extremity	Dr. Ian Lo

Fellowship Program	Program Director
Orthopaedic - Combined Orthopaedic & Neuro-Surgery Spine	Dr. Fred Nicholls
Orthopaedic - Foot & Ankle	Dr. Jeremy LaMothe
Orthopaedic - Hand & Wrist	Dr. Gurpreet Dhaliwal
Orthopaedic - Paediatric Spine	Dr. Fabio Ferri-de-Barros
Orthopaedic - Trauma	Dr. Robert Korley
Plastic Surgery - Hand, Wrist & Peripheral Nerve	Dr. Justin Yeung
Plastic Surgery - Microsurgery	Dr. Christiaan Schrag
Plastic Surgery - Oncology	Dr. Claire Temple-Oberle
Urology - Oncology	Dr. Eric Hyndman
Urology - Oncology	Dr. Geoffrey Gotto
Urology - Paediatrics	Dr. Bryce Weber
Urology - VESIA/ Reconstructive & Functional Urology	Dr. Richard Baverstock Dr. Kevin Carlson

PROMOTIONS

2017

Jeffrey A. Clark, Clinical Assistant Professor
Michael P. Fielden, Clinical Associate Professor
Geoffrey T. Gotto, Clinical Associate Professor
Justin E.M. LeBlanc, Clinical Assistant Professor
Jay C. Lee, Clinical Associate Professor
Peter D. Lewkonja, Clinical Associate Professor
Chirag Shah, Clinical Assistant Professor
M. Alexandra Soroceanu, Clinical Associate Professor
Tom Wierzbicki, Clinical Assistant Professor
Jonathan Y. Wong, Clinical Assistant Professor

2018

Christopher S. Armstrong, Clinical Assistant Professor
Eldridge D. Batuyong, Clinical Assistant Professor
J. Doug Bosch, Clinical Associate Professor
Antoine Bouchard-Fortier, Clinical Assistant Professor
Shamir Chandarana, Clinical Associate Professor
Bryce A. Ford, Clinical Associate Professor
Gary A.J. Gelfand, Clinical Associate Professor
Simon G. Goldstein, Clinical Associate Professor
Patrick Gooi, Clinical Assistant Professor
Christopher P. Hanson, Clinical Assistant Professor
Francois M. Harton, Clinical Assistant Professor
S. Mark A. Heard, Clinical Associate Professor
Laurie A. Hiemstra, Clinical Associate Professor
Michael Kwan, Clinical Assistant Professor
Derrick R. Randall, Clinical Assistant Professor
Jason R. Werle, Clinical Professor
Neil J. White, Clinical Assistant Professor

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