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**UNIVERSITY OF BRITISH COLUMBIA**
**DEPARTMENT OF MEDICINE**
Annual Report 2015 | 2016

**Dr. Graydon S. Meneilly, MD, FRCPC, MACP**
Professor and Eric W. Hamber Chair
Head, UBC Department of Medicine
Physician-in-Chief & Head,
Department of Medicine
Vancouver Hospital

**Contributors**
Division Heads and Administrators
Program Directors and Managers
Department of Medicine Administrative Staff
OVERVIEW
HEADS AND DIRECTORS

Department Heads

• Dr. Graydon S. Meneilly, MD, FRCPC, MACP, Professor and Eric W. Hamber Chair, Head, Department of Medicine, University of British Columbia, Physician-in-Chief & Head, Department of Medicine, Vancouver Acute Services Regional Department Head, Vancouver Coastal Health and Providence Health Care

• Dr. S. F. Paul Man, MD, FRCPC Chair, Department of Medicine Providence Health Care

UBC Associate Heads

• Associate Head of Medicine - Dr. Stephen Nantel, Vancouver Acute
• Associate Head of Medicine - Dr. S. F. Paul Man, Providence Health Care
• Associate Head, Research - Dr. Teresa Tsang,
• Associate Head, Education (as of September 1, 2015) - Dr. Andrea Townson
• Associate Head, Academic Affairs (as of September 15, 2015) - Dr. Diane Lacaille

Educational Program Directors

• Clinical Investigator Program - Dr. Anita Palepu
• Graduate Studies Program in Experimental Medicine - Dr. Vince Duronio
• Postgraduate Education Program - Dr. J. Mark Roberts
• Undergraduate Education Program - Dr. Winson Cheung

• Director, Educational Research & Scholarship - Dr. Kevin Eva

UBC Division Heads

• AIDS - Dr. Julio Montaner
• Allergy & Immunology - Dr. Robert Schellenberg
• Cardiology - Dr. Andrew Krahn
• Community Internal Medicine - Dr. Barry Kassen
• Critical Care Medicine - Dr. Najib Ayas
• Endocrinology - Dr. Ehud Ur
• Gastroenterology - Dr. Eric Yoshida, Dr. Robert Enns (as of March 1, 2015)
• General Internal Medicine - Dr. Barry Kassen, Dr. Anita Palepu (as of September 1, 2015)
• Geriatric Medicine - Dr. Janet Kow
• Hematology - Dr. Stephen Nantel
• Infectious Diseases - Dr. Peter Phillips
• Medical Oncology - Dr. Karen Gelmon
• Nephrology - Dr. Adeera Levin
• Neurology - Dr. Jon Stoessl
• Palliative Care - Dr. Pippa Hawley
• Physical Medicine & Rehabilitation - Dr. Andrea Townson, Dr. Jennifer Yao (as of April 1, 2016)
• Respiratory Medicine - Dr. J. Mark FitzGerald, Dr. Jeremy Road (as of December 1, 2016)
• Rheumatology - Dr. Kamran Shojania
COMMITTEES

UBC Undergraduate Education Committee (UEC)

Chair:
• Dr. Winson Cheung

Members:
VFMP
• Dr. J Yao
• Dr. J Kow
• Dr. W Cheung
• Dr. H Nagi
• Dr. D Rosenbaum
• Dr. D Shu
• Dr. M Chapman
• Dr. A Townson

IMP
• Dr. J Spence

NMP
• Dr. S Olsen

SMP
• Dr. G McCauley
• Dr. C Holmes
• Dr. J Calder
• Dr. A Barton
• Dr. T Smith
• Dr. C Hume
• Dr. V Chaubey
• Dr. D Fort
• Dr. J Rai

Student Representatives 2016 - 2017:
VFMP
• Miles Marchand (Year 3)

IMP
• Ben Cox (Year 4)

SMP
• Marc Jutras (Year 3)

NMP
• No student rep

Administrative Support:
• Kathy Standeven
• Paola Martens
• Sarin Amram
• Jelena Grabeljsek
• Nancy Blatchford
• Sherol Cunningham
• Lynne Fisher
• Elana Richard
• Jennifer Young
• Denise Marcotte
• Carol Brown
• Elaine Potoski
• Kyla Shaw
• Michelle Carmichael
• Erin Dueck

Function:
The Internal Medicine Undergraduate Education Committee (UEC) is a standing committee responsible for planning, implementing, and evaluating the Year 3 Internal Medicine clerkship rotation and Year 4 electives across all four sites: Island Medical Program (IMP), Northern Medical Program (NMP), Southern Medical Program (SMP) and the Vancouver Fraser Medical Program (VFMP).

The Committee is chaired by the Undergraduate Program Director and membership is comprised of Associate Directors, Discipline Specific Site Leads, faculty representatives from each distributed site, students from each year at each distributed site, and several non-voting members including the Head of Medicine and several representatives from each of the distributed sites.

The committee meets every 4 to 6 weeks or as required.

Reports To:
Department Head, UBC Department of Medicine; Associate Head, Education, UBC Department of Medicine; the MD Undergraduate Year 3 & 4 Subcommittee; and the Student Promotion Review Board.
UBC Residency Training Committee

The Internal Medicine Residency Training Committee is responsible for all aspects of the Postgraduate Training Program in internal medicine in the Department of Medicine. This responsibility is delegated from the UBC Faculty of Medicine through the office of the Postgraduate Dean. Specific responsibilities include selection, evaluation, and promotion of residents, as well as provision of an educational program that meets the standards of the RCPSC or CFPC.

The Committee strives to supervise and provide leadership in all aspects of Postgraduate Clinical Education in the specialty of internal medicine within the UBC Faculty of Medicine and its affiliated teaching hospitals. The Committee meets monthly or as required. The RTC is chaired by the Program Director and membership is comprised of faculty members from the divisions, residents from each year of the program, and administrative staff.

UBC Mentoring Advisory Committee

Chair:
- Dr. John Cairns

Members:
- Dr. SF Paul Man
- Dr. J Mancini
- Dr. A Palepu
- Dr. N Reiner

Administrative Support
- Jane Zhang
- Sabina Fitzsimmons

Reports to:
Department Head

Functions:
The Mentoring Advisory Committee has overall responsibility for the Department of Medicine Mentoring Program, which operates within and is complementary to the Faculty of Medicine Mentoring Program. The Committee liaises with the Department Executive Committee and the Promotion and Tenure Committee as needed. The Committee members serve as an advisory group to the Committee chair and assist the chair as requested, in Program development and management.

The chair of the Mentoring Committee works closely with the Department Head to ensure that effective mentoring relationships are established and maintained for every new tenure track and grant tenure track department member from the time of their appointment through to their achievement of tenure and promotion to associate professor. The Committee ensures that every mentor-mentee relationship is documented and is functioning satisfactorily, and if not, that a new mentor is appointed.

The Department Mentoring Program was established by Dr. Norman Wong in January 2005. Dr. John Cairns assumed the role of Director in July 2010. The mentoring Committee has worked hard to interpret the findings of the Department Research Task Force, and to implement changes to sustain and strengthen the Mentoring Program.

The program website has been much improved and made readily accessible. All materials needed to support mentors and mentees are available on the Department website, and documentation is now possible without the creation, storage or transmission of paper documents.

At the beginning of academic year 2014-15, there were 25 mentor-mentee pairs in the program, 1 of whom dropped out and 1 resigned the appointment leaving 23 at June 30, 2015. As of the beginning of academic year 2015-16, 2 individuals had achieved promotion and tenure, and 3 more mentor-mentee pairs were established for a net of 24 pairs in the program.

Every mentor-mentee relationship has been reviewed and where necessary, rejuvenated, sometimes with the appointment of a new mentor. We endeavour to ensure that a mentor is agreed upon by the date of completion of the recruitment process so that the relationship can begin soon after the commencement of the appointment. Ongoing, regular review and assessment of the Program occurs with the intent to implement change as needed.
The Department of Medicine created a Recruitment and Resources Committee to oversee future academic faculty recruitments within the Department and to ensure that the recruitments follow the Department’s strategic recruitment direction, that appropriate resources are available, and that recruitments comply with the University’s equity policies. The Committee also reviews the progress of new recruits at 6 months, 1 year, and 2 years after they have begun their appointments to ensure that the recruits are on track for future success. This has resulted in a more efficient academic faculty recruitment process, and allows better strategic planning for recruitments within the Department. A representative from the Department’s Equity Committee also attends each meeting.
This dedicated group of committed Departmental members is charged with facilitating the career advancement of our members while upholding consistent and rigorous standards as set out by UBC. As usual, this Committee invested a great deal of thoughtful energy to support the additions and promotions listed below. We are very proud of the following:

### New Faculty Appointments

**Clinical Dates between January 1, 2015 and December 31, 2016**

**Clinical Instructor**

- Afra, Kevin - Infectious Diseases
- Ballard, Mark S - Community Internal Medicine
- Baxter, Simon Daniel - Medical Oncology
- Blair, Heather Jane - Community Internal Medicine
- Brar, Harinderpal Singh - Critical Care
- Bunn, Shannon S E - Palliative Care
- Campsall, Paul - Community Internal Medicine
- Cessford, Tara Anne - Community Internal Medicine
- Chan, Nathan - Community Internal Medicine
- Chan, Vicky Wing Kay - Hematology
- Choi, Mark - Community Internal Medicine
- Chou, Annie - Cardiology
- Clarke, Kaethe - Medical Oncology
- Colwill, Anne Marie - Rheumatology
- Davidson, Niall - Neurology
- Davidson, Ross A - Physical Medicine & Rehabilitation
- Dehghan, Natasha Shaghayegh - Rheumatology
- Dominelli, Giulio S - Respiratory Medicine
- Dommann, Steven Clive - Neurology
- Drouin, Olivier Joseph - Community Internal Medicine
- Evaschesen, Chad - Gastroenterology
- Foley, Jacqueline - Physical Medicine & Rehabilitation
• Chahal, Chamanpreet - Neurology
• Chan, Jonathan - Rheumatology
• Chaubey, Vikas - Critical Care
• Chow, Stephen - Cardiology
• Cowan, Simone Suzanne - Cardiology
• Cruz Pereira, Oscar Octavio - Gastroenterology
• Dallaire, Marie-Pierre - General Internal Medicine
• Dance, Derry Lawrence - Physical Medicine & Rehabilitation
• Dulay, Daisy - Cardiology
• Feng, Xiaolan - Medical Oncology
• Fordyce, Christopher - Cardiology
• Frykman, Hans - Neurology
• Giustino, Giuseppe - Respiratory Medicine
• Grennan, Jonathan Troy - Infectious Diseases
• Gusbi, Osama A. - Cardiology
• Hawkins, Nathaniel - Cardiology
• Hrebicek, Olinka - Neurology
• Hui, Eric - Physical Medicine & Rehabilitation
• Jen, Rachel - Respiratory Medicine
• Kaila, Kendeep Singh - Cardiology
• Kawai, Sarah L - Neurology
• Kaviani, Mandana - Allergy and Immunology
• Keyvani, Leila - Gastroenterology
• Khosla, Amit - Cardiology
• Kula, Matthew - Neurology
• Kumar, Aalok - Medical Oncology
• Kyskan, Robert - Respiratory Medicine
• Laksmann, Zachary - Cardiology
• Lam, Mindy - Gastroenterology
• Lan, James - Nephrology
• Le Nobel, John - Physical Medicine & Rehabilitation
• Lee, Kingsley - Allergy and Immunology
• Leung, Janice Margaret - Respiratory Medicine
• Loomes, Dustin - Gastroenterology
• Maclsaac, Julia Kirsten - Community Internal Medicine
• Mariano, Caroline - Medical Oncology
• McArdle, Brian - Community Internal Medicine
• McKinney, James - Cardiology
• Metcalf, Corey - Medical Oncology
• Mullins, Paul - Gastroenterology
• Mullins, Paul - Gastroenterology
• Nazera|li-Sunderji, Morgiana Muni - Community Internal Medicine
• Nazir Maitland, Alasdair - Critical Care
• Noonan, Krista - Medical Oncology
• Parton, David Edward - Neurology
• Peterson, Erica - Hematology
• Rai, Jasjeet - Community Internal Medicine
• Ridley, Julia - Palliative Care
• Rydz, David - Neurology
• Sanford, David - Hematology
• Schachter, Michael - Nephrology
• Scott, James Lachlan - Neurology
• Sekhon, Mypinder - Critical Care
• Shaikh, Mohammed Asif - Medical Oncology
• Shetty, Karan - Cardiology
• Shustik, Jesse - Medical Oncology
• Skanthan, Sifthamparanathan - Geriatric Medicine
• Srikanthan, Amrithra - Medical Oncology
• Staples, John - General Internal Medicine
• Stewart, Jacqueline - Rheumatology
• Steyn, Jacobus - Medicine Department
• Stigant, Caroline E - Nephrology
• Sulpher, Jeffrey Allen - Medical Oncology
• Tessaro, James Anthony - General Internal Medicine
• Tynan, Iain - Community Internal Medicine
• Valerio, Jason - Neurology
• Vu, Viet - Physical Medicine & Rehabilitation
• Vuurmans, Johannes Lucius Tycho - Cardiology
• Wadhwa, Deepa - Medical Oncology
• Wik, Lori Mae - Community Internal Medicine
• Wile, Daryl Jason - Neurology
• Wilson, Laura Kathryn - Neurology
• Xing, He - Medical Oncology
• Yeung, James - Rheumatology
Clinical Associate Professor
- Barwich, Doris Beria Adeline - Palliative Care
- Bergeron, Celine - Respiratory Medicine
- Dipboye, Larry Keith - Medicine Department
- Hilliard, Neil K. - Palliative Care
- Massel, David Richard - Cardiology
- McGregor, Douglas - Palliative Care
- Moien Afshari, Farzad - Neurology
- Reid, John - Respiratory Medicine

Clinical Professor
- McDermid, Robert - Critical Care

Assistant Professor
- Brunham, Liam - General Internal Medicine
- Hirota, Jeremy - Respiratory Medicine
- Kolind, Shannon - Neurology

Assistant Professor, without review
- Kalyan, Shirin - Endocrinology

Assistant Professor, Partner
- Fairbairn, Nadia - AIDS
- Gerrie, Alina - Hematology
- Joy, Jeffrey - AIDS
- McNeil, Ryan - AIDS
- Robbins, Marjorie - AIDS
- Tanimura, Kanna - AIDS
- Ti, Lianping - AIDS

Professor
- Kelleher, Dermot - Gastroenterology

Professor, Partner
- Moore, Malcolm - Medical Oncology

Faculty Promotions

Effective July 1, 2015

Clinical Assistant Professor
- Bogod, Nick - Neurology
- Chan, Theresa - Medical Oncology
- Gabana, Cori - General Internal Medicine
- Hadi, Haidar - Cardiology
- Johal, Balvindar - Medical Oncology
- Kenyon, Michael - Community Internal Medicine
- Nagi, Harpinder Singh - General Internal Medicine
- Tam, Penny - General Internal Medicine
- Weerasinghe, Chandana - General Internal Medicine
- Winston, Paul - Physical Medicine & Rehabilitation

Clinical Associate Professor
- Abou Mourad, Yasser - Hematology
- Bernstein, Vanessa - Medical Oncology
- Bressler, Brian - Gastroenterology
- Chapman, Kristine - Neurology
- Hull, Mark - AIDS
- Johnston, Olwyn - Nephrology
- Kow, Janet - Geriatrics
- Lee, Ursula - Medical Oncology
- Martin, Lee Ann - Medical Oncology
- Miller, David - Endocrinology & Metabolism
- Nair, Parvathy - Cardiology
- Neufeld, Peter - Nephrology
- Ramadan, Khaled - Hematology
- Virani, Sean - Cardiology
- Yao, Jennifer - Physical Medicine & Rehabilitation

Clinical Professor
- Townson, Andrea - Physical Medicine & Rehabilitation
- Telford, Jennifer - Gastroenterology
- Kelsall, John - Rheumatology
• Sirrs, Sandra - Endocrinology
• Telford, Jennifer - Gastroenterology
• Kelsall, John - Rheumatology

**Associate Professor**
- Boyd, John - Critical Care
- Gill, Jagbir - Nephrology

**Associate Professor, Partner**
- Cheung, Winson - Medical Oncology

**Professor**
- Kerr, Thomas - AIDS
- Khan, Nadia - General Internal Medicine
- Steiner, Ted - Infectious Diseases

*Effective July 1, 2016*

**Clinical Assistant Professor**
- Chapman, Michael - Infectious Diseases
- Liao, Joy - Geriatric Medicine
- McCormick, Iain - General Internal Medicine
- Tan, Ann - Medical Oncology
- Yu, Jaime - Physical Medicine & Rehabilitation

**Clinical Associate Professor**
- Collins, David - Rheumatology
- Cummins, Nora - Community Internal Medicine
- Ellard, Susan - Medical Oncology Division
- Grewal, Jasmine - Cardiology Division
- Hart, Jason - Medical Oncology Division
- Maung, Tun Zan - Community Internal Medicine
- Taylor, Carolyn - Cardiology
- Taylor, Marianne - Medical Oncology

**Clinical Professor**
- Baillie, Hector - General Internal Medicine

• Sehn, Laurie - Medical Oncology
• Shenkier, Tamara - Medical Oncology

**Associate Professor**
- Avina-Zubieta, Juan Antonio - Rheumatology
- Ryerson, Christopher - Respiratory Medicine

**Associate Professor, Partner**
- Lima, Viviane - AIDS

**Professor**
- Gill, Sharlene - Medical Oncology

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**Academic Faculty Reappointments**

*Effective July 1, 2015*

**Assistant Professor**
- Cook, Victoria - Respiratory Medicine
- Sadatsafavi, Mohsen - Respiratory Medicine

**Assistant Professor, Partner**
- Poon, Art - AIDS
- Renouf, Daniel - Medical Oncology

*Effective July 1, 2016*

**Assistant Professor**
- Cresswell, Silke - Neurology
- Pettersen, Jacqueline - Neurology

**Assistant Professor, Partner**
- Barbour, Sean - Nephrology
- Henderson, William - Critical Care

**Professor, Partner**
- Gelmon, Karen - Medical Oncology
Dr. Dermot Kelleher named Dean, Faculty of Medicine and is appointed to the Department of Medicine in the Division of Gastroenterology.

ACCADA Conference Vancouver
The Association of Canadian Clinical Academic Department Administrators (ACCADA) conference was held October 5-7, 2015 in Vancouver and organized by the Departments of Medicine, Psychiatry, Surgery, Pediatrics, Anesthesiology, Pharmacology, and Therapeutics. ACCADA is dedicated to the improvement of the administration of Canadian Medical Schools and their clinical departments through professional development.

Division Reviews
Neurology – 2015
Respiratory Medicine – 2016

FOM Distributed Academic Rounds Initiative January 2015
The Department joined the initiative. BC Rounds Calendar is managed by UBC CPD. This searchable online calendar lists all Grand Rounds sessions across multiple departments.

VC Anywhere (WebEx) is managed by MedIT. It is an interactive web conferencing tool which allows users to connect to Grand Rounds from their laptop, smartphone or tablet.

Med Video on Demand – managed by MedIT, is a secure repository for Grand Rounds video recordings which allows them to be embedded and viewed remotely.

Women in Medicine Workshop November 2015
“The Sandwich Generation: Medical Women Caring for Elderly Parents” presented by Dr. Janet Kow and Ms. Eve Lyon.

Annual Faculty & Staff Recognition Awards June 17, 2015
Hardwick Hall, Medical Student & Alumni Centre
Speaker: Dr. Adam Peets – Curriculum Renewal

June 20, 2016
Hardwick Hall, Medical Student & Alumni Centre
Speaker: Dr. Vince Duronio – Experimental Medicine Program Update
Speaker: Leanne Denis – Fundraising in the Department of Medicine

Human Resources
New Division Heads and Associate Heads
New Division Heads were recruited:
Division of General Internal Medicine (Dr. Anita Palepu- 2015), Division of Gastroenterology (Dr. Robert Enns - 2015), Division of Physical Medicine and Rehabilitation (Dr. Jennifer Yao - 2015) Division of Respiratory Medicine (Dr. Jeremy Road - 2016). Dr. Andrea Townson was recruited to the role of Associate Head, Education (2015) and Dr. Diane Lacaille was recruited to the role of Associate Head, Academic Affairs (2015).

New Tenure Stream and Partner Faculty
Dr. Shannon Kolind was appointed to the rank of Assistant Professor, Grant Tenure Track in the Division of Neurology. Dr. Kanna Tanimura, Dr. Marjorie Robbins, and Dr. Jeffrey Joy were appointed to the rank of Assistant Professor (Partner) in the Division of AIDS. Dr. Alina Gerrie was appointed to the rank of Assistant Professor (Partner) in the Division of Hematology. Dr. Malcolm Moore was appointed to the rank of Assistant Professor (Partner) in the Division of Medical Oncology.

Dr. Dermot Kelleher was appointed Dean of the Faculty of Medicine and Professor with Tenure in the Division of Gastroenterology.

New Staff in the Main Administration Office
Jeanne Valencia and Adriana Villegas joined the Department of Medicine Education office as Senior Program Assistants. Blaine Raven joined the Department of Medicine as an HR Assistant.
RESEARCH
Research

Highlights of the Year

• 11 Canada Research Chairs and 11 professorships
• DOM faculty secured $53.1M of research funding in 2015 and $58.1M in 2016
• DOM faculty published over 1100 papers per year in 2015 and 2016, with over 400 faculty members actively publishing each year
• DOM research is highly impactful; the average Field Weighted Citation Index is 3.01 for papers published in 2015 and 2016, with an average citation count of 15 per paper. Over 30% of DOM’s publications are in the top 10% most cited worldwide.
• 5th and 6th Annual Department of Medicine Research Expos hosted in 2015 and 2016 respectively
• Over 800 active human ethics applications and over 50 animal care studies underway in the department.

Research

The Department of Medicine Research Office was created in 2011 as a direct result of the 2009 Research Task Force, and 2010 External Review. In both reviews a series of key recommendations were put forward signifying the need for the establishment of centralized infrastructure to support researchers in the department. The Research Office is comprised of the Associate Head Research, Teresa Tsang, the Research Coordinator, Dr. Jody Swift, and is supported by the standing Research Advisory Committee (RAC). The goal of this office is to support and advance research scholarship and innovation in the Department of Medicine through implementation of necessary infrastructure to enhance success across the department.

The Department of Medicine is the largest department within the Faculty of Medicine, and a major research force at UBC, with active projects spanning the breadth of health research across all 4 CIHR themes. Research funding secured by the department has grown steadily from $41M in 2011 to $58M in 2016. This figure represents almost 20% of research funding in the Faculty of Medicine, and over 10% of UBC’s total research funding. Our members are recognized global leaders in the fields of AIDS, pulmonary disease and COPD, heart and lung health, spinal cord injury, multiple sclerosis, asthma, aortic valve implantation, arthritis, and nephrology.

The Department of Medicine is the proud home of many of UBC’s top researchers, who collaborate extensively with, or work within, over 30 different hospitals, research centres, and institutions across BC, including: the BC Centre for Excellence in HIV/AIDS; James Hogg Centre for Cardiovascular and Pulmonary Research; Arthritis Research Centre; Djavad Mowafaghian Centre for Brain Health; Centre for Health Evaluation and Outcome Sciences; BC Cancer Agency Research Centre; and the International Collaboration on Repair Discoveries. Department of Medicine research projects involve multiple departments within the Faculty of Medicine, as well as the UBC Schools of Kinesiology and Biomedical Engineering, reflecting the highly collaborative and interdisciplinary nature of the research we do.
New executive team members & changes:
• Dr. Rich Sztramko left UBC on June 30th 2015. Replaced by Dr. Chanda Weerasinghe as the new Associate Program Director (Resident Wellness and Quality Improvement).
• Dr. Rose Hatala promoted to Director, Clinical Educator Fellowship Program - CHES in September, 2015. Replaced by Dr. Cary Cuncic as the new Associate Program Director (Evaluation and Assessment).
• Dr. Wendy Cook, Associate Director Curriculum left on leave October 2015, anticipated to return in the Fall of 2016. Under the guidance of the Director, other team members to assist with the new Academic Half Day design during Dr. Cook’s absence.

Education

Undergraduate Education Program

Internal Medicine Ambulatory Electives
• Continued growth of clinic placements at Surrey Memorial Hospital under the direction of the Site Lead Dr. Yazdan Mirzanejad.
• Overall increased capacity to 15 students per 2 week elective with the recognition of Medical Oncology and 2 Cardiology outpatient electives as meeting the mandatory Ambulatory learning requirements.
• Worked with Neurology to increase their presence in our curriculum by formally inviting them to participate as ambulatory preceptors while also helping to increase capacity and satisfy the division’s desire to start preparing for a greater presence in renewed curriculum.

Curriculum renewal
• Members of the Department of Medicine continued to contribute to this process by participating in working groups (Chairs and Members) and other leadership roles as the focus shifted to Sub-group committee design re: integration of the specialties (Psychiatry, Medicine) within the new 12 week block and the spinoff of Ambulatory Medicine as part of the separate Ambulatory 4 week block.
• Continued question writing workshops with faculty to create in-house multiple choice questions and designed an objective based blueprint. NBME successfully replaced effective August 2015. Achieved the question bank goal of approximately 300 questions.

Accreditation

• Education Activity forms completed to contribute towards curriculum mapping.

Teaching Tracking & Payment Project:
• Participation as a pilot department in the design and implementation of the new Teaching Tracking & Payment Project involving representation of several offices from within the Department of Medicine including Human Resources, Finance, Administration and Education.
• Contributed as member on the Business Working Team and Design Task Force for rollout in April 2016.

Postgraduate Education Program

Accreditation (Onsite follow-up visit October 2015)
• Successfully addressed the concerns raised in the 2013 RCPSC Accreditation Report for the core internal medicine program achieving full accreditation with follow-up at the next regular survey date.
**Competency Based Education**
- Attended a special session in June 2015 of the Canadian Association of Internal Medicine Program Directors (CAIMPD) focusing on milestones and evaluation/assessment of the milestones.

**Curriculum Updates**
- Launched the first two week boot camp for incoming PGY1's in July, 2015. Resident evaluations were very positive. Will offer again in 2016 with minor changes planned with respect to topic content and scheduling.
- Introduced a PGY2 formative OSCE in December based on the positive ratings received from the PGY1 Bootcamp experience with plans to offer annually.
- Switched to the New England Journal of Medicine Knowledge Plus Resource for the PGY1's and any resident not currently subscribed with MKSAP with plans to use the progress testing feature for PGY1's and as a resource for our mentoring program.

**CaRMS**
- Successfully matched all PGY entry positions in Vancouver and Victoria for Canadian and International graduates.

**International Health Project**
- Nine residents completed rotations in Uganda in 2015.

**Events**
- Resident Research Day, Annual Winter Retreat, Annual Resident BBQ

**Clinical Investigator Program**

The Clinical Investigator Program (CIP) program is an integral component of the Department of Medicine. Its main goals are to integrate promising medical students, residents and fellows into an academic environment that sustains and nurtures academic interests. Dr. Palepu, in her role as director of this program, has been advocating for young investigator participation and interest in research activities. The CIP program is a resource, which permits divisions within the Department of Medicine to leverage funding opportunities in order to support the academic endeavors of those divisions.

The Faculty Clinical Investigator Program is a 2-year program, which has the potential to fund at least 7 individuals each year. In 2015-16 there were 8 young investigators enrolled in the Faculty CIP program from the Department of Medicine.

The 3 second-year fellows who completed the program in 2015 were: Madeline Sharp (Neurology), James Lan (Nephrology), and Freda Omaswa (Infectious Disease - deceased). The 5 first-year fellows were: Brandon Bernard (Medical Oncology), Martin Smoragiewicz (Medical Oncology), Christopher Fordyce (Cardiology), Linda Sun (Hematology) and Rachel Jen (Respirology).

Given the importance of the CIP program to the growth and sustainability of research programs, the director is integrated into key activities of the Department of Medicine. This includes presentations to the Department of Medicine business meetings at both PHC and VGH sites, and ongoing interaction with Division Heads at the UBC Department of Medicine Division Heads meeting held monthly and at the quarterly Subspecialty Program Directors meetings. She has also presented to the core internal medicine residents early in their academic year to increase awareness of opportunities to pursue a research career through the CIP. The CIP director also provides advice and support to CIP trainees as they negotiate their first faculty position and provide referee letters for external funding.

**Office of Education**
- Faculty Recognition/Support/Development
- Prepared second annual “Honour Roll for Clinical Teaching Excellence Award” to recognize the top ten percent of Undergraduate and Postgraduate teachers for outpatient and inpatient learning experiences.
- Successful completion of six SPROT reviews.

**Accreditation**
- As a member of the Faculty’s Postgraduate Medical Education Internal Review Committee, contributed to the conduct, evaluation and follow-up of internal and external accreditation reviews of each of the Faculty’s residency programs

**Exploring Synergies within the Education Administration Structure Internally & Externally**
- On-site visits to each of the distributed campuses to follow-up on issues/opportunities identified during visit in previous year

- Served as faculty-level resource for a number of other Departments (Psychiatry and Pathology) keen to learn from our SPROT experience

- Unconscious bias workshop development and facilitator training for Department of Medicine Equity Committee
- One-on-one meetings with faculty and trainees to discuss scholarship in medical education and facilitate connections with appropriate individuals to help projects get going
- Meetings with partners such as CHES, Faculty Development
- Regular meetings with DOM Education Scholar to discuss ways to promote educational scholarship (at an individual and Departmental level)

**Global Health Program**

The International elective program has been in place for 8 years and 62 residents have participated to date as well as 29 faculty visits. There are a number of different elements to this program that have developed since we initiated it in 2007

**1. Clinical electives**
We completed our five year commitment to Donald Fraser Hospital and, since 2013, we have been working at the Gulu Regional hospital allied with the Gulu University Medical School in post conflict northern Uganda. We are members of a coalition of universities working in this area - the University of Manchester and MacMaster University through the Uganda-UK alliance and have committed to supporting this program for five years. Our work in Gulu is supporting the clinical care that is provided in the regional hospital that is very under resourced in terms of staff and goods. This provides the residents a chance to understand the impact of poverty on health and well being and learn about diseases that are uncommon in Canada. The residents and faculty are very involved in bedside teaching of 3rd and 5th year medical students from the Gulu University Medical school. There are also Medical officers on the ward who have little organised teaching and they also benefit from the input from the UBC staff. Feedback from residents and faculty who have worked in Gulu has been overall quite positive although clearly it is a challenging environment to work in.
We have done a review of the feedback received from residents regarding the experience of overseas work in this program and applied a CanMeds framework to that. Every competency in CanMeds is impacted but the two that appear the most in the reports are medical expert and advocate. The element that is not captured in this framework is the excitement and passion they feel for the work that they do. When the project started one of the goals was to reignite the compassion and dedication that the trainees had as medical students and that studies suggest gets lost through residency. The quotes and feedback suggest that this project does achieve that goal.

**Quotes from residents**
- “Overall an extremely valuable experience, one of the most enriching of my medical career to date.”
- “This rotation was the best month that I have had during my entire residency.”
- “Probably one of the most valuable rotations I have had. The learning opportunities were endless. I loved being able to teach the medical students as well as learn so much from them.”

The rotation was rated among the third best rotations in the residency program in 2015 with an overall rating of 4.6 out of 5.

**Longterm impact on residents**
We surveyed the alumni form the program as to whether they were involved in global or northern health or work in marginalised populations. Of 25 responses - 4 have committed a large or full time of their practice to northern or rural practice and 6 to global health. A further 7 have committed some part of their practice to global or northern health or marginalised populations. Approximately 27% of 62 residents and 70% of respondents are, or were involved, in some way providing medical services to underserviced populations after completing this elective. This is very consistent with the literature. The residents did not change direction because of this experience but felt supported in their passion for global health work and developed mentorship relationships with faculty through this experience. Responses of our partners in Gulu. The medical students were surveyed as to how they experienced the UBC staff presence in Gulu.

**Quotes from medical students in Gulu, April 2015.**
- “Canadian doctors are good and very lively in teaching and training medical students on the ward and classroom lectures this benefits medical and clinical officer students”
- “Canadian doctors are social and practice team work which is fundamental in medical practice and training future doctors”
- “In presence of Canadian doctors, patients on ward improve quickly, because follow up is adequate plus consistent reviews”

**Should we come back?**
- “Yes of course, the benefits are overwhelming”

New initiatives in the Internal Medicine Residents global health program:

**2. Research**
We have developed an active collaboration with Dr. Rich Lester who is working in East Africa and is prepared to partner with our program to offer research electives and support to residents who want to do global health research. Dr. Lester has strong research partnerships in Nanyuki in Kenya and some in Gulu. We are hoping to create an East Africa Clinical and Research Collaborative which can be built upon to leverage resources and funding.

**3. Global Health Journal club**
This is a resident led learning experience that happens on approximately a monthly basis and is part of the Residents academic half day.

**4. Clinical Global Health Network**
Work with the Clinical Global Health Network on developing a modular curriculum so that residents can complete a modular course in global health. These matched with the electives would constitute a global and northern health stream within the residency program without disrupting the residents core curriculum.

**5. Continued Active Participation in the Clinical Global Health Network**
Engage programs within the post graduate and undergraduate clinical programs to establish guidelines for electives and global health training at UBC.

**6. Plan to bring trainees from Uganda to Canada**
for an elective experience - sourcing funds, coordinating and support.

We have no shortage of plans and goals for the future development of the program and remain inspired by the responses of the residents to this program.

**Highlights**
- Effective October 2015, Dr. Andrea Townson accepted the role as Associate Head Education with Dr. Adam Peets stepping down to take on his appointment as Assistant Dean, Clinical Education, MD Undergraduate Program.
- Undergraduate Ambulatory Clinic capacity increased with the addition of new outpatient clinics, increased placements within Neurology electives and site expansion in Surrey.
- Participated in Teaching Tracking & Payment pilot with launch in April 2016.
- IM Core Resident program launched the inaugural PGY1 two week Bootcamp in July 2015.
- Successfully addressed the 2013 Postgraduate accreditation concerns achieving full accreditation in October 2015.
Highlights of the Year

The Experimental Medicine Student Research Days for 2015 and 2016 were outstanding.

Research

Experimental Medicine held a student research day on November 27th, 2015 in the Child and Family Research Institute Chieng Family Auditorium. Fourteen graduate students gave a 10-minute oral presentation; 25 students participated in the poster presentation session. Dr. Brendan Byrne delivered a keynote address and talked about healthcare in Canada.

Program Education

Experimental Medicine had 101 MSc students and 161 PhD students in 2015-2016. Sixteen MSc students and 33 PhD students graduated that year.

Program Awards

Six students were offered Constance Livingstone-Friedman and Sydney Friedman Foundation Scholarship in Health Sciences. Sixteen students were recommended to G+PS in the Spring Awards Competition. Five students received four-year doctoral fellowship.

The majority of GSI funding goes to 30 PhD students who did not receive any major award that pays their tuition. Sixty-six students were awarded GSI publication award because they published a first or second author paper.

Future Directions

The Experimental Medicine Program aims to keep guiding students to design and conduct experiments and solve problems in their particular fields.
Divisional Overview

In 2015/2016, the Division added five new full members with expertise in laboratory, phylogenetics, urban health, and addictions. We also welcomed four new associate members extending contributions to the Division from Infectious Diseases and external institutions of SFU and UCSD relating to women's health, global health, and addictions. The Division of AIDS is grateful for the administrative support provided by Kelly Hsu and her team at the AIDS Research Program, St. Paul’s Hospital and the BC Centre for Excellence in HIV/AIDS.

Education

Undergraduate
• Flexible and Enhanced Learning/Foundations of Scholarship
• HIV Epidemiology and Prevention Elective
• Public Health HIV
• Addiction Medicine
• Sexual Health
• Laboratory Medicine Elective
• Clinical and Population Health Research Elective
• Translational Bioinformatics Elective

Graduate
• Analytic Methods in Epidemiology Research Elective
• Introduction to the Determinants of Health

Postgraduate
• Our division currently supervises five postdoctoral fellows in HIV, infectious diseases, epidemiology, laboratory, and addictions
• Research Methodology and Project Development Workshop Series. Vancouver Coastal Health Research Institute, Centre for Clinical Epidemiology and Evaluation
• BC-CfE Preceptorship Program-training for physicians, family practice residents and nurse practitioners through the St. Paul’s Hospital Specialty Clinic and Primary Care Clinic
• Public Health and Preventive Medicine Residency Program Seminar Series and Elective Rotations in HIV
• Key contributors to the World Health Organization HIV Resistance Network, helping countries such as Argentina, Chile, Colombia, China, Swaziland, Botswana, etc. develop the expertise (using our software and methods) to monitor their own HIV epidemics

Research

• Our research in HIV and HCV virology are directly influencing healthcare policy. We demonstrated that the initial rise in HCV prevalence in “baby boomers” occurred significantly earlier than previously appreciated, implicating iatrogenic causes for the early rise of HCV in North America.
• Our work on tracking the spread of HIV infection using phylogenetics has led to a novel public health intervention in BC, enabling the targeting of pre-exposure prophylaxis for HIV to the populations most at risk.
• We continue to pioneer novel strategies to access hard-to-reach populations, including the Directly Observed Therapy (DOT) program in the Downtown East Side (DTES), as well as studies involving drug users and sex workers.
• We continue to pioneer novel strategies to
decrease drug-related harm and evaluating Insite in Vancouver’s DTES.
• The CANOC Collaborative, funded by CIHR, conducts ongoing large and detailed analyses of HIV treatment outcomes and assesses variations in patterns of access to treatment, patient management and treatment outcomes across Canada.
• In collaboration with the BC-CfE Education and Training Program, we continue to provide health care professionals with training, education and knowledge essential to improving the quality of HIV and addiction treatment and care across the province and beyond.
• Our Research Laboratory Program (RLP) develops technologies and systems contribute to improving HIV research and advances our understanding of how the HIV virus operates, observing how it spreads and how the human body responds. RLP also provides clinical services to the province of BC and to most of Canada in the areas of HIV drug resistance testing and pharmacokinetic measurement.
• In April 2016, the Lancet HIV, a prestigious international scientific journal, published an article describing a phylogenetic monitoring system for HIV, innovated by the BC-CfE in collaboration with Vancouver Coastal Health.
• The Momentum Men’s Health Study is producing important information to guide HIV programming for Men who have Sex with Men (MSM) in BC. In 2016, the study published important data on HIV community viral load among MSM and risk factors for unsuppressed viremia awareness of and uptake of pre- and post-exposure prophylaxis. We also presented significant findings on incidence and risk factors for HIV, HCV and other STIs.

Patient Care

• Two (2) new personalized medicine tests were deployed in Canada:
  - monitoring drug levels in patients taking HIV medication
  - monitoring resistance to Direct Acting Antivirals (DAA) for the treatment of Hepatitis C. The DAA test is now being recommended in Canadian HIV treatment guidelines.
• Several knowledge translation activities (media interviews, reports, recommendations) resulting in significant policy change including: 1) abolishment of requirement for physicians to hold methadone exemption to prescribe buprenorphine/naloxone for opioid use disorder; 2) availability of over the counter naloxone as an antidote for opioid overdose.
• Addictions Medicine Clinic operating at St. Paul’s Hospital and Vancouver Coastal Health (Wood, Fairbairn, Nolan)
• Continuing medical education training at the HIV Speciality and Primary Care Clinic at St. Paul’s Hospital (Montaner, Hull, Moore)

Highlights

2015
• Justin Trudeau visited with us early in his campaign to discuss our work locally, nationally, and globally.
• Dr. Lima published a study in the Lancet HIV finding AIDS cases and AIDS-related deaths decreased significantly in British Columbia since the 1990s, with the introduction of HAART and Treatment as Prevention*. Dr. Milloy received $1M gift from National Green BioMed to support ongoing research into medical application of cannabinoids.
• Dr. Montaner met with senior officials at the Vatican to discuss Treatment as Prevention*. He met Pope Francis to share news and information of the strategy’s impact on curbing rates of HIV cases within British Columbia.
• As Local Co-Chair, Dr. Montaner and the UBC Division of AIDS, hosted the 8th International AIDS Society Conference on HIV Pathogenesis, Treatment & Prevention in Vancouver from July 19-22.
• Treatment as Prevention* becomes the cornerstone of the UNAIDS ambitious global goal for HIV treatment aimed to end the AIDS Pandemic by 2030, known as the 90-90-90 target.
• Dr. Montaner inducted into the Canadian Medical Hall of Fame and invested as an Officer of the Order of Canada.
• Dr. Shannon received $2.25M from NIH for competitive renewal of AESHA cohort (2015-2020) on evaluation of C-36 and another $2.5M CIHR Foundation Grant for evaluation of sexual health outcomes & interventions among women living with and affected by HIV.
• Dr. Shannon published lead first author paper in Lancet series on Sex Work and HIV, that demonstrated decriminalization of sex work could avert 36-42% of HIV infections, and was highlighted by Amnesty International and other global HIV policy guidelines (UNAIDS, WHO).
North America: a retrospective phylogenetic study. The spread of hepatitis C virus genotype 1a in procedures and the utilization of reusable syringes finding linked the hepatitis C epidemic to medical 1950, 15 years earlier than previous estimates. This "baby boomers" was identified to have occurred in peak growth of the hepatitis C epidemic among. This landmark study describes the first-time the was published in The Lancet Infectious Diseases.

• A study done in partnership with the US CDC
• The government of Canada, through CIHR, announced an investment of $4.4 million to support four large regional teams comprised of researchers, service providers, and decision makers to tackle prescription drug abuse. Dr. Wood serves as the Principal Investigator of the research node based in BC.
• National Institute on Drug Abuse (NIDA)—an agency of the National Institutes of Health (NIH)—provided a two-year, $200,000 grant for a joint response to the HIV epidemic affecting a rural community in the state of Indiana. The Indiana University (IU) School of Medicine and the BC-CfE joined forces to leverage successes achieved in British Columbia by applying the effective HIV Treatment as Prevention® model to a rural setting in the United States.
• The Division received $5M funding from the BC Ministry of Health to conduct HCV research and contracted to conduct evidence review and provide recommendations for viral hepatitis testing in the British Columbia.

Dr. Montaner was presented with the Barer-Flood Prize which recognizes a senior researcher in the field of health services and policy research who has had a significant impact on policy research, policy and/or care delivery in Canada. This was presented at a meeting of federal, provincial and territorial health ministers in Vancouver.

• UN 90-90-90 Target confirmed at the UN High Level Meeting in New York by member countries as the roadmap for the End of AIDS as a Pandemic by 2030.
• Dr. Montaner was invited to meet in Ottawa with representatives from Health Canada and Global Affairs Canada to discuss Treatment as Prevention® as a global strategy.
• Dr. Lima was promoted to Associate Professor. She received a 5-year CIHR Project Scheme grant, entitled: "The Health and Economic Forecasting Micro-Simulation Model: A tool to evaluate future health policies and programmatic interventions targeting the aging population living with HIV in British Columbia". She is co-investigator in 11 peer-reviewed grants from CIHR, NIDA, and Genome Canada.

Dr. Milloy presented on Treatment as Prevention® in BC among people who use drugs as a part of the United Nations General Assembly Special Sessions on the World Drug Problem. He was the recipient of a New Investigator Award from the Canadian Institutes of Health Research and a Scholar Award from the Michael Smith Foundation for Health Research.

• Dr. Wood is Director of the Canada Addiction Medicine Research Fellowship mentoring physician, graduate students and trainees in addiction research. He leads the continued development and attractive 18,000 delegates from 183 countries.

Dr. Kerr continues research on effective harm reduction approaches, presenting and in consultation at the Ministry level in the area of addiction care and developing provincial opioid guidelines in response to the opioid crisis in Vancouver’s DTES, which peaked in late 2016 with more than 900 fatalities.

Dr. Montaner travelled to Ottawa to meet with Federal Health Minister Jane Philpott to develop and support an implementation plan for the 90-90-90 Target in Canada.

Justin Trudeau visited with us early in his campaign to discuss our work locally, nationally, and globally. • Dr. Montaner and the UBC Division of AIDS hosted the International Treatment as Prevention Workshop in Durban, South Africa, with internationally renowned speakers from organizations including the US Centers for Disease Control and Prevention, the World Health Organization, UNAIDS, the Clinton Health Access Initiative and PEPFAR. Federal Health Minister Jane Philpott gave opening remarks.

Our members presented their findings at the AIDS 2016 Conference in Durban, South Africa— which attracted 18,000 delegates from 183 countries.

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• Dr. Wood, released a report recommending novel strategies to improve access to opioid addiction care in Canada. Moving towards improved access for evidence-based care in British Columbia provides recommendations that have the potential to reduce the harms of opioid addiction.

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Divisional Overview

The success of our relatively new training program has led to growth in our Division. New graduates have a keen interest in the academic mission; wishing to teach and partake in joint learning activities. One advantage is that individual allergists in the community can link into our weekly web-based academic half-day and contribute to issues raised in the presentations by fellows and staff. This program is jointly run with the Pediatric Division of Allergy and Immunology and associated programs at Dalhousie, Western and Manitoba Universities. Dr. Donald Stark, our program director, has worked diligently in this endeavor and we also wish to acknowledge the superb administrative support of Nicole Nielsen, whose assistance has been invaluable.

To provide excellence in outpatient clinical teaching, we have been fortunate to have community members devote their time and expertise. In addition to those in the greater Vancouver area, members in Victoria now offer rotations for our fellows. In Kelowna, Dr. Hian Reeves provides elective rotations for residents in Internal Medicine. All have received excellent evaluations by trainees.

These initiatives have led to an increased number of superb applicants to our training program. Expansion of our numbers in BC will clearly benefit patients’ access to allergy and immunology assessment.

The Allergy Update CME for physicians and health care providers had a very successful program in its second year with an excellent enrollment and evaluation by attendees. Dr. Amin Kanani initiated and organized this program with help from a number of our members and pediatric colleagues. Dr. Kanani is training patients with severe hereditary angioedema to self-administer C1 inhibitor protein intravenously on a prophylactic basis. This condition is often poorly managed in emergency departments and efforts are being undertaken to enhance physician knowledge but also patient independence.

Together with the Antibiotic Stewardship Committee at St. Paul’s Hospital, we have initiated guidelines for surgical antibiotic use that have been accepted and applied. Over the last year we have expanded activities to evaluate Penicillin allergy in hospitalized individuals with this label. This has been highly successful with more than 200 patients being tested and challenged with Penicillin, leading to the removal of the Penicillin Allergy label from hospital, Pharmanet and GP records.

DIVISION HEAD:
• Dr. Robert Schellenberg

DIVISION MEMBERS:
• Dr. D Stark
• Dr. H Wong
• Dr. A Kanani
• Dr. M Kaviani
• Dr. K Lee
• Dr. C Lee
• Dr. A Jagdis
• Dr. S Kim
• Dr. R Schellenberg
• Dr. J Yeung
• Dr. J Bergman

Dr. Robert Schellenberg, Division Head
Education

A significant increase in Internal Medicine residents seeking electives in our specialty has been encouraging. In addition, Dermatology residents have routinely done electives in our Division. The evaluations of this elective rotation by residents and students have been very good.

A new CME program for physicians organized by Dr. Amin Kanani, the Update in Allergy Conference, was for the second year, very well attended and evaluated. In addition, members of the St. Paul’s staff presented at the St. Paul’s General Practitioner Update Course and have been involved with the St. Paul’s Internal Medicine Update Course.

Research

The members at St. Paul’s Hospital have a major interest in management of Primary Immune Deficiency (DIP) and have initiated a number of research projects as well as interactions with the lay organizations, Canadian Immune Deficiency Patient Organization and the Jeffrey Modell Foundation. A new provincial initiative to improve care for patients with PID has been undertaken with the Provincial Blood Coordinating Office. This involves assessment of provincial data, dissemination of algorithms for diagnosis and management, with the aim to have an integrated data base of PID patients to evaluate appropriate diagnosis, management and health outcome parameters. Divisional members on this committee include Drs. Kingsley Lee, Peter Lee, Hien Reeves, Seung Kim, Donald Stark and Robert Schellenberg.

We continue to expand the subcutaneous immunoglobulin home-infusion program which provides convenience for patients as well as decreases hospital day care requirements. Additional measures have been undertaken to provide this for secondary immune deficiency. Dr. Robert Schellenberg has been involved with the Division of Hematology and Bone Marrow Transplant Program in establishing this for their patients.

Dr. George Wong continues his specific expertise in evaluation of complementary and alternative medicine practices and has presented on potential adverse effects of these preparations at international meetings.

Dr. Amin Kanani has ongoing research in assessment of the natural history and quality of life assessments of patients with hereditary angioedema before and after home infusion training. He is also involved in industry-sponsored clinical trials assessing omalizumab therapy optimization and quality of life in patients with chronic spontaneous urticaria, and evaluating a novel oral prophylaxis therapy for hereditary angioedema.

Clinical Services

All members are actively involved in providing clinical consultative services in Allergy and Immunology to the community. Dr. Donald Stark provides outreach clinics in Prince George and Sechelt. He has been active in initiating subcutaneous immunoglobulin treatment for patients in northern BC communities.

Dr. Amin Kanani established a clinic in Surrey and Dr. Shamim Wadiwalla is now established full-time at this site with support from Surrey Memorial Hospital. Other new graduates have joined this facility and they have expressed wishes to join the Division with an active teaching role. Dr. Kanani has also established a program training patients with Hereditary Angioedema to self-infuse C1 inhibitor at home.

Dr. George Wong has had a specific interest in complimentary medicine practices and the potential harmful effects of specific treatments.

Awards and Distinctions

In 2015, Dr. Donald Stark received the Canadian Society of Allergy and Clinical Immunology (CSACI) Distinguished Member Award, recognizing his major commitment to the national society, which included his establishment of a charitable organization that provides competitive research funding for members (Canadian Allergy, Asthma and Immunology Foundation).

With the successful launch of a training program, developed by Dr. Donald Stark and Dr. Edmond Chan, and with the support of all members of both the adult and pediatric Divisions, we continue to innovate and optimize our training modalities. Initially sharing academic half-day activities with the University of Manitoba pediatric and adult divisions via Skype, we have expanded video-conferencing interaction to include allergy programs at Dalhousie University and Western University using GoToMeeting. This has been ideal in capturing faculty expertise at the various sites, having invited speakers from different disciplines and having trainees present relevant topics for input by other trainees and faculty. This has also allowed valued input from community allergists and immunologists who attend.

We plan to continue our initiatives in primary and secondary immune deficiency that entail home therapy and establishment of a transition clinic from pediatric to adult patients. Additional work with the Provincial Blood Coordinating Office should improve care of immune deficient patients throughout British Columbia and establish a data base for outcome research.

Working with the Provincial Blood Coordinating Office, we are establishing protocols and oversight for the appropriate management of both immune Deficiency and Hereditary Angioedema patients within BC which should be of benefit to patients and care-givers.

We plan to continue initiatives with the Antibiotic Stewardship Program, hopefully duplicating the success of St. Paul’s Hospital at other major hospitals in BC. Obtaining resources for an Adverse Drug Reaction Clinic and Food Allergy Clinic remain a priority as the needs clearly exist. Further recruitment of a full-time academic Allergist/Immunologist remains a priority.
Divisional Overview

The Division office remains strong with an excellent team supporting the academic mission, integrated with the clinical services and teams. Division and academic reports, along with CAPP performance reviews are routinely completed.

Individual accomplishments include:
- Dr. Ken Gin: Regional Cardiac Program Medical Director 2015
- Dr. Haidar Hadi: Innovator of the Year, Prince George Citizen Healthier You Award 2015: for the Development of Northern RACE (Rapid Access to Clinical Expertise) Line
- Dr. John Webb: Wallace Wilson Leadership Award 2015, UBC Medical Alumni Association
- Dr. Victor Huckell: Canadian Medical Association Honorary Membership for Humanitarian Services 2015
- Dr. John Jue: CSE Annual Achievement Award 2015, Canadian Society of Echocardiography
- Dr. Victor Huckell: Canadian Cardiovascular Society Academy Visionary Award 2015
- Dr. Karin Humphries: Elected Fellow of the American Health Associate (FAHA) conferred by the Quality of Care and Outcomes Council (March 2016)
- Dr. Annie Chou: The 2016 Vancouver Board of Trade Wendy McDonald Woman of Promise Award, presented by Global BC’s News Director Jill Krop
- Dr. Jasmine Grewal: Appointed to CCC Scientific Program Committee – Congenital Track Chair, 2016
- Dr. Andrew Krahn: Annual Meeting Chair, Canadian Cardiovascular Congress
- Dr. Ken Gin: Canadian Journal of Cardiology Committee Chair
Education

The education committee oversees undergraduate, postgraduate, and continuing medical education, with support individuals guiding each of these portfolios. The flagship educational program is the residency training program lead by Dr. Parvathy Nair, with 17 residents in a 3 year program. The program saw the training completion of Drs. Sina Alipour, Andrea Lee, Dana Lee, Siu Him Chan, Michael Luong, and Abdullah Alenezi, who all subsequently completed their Royal College certification in Cardiology. Four of these fellows went on to do further training in subspecialty fellowships.

The Division embarked on a central fellowship support program coordinated through the Education Committee, which is supporting both funding and program development. striving to be Royal College Areas of Focused Competence (AFC) compliant if the central University develops a decanal unit.

Individual accomplishments include:
• Dr. Ken Gin: Clinical Faculty Award for Career Excellence in Clinical Teaching 2015, UBC FoM
• Dr. Ken Gin: Master Teacher Award (VGH) 2015, UBC DoM:
• Dr. Saul Isserow: Best Clinical Mentor Award 2015, UBC Cardiology Postgraduate Program
• Dr. Jonathon Leipsic: Donald M. Whitelaw Award 2015 for Outstanding Grand Rounds (SPH), UBC DoM
• Dr. Tara Sedlak: Donald M. Whitelaw Award 2015 for Outstanding Grand Rounds (VGH), IBC DoM
• Dr. Graham Wong: Shelley Naiman award for Best Clinical Teacher, UBC DoM 2015
• Dr. Victor Huckell: 2015 UBC DoM Honour Roll for Clinical Teaching Excellence
• Dr. Victor Huckell: Vancouver Coastal Health Authority Bobby Miller Award for Excellence in Teaching 2015
• Dr. Marc Deyell: 2016 UBC DoM Honour Roll for Clinical Teaching Excellence Award
• Dr. Christopher Fordyce: 2016 UBC DoM Honour Roll for Clinical Teaching Excellence Award
• Dr. Ken Gin: 2016 UBC DoM Honour Roll for Clinical Teaching Excellence Award
• Dr. Victor Huckell: 2016 UBC DoM Honour Roll for Clinical Teaching Excellence Award
• Dr. Saul Isserow: 2016 UBC DoM Honour Roll for Clinical Teaching Excellence Award
• Dr. Parvathy Nair: 2016 UBC DoM Honour Roll for Clinical Teaching Excellence Award
• Dr. Jonathon Tang: 2016 UBC DoM Honour Roll for Clinical Teaching Excellence Award
• Dr. Elizabeth Swiggum: 2016 UBC DoM Honour Roll for Clinical Teaching Excellence Award
• Dr. Graham Wong: 2016 UBC DoM Honour Roll for Clinical Teaching Excellence Award

Research

Research continues to grow dramatically, with summaries and highlights brought to attention in our quarterly newsletter. A publication and citation review demonstrates 275 peer reviewed publications from 109 registered and funded projects totalling 4.72 million dollars in operating funds. Sixteen division members receive CAPP salary stipends to protect time in order to promote research, largely targeting early career recruits to support the goal or increased research capacity.

Individual accomplishments include:
• Dr. Zachary Laksman: 2015 Charles Kerr Scholarship in Heart Rhythm Management, St. Paul’s Hospital Foundation & UBC
• Dr. Marc Deyell: CCS Atrial Fibrillation Research Award 2015, Canadian Cardiovascular Society

Recruited two new externally funded scholars

$4.72 million in research funding
• Expansion of the Valve Clinic into percutaneous mitral and tricuspid arena with multiple first in man procedures
• Active participation in the redevelopment planning process

**Highlights of the Year**

• The Division has grown with very strong clinical and academic recruitment supported by the Cardiology Academic Practice Plan (CAPP). Six (6) new Full members joined the Division, two of whom have external salary support (Kerr scholars in Heart Rhythm and Genetics), as well as eleven (11) new associate members, local and from across British Columbia
• The Division underwent a successful strategic planning exercise including a mini retreat, a full report and a road map with five priority areas of focus unfolding subsequently
• The Division has a diverse portfolio of clinically focused research, including structural heart (flagship), imaging, electrophysiology, cardiogenetics, heart failure, cardio oncology and women’s heart health
• The Division’s structure includes Education, Research, Finance and Executive committees which provide guidance and engagement for Division members and the Division as a group, further promoting inter-site collaboration. Forty percent of Divisions actively provide care at both St. Paul’s and VGH.
• The structural heart team continued global leadership in defining both novel techniques and clinical trials in defining the degree to which catheter based therapies will supplant surgical strategies. This includes translational and patient engagement elements which have been implemented into routine care in BC. Recent recruits have received multiple local grants including pilot funds from CAPP to support and promote their research.
Community Internal Medicine

DIVISION HEAD:
• Dr. Barry Kassen

DIVISION MEMBERS:
• Dr. H Baillie
• Dr. R Lowry
• Dr. N Cummis
• Dr. L Farrell
• Dr. S Gill
• Dr. A Markanday
• Dr. T Maung
• Dr. C Morris
• Dr. S Sullivan
• Dr. S Taylor
• Dr. A Abdalla
• Dr. M Ali
• Dr. M Anis
• Dr. Y Arikan
• Dr. E Auersperg
• Dr. K Bashir
• Dr. B Beheshti
• Dr. M Bernard
• Dr. S Broder
• Dr. D Burke
• Dr. P Camateros
• Dr. B Chai
• Dr. D Chandler
• Dr. P Chang
• Dr. J Dunne
• Dr. C Dyck
• Dr. A Elekiaby
• Dr. F Evrin
• Dr. R Foster
• Dr. C Gabana
• Dr. A Hamour
• Dr. C Hennessy
• Dr. A Hoffman
• Dr. L Hollands
• Dr. B Hughes
• Dr. S Jaffer
• Dr. S Kahlon
• Dr. A Kang
• Dr. G Karr
• Dr. M Kenyon
• Dr. J Kerrie
• Dr. M Keshmiri
• Dr. E Lai
• Dr. A Lakhan
• Dr. M Lang
• Dr. M Lapin
• Dr. J MacIsaac
• Dr. D MacRitchie
• Dr. N Mahmoudi
• Dr. C Mahony
• Dr. C Main
• Dr. P Malpass
• Dr. S Matossian
• Dr. B McArdis
• Dr. K Mc Dermid
• Dr. D McDonald
• Dr. S Mckee
• Dr. S Min
• Dr. D Myers
• Dr. David Naude
• Dr. M Nazerali- Sunderji
• Dr. D Negash
• Dr. R O’Dwyer
• Dr. J Pewarchuk
• Dr. W Pewarchuk
• Dr. B Phillips
• Dr. J Rai
• Dr. J Rudnik
• Dr. S Segal
• Dr. R Shaw
• Dr. P Sherk
• Dr. C Simpson
• Dr. T Sindhar
• Dr. A Singh
• Dr. J Spence
• Dr. S Sutcliffe
• Dr. A Tothill
• Dr. I Tynan
• Dr. A Varadarasa
• Dr. S Wadge
• Dr. S Walker
• Dr. A Walzak
• Dr. L Wik
• Dr. D Williams
• Dr. L Winkler
• Dr. E Wojtowska
• Dr. S Wong
• Dr. T Yang
• Dr. S Youakim
• Dr. Z Yu
• Dr. M Ballard
• Dr. N Baradaran
• Dr. H Blair
• Dr. E Blake
• Dr. P Campsall
• Dr. S Caswell
• Dr. T Cessford
• Dr. N Chan
• Dr. M Choi
• Dr. O Drouin
• Dr. E Fam
• Dr. M Fazil
• Dr. S Fzlagic
• Dr. L Fong
• Dr. N Frolova
• Dr. S Galindo
• Dr. D George
• Dr. S Ghosh
• Dr. N Golishevski
• Dr. L Gutierrez
• Dr. M Ho
• Dr. R Holde
• Dr. K Humphreys
• Dr. D Jaworsky
• Dr. R Kahlon
• Dr. A Kecskes
• Dr. J Kerr
• Dr. H Khangura
• Dr. H Kim
• Dr. D Kincade
• Dr. R Kumar
• Dr. K Lai
• Dr. S Lakh
• Dr. M Lee
• Dr. J Lim
• Dr. P Ling
• Dr. C Little
• Dr. C MacCallum
• Dr. F Mansour
• Dr. K McLeod
• Dr. J Morantz
• Dr. W Newsome
• Dr. L Nguyen
• Dr. D Ortved
• Dr. E Parfitt
• Dr. MI Perlmam
• Dr. S Perlmam
• Dr. V Petrovic
• Dr. G Polley
• Dr. S Prasad
• Dr. C Reid
• Dr. F Rydz
• Dr. A Saadeddin
• Dr. V Sahiholnasab
• Dr. S Sajjadi
• Dr. G Sajjadi
• Dr. J Saluja
• Dr. N Sandhu
• Dr. H Sarksaria
• Dr. E Sawatsky
• Dr. B Sehmer
• Dr. D Siew
• Dr. D Skinnider
• Dr. N Sood
• Dr. S Srim
• Dr. H Stefanison
• Dr. A Stewart
• Dr. J Sunderwood
• Dr. S Svarta
• Dr. D Teichrob
• Dr. T Thomas
• Dr. Z Trutsov
• Dr. B Tuvel
• Dr. M Vaid
• Dr. G Vaz
• Dr. V Veleva
• Dr. J Wallach
• Dr. N Widmer
• Dr. R Wong
• Dr. A Wormsbecker
• Dr. Y You
• Dr. S Zavareh
Divisional Overview

The Division of Community Internal Medicine is a large diffuse and distributed group that participates in health care delivery throughout the province of British Columbia and in education of the future doctors of British Columbia. Community and Rural Internal Medicine (CRIM) has been an essential part of the growth of Internal Medicine in British Columbia as it has promoted a special fee structure for Internists in the province. As most members are almost entirely dependent on fee for service, this alone has increased the interest and promoted the discipline of Internal Medicine.

CRIM has already achieved much since its inception spearheaded by Dr. Michael O’Brien in 2005. Dr. Danny Meyers further increased CRIM’s annual fee allocation after the last Master Agreement by applying for recruitment and retention as well as disparity funding. Dr. Jenn Grace worked tirelessly to enforce the integrity of complex fee code billing, and compiled the master list of eligible general internists in the province. Since 2016, CRIM also added a team of executive officers, who have also contributed greatly to its decision making and functioning: Drs. Matt Bernard, Mitch Lee, Kevin McLeod, Anita Palepu, and Jane Wu.

Dr. Mike Kenyon has a leadership role internationally as governor for the American college of physicians (ACP).

We have Division members who are in provincial leadership (Dr. Shaw) President of Community and Rural Internal Medicine (CRIM) as well as Dr. Jennifer Grace who is Interim Executive Medical Director for Vancouver Island Health Authority (VIHA). Dr. Hector Baillie is participating in a provincial program with the BC College of Physicians and Surgeons in the capacity of assessment for Internal Medicine specialists in BC. We have members who are active site leaders for their Internal Medicine groups various parts of the province. Dr. Jim Spence is the lead in Victoria, Dr. Jennifer Grace - Campbell River, Dr. Niels Schwarz - Nanaimo, Dr. Callum Reid - Salmon Arm, Dr. Chad Dyck - Penticton, Dr. Ed Auersperg - Maple Ridge, Dr. Y.D. Yu - Richmond, Dr. Kevin MaCleod - Lionsgate, Dr. Bruce Hillier – Comox.

Education

The University of British Columbia training program has both four and five year component, with the five year program designated as sub speciality in General Internal Medicine. Both of these streams have a large emphasis in training in the community with a significant of the program dedicated to this training. The programs are led by Dr. Jane Mackay (four year program) Dr. Stephane Voyer (five year program) both of these physicians have or had a presence in the community in the Internal Medicine care delivery.

Patient Care

The Division of Community Internal Medicine is large, diffuse and distributed and participates in health care delivery throughout the province of British Columbia and in education of the future doctors of British Columbia.

The clinical interests of the group vary. The Community General Internist may provide critical care and specialized care in specific domains (i.e., HIV, Sports Medicine etc.) in Palliative Care and consultation care to hospitalized and ambulatory patient. The roles encompassed by Division members are often dictated by their communities and the distance from other specialties. Some Internists provide oncologic care; perform endoscopies and bronchoscopies and are active in ECHO cardiographic assessment of patients.

Future Directions

The recognition that community and academic based physicians are not separate entities is a goal for the future. To that end support for community - based research and shared research (community and academic sites) is something we should work toward. The ultimate goal would be to have a single Division of General Internal Medicine.
Divisional Overview

The UBC Division of Critical Care Medicine is multi-disciplinary in nature. Our members are qualified critical care specialists with Medicine, Surgery, and Anaesthesia and Emergency Medicine backgrounds. They participate in patient care at St. Paul’s Hospital, Mount Saint Joseph’s Hospital, Royal Columbian Hospital, Richmond General Hospital, Kelowna General Hospital, Vancouver General Hospital, Victoria General Hospital, Lions Gate Hospital, and Surrey Memorial Hospital.

Critical Care Medicine Members continue to make contributions in education, knowledge, research, and clinical care. Our goal is to improve our clinical care, increase research output, and improve our educational efforts (including undergraduate, post-graduate, and CME). Clinical, research, educational, and administrative collaborations among the hospital sites have increased over the past few years and are expected to continue. We will continue to examine and adopt innovative clinical approaches and technologies to improve the care of critically ill patients (e.g., echocardiography, ultrasound, computer support/monitoring, checklists, novel methods of cardiac/pulmonary support). We will explore ways to obtain and support excellent clinical and basic science researchers to expand our research capacity and collaborations.

Division members from St. Paul’s, Vancouver General and Richmond Hospitals participate, under the direction of Dr. Demetrios Sirounis, as members of the VCH Regional Critical Care Council and continue to develop and implement strategies to improve the delivery of critical care services within the region. The goal of the Regional Critical Care Council is to improve access, patient flow and sustainability through appropriate design and efficiencies and to implement best practices to improve health outcomes, and monitor performance in the ICU using the ICU database.

Dr. George Isac continued as Medical Director of the ICU at Vancouver General Hospital. Dr. Demetrios Sirounis continues to oversee the clinical operations at Providence Health Care (both at St. Paul’s Hospital and Mt. St. Joseph’s Hospital). Dr. Robert McDermid is the Head of the ICU at Surrey Memorial Hospital. Dr. Greg Martinka continued as the Head of the ICU at Richmond Hospital, and Dr. Ryan Foster continued as the Medical Director of Critical Care for Kelowna General Hospital and the Interior Health Authority.
Education

The University of British Columbia Adult Critical Care Medicine Training Program continued under the direction of Dr. Gordon Finlayson who was appointed Director in 2012.

The two-year Critical Care Medicine subspecialty-training program accepts up to 4 new trainees per year and is fully accredited by the Royal College of Physicians and Surgeons of Canada. It is structured to provide trainees with both outstanding clinical and research environments in which to learn.

During their Fellowship, trainees primarily rotate through three tertiary care hospitals (St. Paul’s Hospital, Vancouver General Hospital, and Royal Columbian Hospital), and are exposed to a broad range of patients with critical illnesses. This includes exposure to: patients with HIV, patients who are post-organ transplantation, patients with multiple traumas (including head injury), patients requiring extracorporeal membrane oxygenation (ECMO), and post-cardiac surgery patients.

The ICU residency training program includes residents from Medicine, Anaesthesia, Surgery, Emergency Medicine, Family Practice, and Neurology. It is a comprehensive program with weekly simulator sessions and video-on-demand lectures.

Research

The Critical Care Research Program is comprehensive, spanning from genetic and molecular biology studies, to education, clinical trials, and quality improvement. The basic science research program is based primarily in the UBC James Hogg iCAPTURE Centre for Cardiovascular and Pulmonary Research at St. Paul’s Hospital. The Critical Care Medicine clinical research program is focused primarily in the intensive care units of St. Paul’s Hospital, Royal Columbian Hospital, and Vancouver General Hospital. Active research is ongoing in the fields of sepsis genetics, biomarkers of infection, inflammatory markers and cytokines, ARDS, alternative ventilation technologies, immune signaling and sepsis induced cardiac dysfunction, and diaphragm weakness/pacing.

The areas of ongoing active clinical research includes epidemiology and outcomes in traumatic illness (including TBI), sepsis, patient safety, and quality improvement.

Southern Medical Program students learn about critical care at Kelowna General Hospital’s intensive care unit. Photo credit: Warren Brock

All three sites provide trainees with critical training and vital exposure to patients, during their Fellowship.
Divisional Overview

The UBC Division of Endocrinology continues under the leadership of Professor and Head, Dr. Ehud Ur.

Academic medicine has become a viable career trajectory for graduates of the UBC Endocrinology Fellowship Program, and the Division has the expertise and capacity to develop a national reputation for producing high-quality academic clinicians. With the increase of people living with diabetes and other endocrine disorders, continued growth of the Division and in the specialty will make a significant impact.

Education

The Division of Endocrinology residency training program taught more subspecialty residents than ever before with two or three provincially funded positions and one or two clinical research fellows annually. Endocrinology training sites expanded to Royal Columbian Hospital and Surrey Memorial Hospital. The Program was successfully reviewed and accredited in 2013. Taking over from Dr. Breay Paty, Dr. Jason Kong is the new Program Director for the Division.

Research

Research activity in the UBC Division of Endocrinology and Metabolism spans a wide range of areas including diabetes (including diabetes delivery education research and telehealth), osteoporosis, inflammation and metabolic dysfunction, lipid metabolism and atherosclerosis, pituitary and thyroid diseases and women’s health – all of which have produced a number of peer reviewed publications in high impact journals.

Our Division members have given presentations as invited speakers and attended local, national and international conferences.

Highlights

- Dr. Shirin Kalyan was successfully recruited as an Assistant Professor, without review in 2015. As an outstanding basic and clinical scientist, with a background in endocrinology, women’s health, immunology and molecular genetics, she strengthens the Division’s academic and research mission.
• Dr. Tricia Tang was awarded a CIHR Grant to study a novel model for South Asian Diabetes Treatment in Primary Health Care.
• Dr. Jason Kong was appointed Program Director in the Division of Endocrinology.

**Patient Care**

Division members participate in patient care throughout the Vancouver Lower Mainland including Vancouver General Hospital, St. Paul’s Hospital, Royal Columbian Hospital, Richmond Hospital, Victoria General Hospital and Surrey Memorial Hospital.

Specialty Clinics within the Division include:

St. Paul’s Hospital:
• Thyroid Clinic
• Pituitary Clinic
• Reproductive Clinic
• Prevention (Lipid) Clinic

Vancouver General Hospital:
• Adult Metabolic Diseases Clinic
• Islet Cell Transplant Clinic

**Future Directions**

In line with our academic mission, we expect to recruit new members to increase the presence of the Division of Endocrinology within the UBC Department of Medicine.
Divisional Overview

The UBC Division of Gastroenterology consists of the faculty of the two main teaching hospitals, Vancouver Acute (Vancouver General Hospital and UBC Hospital), and St. Paul’s Hospital (Providence Healthcare). The Division also has faculty members at the distributed sites including Richmond General Hospital, Royal Columbian Hospital, Lions Gate Hospital and Surrey Memorial Hospital in the Lower Mainland; the Victoria and Vancouver Island Hospitals, Royal Inland Hospital (Kamloops), Kelowna General Hospital and the University Hospital of the North in Prince George.

The faculty consists of both Geographic Full Time Faculty (GFT) and Clinical Faculty Association members. There are also associate members who are located at distributed sites as well as associate members who are members of other Divisions and share areas of academic interest in common with the Division of Gastroenterology.

Education

The faculty of the UBC Division of Gastroenterology are involved in several specific and specialized clinical academic programs. These include:

- Undergraduate medical education of 3rd and 4th year medical students
- Postgraduate medical education of medical and surgical residents
- Gastroenterology Fellowship Training Program
- IBD Fellowship Training Program Director
- Transplant Hepatology Fellowship Training Program
- Advanced Therapeutic Endoscopy Fellowship Training Program
- Colon Cancer Screening Program
- Train the Trainer
- Skills Enhancement in Endoscopy (SEE)
- Continuing medical education events and conferences including monthly journal clubs, GI Forum, Liver Forum, IBD Mentoring, CSP Education Day and Gastroenterology Advances

Research

The faculty of the Division of Gastroenterology are very involved in both clinical and basic science research. Drs. Bill Salh and Isabella Tai are actively involved in basic science research programs supported by national and provincial granting agencies including CIHR, HSFC, CCFC, and the Canadian Society for Intestinal Research (CSIR).

Dean Dermot Kelleher is involved in translational research and is presently working on a ‘bench to bedside’ model with Dr. Fergal Donnellan and Dr. Rob Enns.
Clinical research is strong within the Division of Gastroenterology and is expanding. The specific areas of clinical research include: inflammatory bowel disease, therapeutic endoscopy, liver disease, viral and non-viral hepatitis, hepatocellular cancer, liver transplantation as well as solid organ transplantation and donation.

Dr. Rob Enns is the Director of the Gastrointestinal Research Institute located at the Pacific Gastroenterology Associates office site. Dr. Enns is actively involved in investigator initiated clinical research and has developed outstanding clinical research expertise in capsule endoscopy and therapeutic endoscopy and is well published in these areas. As well, Dr. Enns is a co-author on the National Consensus Guidelines for capsule endoscopy.

Dr. Eric Lam and Dr. Fergal Donnellan are actively engaged in clinical research in the field of endoscopic ultrasound while at the same time developing areas of advanced endoscopic directives such as endoscopic submucosal dissection techniques. Dr. Brian Bressler has established a clinical research program in inflammatory bowel disease and is presently developing an IBD Research network and center. Working with Dr. Greg Rosenfeld, Dr. Yvette Leung has an interest in IBD as it particularly relates to pregnancy and these clinics have been developed in a multidisciplinary fashion. Dr. Jennifer Telford is conducting multiple research studies for the Colon Screening Program.

In addition to the BC Hepatitis Program, the Division of Gastroenterology at Vancouver General Hospital has created a separate Luminal Gastroenterology Clinical Trials Unit under the leadership of Dr. Bill Salh.

Dr. Fergal Donnellan’s research interest is capsule endoscopy, EUS and quality control. Dr. Michael Byrne is developing Artificial Intelligence applications for GI endoscopy.

Patient Care

Full clinical in-patient and out-patient services are provided at the teaching hospitals as well as the distributed hospital sites. In particular, the main teaching hospitals, Vancouver General Hospital (VGH) and St. Paul's Hospital (SPH) are provincial quaternary hospitals and are the main destinations for patient transfers from community hospitals throughout BC and the Yukon Territories via BC Patient Transfer Network and the “Life, Limb or Transplant” policy. Around 80 liver transplants were performed in 2016.

Specialized therapeutic endoscopy consisting of ERCP, both diagnostic and therapeutic, is offered as a clinical service at the VGH, SPH and Royal Columbian Hospital sites in the lower mainland and at the Victoria Hospital Corporation institutions. Barrett’s esophagus management provincially is performed at the BC Cancer Agency by Dr. Alan Weiss and at SPH and VGH by Dr. Rob Enns and Dr. Fergal Donnellan, respectively.

The specialized modalities of endoscopic ultrasound and capsule endoscopy are available at St. Paul's Hospital and Vancouver General Hospital. Endoscopic ultrasound is also available at the BC Cancer Agency Vancouver Clinic and is performed by UBC faculty with cross-appointments. The Division is involved in clinical activity with British Columbia Transplant and the British Columbia Cancer Agency (PHSA). In addition, ESD programs are being initiated at both VGH and SPH under the direction of Dr. Fergal Donnellan and Dr. Eric Lam respectively.

Dr. Eric Yoshida awarded the Order of British Columbia

Dr. Hugh Chaun awarded the CAG 2016 Distinguished Service Award
Education

Medical Education
Dr. Rose Hatala is part of an international collaboration developing on-line adaptive tutoring systems for undergraduate and postgraduate medical education. Focusing currently on teaching electrocardiogram (ECG) interpretation, the investigators are demonstrating that it is possible to create a systematic large collection of medical images that fully represents the spectrum in the Electronic Health Record. Using advanced statistical and cognitive models, they are creating a more efficient and authentic learning algorithm that better matches with an individual’s learning curve. Perhaps most importantly, they are developing an instructional framework that can generalize to visual learning in other domains.

All of our faculty are actively involved in teaching in both the inpatient setting when on the Clinical Teaching Unit or in the Rapid Access Specialist Clinic. This is integral to any care we provide and multiple members have been recognized for their substantial contributions to medical education through teaching awards.

Research

Educational Research
Both Dr. Kevin Eva and Dr. Rose Hatala have been highly productive in the area of assessment, simulation, feedback. They both hold peer-reviewed funding and have published over 20 refereed manuscripts.

Clinical and Population Health Research
Dr. Nadia Khan holds three active CIHR funded operating grants as PI in the area of ethnicity, hypertension, cardiovascular diseases and has produced eight refereed publications. Dr. Anita Palepu is the Vancouver-site PI for a CIHR Project Scheme grant entitled MedSafer: Reducing post-discharge adverse drug events amongst the elderly: a multi-centre electronic deprescribing intervention. She has six refereed publications. Dr. John Staples was awarded a 3-year CIHR Project Grant as PI entitled: Syncope and the subsequent risk of motor vehicle crash: A population-based analysis. He has three refereed publications in the area of traumatic brain injury.

Basic Science Research
Dr. Liam Brunham joined the UBC Division of General Internal Medicine in 2015 and is a rising star. He was awarded the Heart and Stroke Foundation National New Investigator Award and successfully secured competitive funding from the Canadian Foundation of Innovation and the Stem Cell Network of Canada to support his lab and work in genomics, lipids, pharmacogenomics and premature coronary disease. He produced seven refereed publications.

Patient Care
The Division of General Internal Medicine at St. Paul’s Hospital (SPH) consults on the majority of patients who require Internal Medicine assessment in the Emergency Department and admission to hospital.
We have a busy acute medicine Clinical Teaching Unit service with five inpatient teams. We have an Emergency Department Triage and Consultation team that assess patients and is responsible for Medical Consults from other services (mostly Surgery and Psychiatry). We also have a Parallel Internal Medicine Service to decant sub-acute patients from the CTU to improve flow and maintain team sizes of ~18 for patient safety and trainee learning. The Division has been actively involved in the Medical Operational Excellence Transformation (MOET) to improve our processes of care and prototype best practices for handover, discharge planning, team care and our admission processes. The CTU is the cornerstone of the hospital’s teaching program that supports and enables other subspecialty and surgical programs to thrive.

**Perioperative Medicine (inpatient and ambulatory)**
We have four physicians primarily sited at Vancouver General Hospital (VGH) who run an active consultation and follow-up service for patients on Orthopedics, Hepatobiliary and General Surgery. We also have an active ambulatory GIM program at the Rapid Access Specialist Clinic at both VGH and SPH that serves to provide CTU patient follow-up after discharge, ED referrals and urgent referrals from primary care. These are teaching clinics with medical students and residents with a focus on education and learning in the ambulatory setting, which is a very different experience from inpatient acute medicine. In addition, Division members actively participate in the GIM RACE (Rapid Access to Consultative Expertise) line.

**Hypertension (ambulatory)**
We have four faculty at SPH who are Hypertension specialists. We have clinics for resistant hypertension at SPH to optimize blood pressure measurement and management for patients whose blood pressure has been challenging to treat. Poorly controlled hypertension is associated with substantial morbidity (renal, cardiac, stroke), acute care use with ED visits and hospital admission for hypertensive emergency and urgency, and premature mortality. We employ motivational interviewing techniques to improve adherence to medications and focus on lifestyle interventions in addition to pharmacologic treatments.

**Thrombosis (ambulatory)**
Dr. Anna Rahmani sees patients for GIM and Thrombosis in the SPH Rapid Access Specialist Clinic. She has expertise with the DOACs, bridging anticoagulation for procedures, DVT and PE management.

**Eating Disorders (inpatient and ambulatory)**
We have three faculty who have expertise in managing the medical complications of the Eating Disorder patients, which is a tertiary program housed in Mental Health at PHC. It is a provincial resource. These patients are very complicated medically and challenging to manage, particularly their re-feeding and electrolyte and volume management.

**Obstetrical Internal Medicine (inpatient and ambulatory)**
Drs. Jayson Potts, Wee-Shian Chan, and Sue Purkiss work at BC Women’s Hospital and Dr. Potts also does CTU at SPH as well an OB Internal Medicine clinic at the SPH Rapid Access Specialist Clinic.

**Chronic and Complex Disease Clinic (ambulatory)**
BCWH – Drs. Ric Arseneau, Jane McKay and a few others participate in this multidisciplinary clinic, which has become a highly successful program under Dr. Arseneau’s leadership.

**Palliative Care (inpatient and ambulatory)**
Dr. Gil Kimel attends on the Palliative Care ward at SPH and has been successful in building a healthy relationship with the St. Paul’s Hospital CTU. He is the Physician Program Director of Palliative Care at Providence Health Care.

**Rural and Remote Outreach**
There are four faculty who regularly do outreach to underserved communities in northern BC and in Yellowknife, NWT: Drs. Stephane Voyer, Marie Pierre Dallaire, and James Tessaro. Dr. MP Dallaire has worked closely with Dr. John Pawlovich (Family Medicine) and Dr. Terri Aldred to build relationships with the many First Nations communities. She and others are using telehealth to communicate and follow-up with patients and staff in these places. We have a recent GIM graduate, Dr. Denise Jaworsky, who was recently hired in Terrace (Mills Memorial Hospital) who will continue to collaborate with the group through outreach and provide longitudinal care to these patients. Dr. Dave Sohi regularly does outreach to Terrace, BC and Dr. James Tessaro goes to Yellowknife to provide Internal Medicine services.

**Bridge Clinic (Refugee Health)**
Dr. Stephane Voyer and Dr. Trudy Naismith are providing a weekly clinic for this patient population who frequently have undiagnosed and unmanaged medical conditions.

**Urban Clinic Outreach**
Drs. Cary Cuncic, Penny Tam, Harp Nagi and Peter Weerasinghe participate in weekly Internal Medicine clinics at the Ravensong Community Health Centre providing consultative and directive care to patients with complex medical problems. Dr. Debbie Rosenbaum has regular clinics at the Portland Hotel and the Pennsylvania Hotel with family physician Dr. Christie Sutherland. These clinics have been a success in terms of providing access to specialist care to patients who are hard to reach and also provides important learning experiences for the GIM fellows interested in serving this population.

**Future Directions**
- Expanding our ambulatory and outreach activities
- Development of a Point of Care Ultrasound Curriculum
- Expanding Perioperative Medicine service
- Increasing educational research pilots
- Increasing research capacity
- Increase the number of GIM subspecialty trainees (R4-5) to meet the needs of the province
Geriatric Medicine

DIVISION HEAD:
• Dr. Janet Kow

DIVISION STAFF:
• Becky Nagra

DIVISION MEMBERS:
• Dr. L Beattie
• Dr. G Meneilly
• Dr. L Dian
• Dr. R Wong
• Dr. K Madden
• Dr. A Hill
• Dr. J Kow
• Dr. M Chung
• Dr. P Lee
• Dr. I Alimoradi
• Dr. K Bell
• Dr. S Comeau
• Dr. W Cook
• Dr. A Forbes
• Dr. J Liao
• Dr. D Maher
• Dr. M O’Connor
• Dr. C Petrossian
• Dr. C Rauscher
• Dr. S Skanthan
• Dr. H Syed
• Dr. K Balogh
• Dr. K Barnett
• Dr. M Bater
• Dr. J Budlovsky
• Dr. J Chase
• Dr. P Chin
• Dr. M Fok
• Dr. L Jain
• Dr. K Kjorven
• Dr. L Lai
• Dr. A Li
• Dr. W Lin
• Dr. L Lo
• Dr. M Malone
• Dr. D Mangat
• Dr. J Menezes
• Dr. M Mian
• Dr. N Parmar
• Dr. H Ranchod
• Dr. M Spencer
• Dr. N Stewart
• Dr. P Thornton
• Dr. N Varshney
• Dr. D Villanyi
• Dr. M Wan
• Dr. D Williams

Divisional Overview

The Division of Geriatric Medicine has grown significantly since its inception in the 1980s under the leadership of Dr. B. Lynn Beattie.

The Division currently provides a wide range of clinical services as well as teaching across all sites, including Vancouver/Richmond, Providence, the Fraser region, Vancouver Island, and the Interior Health Authorities. These include very active multi-disciplinary as well as physician-only inpatient geriatric consultation services, in-patient acute care for elders, geriatric ambulatory care and multiple outpatient clinics. A number of Geriatricians attend on CTUs in Vancouver, Providence, and the Fraser Health Authorities bringing their knowledge of care of the elderly to trainees during their Internal Medicine rotations, and enhancing recruitment opportunities for future Geriatric Medicine fellows. Geriatricians also provide outreach to communities in the interior and northern regions of British Columbia, and provision of Telehealth through VIHA and NHA. The Division’s major areas of research emphasis are in health services research, diabetes, dementia, osteoporosis, falls prevention and cardiovascular disease.

Education

Undergraduate
Dr. Janet Kow finished her term as assessment director of the Undergraduate Education Committee overseeing the Third Year Internal Medicine Clerkship and instituted the incorporation of Work Based Assessment. Dr. Naaz Parmar is Week Chair for the Dementia CBL week in Year Two and organizer for the geriatrics component of the clinical skills course in Year Two. She is the Geriatrics Theme Lead for Curriculum Renewal. The Divisions of Geriatric Medicine and the Division of Community Geriatrics in the Department of Family practice are collaborating to enhance Geriatrics Teaching in the undergraduate Curriculum. All Division members teach in various components of case-based learning and clinical skills, as well as on the clinical teaching services in geriatrics and internal medicine. A number of popular Fourth Year electives are offered at numerous sites in the Vancouver Fraser program.

Postgraduate
The UBC Geriatric Medicine Fellowship under the leadership of Program Director, Dr. Lawrence Lo, continues to be one of the largest and most successful Geriatric Medicine training programs in the country. The resident numbers have tripled over the last 10 years, including a number of Gulf State trainees.

Dr. Janet Kow completed her term as Chair of the Royal College Geriatric Medicine Examination Committee. Dr. Roger Wong continues as Executive Associate Dean Education, UBC Faculty of Medicine and is very active on the national stage with Postgraduate Education with the Royal College of Physicians and Surgeons. Dr. Wong is spearheading the introduction of Competency by Design and is a national leader on advancing Quality Improvement in Residency training. He also has deep and active connections throughout Asia.

Dr. Wendy Cook is Associate Program Director - Curriculum for the UBC Postgraduate Internal Medicine Program and was instrumental in instituting the 1st year Boot Camp Course. She is very active in developing Competence by Design in the Internal Medicine Program. Dr. Martha Spencer
received the St. Paul’s Excellence in Teaching Award. Drs. Anson Li, Amanda Hill, and Jocelyn Chase have all been awarded the UBC Medicine Teaching Honour Roll. Division members generally have among the highest teaching ratings at UBC Medicine. Geriatric Medicine Preceptors are a consistent year-round part of the CTU teaching rotations at SPH, VGH and RCH. Dr. Amanda Hill runs the Internal Medicine Residency International Health Project. This partnership allows residents and attending staff to experience a very different practice of medicine and social advocacy by working at hospitals in Uganda. All Division members continue to be actively involved in the teaching of Internal Medicine Residents and Fellows in the principles of the care of the frail elderly, including the Clinical Teaching Units and Noon Rounds for medical residents in Vancouver, Richmond, Fraser Health, and Vancouver Island Health Authorities. Residents have rated teaching in Geriatric Medicine among the highest of the divisions in the Department of Medicine. The Division also provides rotations for Family Practice Care of the Elderly physicians, Physical Medicine and Rehabilitation, Psychiatry residents and Nurse Practitioners.

Continuing Medical Education
The Division delivers a highly successful annual CPD program entitled “Geriatrics Intensive Course”. It is a 4-day course on Geriatrics for Family Physicians and Nurse Practitioners. It is fully subscribed yearly and has some of the highest ratings of all UBC CPD offerings. The plenaries are being distributed online. The course will be offered in a modified form in Kelowna in 2018. Dr. Janet Kow is on the CPD committee for the Canadian Geriatrics Society. Dr. Janice Menezes coordinates the UBC Geriatric Medicine Grand Rounds, which are telecast weekly throughout British Columbia and are now regularly watched asynchronously online, the first UBC Division to do so. Several members of the Division continue to be active in CME including national and provincial initiatives in the areas of dementia, osteoporosis, and cardiovascular fitness as well as care of the hospitalized elderly.

Research
Dr. Graydon Meneilly continues his research program in diabetes and carbohydrate metabolism in older adults. He is a member of the Canadian Academy of Health Sciences and the Canadian Association of Professors of Medicine. He has served on numerous panels, including the Institute Advisory Board of the CIHR Institute of Aging. Dr. Ken Madden is currently principal investigator for 6 years of continuous funding from the CIHR (valued at approximately half a million dollars), and is co-investigator on two other CIHR operating grants (value of $450,000) and a CIHR team grant (value of $2 million dollars). He has demonstrated an increasing international profile. He is the Editor-in-chief of the Canadian Journal of Geriatrics (the only Canadian geriatric medicine/geriatric psychiatry journal), and since taking over the journal he was successful in having it indexed in PubMed and switched it to an open access mode. He is the chair of the North American Regional Council of the International Association of Gerontology, and has been invited to speak by several international organizations (Oslo University Hospital, Yale Program on Aging). He has presented his research at a number of gerontological and diabetes meetings, and was asked to judge abstracts and chair sessions at the Canadian Cardiovascular Congress. He is a reviewer for numerous scientific journals, including the Journal of Applied Physiology, and was a member of a CIHR peer review committee, and the CIHR Age-Plus Prize committee. He provides mentorship in research to fellows, residents and postgraduate MSc and PhD candidates.

Dr. Larry Dian is co-investigator at the ProHealth Clinical Research Center and is interested in osteoporosis and falls in the frail elderly. He is a member of the Scientific Advisory Council for Osteoporosis Canada.

Despite the clinical faculty being a small Division, the research activities are numerous and highly regarded. Many research endeavours are trainee projects and have been presented at conferences internationally.

Patient Care
Division members are highly active in all parts of British Columbia and, despite the Division’s small size, have contact with numerous teams and patients in all BC Health Authorities, bringing Geriatric expertise to the frailest patients in British Columbia. The primary teaching sites in Vancouver, Victoria, White Rock and New Westminster participate in in-patient, consultative services, outreach and multi-disciplinary clinics looking after thousands of patients annually in all the teaching hospitals and in the Community including Residential Care. Geriatric services are vital to hospitals working closely with Internal Medicine services to offer multidimensional inpatient and urgent care.

Multiple Division members participate in outreach throughout the province including Haida Gwaii, Terrace, Fort St John, and Prince Rupert. These innovative outreach trips pair Geriatric Medicine and Geriatric Psychiatry clinicians, including Senior residents, to Northern Communities allowing a holistic and comprehensive service to complex older adults who cannot otherwise travel for health care.

Telehealth from Vancouver to smaller communities in the Vancouver Island and Northern Health Authorities has also been successful and run throughout the year but particularly in the winter when travel is challenging. Division members work in a number of specialized clinics offering services beyond general Geriatric Medicine including the only Multidisciplinary Continence Clinic in BC, the Alzheimer’s and Related Dementias Clinic, Falls and Osteoporosis Clinics. In addition, partnerships with other Departments to offer appropriate Geriatric evaluations for Frail Perioperative, Cardiac and other patients have been developed throughout the future.

Future Directions
The Division will continue to spearhead clinical services to the rapidly growing BC Senior population. Education for undergraduate, postgraduate and Primary Care Practitioners will develop an encompassing network of clinicians with Geriatric interest and expertise throughout British Columbia. Research on Healthy Aging, Prevention and Health Services to older adults will explode in the next decade.
Divisional Overview

In 2015 and 2016, the UBC Division of Hematology included 39 staff and 6 associate staff members based at the Vancouver General Hospital (VGH), St. Paul’s Hospital (SPH), Royal Columbian Hospital (RCH), the Terry Fox Laboratory (TFL) at the British Columbia Cancer Research Centre (BCCRC) of the BC Cancer Agency (BCCA) and the University of British Columbia (UBC).

Laboratory research programs at TFL, UBC and Vancouver Coastal Health Research Institute (VCHRI) achieved peer-reviewed operating support and clinical research at VGH and SPH brought in a total of $7 million. There were a total of 79 peer-reviewed publications and consistently publishing in high-impact journals. Patient care and training remained at the forefront of clinical activities. Trainees in the Division as a whole included 15 Hematology residents, 23 Leukemia/BMT fellows (in overlapping academic years).

Education

Rotations were taken at Vancouver General Hospital, St. Paul’s Hospital, BC Children’s Hospital, BC Women’s Hospital & Health Centre, BC Cancer Agency and various hospital locations in BC, including Vancouver, Surrey, Kelowna, and Victoria. The rotations offer residents, fellows, including international trainees, training in hematology, stem cell transplantation, thrombosis, and laboratory research.

Research

Hematology Research Program (HRP) comprised 23 researchers and studied malignant blood diseases such as acute and chronic leukemia and multiple myeloma and research in stem cell transplantation. A number of clinical trials (in-house, national and international clinical trials) had matured with publications in academic journals, including The Lancet, and were presented at major international conferences, such as ASH.
In 2015, a new multi-institutional study of minimal residual disease (MRD) in acute myeloid leukemia (AML) patients was developed by Dr. David Sanford, to help physicians design a treatment plan with or without stem cell transplant in order to prevent relapse and increase the chance of cure.

**Patient Care**

In 2015-2016, the Division of Hematology saw approximately 3,600 new patients and continued to be responsible for all of British Columbia’s adult stem cell transplants, care provided each year includes:

- All of province’s adult stem cell transplants with over 550 new referrals to the L/BMT Program
- Leukemia/Bone Marrow Transplant Program of BC performed about 250 autologues/allogeneic stem cell transplants and saw approximately 100 new cases
- Thrombosis Program saw approximately 1,500 new patients in the clinical at VCH

**Highlights**

- In April 2015, the Survivorship Program officially launched, this is a long-term follow-up clinic and is the only one of its kind in Canada.
- Dr. David Sanford joined the Division in September 2015.
- Awards & Recognitions:
  - Dr. Ed Conway: CSL Behring Research Chair in Endothelial Cell Biology, 2009-2017
  - Dr. Ed Conway: Tier 1 Canada Research Chair in Endothelial Cell Biology, 2016-2023
  - Dr. Steve Nantel: Master Teacher Award, Department of Medicine, VGH, 2016
  - Dr. Alina Gerrie: Nominated for New Principal Investigator’s Meeting, Canadian Institute of Health Research Institutes of Cancer Research and Genetics, 2016
  - Dr. Alina Gerrie: Honour Roll for Clinical Teaching Excellence, Department of Medicine, UBC, 2016

79 peer reviewed papers published

Received ~ $7 million grant awards in 2015-2016

One of a kind survivorship program launched in 2015
Infectious Diseases

DIVISION HEAD:
• Dr. Peter Phillips

DIVISION STAFF:
• Lainie Burgess
• Kirstie Lang
• Melanie Parris
• Joan Pablico
• Sara Doherty
• Marilyn Robertson

DIVISION MEMBERS:
• Dr. Y Av-Gay
• Dr. W Bowie
• Dr. R Brunham
• Dr. R Chan
• Dr. A Chow
• Dr. Q Dinh
• Dr. J Hajek
• Dr. Z Hmama
• Dr. M Kestler
• Dr. R Lester
• Dr. V Montessori
• Dr. M Murray
• Dr. P Phillips
• Dr. N Pick
• Dr. N Press
• Dr. N Reiner
• Dr. R Reynolds
• Dr. T Steiner
• Dr. H Stiver
• Dr. A Wright
• Dr. K Afra
• Dr. Y Arikan

• Dr. H Bach
• Dr. M Chapman
• Dr. G Deans
• Dr. W Ghesquiere
• Dr. J Grant
• Dr. T Grennan
• Dr. M Hull
• Dr. T Lau
• Dr. K Laupland
• Dr. V Leung
• Dr. L Luft
• Dr. S Malhotra
• Dr. A Markanday
• Dr. R McMaster
• Dr. Y Mirzanejad
• Dr. D Money
• Dr. D Patrick
• Dr. L Peters
• Dr. M Rekart
• Dr. S Reynolds
• Dr. J Vortel

Divisional Overview

Infectious Diseases’ active faculty increased in size in 2015/2016 to include sixteen clinicians, clinical scientists, full time research faculty, another twenty-four associate members, and four emeritus faculty. Activities have been focused at the three teaching hospitals; Vancouver General (VGH), St. Paul’s (SPH), and BC Children’s & Women’s Hospitals, (BCCWH) and at the BC Centre for Disease Control (BCCDC).

Education

Undergraduate
Dr. Mary Kestler, as the Undergraduate Education Supervisor for the Division of Infectious Diseases has been involved with ongoing curriculum changes which have been well received.

Postgraduate
The Residency Training Program Director, Dr. Natasha Press, along with Medical Education Coordinator, Kirstie Lang, have supervised inpatient and outpatient training of 93 trainees from various UBC medical and surgical programs, in addition to 42 trainees from other Canadian medical schools doing elective rotations.

In addition to weekly journal club and also weekly Clinical Case Conference (accessible by video conferencing throughout the province) the other educational activities include once weekly Academic Half-Day for fellows, weekly Tropical Medicine teaching rounds, and three times weekly Combined Structured Teaching (CST) didactic presentations provided by the faculty for residents and students. There are currently five Infectious Diseases fellows in the training program.

Graduate Students
Masters and PhD science students are affiliated with healthcare and epidemiology, laboratory medicine, microbiology and immunology and medical genetics.

Courses
Several Division members participate in the Tropical and Geographic Medicine Intensive Short Course, which is convened annually by the School of Population and Public Health, UBC.

Research

Research programs are diverse and broad based including microbial pathogenesis, host defense and AIDS as well a wide range of epidemiological research focused on sexually transmitted and emerging infectious diseases. Clinical and translational research includes antimicrobial stewardship and links to emerging resistant organisms as well as influenza and Clostridium difficile.
Global health research includes the use of mobile devices to support medical practice. For example, specific studies involve the use of SMS texting to improve outcomes in the management of HIV/AIDS. The efficacy of SMS texting is also being studied in the context of pre-exposure prophylaxis and latent tuberculosis infection.

Patient Care

The Division maintains very active inpatient consultation services at Vancouver General and St. Paul’s Hospitals. Transplant Infectious Diseases has been initiated as a third parallel clinical service at Vancouver General Hospital in 2016. The first and second services at VGH are involved in the management of a wide range of infectious diseases problems involving medical and surgical patients including neurosurgery, reconstructive, trauma and spine orthopedics.

At St. Paul’s Hospital, the three clinical services include general infectious diseases, the Urban Health Acute Care Unit (HIV/AIDS, and infectious diseases among patients with active addiction issues) and the outpatient parenteral antibiotic therapy (OPAT) clinic. The differing patient populations between Vancouver General Hospital and St. Paul’s Hospital provides a broad experience for trainees. Finally, the antibiotic stewardship programs at both St. Paul’s Hospital and Vancouver General Hospital include team members from ID, Medical Microbiology and Pharmacy providing evidence-based and cost-effective use of antimicrobial drugs for inpatients at both sites.

Highlights

Awards
• Dr. Victor Leung: Incubator Award, AMMI Canada (Association of Medical Microbiology and Infectious Disease Canada)
• Dr. Valentina Montessori: St. Paul’s Master Teacher Award
• Dr. Melanie Murray: Honour Roll for Clinical Teaching Excellence Award postgraduate inpatient/outpatient
• Dr. Melanie Murray: HIVMA Medical Student Award (supervisor)
• Dr. Tim Lau: Specialties in Pharmacy Practice Award
• Dr. Peter Phillips: UBC Critical Care ACCOLADE Award for contribution to learning and education

Recruitment
• Dr. Allison Mah

Future Plans
• A clinical service for inpatient penicillin allergy assessment, testing, and de-labelling has been established at St. Paul’s Hospital
• Expansion of rapid access to Tropical Diseases clinical services is underway at Vancouver General Hospital

Division Research encompasses a wide variety of topics including but not limited to HIV/AIDS and Host Defence and Pathogenesis, respectively, shown above.
Medical Oncology

DIVISION HEAD:
• Dr. Karen Gelmon

DIVISION MEMBERS:
• Dr. H Anderson
• Dr. V Bernstein
• Dr. C Blanke
• Dr. N Bruchovsky
• Dr. T Chan
• Dr. W Cheung
• Dr. K Chi
• Dr. S Chia
• Dr. J Connors
• Dr. M Coppes
• Dr. C Coppin
• Dr. S Ellard
• Dr. C Fitzgerald
• Dr. P Galbraith
• Dr. K Gelmon
• Dr. A Gerrie
• Dr. S Gill
• Dr. K Gill
• Dr. C Ho
• Dr. P Hoskins
• Dr. H Kennecke
• Dr. R J Klasa
• Dr. M Knowling
• Dr. C Kollmannsberger
• Dr. J Laskin
• Dr. L Lê
• Dr. C Lee
• Dr. H Lim
• Dr. Maclean
• Dr. B Melosky
• Dr. N Murray
• Dr. G Pansegrau
• Dr. D Renouf
• Dr. K Savage
• Dr. L Sehn
• Dr. A Shah
• Dr. T Shenkier
• Dr. S Smiljanic

Divisional Overview

The Division of Medical Oncology, within the Department of Medicine, has members from six BC Cancer Agency Cancer Centres as well as other teaching hospitals. At this time there are 98 members either with an academic appointment or with an appointment pending. The majority of these are within the cancer centers. With an academic focus medical oncologists within the cancer centers have UBC academic appointments.

Faculty

A full list of the faculty, which includes details of their rank, is available upon request. Although most of the members are clinical faculty there are also grant tenure members: Drs. George Browman, Kim Chi, Stephen Chia, Sharlene Gill and Kerry Savage, and partner appointments, more recently, of Drs. Winson Cheung, Karen Gelmon, Hagen Kennecke, Daniel Renouf, Gillian Mitchell and David Scot. Since early 2013 there have been a number of members retire or move including Drs. Winston Bishop, Max Coppes, David Fenton, Tina Hsu, Richard Klasa, Grant MacLean, Heidi Martins, Jorg Michels, Kevin Murphy, Susan O’Reilly, David Saltman, Sheila Soulierre, Judith Sutherland, Brian Weinerman and Kenneth Wilson. There was also the death of Professor Emeritus, Dr. Nicholas Bruchovsky in 2015.

Education

In terms of education, our group participates actively in education at all levels of the Medical Faculty. The teaching commitment from the centres is outstanding with a large number of faculty participating and receiving excellent evaluations.

Our Medical Oncology Residency program, which is run by Dr. Howard Lim, has a continued excellent rating with a high interest from residents nationally. A major activity of our group is the development of evidence-based guidelines for care across British Columbia, nationally and internationally. We continue to encourage excellence in teaching, translational and clinical research and patient care as activities in our Division.
**Nephrology**

**DIVISION HEAD:**
- Dr. Adeera Levin

**DIVISION MEMBERS:**
- Dr. A Jamal
- Dr. B Jung
- Dr. D Landsberg
- Dr. D Prchal
- Dr. G Nussbaumer
- Dr. J Gill
- Dr. J Gill
- Dr. L Luca
- Dr. M Kiaii
- Dr. M Beaulieu
- Dr. M Farah
- Dr. A Levin
- Dr. C Yeah
- Dr. J Duncan
- Dr. M Copland
- Dr. N Zalunardo
- Dr. O Johnston
- Dr. P Neufeld
- Dr. P Keown
- Dr. R Shapiro
- Dr. S Barbour
- Dr. S Singh
- Dr. B Cameron
- Dr. R Werb
- Dr. A Rae
- Dr. C Yan
- Dr. B Forzley
- Dr. C Zhang
- Dr. J Conley
- Dr. A Singh
- Dr. K Horgan
- Dr. G Daniel
- Dr. D Schwartz
- Dr. M Bevilleau
- Dr. M Brown
- Dr. G Carpenito
- Dr. C Jones
- Dr. S Lam
- Dr. K Scobie
- Dr. R Starko
- Dr. B Strijack
- Dr. S Torng
- Dr. E Welsh
- Dr. Y Zeng

**Divisional Overview**

Our two downtown sites are St. Paul’s Hospital (SPH) and Vancouver General Hospital (VGH), while the Royal Columbian Hospital (RCH), Surrey Memorial (SMH), and Abbotsford (AH) in the Fraser Health Authority, as well as Interior Health, Northern Health and Vancouver Island Health Authorities all participate in divisional activities. This distributed model of education, clinical care and research within British Columbia is unique and offers ever increasing potential for sustainability and dissemination. Together the faculty provides provincial leadership in research, education, and clinical care within the field of renal medicine.

The 22 members of the downtown campuses of the Division have a strong clinical base and provide integrated and decentralized nephrology care throughout Vancouver Coastal Health, including Richmond, North Vancouver and coastal areas, and as far north as the Yukon Territory, with a strong working collaboration with Fraser Health, VIHA, IHA and NHA. Fraser Health has established strong links with the Internal Medicine program and Division of Nephrology programs so that exposure to clinicians and teachers are available. All HA offer extended opportunities for clinical exposure for our Nephrology fellows and medical students.

We have an expanding international and post doctoral fellowship in home based therapies, transplantation, dialysis and health administration since 2011. Research activities encompass both laboratory and clinical sciences, with a strong focus on epidemiology and clinical trials, and population health and outcomes/economic investigations in both kidney disease and transplantation. Members of the Division assume leadership roles in the advancement of nephrology at provincial, national and international levels through their positions in the BC Provincial Renal Agency, BC Transplant, the Regional Renal Programs, the Kidney Foundation of Canada, the Canadian Society of Nephrology, the Canadian Society of Transplantation, The Transplantation Society and International Society of Nephrology. Administrative support for the program is managed by Ms. Pam Sewell (Admin and CME) and Ms. Tammie Davis (Postgraduate Education for numerous fellowships and scholarships).

**Strong Partnerships with the BC Provincial Renal Agency** has permitted leveraging of resources to support province wide education and research activities to various degrees.

**Highlights of the Year**

- We were awarded the honour of co-ordinating a $40 Million grant from the CIHR SPOR initiative for Chronic diseases : CAN SOLVE CKD: Dr. Adeera Levin (Division Head) is the named PI on this grant, which involves many UBC Division members and forges national partnerships with patients, indigenous peoples and researchers
- Dr. John Gill was awarded a CIHR Foundation Grant for work on Transplant and Health Policy ($1.6m/7 years)
- Dr. Sean Barbour was awarded Michael Smith Scholar Award for integrated program of work in Glomerulonephritis
- Dr. Jag Gill was appointed Head Quality and Metrics, BC Transplant
- Dr. David Landsberg appointed Chair of Canadian Blood Services National Living Donor Program
- Dr. Nadia Zalunardo, Dr. Sean Barbour, and Dr. Gerald DaRoza were awarded UBC Excellence in Teaching awards
- Marcia Bell UBC Nephrology Fund established at UBC to support work of the Division of Nephrology in improving the care of patients across British Columbia through education and research
Alexandra Romann, Gabriella Espina and a group of dedicated staff from BCPRA, under the leadership of Coordinators. The statistical support team includes infrastructures, and situated at different physical locations. Collaborations with research staff at the BC Provincial Renal agency and the iCapture Centre in provincial and regional context with established guidelines, provincial contracts, information systems, central administration and co-ordination for education and other projects. This affords the Division an opportunity to be both a key contributor to and a beneficiary of provincial policies, projects and experiences. British Columbia is widely recognized to be at the forefront of renal care delivery, with active programs for the early detection of renal disease in the population, multidisciplinary coordination of care, delivery of dialysis therapy in the community or at home, and novel approaches to renal transplant donation. The BC Provincial Renal Agency (BCPRA) coordinates the development and integration of renal services, funding, establishment of standards and guidelines, and works in collaboration with each of the health authorities to ensure equal access to care for all patients living with kidney disease. The BC Transplant Society coordinates the funding and oversight of renal and other solid organ transplant services and the retrieval of cadaveric organs and tissues. Within this framework, renal care delivery is based on established principles of integrated chronic disease management through a combination of institutional, community and home-based programs.

The tertiary care teaching hospitals, the Vancouver General Hospital (VGH), St. Paul’s Hospital (SHP Providence Healthcare) and BC Children’s Hospital (BCCH), collaborate to provide ambulatory chronic renal disease care, in-patient management, plasma exchange (SPH), hospital dialysis and renal transplantation, and home-hemo and peritoneal dialysis for adult and pediatric patients with renal disease throughout the Vancouver Coastal Health and other geographical jurisdictions. The home hemodialysis program, headed by Dr. Michael Copland, is now one of the largest of its kind in North America. Novel approaches to education and delivery of newer modalities is a focus for the division province wide. Within the province of BC, 3,500 persons receive dialysis, 2000 persons have received a transplant and over 13,000 persons have chronic kidney disease and are followed by nephrologists.

The Division of Nephrology will continue to grow its education, research and administrative activities, so that the province has a robust infrastructure to support these activities. Ongoing training of fellows in specific content areas (dialysis, transplant, palliative care) and partnerships with BCPRA and BCT will permit expanded opportunities for advanced training to develop the depth and breadth of the Division. Formalized succession planning for major education and administrative roles, as well as formalizing the research structure will enhance the functioning of the division. We are developing sustainable advanced education training positions, investing heavily in ‘human resources’ for the future. Working with all the facilities around the province, the UBC Division of Nephrology will continue to provide excellent teaching, care and research, in a collaborative manner.

We will continue to advocate for excellent patient care, education for physicians and allied health professionals, and the development of interdisciplinary teams of care providers, well trained, to ensure the best outcomes for patients.

Members of the Division generated more than 77 scientific articles in 2015-2016, notably some in high to very high impact journals. Key areas of focus are: health outcomes research, epidemiology, biomarker prediction of clinical events in CKD and transplant populations; resource utilization, and knowledge translation activities. Dr. Sean Barbour and Dr. Jag Gill are funded by the Michael Smith Foundation; Dr. John Gill has Foundation Grant funding from CIHR.

The UBC Division of Nephrology Research programs integrate members from the VGH and SPH and Providence Health sites as well as our associate sites around the province, to ensure full participation and collaboration. The Division’s clinical research activities also include collaborations with research staff at the BC Provincial Renal agency and the iCapture Centre at St. Paul’s Hospital, as well as research groups outside of BC, including the Alberta Kidney Disease Network, CORR, Canadian Transplant Clinical Trials Group, and Australian Clinical Trials Group, amongst others. Divisional resources for research leverage existing infrastructures, and situated at different physical locations. Staff includes a Research Manager, Ms. Katy Vela, and a number of highly-qualified Research Coordinators. The statistical support team includes dedicated staff time from BCPRA, under the leadership of Ms. Ogjenka Djurdjev, and includes Lee Er, Alexandra Romann, Gabriella Espina and a group of data analysts.

Grant funding from CIHR. Michael Smith Foundation; Dr. John Gill has Foundation Grant funding from CIHR.

The UBC Division of Nephrology is a key component of the tertiary education program for medicine and related health sciences for the University of British Columbia. Through its active undergraduate, graduate, post-graduate and continuing medical education programs, the Division is responsible for the training of medical students, interns, residents, sub-specialty residents in nephrology (SSRNIs), rotating trainees in general medicine, anesthesia and other relevant disciplines, graduate and doctoral students, and clinical and research fellows. These programs attract trainees from across Canada, from Australia, Europe, Asia and the Middle East. The primary sites for undergraduate and graduate training are at VGH SPH/Providence Healthcare and Fraser Health Authority, with elective opportunities available in other jurisdictions.

Funding for the educational programs of the Division is provided by UBC, and in collaboration with the BCPRA. Education in pharmacy and allied health disciplines occurs in the same sites under the auspices of UBC and related professional bodies. In 2015-2016, Divisional program directors included Dr. Sunee Singh (Undergraduate Programs), Dr. Peter Neufeld (Postgraduate Programs), Dr. Adeera Levin (Continuing Medical Education), Dr. Jacek Jastrzebski (Advanced Nephrology Training Program) and Dr. Olwyn Johnston (Transplant Fellowship Program). Dr. Gerald Da Roza has responsibility for educational programs in Internal medicine and Nephrology in FHA. Extended training in Provincial Home Therapies programs has been offered, under the direction of Dr. Michael Copland and Dr. Paul Taylor (provincial directors of Home Hemodialysis and Peritoneal Dialysis respectively). Trainees from the United Kingdom, Australia and New Zealand were enrolled in the program.

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We will continue to advocate for excellent patient care, education for physicians and allied health professionals, and the development of interdisciplinary teams of care providers, well trained, to ensure the best outcomes for patients.

Education

The renal services provided by the Division of Nephrology operate within a broad provincial and regional context with established clinical guidelines, provincial contracts, information systems, central administration and co-ordination for education and other projects. This affords the Division an opportunity to be both a key contributor to and a beneficiary of provincial policies, projects and experiences. British Columbia is widely recognized to be at the forefront of renal care delivery, with active programs for the early detection of renal disease in the population, multidisciplinary coordination of care, delivery of dialysis therapy in the community or at home, and novel approaches to renal transplant donation. The BC Provincial Renal Agency (BCPRA) coordinates the development and integration of renal services, funding, establishment of standards and guidelines, and works in collaboration with each of the health authorities to ensure equal access to care for all patients living with kidney disease. The BC Transplant Society coordinates the funding and

Future Plans

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Neurology

DIVISION HEAD:
• Dr. Jon Stoessl

DIVISION MEMBERS:
• Dr. J Barton
• Dr. O Benavente
• Dr. N Cashman
• Dr. S Cresswell
• Dr. D Doudet
• Dr. T Field
• Dr. R Hsiung
• Dr. J Illes
• Dr. L Kastrukoff
• Dr. S Kolind
• Dr. M Mckeown
• Dr. H Nygaard
• Dr. S Pelech
• Dr. J Pettersen
• Dr. J Stoessl
• Dr. T Traboulsee
• Dr. H Tremlett
• Dr. J Beckman
• Dr. N Bogod
• Dr. H Briemberg
• Dr. D Cameron
• Dr. R Carruthers
• Dr. K Chapman
• Dr. V Devonshire
• Dr. E Dilli
• Dr. S Dommann
• Dr. D Foti
• Dr. H Frykman
• Dr. G Gibson
• Dr. S Hayden
• Dr. C Hrzdil
• Dr. K Jack
• Dr. M Javidan
• Dr. D Johnston
• Dr. S Kaiway
• Dr. R Keyes
• Dr. C Krieger
• Dr. M Kula
• Dr. G Mackie
• Dr. S Mann
• Dr. M Mezei.
• Dr. F Moien-Afshari
• Dr. C Murphy
• Dr. A Prout
• Dr. G Robinson
• Dr. A Sayao
• Dr. S Spacey
• Dr. J Squires
• Dr. C Tai
• Dr. J Tan
• Dr. P Teal
• Dr. B Thiessen
• Dr. J Valero
• Dr. M Varelas
• Dr. G Walker
• Dr. L Wilson
• Dr. A Woolfenden
• Dr. S Yip

Divisional Overview

The Division of Neurology is large and spans many activities in clinical, research and educational spheres. In 2015 and 2016, research funding for the Division was over $20M. In addition, there were five Canada Research Chairs (four Tier 1, one Tier 2). Division members generated nearly 180 publications in 2015 and more than 200 in 2016. Special recognition of Division members includes the selection in 2016 of Dr. Judy Illes as President of the International Neuroethics Society and the award of a Michael Smith Foundation Scholarship to Dr. Haakon Nygaard. Division members are active in education at undergraduate, graduate and post-graduate levels. We would like to particularly recognize the enormous contributions of Drs. Esma Dilli, Sharan Mann and Laura Wilson to the undergraduate curriculum in Neurology. Drs. Kristine Chapman, Doris Doudet and Robin Hsiung served on the UBC Clinical Research Ethics Board. The Division continues to grow. In the 2015-2016 academic year, we welcomed one new academic and two new clinical faculty members. The Donald Paty lecture was delivered by Dr. Michael Aminoff (University of California, San Francisco) and the Naveen Deshpande Memorial Lecture was delivered by Dr. Anthony Lang.

Education

Education continues to be a key focus of the Division with our UBC Connect Program having grown to include the following sessions and opportunities:
• Ongoing weekly Tuesday morning “bench to bedside” sessions for trainees, researchers, clinicians, fellows and residents to share ongoing research and clinical topics

• MS/NMO Clinic physician/trainee shadowing providing an opportunity for trainees to follow experienced physicians in the clinic and experience a clinic day
• Monthly physician/fellow journal club and case studies
• Annual UBC MS/NMO Preceptorships highlighting emerging basic science and clinical breakthroughs in MS and NMO

Through the UBC Connect Education Program, trainee involvement in organizing, developing and participating in events continue to improve and increase, thereby facilitating information exchange and collaboration.

Research

Research activities are primarily through the off-site services where the Division members are involved in those activities.
• Dr. Dean Johnston continues to build the Neurologic Complications of Endocarditis database via an ongoing resident research project, currently at 1335 cases.
• Dr. Dean Johnston is piloting a Teleneurology outreach program in partnership with First Nations Health Authority
• Dr. Steven Pelech published five articles in peer-reviewed journals and two book chapters, expanded the open-access SigNET Knowledgebank to over 3 million webpages and co-produced, with Kinexus, the world’s highest
density antibody microarray for biomarker discovery. • Dr. Yu Tian Wang gave ten presentations, as an invited speaker across Canada and internationally. In addition he published seven high profile articles resulting from highly successful national and international collaborations and a patent was filed, and followed up with further clinical investigations for treatment of acne and stroke.

**MS Clinic**
Since the UBC Hospital MS Clinic’s opening in 1980, the research goal has been to find the cause and cure of multiple sclerosis (MS).

The UBC Hospital MS Clinic is led by a world renowned MS clinical research team. The clinic is globally reputed for its emphasis on treatment, education, and translational research. The MS clinical research team is comprised of specialists in pharmaceutical and interventional therapies, imaging and genetics. It is a world leader for innovative research using MRI to study and evaluate MS treatments as well as genetic epidemiology. Cutting edge research and the incorporation of clinical practice to study findings have really truly brought MS research from “bench to bedside”.

**New grants**
- CIHR Catalyst Grant in Ethics to Dr. Elaine Hyshka (Mentee, University of Alberta): Navigating the Ethics of Syringe Exchange in a Large Acute Care Hospital. Ranked #1 in competition.
- Stem Cell Network Policy Impact Grant, Stem Cell Trials for Cerebral Palsy: Expectations, Values, Priorities and Definitions of Risks and Benefits
- EE G and Evoked Potentials Clinic SPH
- EMG In and Outpatient Clinic at SPH
- EEG and Evoked Potentials Clinic SPH
- EEG Clinic at MSJ Hospital
- Stroke Prevention Clinic, SPH
- HIV Outpatient Clinic, SPH
- Outreach Clinics in Terrace, Squamish, Whitehorse, Prince Rupert, and Gibsons

In addition, our MS and NMO clinic supports 7000 active patients, representing 80% of the BC MS and NMO population. Four neurologists are supported by three nurses, part time OT, PT, SW, and 2-3 clinical fellows per year. The average wait time for new appointment is 2-4 weeks.

MS and NMO Clinic provides patients with a multi-disciplinary approach to clinical care where they are able to come in and meet not only with their neurologists but also ophthalmologists, psychiatry and rehabilitation specialists. Approximately 300 patients are involved in phase II or phase III clinical trials. This provides access to new therapies which have not yet made it to the market. The clinical trial team has a staff of 15.

The DMCBH infusion room provides care for clinical trial and clinic patients, diverting patients from emergency departments for acute relapse care.

**Highlights**
- Characterization of cross-cultural terms for neurodevelopmental disorders
- Advancement of ethics and civic engagement in clinical trials for CCSVI and other novel neurotechnologies
- Identification of trends in media coverage of the re-emergence of psychiatric neurosurgery
- Published 7 (Dr. YT Wang) and 7 (Dr. S Pelech) articles in high profile publications
- Research attracted international doctoral and post-doctoral trainees from France, Germany, Cuba, China and Canada
- Secured ~$450,000.00 of external funding (Dr. YT Wang)
- Wide-ranging basic science research for numerous neurological disorders, including stroke, dementia, autism spectrum disorders and Alzheimer’s disease.
- Patents filed based on work published in 2015-2016 (Dr. YT Wang)

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**Patient Care**

The following clinics and services have been established to provide our patients with the best possible care:
- Active Consultation Service
- Rapid Access Neurology Clinic SPH
- Rapid Access Neurology Clinic MSJ Hospital
- EMG In and Outpatient Clinic at SPH
- EEG and Evoked Potentials Clinic SPH
- EEG Clinic at MSJ Hospital
- Stroke Prevention Clinic, SPH
- HIV Outpatient Clinic, SPH
- Outreach Clinics in Terrace, Squamish, Whitehorse, Prince Rupert, and Gibsons

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**Imaging**
- Successful CFI for replacement of 3T research MRI at DMCBH (Lead PI A Mackay)
- First team in the world to show that the brains of healthy siblings of patients with MS are different to the brains of matched unrelated healthy controls. (Lead PI A Rauscher)
- Developed a method for improved MS lesion detection at no additional scan time. (Lead PI A Rauscher)
- Demonstrated in a cohort of MS patients that MRI blood flow measurements in white matter are strongly influenced by the angle between white matter fibers and the main magnetic field (Lead PI A Rauscher)

**Genetics**
- Publication in Neuron of the first gene with pathogenic mutations for multiple sclerosis. Identified mutation provides the tools for the development of physiologically-relevant cellular and animal models of multiple sclerosis

**Epidemiology**
- In 2016, Dr. Helen Tremlett was PI or co-PI on 12 competitive grants, representing a total value of $6.1 million. Of which $1.6 million in new monies was received in 2016 alone for operating grants and $100,000 as a salary award
The Division of Palliative Care is an interdepartmental division. Reporting primarily to the Department of Medicine, the Division also has strong relationships with the Departments of Family Practice and Pediatrics.

The Division consolidated its provincial leadership role in 2016 through our partnership with the BC Centre for Palliative Care (C4PC), and we have had a number of achievements through this collaboration. The Division and the C4PC are working together to achieve the goals set out for the Division four years ago in the Strategic Plan.

Dr. Charlie Chen continues as Year of Added Competence fellowship program director and is also the director of the new two-year subspecialty Royal College fellowship program which will take its first resident next year.

Education

Undergraduate

The medical school curriculum redesign is proceeding, with the new cohort of students now in second year. The Palliative Care theme has been able to be integrated very strongly into the new case-based curriculum from week 7: the 4th case-week. Dr. Pippa Hawley has been working with other theme leaders in our “cluster”, which also comprises:

- Addictions
- Global Health
- Indigenous Health
- Geriatrics
- Health Advocacy
- Social Determinants of Health
- Public Health

Dr. Hawley has been representing Pain Medicine in the curriculum and is also the representative from the Themes on the Years 1-2 Committee. The national Educating Future Physicians in Palliative and End of Life Care (EFPPEC) competencies form the basis of the UBC Palliative Care Curricular Milestones. All competencies (and more) will be covered by the end of 4 years.

The Palliative Care objectives are being met by a mixture of lectures, large group interprofessional sessions, small group teaching, independent learning assignments, clinical palliative care rotations, and novel learning opportunities such as the FLEX Legacy Project and an essay-writing competition. Two of
the top three essays in the Canadian Society of Palliative Care Physicians annual student essay competition came from UBC, including that of the winner.

**Postgraduate Palliative Care Residency Program**

The Year of Added Competence (YAC) has been the only Canadian Palliative Care specialty training program since its inception in 2001 (2002 at UBC). It is the only program which has been jointly accredited by both the Royal College of Physicians and Surgeons (RCPSC) and the College of Family Physicians Canada (CFPC). Sadly, this cooperative relationship between the colleges has been curtailed. Their leadership has directed that the conjoint program be discontinued. Separate programs from each college have now been set up with the first residents to commence their training in July 2017. The CFPC Year of Added Competence (YAC) continues to be a 1-year program designed to provide family physicians with the added skills to integrate palliative care into their practice at a secondary level. The RCPSC program will be a 2-year subspecialty program designed to provide the skills necessary to practice as a full-time palliative care specialist, and though the trainees will work closely together for their first year with the YACs, their second year will focus on palliative care in non-cancer conditions, ambulatory care and electives.

Both programs will have a practice eligible route, although the Founder route to Certification has now been closed by the CFPC. Future Certificants for the CCFP Certificate of Added Competence will either have to complete a YAC or qualify for the practice-eligible route, the details of which have not been announced.

**Research**

Dr. Pippa Hawley is carrying out a number of research projects through the BC Cancer Agency and is including students wherever possible. Dr. Amrish Joshi successfully completed his master’s thesis on attitudes toward medicinal cannabis, and has presented this at a national conference. Student projects on methadone for analgesia in the BCCA’s PSMPC clinics over the last 16 years has been completed with assistance from an internal medicine resident, a YAC resident and two summer students and is in the final stages of preparation for submission to an international Palliative Care journal. Dr. Pippa Hawley is collaborating with student Phoebe Cheng in a study of the safety and efficacy of cutting fentanyl patches for fine-tuning of doses in cancer pain relief.

Dr. Charlie Chen, along with Dr. Jocelyn Chase of geriatrics, supervised two family practice residents and one internal medicine resident in completing a research project surveying UBC postgraduate residents on their awareness, attitudes, and perceptions of palliative care and Physician Assisted Death. Their research was recently published in the Canadian Journal of Medical Education. Dr. Chen is also co-supervising a Royal College emergency medicine resident in his research project surveying Emergency Medicine Program Directors on palliative care competencies for their programs.

**Patient Care**

Dr. Pippa Hawley designed a new visual model to illustrate the new concept of palliative care, which includes survivorship and supportive care. This “Bow Tie model” emphasizes the importance of referral early in the course of illness, and has been presented at national and international conferences. This model is changing the way palliative care is perceived by the public and by our medical colleagues, and has been adopted by the Canadian Partnership Against Cancer, and the Canadian Hospice Palliative Care Association. She was the keynote speaker at the 2016 Australia and New Zealand Society of Palliative Medicine’s annual meeting in Perth, giving presentations on the Bowtie Model, Medicinal Cannabis and Methadone for Analgesia. The model has been cited in multiple publications and, with Dr. Hawley’s support, has been presented by a number of other presenters in multiple countries. Palliative care and disease management are no longer alternative options, but are now widely accepted as being firmly embedded together. Division members are promoting this model to ensure timely referral and to change the negative perception of Palliative Care as being only for the dying.

A number of Division members have strong links with developing countries, including Guatemala, India, Nepal, Ghana and Nigeria, and the Division is supporting Dr. Guyatri Palat to come to BC from Hyderabad in March of 2017, supported by the Hsu-Hsieh Foundation. Dr. Palat is an internationally renowned pediatric Palliative Care physician who has made an enormous difference to Palliative Care provision in India, for children and adults and we are looking forward to seeing her here.

**Highlights of the Year**

- On December 14th, 2015 the Division held a half-day CME event at the BC Cancer Research centre’s lecture theatre entitled “End of Life Care in the Age of Medical Assistance in Dying”. Presentations included an interprofessional panel discussion on MAiD in practice in PCUs and Hospices; 21st Century Pain Management- a new paradigm, and Assessment and Management of Suffering in ALS.

- In 2016, we moved the event to a new location. Participants included Family Practice Residents from the distributed medical programs and many rural family doctors. These physicians work in settings with the least access to specialist palliative care in the province and were therefore again a chief target for the Division for this education.
Divisional Overview

This past year, the Division of Physical Medicine and Rehabilitation has undergone a transition in leadership, with Dr. Jennifer Yao taking on the role as Division head in April 2016 from Dr. Andrea Townson. The Division continues to grow with the addition of 8 new members in 2016. The division now has 62 members, most of whom are clinical faculty from around the province.

Maria Canvin, Division administrator, has also transitioned to being an officially UBC employee. She continues to deliver high quality support for Dr. Yao and the division faculty and residents. The Division has worked diligently to promote ongoing research activities, foster research collaborations with the school of rehab sciences and other academic centres, as well as promote participation in undergraduate medical teaching.

Education

The postgraduate training program currently has 12 residents, under the direction of Dr. Dan DeForge. He will be stepping down in September for Dr. Eric Hui to take on the Program Director role. The program is well run and fully accredited by the Royal College. It will be undergoing a scheduled internal review in 2017. The PM&R program has been experiencing record numbers of applicants to its residency program, which reflects positively on the involvement of physiatrists in the UBC undergraduate curriculum. The discipline of PM&R will be starting the transition to Competency by Design workshops at the Royal College in the next two years.

Dr. Yao, as the chair of the Specialty Committee for PM&R at the Royal College, will keep the faculty well informed of the implementation process. The Division has just started a 2-week ambulatory student elective as part of the UBC undergraduate curriculum. There has also been increasing numbers of medical students requesting electives and shadowing opportunities with Division members.
Research

The Division faculty produced 38 publications in 2015 and 46 publications in 2016. Areas of particular research strength are in spinal cord injury, concussion management, and stroke rehabilitation. Over a third of faculty publications are in collaboration with international colleagues, and the publications from faculty members are increasingly in journals with higher impact factor.

Dr. Andrei Krassioukov has headed the Division Research Advisory Committee for ten years. He has dedicated much time and effort into fostering further research from Division faculty and residents. Much of the improvement in Division research productivity and quality is thanks to his leadership and expertise.

Patient Care

The PM&R Division continues to provide excellent patient care to the residents of British Columbia. The faculty has persisted with outreach clinics on a regular basis to underserved areas, such as Prince George and Whitehorse. Specialty services in patient management are receiving greater focus, particularly with the development of the Spasticity Symposium and the Autonomic Symposium headed by Drs. Rajiv Reebye and Andrei Krassioukov, respectively.

There are still areas that have urgent need for physiatry services, namely in the interior and the north. The Division has been working with faculty members to increase incentives and opportunities for residents to do electives in these areas, in the hopes of assisting with recruitment.

Highlights of the Year

- The UBC Undergraduate Medical students have formed a “Special Interest Group in Physical Medicine and Rehabilitation” in 2015. PM&R faculty and residents were asked to speak to students about the specialty
- A supportive, respectful and collegial environment was identified by Division faculty members as a primary strength of the Division of PM&R at the 2016 annual retreat
- Successfully hosted the Canadian Association of Physical Medicine and Rehabilitation Annual Scientific Meeting in Vancouver in May 2015
- Dr. David Koo has become Chair of the Specialty Examination Committee for PM&R at the Royal College in 2016
- Dr. Rajiv Reebye organized the Inaugural State of the Art Neuropathic Pain Symposium in April 2016
- Successful Rehab Research Day on May 4, 2016
- Both PGY-5 physiatry residents successfully passed their Royal College Specialty Examinations in PM&R, and the postgraduate program successfully matched both PGY-1 positions in 2016 after first iteration of the CaRMS match
- Launch of the Division of PM&R Quarterly Newsletter in June 2016
The UBC Respiratory Division is primarily located at the major teaching hospitals affiliated with the UBC Faculty of Medicine. Activities are focused at Vancouver General Hospital (VGH), St. Paul's Hospital (SPH) and UBC Hospital (UBCH). In addition, reflecting the distributed medical school there are a new a significant number of community respirologists distributed through the province, affiliated formally as either full or associate members of the Division. Dr. Mark Fitzgerald (2015) and Dr. Jeremy Road (2016) were the Heads of the UBC Respiratory Division as well as the VGH Respiratory Division. Dr. Don Sin is the Head of Providence Health Care (PHC) Respiratory Division, which includes SPH. The UBC Respiratory Division participated in a multi-site lung and heart health framework focusing on education, clinical care and research across multiple sites. A major celebration of this convergence is now the highly successful Institute for Heart + Lung Health FEST which occurs, annually in the spring. This research focused meeting, is preceded by a one day, high profile scientific meeting focusing on lung and heart health and air quality.

Recognition of the Institute’s activities was further confirmed with recognition of lung and heart being one of three priority areas in the faculty of medicine strategic directions document. This in turn has identified heart and lung related research as a priority related area with UBC’s current major capital campaign.

Gagan Basi provides excellent administrative support for the Division, as well as the routine day to day activities of the Division, she also provides administrative support for the Post Graduate training program. There have also been significant additional administrative duties, related to the evolving Institute for Heart + Lung Health and Ale Sumano based at VGH provides additional support for the Institute as well as administrative support for VGH related clinical and research activities. Kamila Kalsi provides administrative support for SPH divisional activities.

### Education

**Undergraduate**

Dr. Jeremy Road (VGH) and Dr. Chris Ryerson (SPH) coordinate undergraduate elective programs for medical students. In this regard, the increased size of the medical school has presented new opportunities and challenges. Dr. Richard Cohen has responsibility for the PBL pulmonary block and brings specialty expertise in education to this role as well as his specialty training in Respiratory Medicine.
Post-graduate
Dr. Victoria Cook leads the Post Graduate Fellowship Program; review of the fellowship program. She has been ably assisted in this regard by Ms. Gagan Basi who in addition to her Fellowship activities also provides administrative support for the UBC Respiratory Division. The Program has 9 clinical fellows currently in the program. Many Divisional members are primary or co-supervisors of Master’s, PhD and post-doctoral students, in a wide range of trainee programs, across many different disciplines.

Experimental Medicine
Dr. Vince Duronio is the Director of the Experimental Program, as well as a Divisional member. In total there are 20 post-doctoral fellows, 14 PhD students, 10 Master’s students affiliated with the Respiratory Division.

Continuing Professional Development
Divisional members contribute extensively on a Provincial, National and International level to professional development. The scope of these contributions is too abundant to list in this brief report but reflects the major productivity of the Division in terms of research activity as outlined below. It also reflects the major contributions members have continued to make in terms of national and international guideline development in many therapeutic areas. For instance, Dr. Mark FitzGerald is the chair of the Global Initiative for Asthma (GINA) Executive and a former chair and current member of its GINA Science Committee. GINA is preeminent in setting international evidence based guidelines for the management of asthma. Dr. Don Sin is a member of the international GOLD (Global initiative for Chronic Obstructive Lung Disease) Scientific Committee, which sets international guidelines for the management of chronic obstructive pulmonary disease (COPD). The major Divisional CPD activity is the UBC Respiratory Medicine Update, which again was a very successful meeting, co-sponsored with the BC Lung Association and held on the day following the FEST. It is now co-presented with the UBC Cardiology Division with a combined heart and lung focus. This meeting has expanded significantly in parallel with the ongoing evolution of the Institute for Heart and Lung Health.

Research
The UBC Division has an international reputation for excellence in research, which spans the 4 CIHR Pillars, from state of the art basic research through to population health. A conservative estimate of dollars generated for lung related research within the Division for 2015/16 is $5.75 million for principle investigators in competitive grant funding. Major peer reviewed publications totaled over 255 papers for 2015/16.

The UBC Division has an international reputation for excellence in research, which spans the 4 CIHR Pillars, from state of the art basic research through to population health. A conservative estimate of dollars generated for lung related research within the Division for 2015/16 is $5.75 million for principle investigators in competitive grant funding. Major peer reviewed publications totaled over 255 papers for 2015/16.

The UBC James Hogg (iCAPTURE) Research Center (JHRC) recently renamed as the Centre for Heart Lung Innovation at SPH continues to provide strong leadership in basic and translational research with a particular focus on airways biology and COPD in particular. There is also excellent clinical research in cystic fibrosis lead by Dr. Brad Quon, and a rapidly developing basic and clinical research program in interstitial lung disease lead by Dr. Chris Ryerson. Both of these investigators hold MSFHR scholarship awards. Divisional members based at HLI include Drs. Scott Tebut, Andrew Sandford and Denise Daley, who are focused on understanding genetic determinants of lung disease; Drs. Don Sin, Wan Tan and Stephan van Eeden, who study the burden of chronic airway diseases in Canada and evaluate heart and lung interactions and the effects of cigarette smoke and air pollution on the lungs; and Drs. Paul Man and Peter Paré are senior clinician scientists, who provide mentorship and leadership for the entire group of pulmonary research investigators at HLI and throughout the UBC system. An emerging new area of research focus relates to the interaction of HIV infection and the lung with a particular focus on the development of COPD.

Basic research also occurs at The Lung Centre at VGH with strong leadership from Drs. Vince Duronio, Nasreen Khalil and Chris Carlsten but its major emphasis continues to be clinical and epidemiological research focusing on sleep disordered breathing (Drs. Najib Ayas, John Fleetham, and Frank Ryan), interstitial lung disease (both clinical and basic-Dr. Nasreen Khalil), airways diseases (Drs. Jeremy Road, and Mark FitzGerald), occupational lung diseases (Dr. Chris Carlsten) and tuberculosis (Drs. Mark FitzGerald, Jay Johnston, Richard Elwood and Victoria Cook). There is a major collaborative link between VGH based investigators (Drs. John Yee, John Mayo, Stephen Lam, and Eve-Lea Beaudoin) and the BC Cancer Agency focusing on better understanding of the pathogenesis, prevention and management of lung cancer. Health outcomes research continues to develop across both SPH and VGH with Dr. Mark FitzGerald collaborating with a number of health outcomes researchers most notably Drs. Carlo Marra and Larry Lynd.

Dr. Mohsen Sadatsafavi further strengthens health outcome research and is a PhD scientist at VGH and the Centre for Clinical Epidemiology and Evaluation. He has an interest in respiratory health outcomes with a special emphasis on health economics. Drs. Jay Johnson and Victoria Cook continue the long tradition of TB related research based at the BCCDC. Dr. Jordan Guenette was recruited to St. Paul’s Hospital with a primary appointment in the Department of Physical Therapy. He is an associate member of the UBC Respiratory Division. In addition Dr. Neil Eves from the UBC Okanagan campus likewise has an associate membership in the Division. Both Drs. Guenette and Eves bring strong expertise in assessing the cardiopulmonary response to exercise as well as the interaction of heart and lung in health and disease.
Divisional Overview

Dr. Kam Shojania continues as Head and Postgraduate Program Director for UBC Rheumatology since 2008. At the end of 2016 he is stepping down as Program Director, due to his new role as Medical Director of the Mary Pack Arthritis Centre. A Postgraduate Committee is searching for his successor as program director.

Dr. Kam Shojania is Head of both the St Paul’s Hospital (SPH) Division and of the Vancouver General Hospital (VGH) Division. Dr. Raheem Kherani oversees the hospital training program at G.F. Strong Hospital. Dr. John Esdaile continues as the Scientific Director of Arthritis Research Canada. Tracey Ernst continues as Postgraduate Program Coordinator, as well as Division Coordinator for UBC, St. Paul’s, and VGH Divisions of Rheumatology.

Research

In 2015 & 2016, UBC rheumatologists published 89 peer-reviewed papers. In addition to independent research, members of the Division continue to be active in Arthritis Research Canada (ARC), internationally-recognized as a leading arthritis research group with a strong multi-disciplinary research team. ARC scientists have had tremendous success in obtaining external grant funding to support the many research projects that are highly relevant to Canadians with arthritis. Current research is funded by the Canadian Institutes of Health Research, the Arthritis Society of Canada, Canadian Initiative for Outcomes in Rheumatology, The Arthritis Society of Canada, Lupus Canada, as well as Arthritis Research Canada Outcomes Grants and Alberta Innovates Health Solutions.

Education

Dr. Kam Shojania continues as Program Director for the Postgraduate Training Program. The two-year Rheumatology Subspecialty Program is fully accredited by the Royal College of Physicians & Surgeons of Canada, and continues to be the second-largest clinical rheumatology training centre in Canada. In 2015 and 2016 we welcomed six Ministry of Health-funded residents and two internationally-funded residents into our program. We are proud that many of our division members are actively engaged in high-quality teaching, in ambulatory care and research, at Vancouver Acute, St. Paul’s Hospital, G.F. Strong Rehabilitation Centre, Arthritis Research Canada, and in community practices throughout the Lower Mainland. We also provide high-demand elective and mandatory rotations in Rheumatology to
residents in Internal Medicine and other specialties from UBC and from other universities. In 2015 and 2016, approximately 155 residents from Internal Medicine, Family Practice, Neurology, Dermatology, Ophthalmology, Physical Medicine and Rehabilitation, and Maternal-Fetal Medicine spent elective rotations in one of our three teaching sites, St. Paul’s, Vancouver General, Royal Columbian Hospitals, as well as private practices in Metro Vancouver.

The Division offered our weeklong “Basic Skills Course for New Rheumatology Fellows” for our 15th & 16th consecutive years, and attendance of rheumatology trainees from programs across Canada broke all previous attendance records. This course continues to be the only course of its extent in Canada, and provides new rheumatology residents with a solid background in the basic skills required in the academic and clinical practice of rheumatology.

Dr. Rhonda Shuckett remains in charge of the Rheumatology Undergraduate Committee and co-chairs the musculoskeletal undergraduate block. She designed the excellent week-long Rheumatology Problem-Based Learning for UBC’s second year Medical and Dental program, and gives about eight lectures to the full class of students. Her week is one of the highest rated weeks in Medicine Year Two. A number of our faculty provide clinic and teaching time for approximately 22 medical student rotations over 2015 & 2016.

Patient Care

The Mary Pack Arthritis Program is a provincial program administered through the Vancouver Coastal Health Authority. Services and programs include advanced therapeutic clinics, quaternary rheumatic disease clinics, a young adult transition program, a rapid access clinic for diagnosis and initial treatment of rheumatoid arthritis, infusion services for biologic medications, and an inpatient service in the G.F. Strong Rehabilitation centre. In 2016, Dr. Kam Shojania was selected as the new Medical Director of the Mary Pack Arthritis Program.

The Mary Pack program coordinates the travel of twelve Division faculty to 25 remote locations in British Columbia, for the Rheumatology Travelling Consultation Service. This program’s goal is to provide education, consultation and treatment services to communities which do not have a rheumatologist accessible within two hours driving time, as well as to numerous isolated First Nations communities. Telehealth initiatives to small communities have been implement and continue to grow. The Mary Pack program also provides physiotherapy, occupational therapy, and access to social workers and vocational counseling, as well as a full spectrum of educational workshops for patients. Funding of physician services for the Mary Pack Program is through the Ministry of Health APP program.

### Highlights of the Year

- 48 Division Faculty (including Associate & Adjunct Members, & three Emeritus)
- A total of eight residents underwent the Rheumatology subspecialty training program in 2015 & 2016 and most are or will be practicing in British Columbia
- A record-breaking 31 residents attended the 16th Annual Basic Skills Course for new Rheumatology trainees from across Canada

$2,544,264 in research funding over 2015 and 2016

Most comprehensive provincial rheumatology traveling rural clinics in Canada
Chairs and Professorships

**CANADA RESEARCH CHAIRS:**
- Dr. N Cashman
- Dr. E Conway
- Dr. J Illes
- Dr. D Sin
- Dr. J Stoessl
- Dr. E Wood
- Dr. H Tremlett
- Dr. K Shannon
- Dr. Daley

**DISTINGUISHED SCHOLARS:**
- Dr. Z Laksman
- Dr. N Hawkins

**PROFESSORSHIPS:**
- Dr. J Webb
- Dr. K Humphries
- Dr. P Teal
- Dr. H Nygaard
- Dr. S Appel-Cresswell
- Dr. R Harrigan
- Dr. S van Eeden

**ENDOWED CHAIRS:**
- Dr. C Carlsten
- Dr. D Lacaille
- Dr. G Meneilly
- Dr. J Barton
- Dr. A Krahn
- Dr. Y Wang
- Dr. A Traboulsee
- Dr. M McKeown
- Dr. K Madden
- Dr. J Montaner
- Dr. A Krassioukov

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**Canada Research Chairs**

- **Dr. Neil Cashman** - Canada Research Chair in Neurodegeneration and Protein Misfolding. Dr. Cashman’s program researches protein misfolding diseases such as amyotrophic lateral sclerosis (ALS), Alzheimer’s and Parkinson’s diseases, and prion (infectious protein) diseases.

- **Dr. Edward Conway** - Canada Research Chair in Endothelial Cell Biology. Dr. Conway’s program aims to understand how specific proteins expressed by the vascular endothelium and perivascular cells, contribute to disorders of hemostasis-thrombosis, metabolism, and innate immunity. By utilizing cell and animal models, in conjunction with human genetic studies, Dr. Conway’s highly collaborative program promises to deliver better therapies and strategies for a range of diseases.

- **Dr. Don Sin** - Canada Research Chair in Chronic Obstructive Pulmonary Disease (COPD). Dr. Sin is developing a simple blood test that can be used in a doctor’s office to predict which COPD patients will have a “lung attack” and which patients will not. He is also working to develop a simple blood test to diagnose lung attacks in their earliest stages. These blood tests will help doctors to treat and prevent full blown lung attacks from taking place so patients can be treated at home and reduce the number of patients having to seek emergency care at hospitals.

- **Dr. Jon Stoessl** - Canada Research Chair in Parkinson’s disease. Dr. Stoessl’s research uses positron emission tomography (PET) to study people at high risk of Parkinson’s disease. He studies preclinical changes in the brains of people with genetically determined susceptibility to future neurodegeneration and uses PET to determine the benefits of exercise in Parkinson’s disease.

- **Dr. Judy Illes** - Canada Research Chair in Neuroethics. Dr. Illes’ research is focused on ethical, social, and policy challenges at the intersection biomedical ethics and neuroscience. She has made fundamental, cross-culturally relevant contributions in neuroethics that span neurodevelopment and neurodegenerative disease, mental health and addiction, brain and spinal cord injury, and the commercialization of health care.

- **Dr. Evan Wood** - Canada Research Chair in Inner City Medicine. Dr. Wood’s research uses unique approaches to address substantial health and community concerns in low-income neighbourhoods where poverty, mental illness and drug addiction converge for the betterment of society.
of treatment.

Dr. Tremlett’s research leads a pan-Canadian study into Multiple Sclerosis to improve the health, treatment options and outcomes for people with the degenerative brain and spinal-cord disease.

Dr. Kate Shannon - Canada Research Chair in Global Sexual Health and HIV/AIDS. Dr. Shannon’s research focuses on evaluating and addressing sexual health and HIV inequities and social justice among marginalized women and gender and sexual minority populations.

Dr. Denise Daley - Canada Research Chair in Genetic Epidemiology of Common Complex Diseases. Dr. Daley’s research studies the genetic susceptibility to asthma and other allergic conditions and the complex epigenetic mechanisms that may be involved. Dr. Daley is working to determine what contribution gender, genes, and environment make to the development of asthma and how the epigenome responds to environmental exposures such as tobacco smoke.

Distinguished Scholars

Dr. Zachary Laksman (Named July 1, 2015) - UBC Dr. Charles Kerr Distinguished Scholar in Cardiovascular Genetics. Dr. Laksman is conducting research on the genetic basis for diseases of the heart muscle, heart rhythm, and sudden cardiac death with an interest in atrial fibrillation. An element of Dr. Laksman’s work also involves using a stem cell model and growing heart cells in a dish. In doing so, Dr. Laksman can model an individual patient’s specific disease, apply medicines to it, and study the cause of the disease and the effect of treatment.

Dr. Nathaniel Hawkins (Named January 12, 2016) - UBC Dr. Charles Kerr Distinguished Scholar in Heart Rhythm Management. Dr. Hawkins’ research touches on numerous stages of care for heart device patients, such as the development of registries and data systems to more effectively identify patients who could benefit from heart devices. Dr. Hawkins is also investigating outcomes for heart device patients, which could lead to fewer complications and higher survival rates.

Professorships

Dr. Silke Appel-Cresswell - Pacific Parkinson’s Research Institute Professorship in Parkinson’s Research Endowment. Dr. Appel-Cresswell’s research focuses on the role of the microbiome in Parkinson’s disease and other brain disorders, care delivery in Parkinson’s as well as coping strategies, resilience and neuropsychiatric features of Parkinson’s. She has established iCAPTURE PD, a large registry for Parkinson’s and related disorders which serves as a resource to understand clinical patterns and clinical-genetic correlations.

Dr. Richard Harrigan - Glen-Hillson Professor in Clinical HIV Virology. Dr. Harrigan’s research has contributed to the understanding of antiviral drug efficacy and resistance, as well as the human and viral parameters that influence HIV disease progression. His laboratory has developed and distributed software for improved automated analysis of HIV drug resistance (“ReCall”), which is now being used worldwide. Dr. Harrigan’s research in these areas has played a key role in enabling the significant improvements in quality and duration of life afforded patients by HAART (Highly Active Antiretroviral Therapy).

Dr. Stephan van Eeden - Glaxosmithkline Professorship in Chronic Obstructive Pulmonary Disorder. Dr. van Eeden’s research program focuses on the mechanisms of lung inflammation, particularly, lung inflammation caused by infection, cigarette smoking and air pollution. Dr. van Eeden’s research covers a broad range of clinical conditions such as pneumonia, chronic bronchitis, emphysema and acute respiratory distress syndrome.

Dr. John Webb - McLeod Family Professorship in Valvular Heart Disease. Dr. Webb performed the first successful transfemoral and transapical transcatheter aortic valve implantations (TAVI) in the world. Dr. Webb also completed the first ever transcatheter mitral valve-in-valve replacement and the first successful TMVR (transcatheter mitral valve replacement) and many other firsts.

Dr. Karin Humphries - UBC Heart and Stroke Foundation Professorship in Women’s Cardiovascular Health. Dr. Humphries’ research focus is on sex and gender differences in the diagnosis, treatment, and outcomes in subjects with coronary artery disease. Dr. Humphries is currently conducting a $1.6 million CIHR-funded trial investigating the impact of using sex-specific cut-points for hs-cTn in the assessment of ischemic chest pain. The trial will be conducted in 26 centres in 8 provinces.

Dr. Philip Teal - Sauder Family Heart and Stroke Foundation of BC and Yukon Professorship in Clinical Stroke Research. Dr. Teal’s clinical focus includes stroke prevention, acute stroke management, neuroprotection strategies, and the planning, organization, and management of clinical trials. Dr. Teal will help translate findings from basic research into new therapeutic applications in the clinical setting.
Dr. Haakon B. Nygaard - Charles E. Fipke Professorship in Alzheimer’s Research. Dr. Nygaard leads a project to sequence the genomes of centenarians in search for a genetic cause of dementia-free aging. Dr. Nygaard hopes to bridge the gap between basic science and clinical neurology to facilitate novel therapeutic development in Alzheimer’s disease.

Endowed Chairs

Dr. Christopher Carlsten - AstraZeneca Chair in Occupational and Environmental Lung Disease and Canada Research Chair in Occupational and Environmental Lung Disease. Dr. Carlsten’s research aims to understand the effects of inhaled pollutants on the lungs in order to better prevent and treat lung disease.

Dr. Diane Lacaille - Mary Pack Chair in Arthritis Research. Dr. Lacaille’s research has focused on studying the impact of arthritis on employment, preventing work disability, evaluating the quality and outcome of care for people with rheumatoid arthritis, and conducting pharmacoepidemiology studies using administrative health databases to evaluate the long term impact of medications.

Dr. Graydon S. Meneilly - Eric W. Hamber Chair in Medicine. As Head of the Department of Medicine, Dr. Meneilly provided strength in leadership in an ever changing environment and demonstrated an ability to be innovative, provided strategic direction and encouraged and built collaborative relationships contributed to the success of the Department of Medicine.

Dr. Jason Barton - Marianne Koerner Chair in Brain Diseases and Canada Research Chair in Human Vision and Eye Movement. Dr. Barton studies high-level visual processing and the cognitive control of eye movements. His research increases the understanding of the functional and anatomical basis of perceptual dysfunction in neurological disorders and the impact of visual rehabilitation.

Dr. Andrew Krahn - Sauder Family Heart and Stroke Foundation Chair in Cardiology and the Paul Brunes UBC Professorship in Heart Rhythm Disorders. An internationally recognized expert in the management of cardiac arrhythmias, Dr. Krahn’s research includes investigating the genetic causes of arrhythmias, causes of loss of consciousness, and implantable arrhythmia device monitoring.

Dr. Yu Tian Wang - Heart and Stroke Foundation Chair in Stroke Research. Dr. Wang’s research focuses on understanding the molecular mechanisms responsible for regulating the function and intracellular trafficking of neurotransmitter receptors critical for brain functions, such as learning, memory and cognition, and investigating the manner by which these mechanisms may be altered in central nervous disease processes.

Dr. Anthony Traboulsee - the Multiple Sclerosis Society of Canada Research Chair. Dr. Traboulsee’s research focuses on clinical trial design, the development of practice guidelines for the use of MRI in the management of MS, establishing advanced MRI imaging outcomes in Multiple Sclerosis, and the treatment of Neuromyelitis Optica.

Dr. Martin McKeown - Pacific Parkinson’s Research Institute UBC Chair in Parkinson’s Research. Dr. McKeown’s research investigates ways which assist people with Parkinson’s disease and related disorders. His research looks at novel interventions and treatments for Parkinson’s disease, as well as examining the mechanisms of disease complications and examining compensatory mechanisms in Parkinson’s disease as they may provide novel targets for intervention.

Dr. Kenneth Madden (Named July 1, 2015) - Allan M. McGavin Chair in Geriatrics Research. Dr. Madden’s research is to improve preventive health interventions in older adults. His research is looking to discover new ways to prevent falls due to fainting, and to improve overall cardiovascular health in older adults through exercise. His laboratory uses innovative translational techniques designed to shorten the time lag between bench research and “real world” applications.

Dr. Julio Montaner - UBC and St. Paul’s Hospital Foundation Chair in AIDS Research. Dr. Montaner is a UBC-Killam Professor of Medicine, the Director of the BC Centre for Excellence in HIV/AIDS, and the UNAIDS Special Advisor on HIV Therapeutics (2014-2017). Dr. Montaner played a key role in the development and implementation of Highly Active Antiretroviral Therapy (HAART) as the modern standard of care for HIV disease. He then pioneered Treatment as Prevention (TasP) using HAART to simultaneously stop progression to AIDS and death, and HIV transmission. Based on his TasP strategy, he proposed the 90-90-90 Target that has now been formally adopted by the UN to accelerate the global control of HIV/AIDS.

Dr. Andrei Krassioukov - Chair in Spinal Cord Rehabilitation Research. Dr. Krassioukov’s research is devoted to helping people with spinal cord injuries maintain their cardiovascular health. His focus is on a condition commonly known as autonomic dysreflexia, a condition familiar to the majority of individuals with spinal cord injuries as well as their caregivers.
Awards and Honours

STAFF RECOGNITION AWARDS RECIPIENTS:
• Jody Swift
• Heidi Chan
• Jane Zhang
• Kathy Standeven

FACULTY RECOGNITION AWARDS RECIPIENTS:
• Dr. R Strzamko
• Dr. P Weerasinghe
• Dr. R Harrigan
• Dr. C Carlsten
• Dr. J Leipsic
• Dr. T Sedlak
• Dr. K Gin
• Dr. M Spencer
• Dr. A Townsend
• Dr. T Kerr
• Dr. A Traboulsee
• Dr. M Kula
• Dr. K Song
• Dr. S Nantel

FACULTY OF MEDICINE CLINICAL FACULTY AWARDS AND DISTINGUISHED ACHIEVEMENT AWARDS RECIPIENTS:
• Dr. K Gin
• Dr. K Sullivan
• Dr. R Hatala
• Dr. D Sin
• Dr. G McCauley

OTHER AWARDS RECIPIENTS:
• Dr. A Levin
• Dr. E Yoshida
• Dr. K Eva

Annual Staff Recognition Awards

CUPE 2950
• 2016 Heidi Chan - Hematology

Early Career Excellence
• 2015 Jody Swift - DoM Admin
• 2016 Jane Zhang - DoM Admin

M&P
• 2016 Kathy Standeven - DoM Admin

Annual Faculty Recognition Awards

The Fay R. Dirks Award for Excellence in Teaching:
• 2015 – Richard Strzamko (SPH)
• 2015 – Peter Weerasinghe (VGH)
• 2016 – Martha Spencer (SPH)
• 2016 – Andrea Townson (VGH)

The Martin M. Hoffman Award for Excellence in Research:
• 2015 – Richard Harrigan (SPH)
• 2015 – Chris Carlsten (VGH)
• 2016 – Thomas Kerr (SPH)
• 2016 – Anthony Traboulsee (VGH)

The Donald M. Whitelaw Award for Outstanding Grand Rounds Presentation:
• 2015 – Jonathan Leipsic (SPH)
• 2015 – Tara Sedlak (VGH)
• 2016 – Matt Kula (SPH)
• 2016 – Kevin Song (VGH)

Master Teacher Award:
• 2015 – Tara Sedlak (SPH)
• 2015 – Ken Gin (VGH)
• 2016 – Kevin Song (SPH)
• 2016 – Steve Nantel (VGH)

Faculty of Medicine Clinical Faculty Awards and Distinguished Achievement Awards

• 2015 Clinical Faculty Award for Career Excellence in Clinical Teaching – Dr. Kenneth Gin
• 2015 Clinical Faculty Award for Excellence in Clinical Teaching – Dr. Stephen Sullivan
• 2015 Killam Teaching Prize – Dr. Rose Hatala
• 2015 Killam Research Prize – Dr. Don Sin
• 2016 Clinical Faculty Award for Excellence in Clinical Teaching – Dr. Graeme McCauley

Other External Awards

• 2015 Order of Canada – Dr. Adeera Levin (Medicine – Nephrology)
• 2015 - 2016 Dr. Graydon Meneilly and Dr. Anita Palepu named New Master of the American College of Physicians (Medicine - Geriatrics and General Internal Medicine, respectively)
• 2016 Order of BC – Dr. Eric Yoshida (Medicine – Gastroenterology)
• 2016 AFMC President’s Award for Exemplary National Leadership in Academic Medicine – Dr. Kevin Eva (Medicine – General Internal Medicine)