

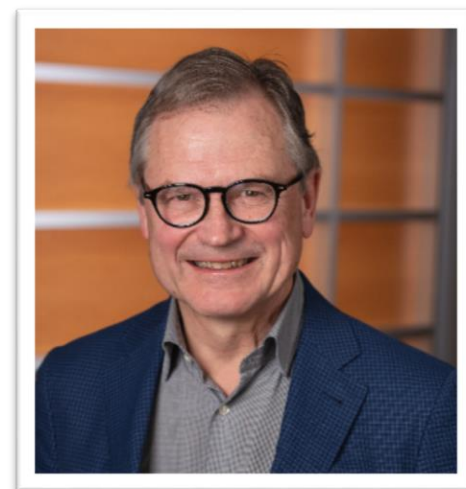
December 2019 – Issue #11

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DIVISION DIRECTOR'S COLUMN – Dr. Douglas Bradley

Teaching and Education in the Division of Respiriology

A core aspect of our mission to attain and maintain “International leadership in innovative, productive and world class respiratory research and training programs” is our Division’s dedication to excellence in teaching and education. When I interviewed all members of our Division earlier this year, I was struck by the depth and breadth of our teaching capabilities, as well as the enthusiasm and dedication of our Clinician Teachers (CT). Teaching and education includes not only didactic teaching of undergraduate and post-graduate medical students and residents, but also development of educational programs, teaching at the bedside and in our outpatient clinics, as well as teaching of procedures and performance and interpretation of laboratory tests. Indeed, one of the key responsibilities to our trainees, patients and the general public is to nurture and train the very finest physicians we possibly can. How do we go about achieving this objective?



An essential element of achieving excellence in teaching and education is to ensure our CTs are properly trained prior to obtaining a faculty position. Just as we mandate extra research training at the completion of Respiriology residency for individuals interested in becoming Clinician Scientists or Clinician Investigators, we encourage anyone interested in a faculty CT position to pursue fellowship training in clinical areas of their interest. This experience often makes them experts in their particular field, capable not only of providing the best care for their patients, but passing on their specialized knowledge to the next generation of physicians. In addition, all prospective CTs must complete the Master Teacher Program.

The Master Teacher Program provides advanced pedagogical training for senior postgraduate trainees who have major clinical and teaching responsibilities to enhance their teaching effectiveness. It is a two-year program held one half-day per week. It provides sessions on essential topics such as small and large group teaching techniques, bedside teaching, assessing learner needs, fostering understanding and retention of knowledge, evaluation, feedback, teaching in difficult situations and others. At course completion, graduates receive a "Certificate of Master Teacher" from the Department of Medicine.

How is teaching and education assessed and rewarded in the Department of Medicine and in the Division of Respiriology? Of course all physicians in our Division have frequent and ongoing assessment of their performance from teaching effectiveness evaluations provided by medical students, residents and fellows. The University of Toronto recognizes the importance of these and other teaching evaluations in a very tangible way: faculty can be promoted to Associate and Full Professor based primarily on sustained excellence in teaching. Many of our faculty have been promoted on this basis. In addition, some hospital Departments of Medicine provide merit awards for teaching excellence partly based on these evaluations. Furthermore, the University and Hospital Departments of Medicine have a number of awards to recognize excellence in teaching at the undergraduate, graduate and post graduate level.

Our Division members have been very successful in this regard having received a number of these awards in the past few years. For example at the University Department of Medicine level, members of our faculty have received the Faculty of Medicine Graduate Teaching Award, the Goldie Award for Excellence in Education, Scholarship and Innovation, the Goldie Award for Excellence in Teaching, the Award for Excellence in Postgraduate Medical Education, and the Peters Boyd Academy Teaching Award for Excellence in Undergraduate Medical Education. Our Division also honours excellence in teaching with three annual teaching awards. These include two faculty awards: the Sheldon Mintz Undergraduate Teaching Award chosen by the Respiriology Executive, and the Faculty Excellence in Teaching Award chosen by the Respiriology residents, as well as one resident award, the Jae Yang Resident Teaching Award chosen by the Training Program Committee.

Respirology also has strengths in educational program development and innovation. For example, we were the first Division in the Department of Medicine to introduce an academic half day for our Respiriology residents. We host all the Respiriology residents in Ontario for our Introduction to Respiriology course. Our first year residents spend their first month in the classroom and laboratory learning the basics of respiratory physiology, pulmonary function testing, as well as bronchoscopy and pleural procedures in the simulation laboratory. Our journal club is tweeted and articles on the subject matter of the sessions have been published in peer-reviewed journals, extending the scope of our influence. Taken together, these courses and events are very well received by our residents and represent a unique aspect of our educational program that differentiate us from other Canadian programs.

In closing, I would like to congratulate our faculty for the energetic and imaginative ways they have achieved excellence in teaching and education. Not only is this of intrinsic value, but it also draws the best trainees to our residency and fellowship training programs. In the last three years we have been very successful at CaRMS matching most our top choices, not just from Toronto, but from across the country. In addition, in the last seven years we have gone from attracting 10 post-doctoral fellows to 26 from around the world this year. In these and many other ways, excellence in teaching and education has been a major factor allowing our Division to flourish.

Since this is the last issue of RespNews for 2019, I would like to wish everyone, their families and loved ones a Happy and Healthy Holiday Season.

FEATURE ARTICLE – Dr. Bill Geerts

Improving Thromboembolism Safety in Hospitals

In 1986, I had the great privilege to join the University of Toronto as a Respirologist and thromboembolism specialist. An initial and subsequent career-long goal was to improve the safety of patients at risk for venous thromboembolism (VTE) by working to ensure that all patients at risk receive appropriate (effective and safe) thromboprophylaxis. To this end, awareness of a clinical need, and my own interest led to the development of a multidisciplinary ThromboEmbolism and Anticoagulant Management (TEAM) Program at Sunnybrook Health Sciences Centre (SHSC) whose aims have been to provide excellent patient care, conduct practice-changing research, provide broad-based education, and to improve the quality of patient care, locally and beyond.



With the support of SHSC and development of this program, my colleagues and I conducted studies that established the high and devastating risk of VTE in major trauma and demonstrated, for the first time, that VTE could be safely prevented in these patients using low molecular weight heparin. These studies, both published in the *New England Journal of Medicine*, have had a worldwide impact on trauma practice. Research in other patient groups (orthopedic surgery, general surgery, ICU, stroke, lower extremity fractures) increased our awareness that about 60% of all VTE is hospital-acquired and that thromboprophylaxis is able to prevent clinically-relevant VTE in most hospitalized patients.

From 1999-2008, I chaired the Prevention of VTE section of the American College of Chest Physicians Antithrombotic Guidelines and contributed to the transformation of this section into the international reference standard. Surprisingly, despite hundreds of randomized trials and multiple evidence-based guidelines, appropriate thromboprophylaxis use remained far from optimal. Implementing routine thromboprophylaxis at Sunnybrook was relatively simple but changing the culture of patient care across the country proved to be much more difficult. Education of individual physicians and hospitals had limited impact. In 2006, I was asked to lead the VTE Prevention component of the Canadian Patient Safety Institute's *Safer Health Care Now!*, the largest healthcare improvement effort in Canadian history. The multi-faceted interventions that we developed with CPSI taught us a lot about how to change local practices (and also what didn't work). These efforts improved use of thromboprophylaxis in Canada but audits continued to demonstrate suboptimal care in this area. In 2010, we developed a national policy for thromboprophylaxis that was adopted by Accreditation Canada as a Required Organizational Practice for all Canadian hospitals. This quickly changed thromboprophylaxis practice, and compliance with national standards (>90% based on our last audit) in hospitals across the country. These changes have been so successful that the VTE prevention initiative was "retired" in 2017.

Currently, the multidisciplinary TEAM Program has four physician consultants who represent Respirology, Hematology, General Internal Medicine, and Laboratory Hematology as well as a fulltime TE nurse and two TE pharmacists. The TEAM Service is a regional referral centre and resource with clinics in general thrombosis, cancer thrombosis, pregnancy thrombosis, and anticoagulant management. After 33 years as an academic physician, it has been an incredible privilege to work with multiple collaborators towards mitigating VTE risk at SHSC and, moreover, to witness this program's influence on setting national standards.

RESIDENT TRAINING PROGRAM ALUMNI – Dr. Kristin Fraser



I graduated from the University of Toronto Internal Medicine and Respiriology training programs in 1997. I then remained in Toronto for a one-year Sleep Fellowship that was made possible through the generous support of the Ontario Thoracic Society's *Cameron Gray Scholarship*. Subsequently, I moved to Calgary in 1999 and am now a Clinical Professor of Medicine at the Cumming School of Medicine, University of Calgary and Respiriology Site Lead for the Rockyview General Hospital. I practice both Sleep Medicine and General Respiriology and have contributed to the academic life of the University of Calgary through my teaching, research in medical education, and leadership. I also served terms as Medical Director of the Foothills Medical Centre Sleep Clinic and Program Director for their Sleep Medicine training program for many years. In addition, I launched the medical simulation program for the University of Calgary's Medical School in 2004 and now serve as Chair of the Collaborative Practice Unit which focuses on interprofessional teamwork training through experiential

learning. My educational research has focused on instructional design for optimal outcomes with a specific interest in the applications of Cognitive Load theory to simulation training.

I spend my free time with my husband, JR and our two daughters, Regan and Meredith. The family lived in Australia for the year during my academic sabbatical and we continue to enjoy travelling together. I am also an avid beach volleyball player and travel to play in competitions. Most recently, I participated in the International Masters Games in Auckland, New Zealand.

I fondly recall my many wonderful colleagues in Toronto, especially the early mentorship and support of Drs. Balter and Grossman and later encouragement in Sleep Training by Drs. Bradley, Hanly and Hoffstein.

RESEARCH FELLOWSHIP ALUMNI – Dr. Marco Mura

After completing fellowships in lung transplantation with Dr. Lianne Singer, Pulmonary Hypertension with Dr. John Granton and Interstitial Lung Disease (ILD) with Dr. Shane Shapera (combined with advanced lung transplant), I joined Western University in London as a Clinician Researcher in 2012.

I believe that the combined, advanced training pursued at the University of Toronto put me in an ideal place to look after complex patients with ILD. As a consequence, I was able to found the ILD clinic in London in 2012 that has become the regional referral centre for southwestern Ontario. Fortunately, since I reside close to Toronto, I am able to maintain a very fruitful working collaboration with the Toronto Lung Transplant Program, where our patients are referred for transplant assessment.



I strive to maintain a good balance between clinical and research activities. Regarding research, I conduct clinical and translational research in ILD. My main interests are prognostic models in IPF and molecular diagnostic tools in idiopathic interstitial pneumonias. I was promoted to Associate Professor in 2018.

I live in London with my wife Seniha and our daughter Maria Grazia. My other interests are mountain hiking, ethnography, Italian and English literature.

Program Director Report – Dr. Chris Li

I am very pleased to announce the results of the CaRMS Medicine Subspecialty Match for 2020. We have matched the following residents to our program:

Chris Humphreys (University of Calgary)
Tanya Khaper (Western University)
Alyssa Lip (University of Calgary)
Leigh Minuk (University of Toronto)
Shaun Ong (University of British Columbia)

In addition, the following internationally funded trainees will be joining our program in 2020:

Ghadah Al Rehaili (Queen's University)
Moayad Alshehri (McMaster University)



Chris Li

We very excited to be welcoming this cohort of residents to our program for July 2020. As always, I am very much indebted to our committee for their tremendous work in this year's selection process. Each year, I am impressed by the incredible quality of the candidates who apply to our program. We continue to attract some of the very best residents in the country to the University of Toronto, and I believe this is a reflection of our faculty's dedication to excellence in our training program.

Competence By Design

We will be launching Competence By Design (CBD) for Respiriology in July 2020. Our program's CBD Working Group and our Program Committee have been hard at work preparing for the launch. We are looking forward to piloting a subset of Entrustable Professional Activity (EPA) assessments in the spring of 2020, with a full launch in July. Stay tuned for further developments!

Fellowship Director Report – Dr. Cecilia Chaparro

It has been a year since I took the position of Fellowship Director for the Respiriology Division. I feel fortunate to be able to offer support to the fellows who join us every year from many places around the world. During this first year, through interviews with new and exiting fellows I have heard about their satisfaction with their

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fellowships and the great opportunity to learn at the University of Toronto's Teaching Hospitals. I have also heard about their frustrations, challenges, funding limitations, needs for better career support and professional development. Based on this feedback, we will work towards establishing an informal peer coaching system. We hope that this will create a better way to introduce fellows to the broader Respiratory Division. Our orientation to fellowship will include invitations to more academic and social events to provide more networking opportunities and to build a better fellowship community in the Respiriology Division.

I would like to take the opportunity to welcome the fellows with us now, and those about to join us in the new year of 2020!

Peter	Riddell	Transplant Medicine	02-Jan-19	31-Dec-19
Shareefah	Makhdhari	PULMONARY REHABILITATION	03-Jul-18	30-Jun-19
Kwang How	Mok	Pulmonary Hypertension	01-Mar-19	28-Feb-20
Vanessa	Martelli	Sleep Medicine	01-Sept-19	31-Aug-2020
Christopher	Pease	NTM/TB	01-Jul-18	30-Jun-19
Christelle	Bergeron	Cystic Fibrosis	29-Oct-18	27-Oct-19
John Michael	Nicholson	Cystic Fibrosis	01-Oct-18	29-Sep-19
Kristina	Watt	Cystic Fibrosis	29-Oct-18	27-Oct-19
Ciaran	Scallan	Transplant Medicine	02-Jan-19	30-Jun-19
Shaun	Yo	Pulmonary Hypertension	01-Jun-19	30-Jun-20
Nadia	Sharif	Transplant Medicine	02-Jul-19	30-Jun-20
Olivia Meria	Dias	Transplant Medicine	02-Jul-19	30-Jun-20
Natalie	Belousova	Transplant Medicine	02-Jul-19	30-Jun-20
Eyal	Fuchs	Transplant Medicine	02-Jul-19	30-Jun-20
David	Abelson	Airways Diseases	01-Apr-19	31-May-20
Naseh	Sigari	Pulmonary Rehabilitation	01-Jul-19	30-Jun-20
Daan	Raats	TB/NTM	06-Aug-19	31-Jul-20
Magdalena	Breuling	Cystic Fibrosis	02-Sep-19	28-Feb-20
Srinivas	Rajagopala	Transplant Medicine	01-Jan-20	31-Dec-20
Kimihiko	Murase	Sleep Medicine	01-Apr-20	31-Mar-21
Ketaki	Rawal	Cystic Fibrosis	01-Jan-20	30-Jun-20
Kelly	Pennington	Transplant Medicine	01-Jul-20	30-Jun-21
Jana	Kleinerova	Transplant Medicine	01-Jul-20	30-Jun-21
Shahram	Masouleh	Respiratory Rehabilitation	01-Jan-20	31-Dec-20



Cecilia Chaparro

Happy Holidays Everyone!!

Research Advisory Committee Update - Dr Jane Batt



Jane Batt

The Pettit Block term grants continue into the 2019/2020 cycle, again with a total of potentially 5 projects to be funded. **Kasia Czarnecka-Kujawa** was awarded a grant for the project “Understanding the growing burden of malignant pleural effusion: incidence, health care utilization and cost” in the spring of 2019. Applications for the November 2019 competition have been received by the RAC, and the successful grants will be awarded in early 2020

We hosted a very successful “Meet The Investigators Night” September 25th, the intention of which is to introduce the incoming Respiriology residents to the research faculty in the Division of Respiriology, providing them with a brief overview of the breadth of research conducted in the Division and opportunities for research during their training. It was well attended by 19 faculty, and numerous PGY4 and PGY5 residents. Faculty presented a 2 min

synopsis of their research programs. The following social gathering had great ambience and was enjoyed by all. If you wish to see the slides, visit <http://www.deptmedicine.utoronto.ca/respirology>



Faculty in the Division of Respiriology train a large number of non-medical graduate students and post Docs. At the last Division meeting discussion ensued regarding the fact that these non-medical graduates have limited opportunity to present their work to, and interact with, the medical members of the Division. In response the RAC, in collaboration with **Matthew Binnie**, will invite nominees and winners of the “Division of Respiriology Outstanding Trainee Award” to present at the Friday morning Respiriology Research-in-Progress Rounds . **Victoria Mintsopoulos** (supervisor, **Warren Lee**) and **Sajad Moshkelgosh** (supervisor, **Stephen Juvet**) will be our inaugural presenters in February 2020.

Membership of the RAC will be changing, January 2020.

Dr. Richard Horner PhD will be stepping down from the RAC, having served to great effect since its inauguration. Richard is an internationally recognized expert in the field of the mechanistic physiology of sleep and sleep disordered breathing. Richard has been an invaluable member, and will be missed very much.

Dr. Warren Lee MD PhD will join the committee. Warren is a basic scientist with an interest in mechanisms underpinning vascular leak in illness. He holds a Tier 2 Canada Research Chair in Mechanisms of Endothelial Permeability. Welcome Warren.

Continuing Medical Education Update – Dr. John Thenganatt



The 3rd Annual Respiriology Year in Review was held on the evening of November 7, 2019. A record 117 people attended the event. The speakers for the evening were **John Granton** (PAH) and **Shane Shapera** (ILD). The presentations highlighted the new developments in these topic areas and the audience feedback regarding the event has been very positive.

The 13th Annual Day in Respiriology was held on November 8, 2019. Over 200 hundred registrants attended this year's event focused on Airway Diseases. Our four invited visiting guest speakers included Drs. **Catherine Lemiere** (Universite de Montreal), **Paul O'Byrne** (McMaster University), **Jean Bourbeau** (McGill University) and **Gerard Criner** (Temple University). Local UofT Respiriology faculty included Drs. **Ambrose Lau**, **Meyer Balter**, **Ken Chapman**, **Mayer Balter**, **David Hall**, **Susan Tarlo**, and **Matthew Stanbrook**.

I would like to thank the Annual Day Organizing Committee, **Matthew Stanbrook** (Chair), **Samir Gupta**, **Ian Fraser**, **Deborah Casey** and **Rebecca Colman** for developing such a strong program. Special thanks goes to **Karen Forai** for her ongoing administrative support of our CME activities.

AWARDS and GRANTS

Dr. Cecilia Chaparro was given the Dr. Douglas Crozier Award in gratitude for her many contributions to the Cystic Fibrosis community. The award is intended to recognize a healthcare professional who has demonstrated exceptional support to people living with CF.

Dr. Shiphra Ginsburg was selected for the inaugural cohort of 12 international scholars for the Karolinska Institute Prize for Research in Medical Education Fellows Program. The Prize is awarded every 2 years and the new Fellowship program, also to be selected every 2 years, has the goal of nurturing the next generation of researchers in medical education.



Cecilia Chaparro

Dr. Jolene Fisher received a Canadian Pulmonary Fibrosis Foundation Research Grant.

Dr. Stephen Juvet, won the Transplant Innovation Accelerator Award for his research project on the immunology of exosomes in lung transplantation in November 2019. Also, he was promoted from Affiliate Scientist to Scientist at the Toronto General Hospital Research Institute (2 December 2019).



Andrew Kouri

Dr. Andrew Kouri, Respiriology Fellow, is recipient of the PGME, 2019 **Chisholm Memorial Fellowship** Postgraduate Research Award.

Dr. Mingyao Li is the recipient of the **Chinese Professional Association of Canada, 2019 Professional Achievement Award** to recognize his outstanding achievements in medical science as an immigrant to Canada.

Dr. Dmitry Rozenberg was awarded a Canadian Pulmonary Fibrosis Foundation Research Grant.



Andrei Vagaon

Dr. Andrei Vagaon is the recipient of a one-year Canadian Pulmonary Fibrosis Foundation Robert Davidson Fellowship for his contributions to IPF patient care.

Dr. Harvey Wong was awarded the Young Teacher Award this year by the Department of Medicine at Sunnybrook Health Sciences Centre.

NEWS

Dr. John Granton spoke to CBC television on vaping: video clip:
<https://www.cbc.ca/news/health/vaping-liquid-tests-1.5381363>

Dr. Samir Gupta, spoke on CBC Morning Live on vaping:
<https://twitter.com/cbcmorninglive/status/1201513477694640130>

Reminders

Royal College Accreditation, October or November 2020: we will send out the date when it is confirmed.
Respirology Resident Applicants' Interview Day will be in October, 2020 - at Li Ka Shing Learning Institute.
Annual Respirology Research Day, June 24th, 2020 will be held at Li Ka Shing Learning Institute. (new venue)
The next **Pettit Block Term Grant** application deadline is April 15, 2020.