

DALHOUSIE MEDICINE NEW BRUNSWICK Annual Report 2015 - 2016

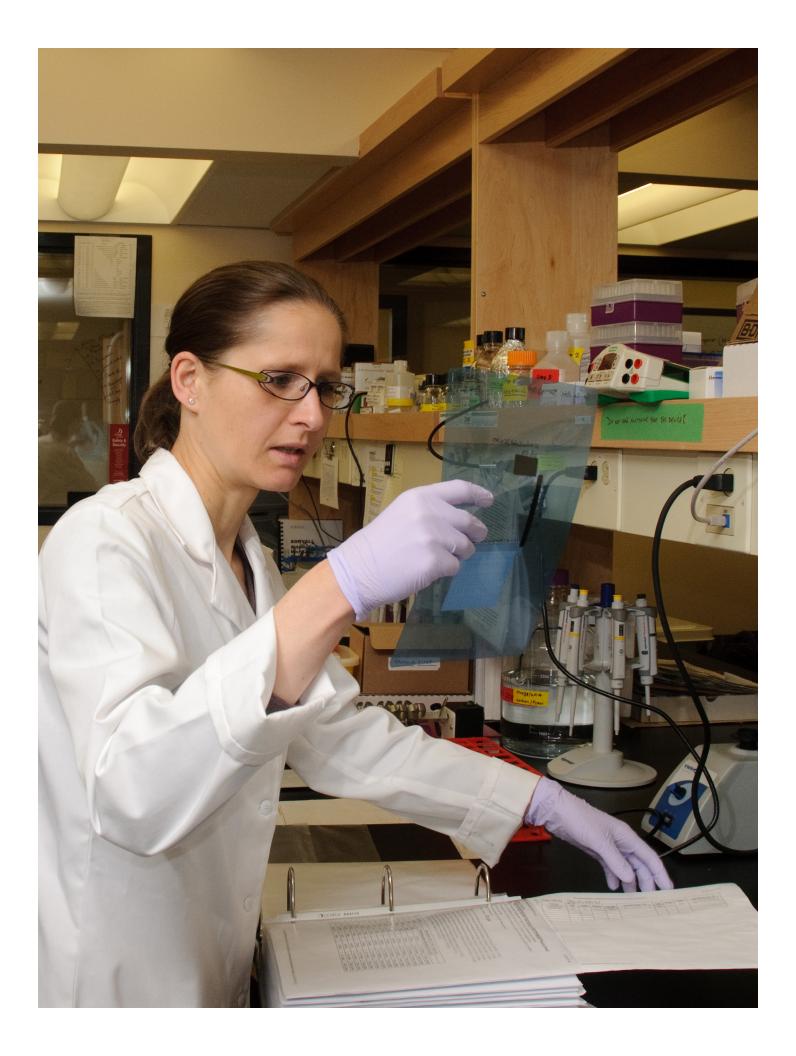


Table of Contents

Dean's Message	1
Associate Dean's Update	2
Tripartite Agreement	3
Admissions	4
Curriculum	5
Accreditation	7
Students	8
Faculty & Staff	12
Humanities	13
Research	14

Dean's Message



Dr. David Anderson Dean, Dalhousie Medical School

It's been just over a year since I've assumed leadership as Dalhousie Medical School's 13th dean—there were many proud moments in 2015-16. Most recently, our partnership between Dalhousie University, the University of New Brunswick, and the Government of New Brunswick was renewed, allowing for the continuation of our undergraduate medical education program at Dalhousie Medicine New Brunswick. This is an important milestone in DMNB's history, and I'm eager to see what the next five years will bring.

I'm pleased that our five-year strategic plan— #DalMedForward—was launched this summer. Through surveys, retreats, town halls, and meetings with hospital and government partners, we've identified three areas of focus: education; research; and serving and engaging society.

We continue to seek ways to attract top-notch students who are representative of the Maritime population. As part of an admissions review, we held a town hall led by Dr. Gus Grant, CEO of the College of Physicians & Surgeons of Nova Scotia. With almost 70 guests, we received a lot of ideas. A committee of students, members of the public, diversity leaders, and experts in medicine and academic admissions policies are bringing these recommendations to our admissions team.

We had a busy year on the education side of things. A map of our undergraduate medical education curriculum was moved online, improving navigation for faculty and students. And our SimEd Network is up and running; I've taken on the role as chair of the network's

oversight committee. We'll be moving forward in partnership with the Nova Scotia Health Authority, the IWK Health Centre, and the Faculty of Health Professions to advance simulation training, research, and interprofessional education at Dalhousie. We're building strong and comparable simulation and interprofessional activities at our two campuses.

DMNB's research enterprise continues its success. Dr. Thomas Pulinilkunnil received a national Canadian Diabetes Association grant. It was the first one ever awarded in New Brunswick, and a testament of his impressive research into diabetes triggered by obesity. Dr. Keith Brunt received his first national grant from the Heart and Stroke Foundation of Canada. And master's students Purvi Trivedi and Ashley Eadie successfully defended their theses under the supervision of Dr. Pulinilkunnil and Dr. Keith Brunt, respectively.

We've been preparing for our visit from the Committee on the Accreditation of Canadian Medical Schools, which will be accrediting our undergraduate medical education program in February 2017. We hosted a two-day, mock accreditation, which sparked our accreditation ramp-up and identified areas we need to focus on. It's been an incredible amount of work involving over 100 faculty, staff, and students. I'm grateful for the dedication of our accreditation team and the many subcommittees working on our self-study report.

I'm looking forward to continuing to partner with Dr. Jennifer Hall and our team in New Brunswick to continue to provide world-class education and research programs. And, I'm now on Twitter (@DalMedDean)—I'm happy to connect with people online. Please reach out if you have questions or suggestions for me.

David Anderson, MD Dean, Dalhousie Medical School

Associate Dean's Update



Dr. Jennifer Hall Associate Dean, DMNB

Negotiations for the renewal of the Tripartite agreement and grant renewal is complete. An announcement was held in August 2016 with the Government of New Brunswick and the University of New Brunswick. The renewal provides DMNB with funding to continue providing quality education to the next generation of physicians here in New Brunswick. Negotiations for the renewal of the Bipartite agreement between Dalhousie University and the University of New Brunswick is ongoing with good collaboration between the groups.

With Phase I of the LOCATED Project (tracking of long term outcomes data regarding individual characteristics and programmatic elements impacting medical school graduates in their choice of specialty and practice location) complete, data was collected to populate and test the model over the summer months to continue to populate the data base.

Several staff and faculty positions were filled this past year. Dr. Akram Jaffar was appointed to a one year term position of anatomy instructor and Ms. Jackie Phinney has accepted the position as a Dalhousie tenure-stream librarian at DMNB. Dr. Robert Boulay, a family physician in Miramichi, was appointed Assistant Dean Clinical Education DMNB and Dr. Lisa Searle, family physician in Moncton with a focus in Palliative Care, was appointed Director of Faculty Development. DMNB. Dr. David Vaillancourt, a family physician with a focussed Emergency medicine practice, was appointed DMNB Clerkship Director Fredericton Site

replacing Dr. Aaron Digby.

The bi-annual Dalhousie Clerkship tour was carried out in the fall with the Associate Dean UGME, the Assistant Dean Clerkship, and a number of Dalhousie Clerkship Directors joining the Associate Dean DMNB and the Assistant Dean DMNB Clinical Education. The leadership team met with the medical education leadership, students and administrative staff at each of the five New Brunswick clinical sites (Saint John, Fredericton, Miramichi, Moncton and Upper River Valley).

The third cohort of DMNB students graduated in June and have entered residency positions at Dalhousie and across the country in a variety of disciplines. One student will enter a fifth year of medical studies at Dalhousie.

Jennifer Hall, MD Associate Dean, DMNB

Tripartite Agreement

On August 10, 2016 the students, faculty and representatives from the three partners involved in Dalhousie's Medicine program in New Brunswick — Dalhousie University, the University of New Brunswick and the Province of New Brunswick— gathered to celebrate the renewal of their tripartite agreement.

The five-year renewal of the agreement allows Dalhousie Medicine New Brunswick to continue delivering its undergraduate medical program in Saint John — a four year, English-Language, distributed program.

As part of the agreement, the provincial government provides operational funding to

Dalhousie University to run the program, as well as funds to the University of New Brunswick to lease space at its Saint John campus and provide infrastructure, student support services and library facilities.

The original agreement was signed by all three parties in June 2008. The program's charter class began their studies in 2010, graduating in 2014. The program admits 30 students per year, with those students conducting the majority of their studies in Saint John for the first two years, followed by clerkships around New Brunswick and fourth year electives that take place in a wide range of locations.

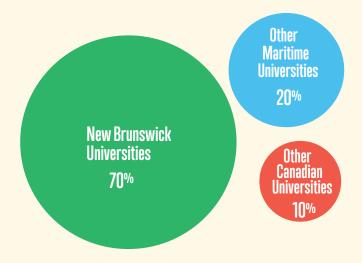


Front row: Hon. Ed Doherty, Minister of Service New Brunswick, Hon. Donald Arsenault, Minister of Post-Secondary Education, Training and Labour, Hon. Victor Boudreau, Minister of Health **Back row:** Robert Dunfield (Class 2019), Kiersten Amos (Class 2019), Carly Baxter (Class 2020)

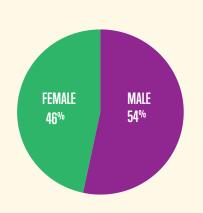
Admissions

Class of 2020 demographic information

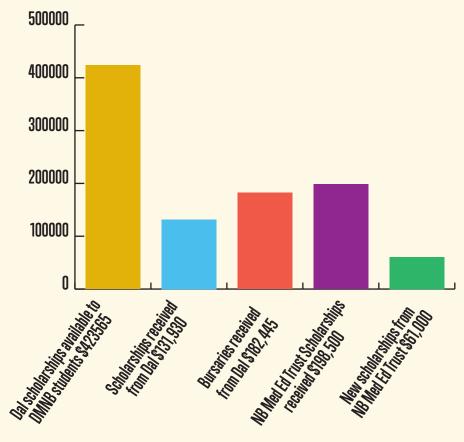
Location of previous study



Male/Female student ratio



Funding available for DMNB students 2015-2016



In 2015-2016, DMNB students received a total of \$573,875 in funding.

Curriculum

Interprofessional Education

This year marks the second year of successful collaboration with UNB in provision of teaching of anatomy to UNB nursing.

Interprofessional Education opportunities continue to be developed and piloted among DMNB students, NBCC and UNB students with one activity being medical student initiated and organized.

Site Tour

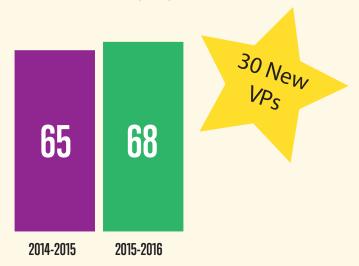
The clerkship directors tour of New Brunswick sites occurred in October 2015 with leadership from Dalhousie Faculty of Medicine. Dean Anderson joined for a portion. Dr. Evelyn Sutton, associate dean, Undergraduate Medical Education (UGME), and clerkship program directors based in Halifax also participated.

The members of the tour met with faculty at each site with a focus on the clinical environment. They also met with hospital and academic leadership at each of the sites.

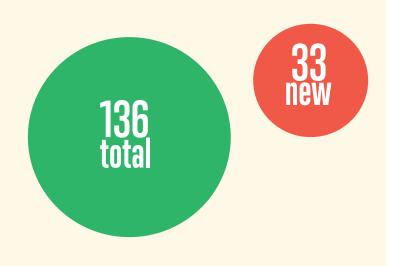
Public Engagement

DMNB programs are dependent on the engagement of the community volunteers and other members of the community who enable students to develop their clinical skills. Nineteen of the 65 volunteers were new for the 2015-2016 academic year. All patients from the previous year (46) continued volunteering. Simulated patients totalled 136. Of these, 33 were new. Not all simulated patients participated during the 2015-2016 time frame.

Volunteer Patients (VPs)



Simulated Patients



Curriculum

Research in Medicine

Resarch in Medicine (RIM) was introduced in 2012 and is a four year longitudinal program. The first program of its kind in Canada, RIM is a mandatory course that introduces Dalhousie medical students to research from the start of their medical training. From first year on, it fosters their research and critical thinking abilities as they complete independent research projects.

The research mentor is paired with one or more students and their role is to guide students through the scientific method and help him/ her develop and hone critical thinking skills. During the first and/or second summer of the RIM course there is an opportunity for medical students to receive a stipend while conducting research for their RIM projects.

In the 2015/2016 academic year, 74 faculty members have expressed interest in being RIM mentors.

The RIM course Annual Research Day was held on April 1, 2016 with oral presentations presented between campuses by video-conference and poster presentations at the local sites. The following DMNB students were recognized for their research:

- Evan Losier (Class 2018): Why residents from assisted living facilities are admitted to hospital from the Emergency Department
- Jennifer Duguay (Class 2018): Communicating with IVF patients about Embryo Disposition: A Qualitative Study
- Lynn Symington (Class 2018): Retrospective Analysis of Same Day Re-Admission Following Elective Outpatient Lumbar Spine Surgery



Curriculum

Longitudinal Integrated Clerkship Dalhousie

The LICD program continues to be delivered in Miramichi, Moncton and Waterville.

Moncton: A New LICD Site's first year

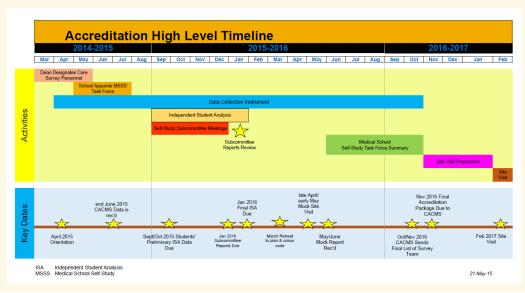
Dr. Robert Boulay

The Moncton LICD received its first 6 students in the 2015-2016 academic year; it was a very successful year for this site, as the students integrated easily into the health care of their patients. The students at that site prepared and presented a session outlining what they perceived as their greatest successes and challenges of the inaugural year at this site; this was very well received at the NB Medical Education Forum held in Moncton in April. One of the students from the Moncton LICD site will be presenting a poster at the CLIC meeting (Consortium of Longitudinal Integrated Clerkships) in Toronto.

The site director, Dr Marc Blayney, and the site coordinator, Martine McKay, were instrumental in ensuring that this site and its faculty were prepared for the LICD.

Accreditation and Evaluation

The Medical School Accreditation is scheduled February 26 to March 1, 2017. In preparation of this visit, Dalhousie has engaged many New Brunswick faculty, students and staff to provide input and participate on sub-committees. This is the first onsite visit by a Committee on Accreditation of Canadian Medical Schools (CACMS) accreditation team since the campus was developed. Below is an overview of the timeline that was created by the Faculty of Medicine in preparation for the accredition process.



Class of 2019

In September 2015, the sixth class of Dalhousie Medicine New Brunswick was welcomed into the study of medicine in New Brunswick at the annual First Light Ceremony.

Student Performance

The performance of students from New Brunswick and Nova Scotia for the 2015-2016 academic year were comparable for Med I, II, III and IV.

Hidden Realities

DMNB students continue to organize Hidden Realities Series lectures. The sessions are organized by Med I and Med II Global Heatlh Class representatives. For the 2015-2016 academic year the representatives were Sofija Rans Class 2018) and Laura Faulkner (Class 2019).

One session was organized in September 2015 with guest speakers Dr. Marianne McKenna and Kate Colwell on *Impacts of Domestic Violence*.

Syrian Refugees

Update provided by Alana Ward, Class of 2018

The Syrian Refugee initiative at DMNB was aimed at helping the Syrian families that were arriving in Saint John. We partnered with a member of the community, Nancy Creamer, who was a part of a welcome team for a Syrian family. She came in to speak with us about the family and their current needs. One of the most immediate needs was a crib. Through student donations, we quickly raised enough money for a gift certificate to Toys-R-Us.

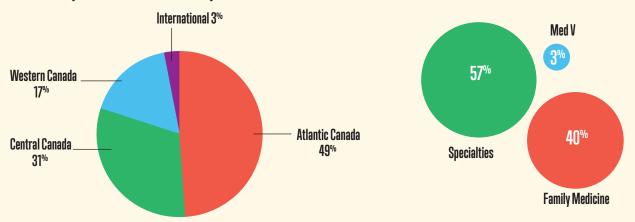
Nancy also told us that it would be very useful for the family to have extra funds for food. We organized a wine draw at the school that involved students donating a bottle of wine and selling tickets to family and friends to win the bottles of wine. The winner ended up winning over 45 bottles of wine and we raised over \$2000. We spent some of this money on gift certificates for groceries for the family and we donated the rest to the Syrian refugee initiative at the YMCA. During this time, we also had students volunteering at the Howard Johnson hotel where the Syrian families were staying before they found housing.

Students helped with preparing and serving meals, child minding and meeting new families to make them feel welcome. We also had the CEO of the YMCA come in and speak with the students about everything else that the Y was doing to welcome these families to Saint John. Students and staff showed great compassion and generosity during this initiative and we hope to continue some of these projects this school year!

CaRMS

The third Canadian Resident Matching Service (CaRMS) iteration was held in March 2016. The Class of 2016 DMNB student performance was comparable to the Halifax campus with one student unmatched. All students graduated. The DMNB student who remained unmatched post CaRMS has been accepted to Med V program offered by Dalhousie University.

Out of the graduating class, close to half of the students have decided to pursue their residency in Altantic Canada. The remainder will study at other locations in Canada and one will be undertaking residency in the US. There is an equal split between those choosing Family Medicine and Royal College specialty residencies.



Conference of New Brunswick Medical Education

Update provided by Jordan Francheville, Class of 2018

The Conference of New Brunswick Medical Education (CNBME) was held in Saint John from April 29-30, 2016. The conference is an annual student-organized event hosted by DMNB and CFMNB on alternating years. This year, a DMNB student committee prepared a two day schedule of clinical skills sessions, discussions/debates, and social activities around a central theme: *The Future of Medicine in New Brunswick*.

Compared to years past, the event saw a marked increase in attendance, fundraising, and involvement of the local medical community. A total of 78 student registrants from both campuses participated. The New Brunswick Medical Society was introduced as a partner to provide sponsorship and perspective regarding trends and provincial initiatives that will impact future healthcare delivery in this province. Dr. Jennifer Hall and other impactful physicians, allied health professionals and hospital administrators provided direction in small group sessions and a panel discussion.

Ultimately the event succeeded in facilitating social networking, peer learning and meaningful discussion between learners from both of New Brunswick's undergraduate medical school campuses.

Class of 2016

The Launch Ceremony for the Class of 2016 was held on May 13, 2016 at the Imperial Theatre in Saint John. During the Launch Ceremony, several people were recognized for their contributions to DMNB.

Builder's Award: Fraser MacKay. Awarded by staff and presented to the graduating student they feel has made the greatest contribution to DMNB.

Anchor Award: Rebecca Comeau. Awarded by the graduating class recognizing the individual who has made the most significant contribution to their experience at DMNB.

Director's Choice Clinical Skills Award: Sean Wilson. Awarded for his excellence in clinical skills. The recipient is chosen by the director of the Skilled Clinician Unit.

Fostering Professional Identity Award:

Edward Percy. Awarded to a student who has demonstrated professionalism, community service and teamwork through the Humanities Program at Dalhousie Medicine New Brunswick.

Humanities Award: Edward Percy. Awarded by the Humanities Director to a graduating student who has demonstrated professionalism, community service and teamwork through DMNB's Humanities Program.

Stefan Mildenburger Social Pediatrics Award: Claire Humphrey. Awarded in honour of Stefan Mildenburger, an exceptional social worker at the Saint John Regional Hospital. The award recognizes a member of the graduating class of DMNB who has contributed to social pediatrics.

Resident Teaching Award: *Dr. Aaron LeBlanc.* Awarded to a resident whom the class feels has most significantly contributed to their medical education clerkship career.

Departmental Awards

Surgery Award: Edward Percy. Awarded by the Surgery Department at the Saint John Regional Hospital (SJRH) to a graduating DMNB student who has demonstrated excellence and aptitude in the field of surgery.

Award for Excellence in Geriatric Medicine: Claire Humphrey. Awarded by the Geriatrics Department at the SJRH to a graduating DMNB student who demonstrates aptitude and excellence in the field of geriatric medicine.

Emergency Medicine: Taryn O'Neill. Awarded by the SJRH Emergency Medicine Department to a graduating DMNB student who demonstrates aptitiude and excellence in the field of Emergency Medicine.

Internal Medicine Award: Shona Phillips.
Awarded by the SJRH Internal Medicine
Department to a graduating DMNB student who
demonstrates aptitute and excellence in the field
of Internal Medicine.

Physiatry Award: *Justin Parker.* Awarded by the SJRH Physiartry Department to a graduating student who demonstrates aptitude and excellence in the field of Physiatry.

Nephrology Award: Shona Phillips. Presented on behalf of Dr. Paul and Mrs. Eileen Handa, this is awarded to a graduating student who demonstrates aptitude and excellence in the field of Nephrology.

Convocation

The Launch Ceremony was followed by the graduation ceremony at Dalhousie University in Halifax on May 27, where 30 DMNB students met all the medical degree qualifications following four years of study in New Brunswick.

A number of DMNB students were recognized for their academic performance. The following is a list of the awards and distinctions received by members of the DMNB Class of 2016.

Graduation with Distinction:

Claudia Cote Mariah Giberson Eric Pond Ethan Toumishey

Dr. John F. Black Prize: Claudia Cote. Awarded to a student on completion of the fourth year who reaches the highest standing in Surgery.

Dr. N. N. Isa Achievement Award: Rebecca Topp. Awarded for outstanding achievement during her core rotation in the Department of Obstetrics & Gynecology at the Saint John Regional Hospital.

DMRF Dr. J. Donald Hatcher Award for Medical Research: *Claudia Cote.* Awarded to the final year undergraduate medical student, who at graduation is considered to have carried out the most meritorious and significant

research project during the undergraduate program, including summer electives.

Dr. Leonard, Kay & Simon Levine Scholarship: Ethan Toumishey. Awarded an annual scholarship to a fourth year medical student who is pursuing studies in Family Medicine. The recipient is to be selected on the basis of academic excellence.

The Lourdes I. Embil Award for Cardiovascular Research: Claudia Cote. Awarded for clinical research in Cardiology, Cardiovascular surgery, Cardiovascular Pharmacology, Physiology or other fields associated with clinical Cardiology.

Earle Family Prize: Taryn O'Neill & Andrew Chan. Awarded an annual prize to one or more students who have demonstrated the skills necessary to practice rural medicine in New Brunswick.

Dr. Ram Singari Boodoosingh Memorial Prize: *Andrew Chan.* Awarded an annual book prize to a graduating student in the Faculty of Medicine who, with clinical skill and a sense of humour, most brings 'art' to the practice of medicine.



Faculty

Faculty Development Program Overview

In the 2015/2016 year, there were eight face-to-face sessions offered. On average, two videoconference development sessions occurred each month. The videoconferenced sessions provide information in a lecture style while the face-to-face sessions are typically longer and group based format. Newly introduced is the delivery of faculty development sessions by webinar to make them more accessible for faculty to attend/watch at their leisure.

Feedback from DMNB faculty suggest they prefer having two to four hour blocks of time, two to three times per year versus one hour sessions. The timing and frequency of the sessions are based upon the preferences of each site. Thus far, the sessions held in sites across the province in 2015/2016 support this with larger overall participation than the webinars and hour-long sessions held.

physicians recruited

Faculty Recuitment

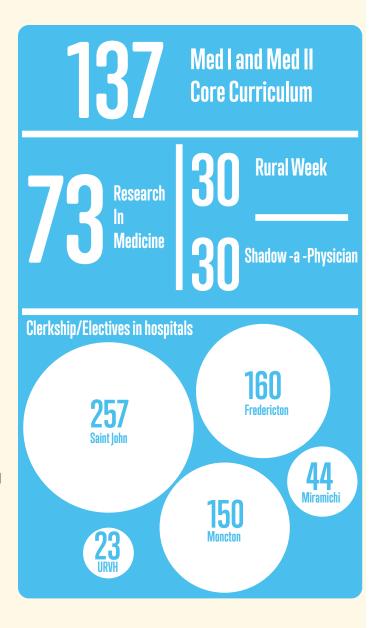
Successful recruitment and engagement of faculty from all five DMNB sites for various roles including curriculum delivery, assessment and evalution of students as well as development and delivery of faculty development sessions.

Dr. Lisa Searle assumed the role of DMNB Faculty Development Director, September 1, 2015 to provide support and leadership for faculty development in New Brunswick.

Dr. David Vaillancourt, an emergency medicine physician, was appointed DMNB Clerkship Director Federicton site in 2015.

Dr. Akram Jaffar was appointed to fill the term position of anatomy instructor. Previously, the faculty from the Halifax Campus delivered the curricular elements on-site in New Brunswick.

In early 2016 Jackie Phinney has accepted the tenure-stream Dalhousie librarian II position.



Humanities



Dr. Wendy Stewart

Director of Humanities

Overview

Dalhousie Medical School has a well established humanities component. The acronym of this component is HEALS, which stands for Healing & Education through the Arts and Life-Skills.

This program offers students the opportunity to develop a deeper understanding of the 'art of doctoring,' including self-reflection and self-care, which it is hoped will translate to healthy and whole physicians and better patient care.

At DMNB the Humanities program is active with student participation in the choir, ceilidh band and participation in the annual DMNB Memorial Service. Students also have a knitting club and a photography club.

Events

The Annual DMNB Memorial Service, was held at the Quispamsis United Church in April 2016. This celebratory, non-denominational service was initiated three years ago to honour and commemorate individuals who have donated their bodies for medical education and research. The numbers attending the service this year increased markedly from last year with very positive feedback.

The Music in Medicine program is undertaken at both the Halifax and Saint John sites. There has been ongoing student support and involvement in this aspect of the program. Concerts have occurred at both sites.

At DMNB students held a Christmas concert in November 2015 and participated in a Ceilidh

fundraiser in early 2016.

The ceilidh band, Ceol, has expanded in 2015-2016 year to incorporate a violin and a clarinet which has brought a new sound and new pieces of music.

Research

Student Research

Shawn Casey (Class 2018), Wendy Stewart. Improving Bedside Manners: The Impact of a Communication Oriented Team Based Learning Exercise on Student Readiness for Interprofessional Learning. This project involves the use of medical readers theatre scenarios from the book Bedside Manners to introduce health professional students to the challenges and consequences of poor communication in interprofessional teams. Students are participating in a Team Based Learning exercise as part of this process as well and will complete the Readiness for Interprofessional Learning before and after. Students in Halifax will follow the regular program and will serve as the control group.

Humanities Collaboration with Research Chair in Occupational Medicine

Anil Adisesh, Wendy Stewart, Boon Kek. **Dramatic Returns.** This project is a collaboration with the Chair of Occupational medicine at DMNB, WorksafeNB, Workers ompensation in NS and PEI, and the Theatre Department at Dalhousie. Qualitative data were collected using interviews with patients and physicians. The transcripts were analyzed for themes. Scenarios were chosen to reflect the different challenges patients face in trying to get back to work after injury or illness. These form the basis of 4 short plays that are being used to develop workshops for physicians, manager, HR employees, workers compensation and other individuals involved in getting patients back to work. The plays will be used in a medical readers format plus videoed using actors. Either can be used in the workshops. Eventually online modules will be created using the videos.

Research



Dr. Anthony Reiman Assistant Dean, DMNB

We have had another successful year in the DMNB research program!

Our DMNB research team has attracted over \$2 million in funding this year, headlined by Dr. Thomas Pulinilkunnil, assistant professor in Biochemistry and Molecular Biology at DMNB, who has been awarded a highly competitive \$300,000 operating grant from the Canadian Diabetes Association. The team has produced 14 presentations at research meetings and 46 peer-reviewed manuscripts this year.

Drs. Petra Kienesberger, Keith Brunt and Pulinilkunnil continue their leading edge biomedical research into cardiovascular disease in collaboration with the clinical team at the New Brunswick Heart Centre and colleagues across the region, the country and the world.

Our J.D. Irving, Ltd. Chair in Occupational Medicine, Dr. Anil Adisesh, continues his important research and educational initiatives from DMNB to support a healthy workforce across the Maritimes.

We have an ever-growing group of keen young minds in our research program, including medical students, undergraduate students, Masters and PhD students and postdoctoral fellows. This year we had 37 trainees in the program. These trainees ensure that the future of medical research at DMNB is in good hands and well prepared.

We are well represented on various research committees at Dalhousie University, and have had our DMNB voice represented in discussions about the strategic plan for research in the Faculty of Medicine. DMNB has an important part to play in these plans, which will enhance our ability to generate world-class research including work that will benefit the health of Maritimers.

Dr. Tony Reiman Assistant Dean, Research, DMNB

Research

Summer Students

The summer of 2016 the research lab welcomed a total of four students. The students were composed of two high school and two university students. The students provided support to the two principal investigators and obtained valuable experience. Funding was obtained for several of these positions.

RIM Students

There were 12 Research In Medicine (RIM) students working with four researchers, some in the lab. Students worked with the research teams of Dr. Brunt, Dr. Kienesberger, Dr. Pulinilkunnil and Dr. Reiman. The students were from each of the four medical classes and projects included:

- Branched-chain amino acids catabolism: Novel predictor of adverse events following cardiac surgery
- Significance of TRPV6, a calcium channel, as a diagnostic and prognostic biomarker for multiple myeloma
- Qualitative Assessment of a Non-Invasive Vital Sign Monitor with Secure Home-Based Video Conferencing Patient Engagement Platform: The e-Clinic Pilot Study

The relationship between serum autotaxin (ATX) and post-operative outcomes in patients, of various obesity classifications, undergoing cardiac surgery at the Saint John Regional Hospital in Saint John, NB.

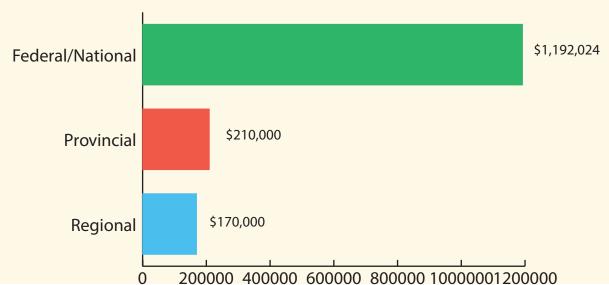
Funding Update

DMNB researchers have continued to be successful in attracting funding from national, provincial, regional and industrial competitions. The following charts show the breakdown of funding ending the fiscal year 2016 which totals approximately \$2.2 million. Funding received by Principal Investigators totalled \$1,747,921. The Principal Investigators have seven trainees working with them that received funding in the fiscal year end 2016. Grants and funding received by trainees totalled \$506,496.

The majority of funding received by Principal Investigators was from Federal/National sources, while the split was more even among trainees.

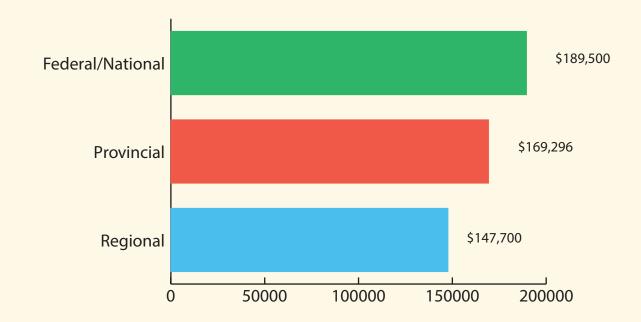
Just over half of the funds received by Prinicpal Investigators will be administered by Dalhousie University, with UNB administering almost half and industry administering a small amount.

DMNB Funding for fiscal year end 2016 (excluding trainee funding)



Research

DMNB Funding obtained by trainees fiscal year end 2016



Administration of funding received in fiscal year end 2016

