

DALHOUSIE MEDICINE NEW BRUNSWICK

Annual Report 2016 - 2017





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Dean's Message



Dr. David Anderson
Dean, Dalhousie Medical School

I am delighted to report that our undergraduate medical education program has received accreditation for an eight-year term. This favourable result is the culmination of years of effort throughout the Faculty of Medicine, during which we examined every aspect of our curriculum and operations and took the necessary actions to ensure everything we do meets the extremely high bar set by the accrediting bodies.

Of the 12 overall standards, 11 were rated as satisfactory and one as satisfactory with further monitoring in a year when we have more data in hand. We will follow up with Committee on Accreditation of Canadian Medical Schools (CACMS) about progress made regarding this standard in a report to our accreditors required in one year.

The accreditation review team reported they were particularly impressed by the high degree of engagement of our leaders, faculty, students and staff in improving the quality of medical education. Other notable strengths are the quality of our IT technical and human resources. The accreditors also praised the quality of our distributed education programs and Dalhousie Medicine New Brunswick. Representatives conducted their site visit to Dalhousie Medical School's facilities in Halifax and Saint John between February 26 and March 1, 2017.

In addition to accreditation, it has been another very productive year for the Faculty of Medicine and Dalhousie Medicine New Brunswick (DMNB).

The Fredericton clinical site prepared itself for its launch as a Longitudinal Integrated Clerkship Dalhousie (LICD) site in the fall 2017. This was done through administrative and faculty meetings, and faculty development sessions.

DMNB students continued to impact their local communities with their service learning projects. This is an optional credited course students can take in their first two years of study. During the course they work with community organizations to help create deliverables that positively impact the marginalized and underserved populations the organizations support. You can read more about their impact in this report where one of the projects is highlighted.

In research, Dr. Anthony Reiman, DMNB's assistant dean of research was awarded the Terry Fox Foundation's \$5million grant. Although he received the funding through his position as the Canadian Cancer Society Research Chair at the University of New Brunswick, the NB portion of research will be conducted in the lab at DMNB, highlighting the level of collaboration and synergy between our two historic institutions.

Congratulations to all students, staff and faculty at DMNB for another outstanding year!

David Anderson, MD, FRCPC, FACP
Dean, Dalhousie Medical School

Associate Dean's Update



Dr. Jennifer Hall
Associate Dean, DMNB

As we continue to move forward and help the Faculty of Medicine implement our strategic plan, #DalMedForward, we also pause intermittently to celebrate our successes.

This year, 2017 marks the graduation of Dalhousie Medicine New Brunswick's fourth cohort of medical students. We are proud of their accomplishments and look forward to their continued success.

This graduating cohort was our first class to participate in the Research In Medicine program. This program has seen numerous students publish in peer-reviewed journals and present at regional, national and international conferences. The engagement of New Brunswick faculty and members from the University of New Brunswick in this program is testament to the strong working relationships that our co-location has fostered and continues to strengthen.

We are now at the point in our brief history where we have graduates who have completed family medicine residency and are establishing practices in New Brunswick. Our LOCATED project has tracked six of our graduates who have finished residency. Of these, five have chosen to establish themselves in New Brunswick and one in Nova Scotia.

Our researchers continue to perform and attract national level funding to help improve the health of citizens in our Province. Funding has been successfully obtained from national organizations like the Heart and Stroke Foundation of Canada and Canadian Diabetes

Association.

Of course our program would not be possible without the continued support of our New Brunswick faculty and volunteers.

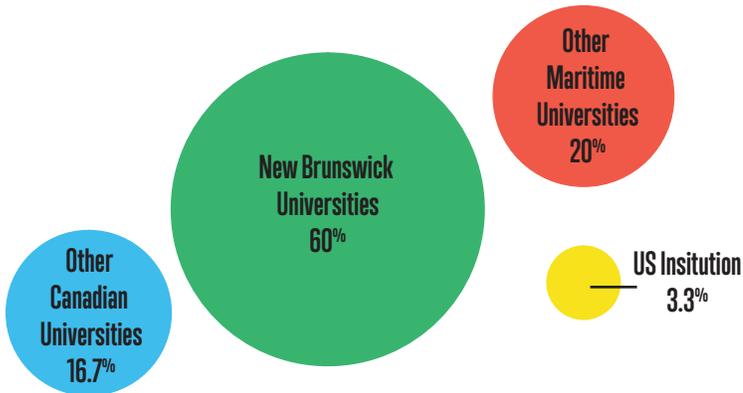
This year's report includes tables with some Key Performance Indicators we hope to track year over year to monitor our continued strive for excellence and alignment with #DalMedForward in areas of Education, Research, and Serving and Engaging Society. Some of our measurements include the number of lectures New Brunswick faculty provide to the entire Dalhousie Medical School classes, the number of students who match to family medicine specialty and research funding obtained.

Jennifer Hall, MSc, MD, CCFP, FCFP
Associate Dean, DMNB

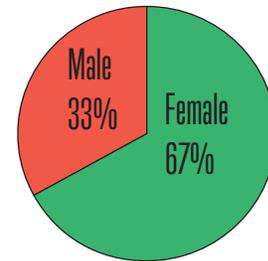
Admissions

Class of 2021 demographic information

Location of previous study

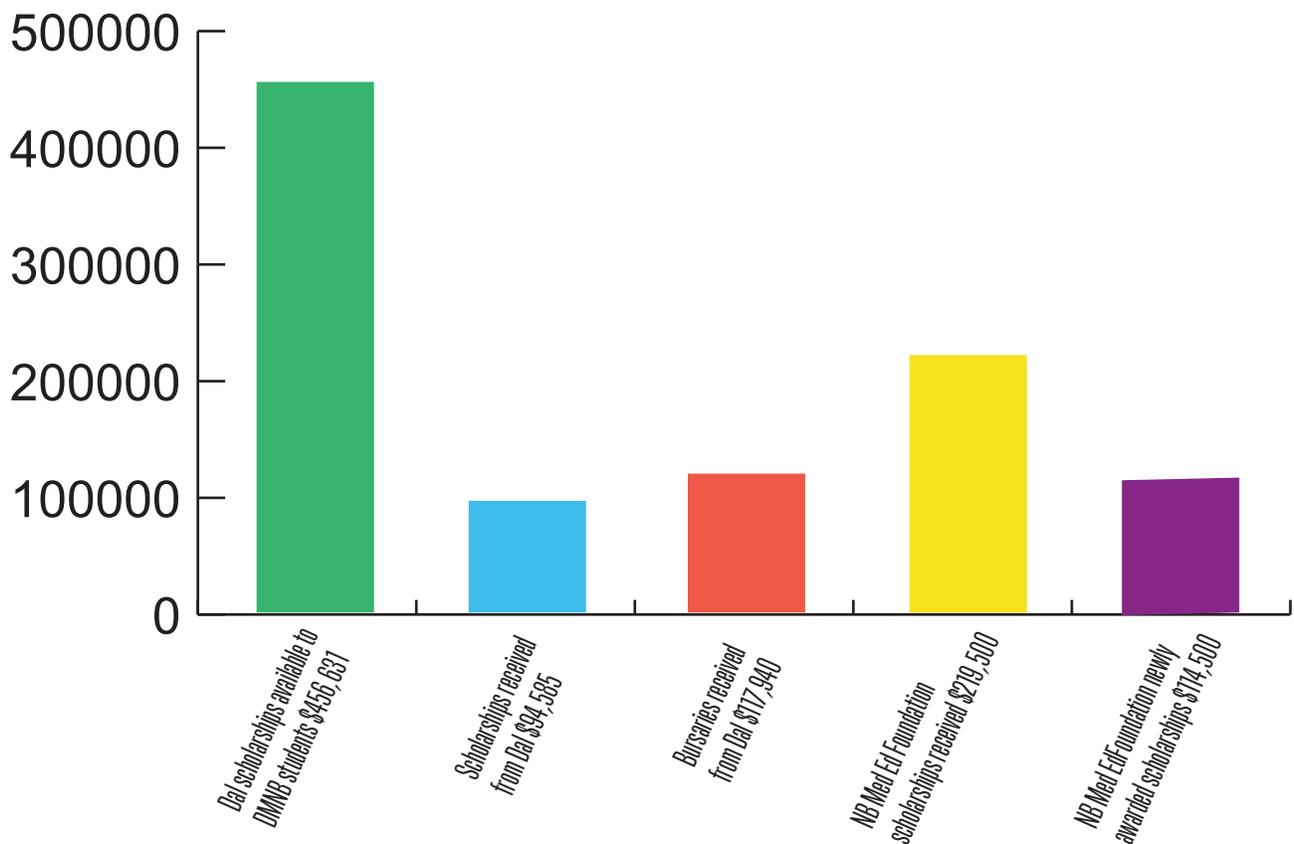


Male/Female student ratio



Funding available for DMNB students 2016-2017

In 2016-2017 DMNB students received a total of \$432,025 in funding.



Clinical Education Update



Dr. Robert Boulay
Assistant Dean, Clinical Skills DMNB

The 2016-17 year at DMNB has been one in which we continued to consolidate clinical activities across all sites, all the while continuing to expand and innovate.

As simulation activities for medical students continue to evolve, we were excited to purchase medium-to-high fidelity mannequins for all five of our clinical teaching sites and provide training for faculty at our distributed sites; simulation sessions are now being delivered in all sites, ensuring that students are fulfilling mandatory curricular requirements across the province.

One of the major activities at DMNB last year was preparing for and completing the CACMS/LCME Accreditation visit. Innumerable hours were spent getting ready for this process, as it was the first time that Dalhousie Medicine had been accredited since the addition of our satellite campus at DMNB.

I would like to take this opportunity to thank all of the clinical leaders and staff who helped us achieve a successful eight year accreditation! The commitment of the entire team at DMNB was certainly a strong contributing factor in our success!

The LICD (Longitudinal Integrated Clerkship Dalhousie) continues to expand in the province; this fall, the Fredericton site implemented its LICD, bringing the total number of LICD clerkship positions in NB to 16 across four sites! The Saint John site continues, in its proud

tradition, to offer excellent traditional core block rotations in clerkship for the other 14 clerkship positions. DMNB is now acting as a resource for LICD program expansion in Nova Scotia; Cape Breton will be hosting their first four LICD students in two sites in 2019.

As we continue to mature as a satellite program, new positions have been added incrementally to ensure that we are delivering a comparable curriculum.

Dr. Marc Nicholson is the new Director of Interprofessional Education, an area which has seen rapid growth in our undergraduate curriculum. Also, Dr. Ross Morton is our new Clinical Skills Director; I would like to thank Dr. Chris Vaillancourt, who was the inaugural Clinical Skills Director at DMNB and who certainly created a very strong foundation upon which Dr. Morton can build.

DMNB continues to offer excellent experiences for clerks during Positioning Integration, Evaluation, Research/Review session (PIERs), and our local PIER I, II, III director, Dr. Joanna Middleton, as well as our PIER IV director, Dr. Alexa Smith, are to be commended for their strong leadership and commitment.

As our undergraduate curriculum continues to evolve, we at DMNB are in an excellent position to provide our students with excellent clinical opportunities across all of our sites; the dedication of our faculty and staff in NB continue to be one of our strongest assets.

Robert Boulay MD, CCFP
Assistant Dean Clinical Education DMNB

Curriculum

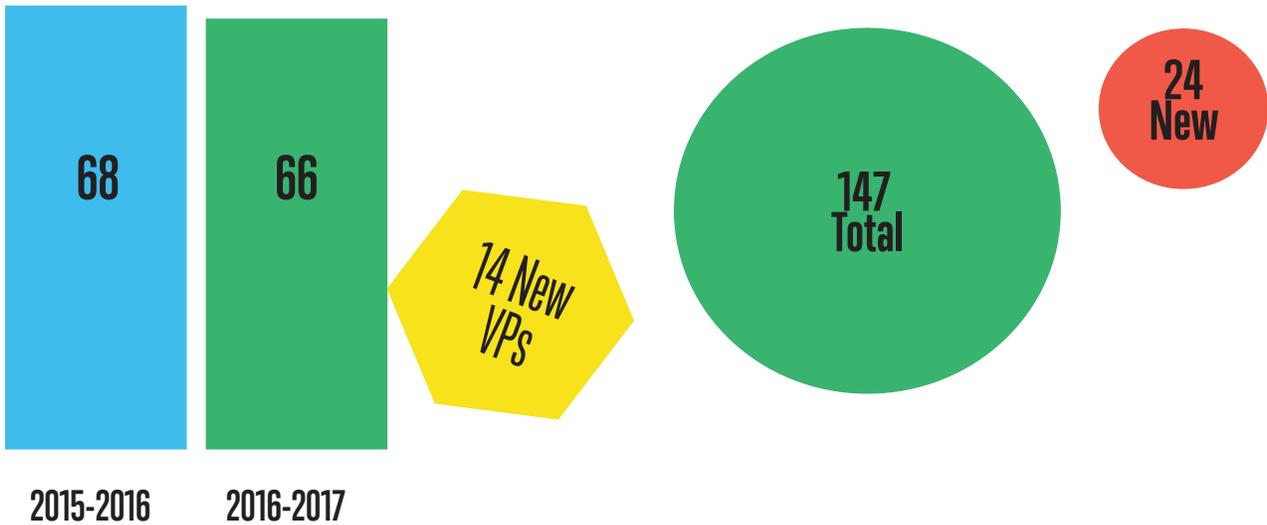
Public Engagement

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. Fourteen

of the 68 volunteers were new for the 2016-2017 academic year. Simulated patients totalled 147. Of these, 24 were new.

Volunteer Patients (VPs)

Simulated Patients



Lectures delivered

The DMNB program is aiming to have 25 per cent of all lectures for the undergraduate medical education program delivered from New Brunswick. Faculty development and engagement at the distributed sites is a major component of the numbers.

% of lectures overall delivered by NB Faculty (Med I – IV)			
Year	2015-2016	2016-2017	Trend
Med I	16/169 (9.5%)	19/163 (11.7%)	↑
Med II	12/168 (7.1%)	8/169 (4.7%)	↓
Med III	25/31 (80.6%)	25/31 (80.6%)	●
Med IV	6/53 (11.3%)	10/40 (25%)	↑

Service Learning Program

Each year students in Med II have the option of undertaking an optional course for credit which combines their medical learning with community service.

The Service Learning Program integrates community engagement concepts into classroom-based learning (Professional Competencies I) in their first year with an optional community-based project experience in their second year.

Students who opt to take part in the program do a minimum of 20 hours in order to complete the service learning experience over the academic year. They apply for the program and are matched with community-based not-for-profit organizations, or develop their own experiences based on existing partnerships they have.

The focus of the experience is working with marginalized and underserved populations. It includes preparation, critical reflection assignments and a project deliverable that is relevant and useful for the community partner and their

clients. Projects are designed in collaboration with community partners (including staff and people who use their services) and the university (students, staff and Faculty).

Currently, 16 students from DMNB are taking part in the Service Learning Program and are completing their service learning experience over the next year with six community-based organizations or programs. These include organizations who do mentorship and education with underserved youth, harm reduction with people who use drugs and also with people living with HIV and/or Hepatitis C, community programming at a health centre and healthcare advocacy.

Current projects are focused on working to reduce barriers to healthcare access for underserved and marginalized peoples, advocacy for healthcare policy changes, and knowledge exchange and mobilization events that bring together intersectoral and community-campus partnership and dialogue.

Two students hoping to impact policy to help teens

Med II students Natasha Larivee and Natalie Wallace are doing their Service Learning Project with Dr. Marianne McKenna, a pediatrician in Saint John. For their project, Natasha and Natalie are looking at the need and policy impact of having a form of birth control, known as 'The Patch' included in the Province's funding formulary for those on social assistance.

Both strong advocates of a woman's ability to choose her preferred form of birth control, they argue that access to the Patch could help reduce unwanted teen pregnancy significantly for marginalized youth who do not have a stable home life or are homeless. The Patch takes is discreet and worn for a week at a time which reduces some of the issues that are associated with oral birth control, such as storage and taking daily at a specified time. It also provides an alternative for those whom the other forms of birth control (which are covered by the plan) may not work.

Working with the Teen Pregnancy Network Natasha and Natalie are discussing the need for this change, how wide the impact could be and what steps need to be taken. The organizations they are working with are benefiting through having them take on a research and advocacy role for an issue they may not have time or funding for.

"It's a nice opportunity not only to give back to the community, but I'm passionate about working with at risk populations and learning what their needs are." - Natalie Wallace

"It's a unique experience within medical school that combines our medical knowledge and volunteerism." -Natasha Larivee



Class of 2020

In September 2016, the seventh 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 2016-2017 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 Health class representatives and explore topics and issues related to medicine that are not necessarily covered in the curriculum. For the 2016-2017 academic year the representatives were Laura Faulkner (Class 2019) and Samantha Bland (Class 2020).

One session was organized in September with Dr. Robert Stevenson speaking about *Addressing stress and its affects; Benefit of nutrition to stress related illness.*

Students - an overview			
	2016	2017	Trend
# of students off waitlist	5	6	↑
% graduate	100%	87%*	↓

*two withdrawals and two maternity leaves expected to graduate in 2018.

Community Involvement

Each year DMNB students are actively involved in their communities. This is particularly so during the first two years of study when their schedules permit greater involvement in extra-curricular activities.

During the 2016-2017 year, DMNB students advocated by:

- organizing NB's first Lobby Day for medical students
- going to the NB legislature for improved coverage and training on naloxone in NB pharmacies
- Sexual Health Outreach Program - DMNB

students go into high school classrooms and teach sexual health

They were also involved with:

- Canadian Medical School Phlebotomy Bowl (first place) in support of Canada Blood Services
- Teddy Bear Fair at the Saint John Regional Hospital
- Swimability at the Aquatic Centre
- Charity Golf Classic in support of the Saint John Regional Hospital Foundation
- Big Brothers Big Sisters

Students

Convocation

The Launch Ceremony was followed by the graduation ceremony at Dalhousie University in Halifax on May 26, where 26 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 2017.

Graduation with Distinction:

Mathew Finniss

The Albert A. Schwartz Prize in Orthopedics: *Meghan Flood*. Awarded to the graduating medical student who has demonstrated aptitude and excellence in Orthopedics.

Andrew James Cowie MD, Memorial Medal: *Emma Sumner*. Awarded to the student having the highest standing in Obstetrics in fourth year provided his/her standing in other subjects is sufficiently high to justify an award.

Dr. Lawrence Max Green Memorial Award: *Emma Sumner*. Awarded to the student, who during his/her clerkship in Obstetrics and Gynecology, has best displayed the characteristics of compassion and clinical competence.

Class of 2017



Class of 2017

The Launch Ceremony for the Class of 2017 was held on May 5, 2017 at the Imperial Theatre in Saint John. During the Launch Ceremony, several people were recognized.

Anchor Award: *R. Dasse Nadaradjan*. Awarded by the graduating class recognizing the individual who has made the most significant contribution to their experience at DMNB.

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

Director's Choice Clinical Skills Award: *Meghan McGrattan*. Awarded by the director of the Skilled Clinician Course to a graduating student who has demonstrated excellence in their clinical skills.

Humanities Award: *Alexandra Saunders*. Awarded to a member of the graduating DMNB class who has demonstrated the attributes of humanism during their training, and contributed to the concept and spirit of the Humanities in Medicine.

Dr. John M. Steeves Research in Medicine Award: *Jefferson Hayre*. Awarded to a graduating DMNB student in recognition of excellence in the completion of the four-year course in Research in Medicine.

Raju Internal Medicine Award: *Brent McCullum*. Presented to the graduating DMNB student with the highest academic standing in internal Medicine.

Resident Teaching Award: *Dr. Brandyn Chase and Dr. Charles Smith*. Awarded to a resident whom the class feels has most significantly contributed to their medical education clerkship career.

Departmental Awards

Award for Excellence in Emergency Medicine: *Jefferson Hayre and Colin Rouse*. Awarded by the SJRH Emergency Medicine Department to a graduating DMNB student who demonstrates aptitude and excellence in the field of Emergency Medicine.

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

Internal Medicine Department Award: *Brent McCullum*. Awarded by the SJRH Internal Medicine Department to a graduating DMNB student who demonstrates aptitude and excellence in the field of Internal Medicine.

Dr. Paul Handa Excellence in Nephrology Award: *Jaclyn Ferris*. 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.

Award of Excellence in Physical Medicine & Rehabilitation: *Yasmin Chisti*. Awarded by the Stan Cassidy Centre for Rehabilitation to a graduating DMNB student who demonstrates exceptional skills and enthusiasm towards the specialty of physical medicine and rehabilitation.

Stefan Mildenburger Social Pediatrics Award: *Monica Graves and Jefferson Hayre*. Awarded by the SJRH Pediatrics Department to a graduating DMNB student who has contributed to the field of Social Pediatrics.

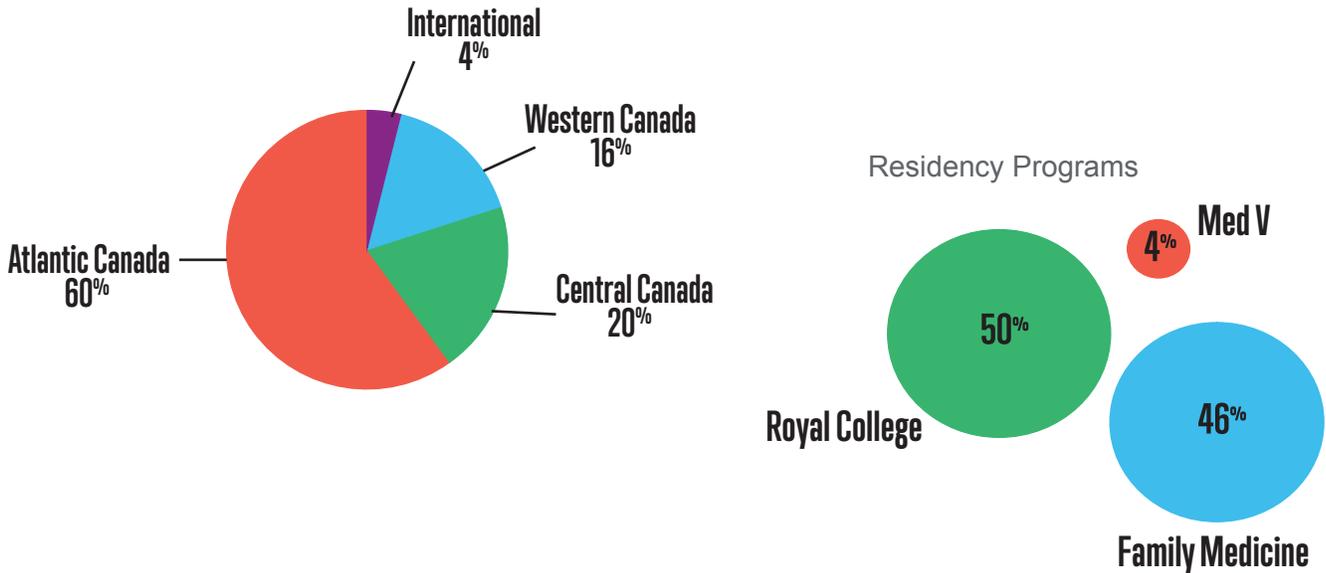
Award of Excellence in Surgery: *Emma Sumner*. Awarded by the Surgery Department at the Saint John Regional Hospital (SJRH) to a graduating DMNB student who has demonstrated excellence and aptitude surgery.

Students

CaRMS

The fourth DMNB participation in the Canadian Resident Matching Service (CaRMS) was held in March 2017. The Class of 2017 DMNB student performance was comparable to the Halifax campus with one student unmatched. The DMNB student who remained unmatched post CaRMS has been accepted to Med V program offered by Dalhousie University. One DMNB student did not participate in CaRMS and was successful in the US match system.

Where DMNB graduates go for residency

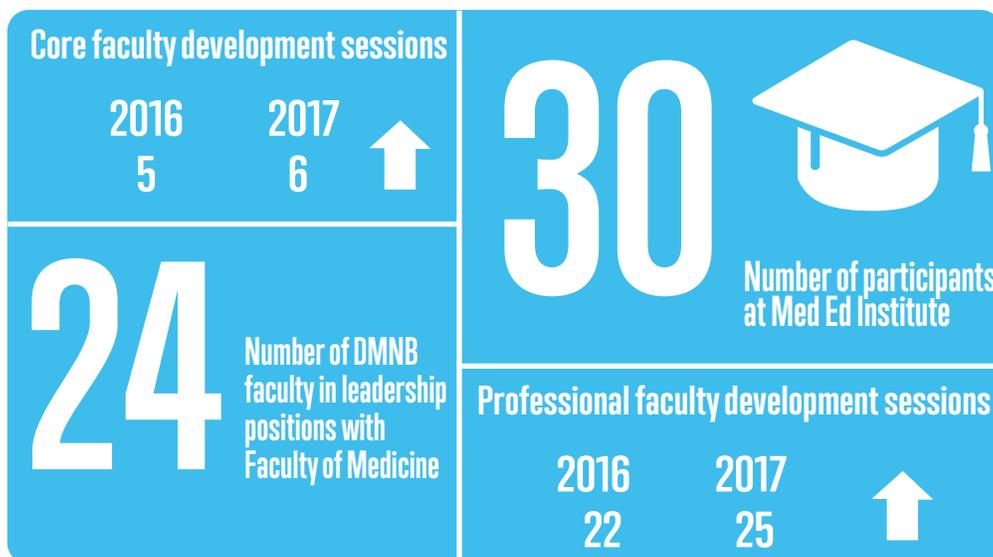


Students - an overview			
	2016	2017	Trend
Medical Council of Canada Exam Part I - % students passing	100%	96%	↓
% match in first CaRMS & US system iterations	86.7%	96.2%	↑
% match in second CaRMS & US system iterations	96.7%	96.2%	↓
% match to family medicine specialty	36.7%	46.2%	↑

Faculty Development Program Overview

In 2016 DMNB faculty development office was responsible for organizing and hosting the Faculty's Medical Education Institute. The institute was held in Charlottetown, Prince

Edward Island and had over 30 attendees from all the Maritime provinces.



Faculty Recruitment



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

Dr. Akram Jaffar has stepped down as the anatomy instructor in Saint John. The position for the anatomy instructor has been posted and the selection process started.

Dr. Ross Morton started as the Director of Clinical Skills in January 2017.

Dr. Marc Nicholson began his role as the Director of Interprofessional Education in the Fall 2016.

Staff

Staff metrics			
	2016 (June)	2017 (April)	Trend
# of employees excluding contract and faculty	32	33	↑
Staff retention rate	93.75%	99%	↑

Celebrating Staff

DMNB Life Saver Award

Each year a staff member is recognized for going above and beyond to provide outstanding assistance to others throughout the year. This year's recipient is Kelly Flowers.



5 Year Celebration

Upon completion of five years with DMNB employees are recognized for their contributions and dedication at the annual staff retreat. Erinor Jacob-Levine and Lorie deVarenes were recognized in 2017.



Spring Tune Up

In the Spring of 2017 DMNB staff participated in staff personal development program that ran from May-June. The purpose of the program was to promote overall well-being and foster support among co-workers to help each other achieve their personal goals.

Each week had a specific theme including priority management, financial success and mindfulness. Guest speakers were brought in and daily challenges were held. The final session coincided with the annual staff retreat where each member was recognized for their participation.

Research



Dr. Anthony Reiman
Assistant Dean, DMNB Research

The past academic year has been very successful for the DMNB research program. We celebrated the successful MSc thesis defenses of three of our graduate students – Ming Han (UNB), Purvi Trivedi (Dal), and Ashley Eadie (Dal).

Our researchers were successful in obtaining over \$7M in new research funding, from prestigious and highly competitive sources including CIHR, the Terry Fox Research Institute, the Heart and Stroke Foundation of Canada, and the New Brunswick Health Research Foundation.

Our research team has grown with this new funding, enabling us to do more cutting-edge work in the areas of cardiovascular disease, oncology and occupational medicine.

Dr. Keith Brunt was our first research faculty member to achieve tenure, having also been promoted to the rank of Associate Professor.

Dr. Thomas Pulinilkunnil was awarded a prestigious new investigator award and establishment grant from Diabetes Canada totaling over \$700,000.

DMNB is the lead coordinating and biobanking site for the UNB-led \$5M Terry Fox pan-Canadian Multiple Myeloma Molecular Monitoring (M4) Study. Dr. Reiman also received the \$1M CIHR SPOR - NBHRF Mentorship Chair

in Innovative Cancer Clinical Trials.

Dr. Petra Kienesberger received a \$75,000 grant to support her work in obesity and heart disease from NBHRF, the Heart and Stroke Foundation of New Brunswick and DMNB.

Dr. Anil Adishes, the J.D. Irving, Limited Chair in Occupational Medicine at DMNB, continued his leading research and educational initiatives that are well regarded internationally as evidenced by his prominent role with the World Health Organization.

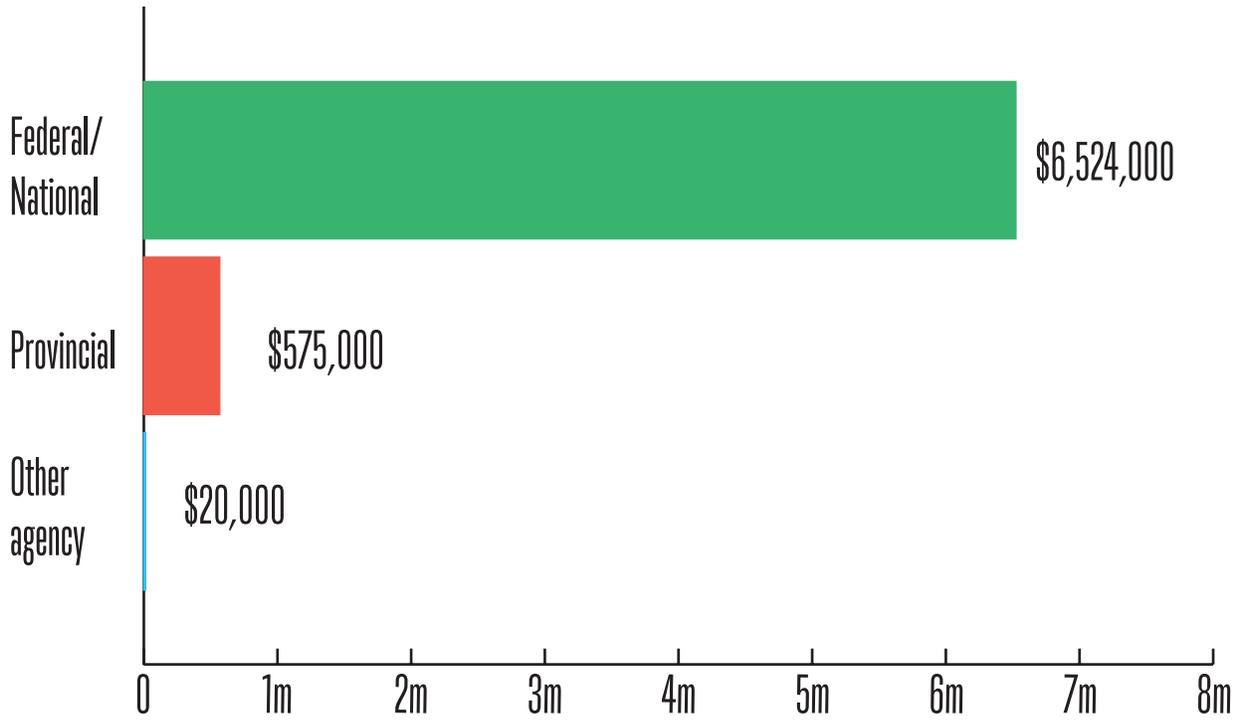
Our research team has been active in training the next generation of health researchers including Dal Med RIM students, undergraduate summer research students, MSc and PhD students and postdoctoral fellows.

We are partnering with the Province of New Brunswick, the Horizon Health Network, Dalhousie Medicine Nova Scotia, the Maritime SPOR SUPPORT Unit and the University of New Brunswick to carry out world-class health research that benefits the health of New Brunswickers and Maritimers, in keeping with the DalMedForward strategic plan for the Faculty of Medicine.

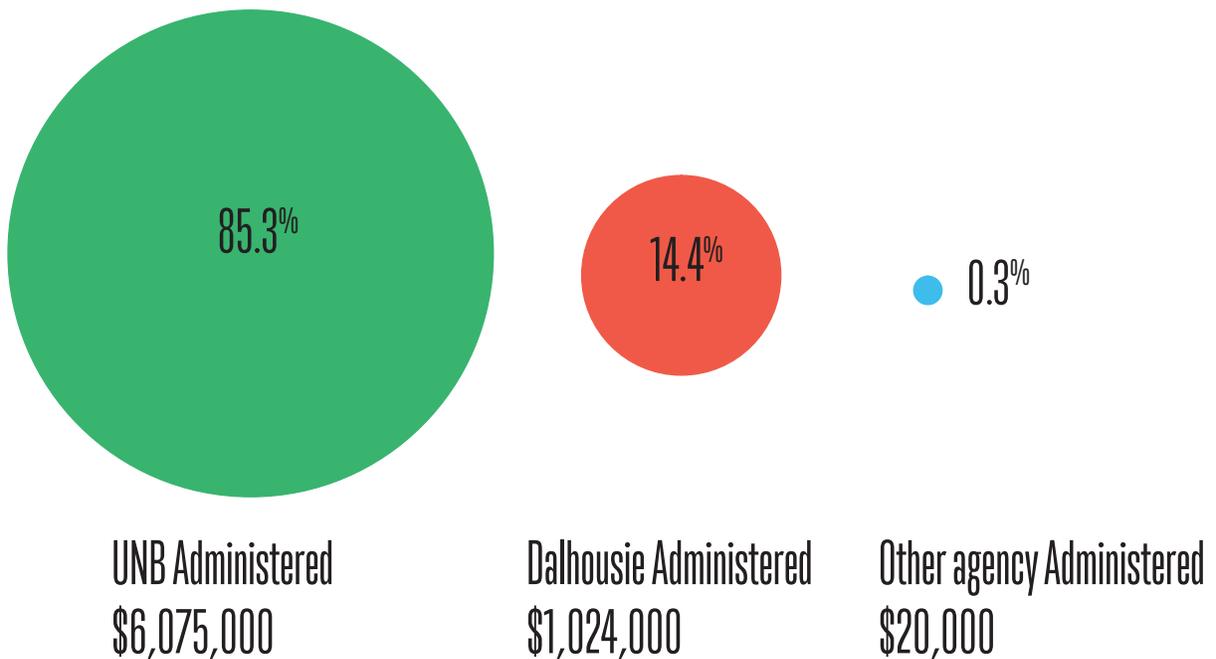
Anthony Reiman, MD, FRCPC
Assistant Dean, Research, DMNB

Research

Funding Update



Administration of funding received in fiscal year end 2017.



Research			
Metric	2015-2016	2016-2017	Trend
Research Funding Awarded (Principal Investigators only)	\$1, 022,866	\$7,119,000	↑
Publications by Principal Investigators (peer reviewed)	13	25	↑
Presentations by Principal Investigators	13	13	●

Milestone in training

In the Fall of 2016 DMNB celebrated its first two Masters of Science graduates, Ashley Eadie and Purvi Trivedi. Both Ashley and Purvi have chosen to pursue their PhD studies at DMNB.



Research

39

peer reviewed
publications
by graduate students

MSc and PhD students

	2015	2016	Trend
MSc	5	7	↑
PhD	4	6	↑

2



Masters of Science
graduates



**DALHOUSIE
UNIVERSITY**

FACULTY OF MEDICINE
Dalhousie Medicine
New Brunswick