

Dalhousie Medicine New Brunswick

Annual Report 2011-2012

Dalhousie Medicine New Brunswick



**DALHOUSIE
UNIVERSITY**

Inspiring Minds

Faculty of Medicine



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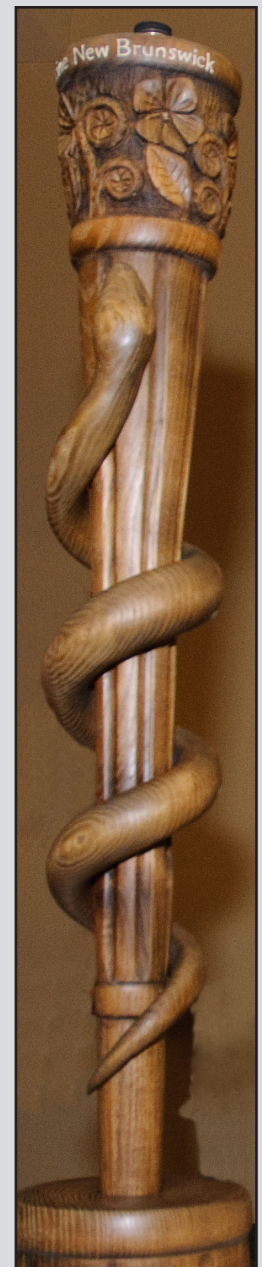
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ASKLEPIAN TORCH

Asklepios, the healing God of medicine, the great healer, was gentle, caring and giving. The serpent and torch were sacred to Asklepios. The serpents healing power was recognized by Hippocrates the Father of medicine and adopted as the physicians' symbol. The serpent symbolizes the challenges of healing decision-making, with its potential of renewal by shedding its old skin for a new healthy one but also a poisonous bite that could kill.

The serpent's power rises from the base of the torch (lower instincts) to the crown of the enlightenment (higher consciousness); reminding physicians of their higher calling to care for their patients' physical, emotional, mental and spiritual well-being. The crown of the DMNB Asklepion torch is ringed with the New Brunswick provincial flower, the violet.

The Asklepian Torch was designed for the Dalhousie Medicine New Brunswick's First Light Ceremony held each September to welcome the new students into the study of medicine in New Brunswick. The Torch is made of New Brunswick white ash hand carved by Philip Savage of Quispamsis, New Brunswick.



Message from the Dean

It's hard to believe that we are finishing year two of Dalhousie Medicine New Brunswick. A lot has been accomplished since we opened our doors to our first class of student physicians in September 2010.

The pre-clinical component of our new curriculum is working well, we're about to open new laboratories, and we've successfully recruited two new basic science faculty members to the DMNB campus. Our new chair in occupational medicine is fully funded. In addition, The University of New Brunswick announced Dr. Anthony Reiman, DMNB's Assistant Dean of Research, as a Canadian Cancer Society Research Chair.

The class of 2014 is preparing to start clerkship, and a new venture for Dalhousie Medicine, a Longitudinal Integrated Clerkship Dalhousie (LICD), will begin in Miramichi. With the LICD DMNB is leading the way with what I feel is the most effective means of addressing physician maldistribution in the Maritimes, while at the same time providing a unique learning opportunity for our third-year students.

Our big projects for this year are clerkship renewal, a component of which is a course in therapeutics, and getting a research program up and running for undergraduate medical students.

We train physicians to be professional, skilled clinicians, life-long learners, and community contributors. In short, throughout their career, they'll do their part to make our world a better place for all.

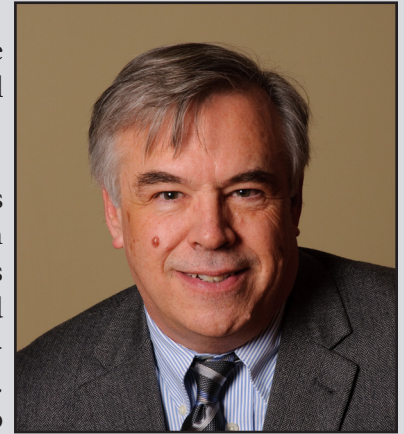
Tom Marrie
Dean



Update from the Associate Dean

With our first two exciting years behind us, we turn our sights to the challenges of the final 2 years of implementation of the 4 year curriculum and the initiation of medical Research at DMNB.

This year we welcomed our second cohort of DMNB students (31 students in the class of 2015). The charter class of 2014 progressed to become our first Med II class. With our student population doubling in size our staff and faculty almost doubled in size as well. In May 2012 we held our first staff retreat in Saint John where we heard Dr. David Snadden from the Dean of Education University of British Columbia Faculty of Medicine speak about what we may face in years 3 and 4 of our regional campus program. He provided the voice of experience from Canada's first regional campus on what to expect and how to avoid the known pitfalls.



The news of being awarded full accreditation status for the Dalhousie undergraduate medical education program was a positive sign for the start of our 2nd year. Our focus this year included not only the implementation of a new 2nd year curriculum, but the preparation of the 4 clinical sites and capacity identification for the September 2012 arrival of our first clinical Clerks. Dalhousie Medicine New Brunswick is also participating in a Dalhousie research project exploring the impact of the new curriculum and information technology on the community.

Community continues to be a key factor in our success in teaching student physicians. This year, in addition to our committed base of returning volunteers, we recruited new volunteers and simulated patients to meet the need of the 2nd year curriculum with its advanced clinical skills course. These new volunteers came with specific physical findings necessary for students to practice their clinical assessment skills. The community has also provided excellent support to our Humanities Program which continues to grow and enrich the personal and professional lives of our student physicians through art, music and literature. Students expanded initiatives in health fundraising such as "movember", "Making Waves" swim program for children with disabilities, and a blood donation group.

We are building a research program here at Dalhousie Medicine New Brunswick that will have positive effects for the city and province. Dr. Anthony Reiman, our Assistant Dean of Research and the UNB Canadian Cancer Society Research Chair has been very busy this year getting everything ready for the start of the research program.

While this past year has been busy, we expect the new academic year to be even more exciting with the addition of yet another cohort of students in the Class of 2016. We will pursue our goal to "graduate students who see themselves as having become the best they could be". As stated in our mission, we look for continued opportunities in the new academic year to "improve the health of New Brunswickers through medical education and research".

Respectfully,
Dr. John Steeves

Update from the Assistant Dean of Research

The 2011-2012 academic year has been an exciting one for the further development of the research program at Dalhousie Medicine New Brunswick. This past year, we have seen funding, lab space, and staffing for the research lab area all take significant steps forward. We are almost there!

A vital initiative in building our research capacity is our Medical Research Funding Campaign. We have a goal of \$15 million and I am pleased to say, under the leadership of our Campaign Chair, Lynn Irving, and our Executive Campaign Director, Kenn Mainville, along with their campaign cabinet, we are approaching its successful conclusion!



We now have two basic research scientists focusing on cardiovascular research (Dr Keith Brunt and Dr. Thomas Pulinilkunnil) who began in the summer of 2012. The search has started for 2 more scientists to join the DMNB research team with their focus on cardiovascular research. With the addition of funding for a PhD Educator and part-time research assistant, our future Research Chair in Occupational Medicine will be well supported. We look forward to identifying a successful candidate who will impact on the occupational health of New Brunswickers and indeed patients in all the Maritimes.

A key area of growth for our student physicians has been in the realm of research. Our first 3 student recipients of the AMGEN research awards for their summer research projects were announced in the Fall. Our new biomedical lab space is nearing completion and will be ready to open in early 2013.

We have taken significant steps this past year in laying the groundwork to increase biomedical research in New Brunswick and the Maritimes. I look forward to taking the next steps and reporting back next August!

Sincerely,
Dr. Anthony Reiman



Medical Students in the DMNB Multipurpose Labs in the Saint John Regional Hospital

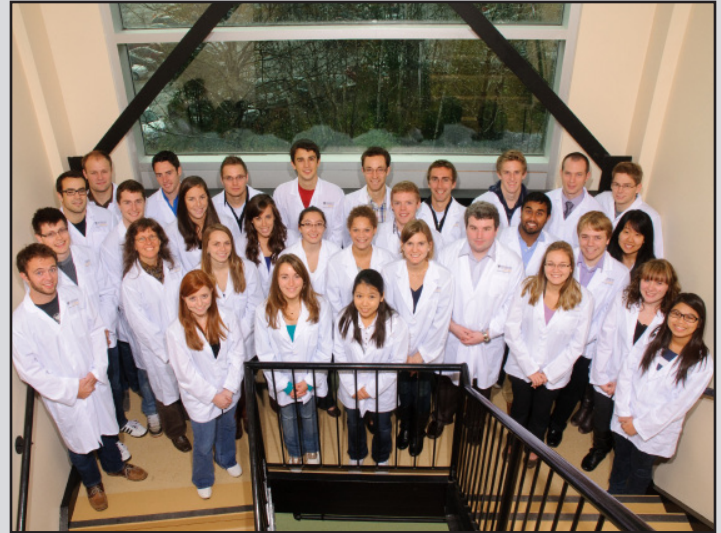
Admissions

In 2011-2012 the Dalhousie Medicine New Brunswick student population increased to 13% of the total Dalhousie Medical student body. The Class of 2015 is comprised of students from all of the health zones served by The Horizon Health Network.

A total of 96 students from the Dalhousie application pool underwent their Multiple Mini Interviews (MMIs) in Saint John in November 2011. Sixty-one of these students were New Brunswickers who met the residency requirement for the DMNB program. The purpose of the MMIs is to assess the applicant's abilities in communication, critical thinking, and problem solving. They are also used to gauge the applicant's motivation and commitment to a career in medicine.

In 2011, \$1,032,980 in scholarships and bursaries was available through the Faculty of Medicine. The total distributed to the first and second year DMNB students was \$138,650. In addition, eight Dalhousie Medicine New Brunswick students were awarded new scholarships through the New Brunswick Medical Education Trust totaling \$65,000.

For entrance in September 2012, there was a total of 61 candidates who were ranked. Of these, 30 were offered a position and 25 offered a waitlist position. In contrast to previous years, the demographics of this class show a reversal in the male/female ratio with 18 males and 12 females being admitted. Half of the students offered positions are from New Brunswick universities. To date there has been one selected candidate from the waitlist for the Class of 2016.



Dalhousie Medicine New Brunswick's Class of 2015

Presentations about the DMNB program and the admissions requirements to the Dalhousie Faculty of Medicine program were made to four NB universities: UNB Fredericton, St. Thomas, UNB Saint John and Mount Allison in March with a total of 139 students having attended. This is an increase from 93 who attended during the 2011 tours.

Interest in tours from secondary schools has increased this year. The classes are predominantly Health Sciences classes and tours have been conducted in conjunction with UNBSJ and NBCC.

Accreditation

The Liaison Committee on Medical Education (LCME) and Committee on Accreditation of Canadian Medical Schools (CACMS) follow-up visit occurred 04 & 05 June 2012. The purpose was to review areas of transition, including the implementation of the second year curriculum and evolving budgetary issues that had been identified. The Accreditation follow-up visit identified clerkship as a transitional area requiring ongoing update. The exit interview was very positive and a formal response will be received in the Fall of 2012.

The process has been initiated to ensure a continuous internal accreditation process occurs. This will create compliance with standards as part of a new initiative of the Association of Faculties of Medicine of Canada (AFMC).



Faculty development session at Lily Lake Pavilion June 2012

Curriculum

The second year of the renewed curriculum was successfully launched in September, with no significant problems identified. Some of the curriculum oversight structures that had been developed in the first year did not get carried over to the second year which had to be addressed. An integrated unit review process for resource identification and preparation for delivery of the curriculum is now in place for both years.

An additional focus of 2011-2012 was on clerkship capacity. Sufficient capacity was identified for the 2012-2013 academic year and the start of clerkship for all core rotations delivered in NB for the full class. By August 2012 the facilities, operational, and administrative faculty and supporting staff were in place at all four clinical teaching sites. The Introduction to Clerkship unit will be delivered in Saint John with human and physician resources identified.

Prior discussions with Memorial University (MUN) have resulted in an approved capacity for clerks from both schools by coordinating start and stop times of rotations. This includes coordination of housing needs. Agreement was also reached on how faculty was to recognize the different objectives of clerkship.

The first Med II student assessment, OSCE exam, was successfully completed. This exam is a clinical exam in which students receive a pass/fail grade.

Dalhousie and Memorial faculties of medicine are exploring a collaboration project initiated by MUN to track graduate practice locations correlating with their educational experiences. Called the Located Project it is expected to commence in 2012 with the hire of a contracted

position.

DMNB was a partner in a preliminary Dalhousie research project exploring the impact of the new curriculum and information technology on the community through focus group discussion and limited surveys. It is anticipated that further research will occur and this research will serve as the foundation for the larger project.

A new educational clerkship opportunity for Dalhousie, Longitudinal Integrated Clerkship Dalhousie (LICD), was initiated in the Miramichi. As part of that process an external review and internal accreditation assessment was performed in the spring of 2012. The assessment was overwhelmingly positive and provided direction for future development of LICs at Dalhousie. Consultant recommendations were all addressed prior to the arrival of the first students. The Dalhousie Clerkship Renewal Committee has recommended LICs be developed for Dalhousie in all the Maritime Provinces.

The LICD project included: literature search, interviews with Canadian leaders in LIC's, a focused workshop on the development of an LIC proposal with an external consultant, a site visit to a recently opened LIC in Portland and Norway Maine, presentation and participation at an international conference on LIC's, and presentations to four Committees reviewing the proposal for approval. The LIC will begin September 2012 with 3 DMNB students participating in Miramichi.

DMNB programs would not be possible without the engagement of the community volunteers and members of the community who enable students to develop their clinical skills. Simulated Patients increased from 31 to 47. The numbers of Volunteer Patients remained at 36 as no additional volunteers were needed. In second year the students have contact with volunteer 'real' patients in the hospital and other clinical settings. The 2011-2012 year saw the creation of a wait list of volunteer patients.



Class of 2015 First Light Ceremony on September 9, 2011 at Lily Lake Pavilion

Students

In September 2012 the student population at Dalhousie Medicine New Brunswick doubled with the arrival of the Class of 2015.

Activities

The new students joined the Class of 2014 students in their advocacy efforts early in the new year by participating in CIBC's Run for the Cure and the Making Waves Initiative. Students also participated in the Saint John Dragon Boat Festival in support of St. Joseph's Hospital Foundation. The Dal Med NB Patient Paddlers team placed first in its division!

The 2nd First Light Ceremony, which symbolizes the student physicians' introduction into the study of medicine in New Brunswick through the transfer of knowledge from their mentor to them was held on September 9, 2011 at the Lily Lake Pavilion. Representatives from the Faculty of Medicine in Halifax, the Government of New Brunswick and the University of New Brunswick were present.

With double the number of students DMNB was able to organize combined activities of students and staff like the the 1st Annual DMNB Golf Tournament which provided students and staff the opportunity to get to know one another.

The students coordinated and practiced for the Euphoria variety show fundraiser through the video-conferencing system capabilities which enabled them to minimize geographic separation with their classmates in Halifax. Their efforts were rewarded with the Med II class achieving first prize. Not far behind, the Med I class received notable recognition for their performance and vowed success next year.

The Dalhousie Medical Students Society Annual Charity Auction held in Halifax in the Spring 2011 raised \$8000 which was donated to Carrefour pour Femmes/Crossroads for Women located in Moncton. Last year's donation to the Business and Community Anti-Poverty Initiative (BCAPI), a community based organization that benefits children in the priority neighbourhoods in Saint John through partnerships with local businesses. They dedicated the funds received to the Partners Assisting Local Schools (PALS) program and titled it DalPALS. The funds will be used to purchase sports equipment for the students to use and experience different types of exercise and sports.



Students from Med I had the opportunity to meet with physicians in various disciplines during Career Evening on March 22, 2012.

Danielle Adam, Med II received the Dalhousie Gold D Award for her athletic activities which included varsity swimming for Dalhousie University. Danielle was the only recipient of the Gold D in the Faculty of Medicine. She was recognized for her innovative approach to her training by videotaping her sessions and sending them to her coach at a distance for evaluation and support.

Students established the first Hidden Realities Series on issues in Global Health. Dr. Dana Hansen, Past-President of the World Medical Association (2009-2010) was the guest speaker at the initial event in March 2012. Dr. Hansen's talk and the following discussion were on 'The Ethical Dilemmas of Global Health'. The Series was organized by Mary Halpine (Med II) and James Hudson (Med I).

Career planning for Med I students included a local initiative involving faculty presenting on career opportunities for multiple medical disciplines on March 22, 2012.

Student Performance

Dalhousie University's Faculty of Medicine program is based upon a pass/fail system. All students at Dalhousie Medicine New Brunswick progressed from year 1 to 2. One student from the class of 2014 has not advanced to year 3.

There was no discernable performance difference between the Halifax and Saint John classes in the first and second years in any of the units. Comparability of the educational experience between the two classes is continuously monitored with any issues or concerns being dealt with as soon as they are identified.

Research Initiatives

Students from both classes undertook research activities in 2011-2012. A number of students participated in peer-reviewed projects that were presented at conferences or published including:

Sarah Higgs, Jaclyn LeBlanc, and Amy Russell presented their research activities, *Clerk Idol*, at the Association of Medical Educators of Europe, the largest world gathering of medical educators with the Director of Humanities Program, Dr. Wendy Stewart.

Laura Stymiest (Class of 2015) was one of two students across Canada who was individually shortlisted for her Health Policy submission to the Health Innovation Council of Canada's 2012 Health Innovation Challenge. Her paper was titled: *People Assessing Their Health (PATH) & Community Driven Health Impact Assessment (CDHIA): an innovative public policy initiative*.

Lacey Blyth, collaborated with Dr Paul Atkinson Research Director (Saint John Regional Hospital Emergency Department); Mrs Kathleen Gadd, Librarian (UNB); and Dr Eddy Lang, Research Director to publish "Beside Focused Echocardiography as Predictor of Survival in Cardiac Arrest Patients: A Systematic Review", Academic Emergency Medicine.

Making Waves Initiative

In January 2011, two DMNB students, Lyndsay Russell and Isaac Miao initiated a program aimed at providing 1-on-1 lessons and support for mentally and physically challenged children.

The primary recruitment of children is through the doctor's offices and classes occur at the Canada Games Aquatic Centre. Making Waves runs for 6-8 weeks and students can commit to either 1 or 2 (30 min) sessions per week.

In 2011-2012 approximately 30 of their DMNB classmates helped approximately 50 children and families. They hope to expand the program to their colleagues in Tucker Park health programs.



Leading The Way and Leaving Their Mark acknowledges the class and their contribution as the Charter class of DMNB. The cement mould in front of the plaque contains the Charter Class' hand-prints. The plaque was unveiled on May 18, 2012.

Student Research Profile: Rachelle Blackman



Rachelle Blackman is a second year DMNB student from Moncton. Rachelle's interest in Internal Medicine flowed naturally from her undergraduate degree in Immunology and Microbiology from Dalhousie University. She has found an excellent opportunity and mentor by doing a research elective with Infectious Disease specialist and Microbiologist Dr. Duncan Webster.

They were concerned with the rate of hospital acquired infections potentially spread by healthcare workers. They were interested in exploring infection control behaviours. Rachelle organized and implemented a study of potential pathogens cultured from healthcare worker pagers, cell phones, stethoscopes, laboratory coats and identification cards on a medical ward in New Brunswick. They performed an analysis of a brief infection control education program in collaboration with Laboratory Medicine and Internal Medicine.

Rachelle presented the project as a poster at the Infectious Diseases Research Day in Halifax in April, and will be expanding on the project the summer of 2012.

Faculty and Staff

The Faculty of Medicine Annual Dean's Retreat was held outside of Halifax, Nova Scotia for the first time. All gathered in Moncton, NB on 29 & 30 September, 2011. The event focused on research and academic activities including the distributed governance models for academic clinical departments. There was broad participation from both New Brunswick and Halifax Campuses. Positive feedback was given with a number of collaborative initiatives identified to clarify the roles of faculty regardless of location. The Liaison Committee of the Horizon Health Network (HHN)/Dalhousie University has taken the lead in ensuring this work continues between the Dean's Retreats.

Recruitment

Over 135 faculty were recruited to meet the demands of delivering Year 1 & 2 of the curriculum. Additional faculty will be recruited as the curriculum unfolds. This is significantly higher than last year because of the increased number of faculty required to deliver Advanced Clinical Skills. An additional # faculty voluntarily provided non-funded faculty activities.

Interviews and selection of faculty clerkship directors were concluded in the sites with the following appointments:

- Dr. Stephen Marisette, DMNB Clerkship Director Fredericton Site
- Dr. Robert Boulay, DMNB Clerkship Director Miramichi Site
- Dr. Marc Blayney, DMNB Clerkship Director Moncton Site
- Saint John Clerkship Directors include:
- Dr. Donald Colford, DMNB Obstetrics/Gynecology
- Dr. Sarah Gander, DMNB Paediatrics
- Dr. Cynthia Hobbs, DMNB Care of the Elderly
- Dr. Christine Pippy, DMNB Internal Medicine
- Dr. Laurie Potter, DMNB Psychiatry
- Dr. Mike Simon, DMNB Family Medicine
- Dr. Thomas Whelan, DMNB Surgery General
- Dr. Chris Vaillancourt, DMNB Emergency

A consultant for the Care of the Elderly unit has also been hired. Five faculty have been appointed as unit head liaison to organize advanced clinical skills teaching and associated curriculum. They are:

- Dr. Ed Doherty, Ophthalmology
- Dr. Sarah Gander, Pediatrics
- Dr. Laurie Potter, Psychology
- Dr. Wendy Stewart, Neurology
- Dr. Chris Vaillancourt, Integration Unit



First Faculty of Medicine Dean's Retreat held outside Halifax in Moncton, NB in September 2011.

Dr. Frank McCarthy was appointed Assistant Professor of Anatomy and Director of Laboratory Services DMNB shifting from contract to full time faculty. Dr. McCarthy comes with over 20 years experience in treating anatomy, histology, and neuro-anatomy at McGill University. He is further developing last year's Dissection Club and the summer Prosection program.

The search processes for two basic science positions with cardiovascular focus and search for the endowed chair in occupational medicine were started. Two basic scientists, Dr. Thomas Pulinilkunnil and Dr. Keith Brunt, began their tenure track positions as Assistant Professors in Research at DMNB in the summer of 2012. They have appointments in the Departments of Biochemistry and Molecular Biology, and Pharmacology respectively. Their appointments were the result of a collaborative research committee with representation from UNB conducting a national academic search process for basic scientists with a cardiovascular focus.

The Search committee has been formed to develop the advertisement and initiate the search process for two additional basic scientists for an expected hire date in 2013.

An international search for the unique position of Research Chair in Occupational Medicine has been ongoing with a hoped for successful conclusion in the near future.

A full time central service clinical librarian, Kathleen Gadd, has been appointed by HHN based in Miramichi. Through collaborative funding she will be moving from her role at UNB to Miramichi as clinical librarian support for faculty and students among the four sites. Jackie Phinney, a New Brunswick expat, has been hired as the librarian for UNB in Saint John.

A number of Dalhousie Medicine New Brunswick's faculty travel from a distance to provide their knowledge to the student physicians. It is faculty members like Dr. Colleen O'Connell and Dr. Angela MacGibbon who frequently travel from other parts of NB to provide sessions for students that embody the Provincial scope of the DMNB program.

Faculty Development

There were 25 Faculty Development sessions were held during the year on 21 different topics. Sessions were available throughout New Brunswick and many were available simultaneously through video-conferencing. Opportunities were also identified to allow for faculty to participate Halifax Campus initiatives. Topics presented included:

- Case Based Tutor Preparation
- Teaching When No Time to Teach
- Failing to Fail
- Introduction to the Process of Conducting Research
- Accessing the curriculum online

Billing Numbers

Academic billing numbers have been approved for the Department of Medicine, Dr. Everett Chalmer's Hospital (Physiatry) and the Saint John Regional Hospital's Department of Psychiatry. One academic billing has been assigned to the Research Chair in Occupational Medicine.

As the program begins to impact on clinical teaching sites the academic billing number criteria will be modified annually to reflect the academic needs at all four clinical sites

There will also be an increase in the academic roles required for program delivery, quality improvement and faculty involvement in student assessment initiatives like the OSCE and MMIs as Dalhousie strives to accomplish its long term goal of becoming the best undergraduate medical education program in Canada.

Publications

Nadaradjan, Rattina Dasse - "Possible modulation of glycosylated protein levels in prehypertension by lipid peroxides", *The Clinical and Experimental Hypertension Journal*

Miss Lacey Blyth, Medical Student(1); Dr Paul Atkinson MB BCh BAO, BSc(Hons), MA(Cantab) MRCP, FCEM, Research Director(1,2); Mrs Kathleen Gadd MLIS, Librarian(1); Dr Eddy Lang MD CCFP(EM), Research Director(3) - "Beside Focused Echocardiography as Predictor of Survival in Cardiac Arrest Patients: A Systematic Review", *Academic Emergency Medicine*.

Doucet, S., Buchanan, J., & Cole, T. (2012). "Code blue challenge: Let the extracurricular interprofessional games begin", *Journal of Interprofessional Care*.

Staff Profile: Jackie Phinney Information Services Librarian



As the new Information Services Librarian at the Hans W Klohn Commons at UNBSJ, Jackie Phinney is thrilled to be a member of the DMNB team.

Originally from Saint John, Jackie graduated from Saint John High School and went on to do a degree in music (vocal performance) at Mount Allison University. Having an interest in libraries, she then decided to pursue a Master of Library and Information Studies degree at Dalhousie University. While there she also completed an internship at the W.K. Kellogg Health Sciences Library. Jackie has also worked within the Dalhousie Faculty of Medicine as a research technician, and is excited to be bringing her experience and enthusiasm for information back to her hometown.

Faculty & Staff Awards/Recognition

Dr. Paul Atkinson - had been identified by the students for the 2012 “Best in Class” Award in recognizing his generous commitment of time, expertise, and leadership in the education and training of student physicians.

Pamela Bourque - Dalhousie Professional and Managerial Group’s Outstanding Achievement Award for exemplary contributions to the University.

Dr. John Steeves - Saint John Medical Society’s, R.T. Craig Leadership Award for exemplary leadership in the Saint John medical community.

Dr. Wendy Stewart - Archibald Gold Headed Cane Award. Physicians are nominated for their notable combination of scholarly attainments, humanism, professionalism, and service as an effective role model for others in the medical humanities. She is the first Dalhousie faculty member outside of Nova Scotia to receive this award.



Photos from left to right:

Dr. John Steeves presents Dr. Paul Atkinson with the 2012 Best in Class Award; Pamela Bourque was presented with the DPMG Outstanding Achievement Award by Christina MacNeil; Dr. Wendy Stewart (centre) holding her Gold Headed Cane Award with students Lyndsay Russell, Catherine Holland, Jaclyn LeBlanc, Sarah Higgs and Will Stymiest.

Humanities

The 2011-2012 year saw further development of the Humanities Program in the areas of Music, Literature, Visual Arts and Spirituality. Dr. Wendy Stewart, Director of the Humanities Program at Dalhousie Medicine New Brunswick received the prestigious Archibald Gold Headed Cane Award in Humanities for her work with the Humanities Program at DMNB. In January 2012 Dr. Stewart organized the Annual Robbie Burns Fundraising Dinner. It is intended this will be the primary annual fundraising event for the program.

Music

Ludmilla Knezkova-Hussey, an internationally known pianist and a faculty member at UNBSJ, composed a piece called The Hippocratic Suite. The world premiere of part of this Suite took place at Hazen Hall on May 6th, 2012. She also played some other pieces and combined the music with the medical histories and experiences of the composers using a power-point show.

The choir has tentatively been named "Sounds of THE C" – THE stands for "Together in Health Education" to capture the inter-professional nature of the choir. The choir participated in a total of 5 performances. The DMNB Ceilidh band, currently known as "THE C Band" participated in 3 concerts with the choir and also played at Snows Nursing home during the year.

The last concert of the academic year for the band and choir was recorded. This CD will be available for sale in 2012 and is intended to be a small fundraiser for the program.

Book Club

Lacey Blyth (Med II) took the lead on the book club and the monthly meetings continued throughout the year with an interesting mix of books. The goal is to get more faculty involved on a regular basis for the 2012-2013 year.

Visual Arts

- A student initiative started by Iris Kim, Med 1, involved students sharing time together painting.
- The Patient Experience in Altered States of Consciousness is a collaborative project with artist Amber Young is almost complete. Required research ethics approval was

granted by Horizon Health Network (HHN). A focus group has been interviewed to provide narrative experiences on dreams. The art pieces together with a summary of the narratives and the literature will be displayed in late 2012.

- An animated video entitled Dr H.O. Monculus was produced by Dr Wendy Stewart and graphic artist Doug Belding. It was displayed as part of the Brain Show at the Art Gallery of NS. It is an animated video to teach children and adults about the anatomy of the brain and what the homonculus represents. The show continued until the end of January 2012.
- Neurology as an Artform is the creation of animations to assist students in their understanding of neuro-anatomy and integrating with clinical skills. These animations are being used to create some online resources and will also be part of an elective offered for students during their neuroscience unit.

The DMNB Humanities Program is designed to promote the integration of the humanities into the core undergraduate healthcare curricula to produce well-rounded, healthy and whole health-care professionals who embrace interprofessional collaboration and provide holistic, high quality patient care.

Spirituality & Wellbeing

Informal meetings with faculty from different faith backgrounds continued this year. Rose Savidge, Med II, was the lead on this project. Faculty shared their experiences with their faith in practice and engaged in discussion at a well attended workshop with students.

A research project examining Spirituality and Wellbeing is in process. This is being conducted as a collaborative project with Catherine Jee (Med 2), Enrico DiTommaso, a psychologists at UNBSJ and Pam Driedger, Spiritual Care Director at the Saint John Regional Hospital.



Research

Dr. Anthony Reiman

Associate Professor in the Department of Medicine and the Assistant Dean, Research at Dalhousie Medicine New Brunswick

Dr. Reiman is part of a DMNB team that is building a medical research program on the campus. He is collaborating with colleagues at Dalhousie, the University of New Brunswick, the New Brunswick government and the community. The initial components of the program include:

- A 6000 square foot biomedical research laboratory that will house four new Dalhousie faculty members, focused on cardiovascular research, of whom two are now in place and two are being actively recruited;
- An endowed chair in occupational medicine;
- Support for student research and projects conducted by DMNB faculty that involve students. This program is supported primarily by a Dalhousie University capital campaign for medical research at DMNB.

Dr. Reiman is a practicing medical oncologist at the Saint John Regional Hospital (SJRH), providing diagnosis, systemic therapy, outpatient and inpatient care to patients with cancer. The Department of Oncology at the SJRH is an active teaching unit with med I-II students, clinical clerks, and residents from a variety of Dalhousie and other training programs rotating through the cancer centre. The cancer centre also houses a radiation therapist training program in conjunction with UNB. The department has an active clinical trials unit, taking part in industry-sponsored and cooperative group studies.

Dr. Reiman is the Canadian Cancer Society Research Chair at UNB, where he holds a cross appointment as Visiting Research Professor. This chair program is a good example of inter-institutional collaboration in which DMNB plays a key role. The Chair has been formed by a partnership amongst the Atlantic Cancer Research Institute, UNB and the Canadian Cancer Society New Brunswick. Dr. Reiman's research program revolves around patient-oriented cancer research, including pre-clinical and clinical trials

of novel therapeutics, cancer biomarker studies, and multi-disciplinary studies of supportive care interventions for cancer patients. He is particularly interested in multiple myeloma, lymphoma and lung cancer. The laboratory component of Dr. Reiman's research program is housed in the new DMNB space, on the UNB Saint John campus. Dr. Reiman has attracted over \$1 million in research funding and has been a co-author on 44 manuscripts during his four years in Saint John.

Dr. Reiman is on the Board of Directors of the New Brunswick Health Research Foundation and during his time in Saint John he has served on committees and panels for the Horizon Health Network, the Beatrice Hunter Cancer Research Institute, the NCIC Clinical Trials Group, Myeloma Canada, the pan-Canadian Oncology Drug Review, the Canadian Cancer Society Research Institute and the Canadian Institutes of Health Research. He has reviewed grants and manuscripts for several national and international panels and journals and has served on several graduate student supervisory and examining committees at UNB.

Dr. Reiman was raised in Saint John and is a graduate of the University of New Brunswick, the University of Toronto and the Harvard School of Public Health. His post-graduate residency training and research fellowship were conducted at Dalhousie University and the University of Alberta. Prior to returning to Saint John Dr. Reiman was a medical oncologist, Assistant Professor and AHFMR Clinical Investigator at the Cross Cancer Institute and the University of Alberta.



Dr. Duncan Webster MA, MD, FRCPC

Dr. Webster graduated from Saint John High School in 1988 and attended Mount Allison, graduating in 1993 with a B.Sc. in chemistry, biology & physics as well as a B.A. (honours) in philosophy and religion. He completed his Masters degree in philosophy at UNB in 1998 and graduated from Dalhousie Medical School in 2001. He did his Internal Medicine residency training and Infectious Diseases fellowship at the University of Alberta before returning to Dalhousie for Medical Microbiology fellowship training which he completed in 2007. He subsequently returned to his home in Saint John, New Brunswick where he continues to work as an infectious diseases consultant at the Saint John Regional Hospital through the Department of Medicine with a cross-appointment in the Department of Laboratory Medicine.

Dr. Webster is an active teacher with the Dalhousie Medical School providing introductory microbiology lectures. He also assists with clinical skills teaching at DMNB and has served as a preceptor for numerous medical students, clinical clerks and residents in the clinical setting as well as in research activities. Along with Dr. Ratina Dasse Nadaradjan, he established a microbiology teaching lab in the DMNB multipurpose labs for the benefit of students and residents.

Dr. Webster has numerous research interests and peer-reviewed publications and received the AMMI Canada Dr Juan A. Embil Award for Excellence in Infectious Diseases Research in 2006. With an interest in community-acquired pneumonia he is currently a site-investigator for a national surveillance network focusing pneumococcal

disease and influenza. He is the Medical Director for the level 3 laboratory at the Saint John Regional Hospital and is active in research relating to tuberculosis and novel anti-TB drug development. This work involves collaboration with researchers at the University of New Brunswick and Dr. Webster has been named an honorary research associate with UNB.

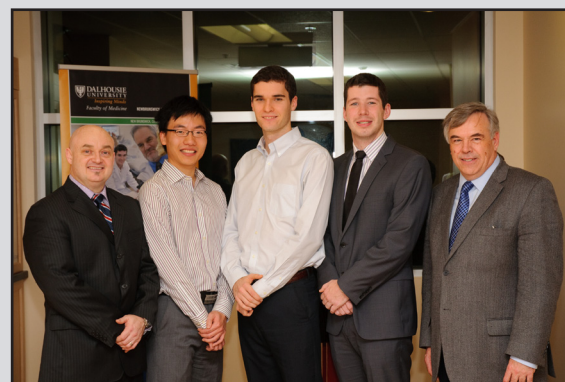
Dr. Webster has also been involved in research pertaining to MRSA in both the laboratory and the clinical setting and is the medical director of one of the country's only dedicated ambulatory MRSA clinics which received a Leading Practice Award through Accreditation Canada in 2010. As an infectious diseases physician he has clinical and research interests in harm reduction and is the medical director of Saint John's Uptown Clinic serving a marginalized population with addiction-related medical illness. This clinic was honoured with the Catholic Health Association of New Brunswick Performance Citation Award in 2010.

In 2011, Dr. Webster and his family established Foundation Glycosylation (the FoG) through the Saint John Regional Hospital Foundation. The FoG was established in order to support research for the development of therapies targeting congenital disorders of glycosylation, to help raise awareness of the disorder and to advocate for individuals living with this enzyme deficiency.



AMGEN Scholarships 2011

In 2010 AMGEN Canada, a biotechnology firm, established a fund to support research and scholarly activity by Dalhousie Medicine New Brunswick students in the first 2 years of their program. Three scholarships totalling \$5,000 annually are awarded each year and are selected on the basis of the research. Scholarly work eligible includes work done in the context of an elective or summer research. September 2011 the first DMNB students to receive awards from AMGEN for their research were Isaac Miao, Phillippe Tremblay and James Milne. They are pictured on the right with John Brenton, Corporate Affairs Senior Manager, Atlantic Canada, AMGEN and Dr. John Steeves, Associate Dean of DMNB.



Research

Research Lab Space

Construction on the research lab space in Saint John has been continuous through the 2011-2012 year. At the end of July 2012 the major construction is complete and the process of commissioning underway. It is anticipated the lab space will be available for occupancy in January 2013.

Dr. Keith Brunt and Dr. Thomas Pulinilkunnil, two newly hired Basic Research Scientists in the area of Cardiovascular disease, have been hired and started in July 2012. The academic search process for 2 more Basic Research Scientists has begun with the researchers expected on site start date in 2013.



Dr. Keith Brunt, PhD

Assistant Professor, Faculty of Medicine, Department of Pharmacology

Dr. Brunt received his Honours Bachelor of Science degree in Physiology from the University of Saskatchewan and his Doctorate in Experimental Medicine from Queen's University. His doctoral thesis evaluated mechanisms for stem cell and gene therapy for cardiovascular disease. Dr. Brunt was the recipient of a Heart and Stroke Foundation of Canada Research Fellowship for the study of age dependent stem cell dysfunction in cardiac patients. His research was conducted in the Division of Cardiovascular Surgery at the Toronto General Hospital & the McEwen Centre for Regenerative Medicine at the Toronto General Research Institute. His scientific mentor was one of the founders of cardiac cell therapy, Dr. Ren-Ke Li, MD, PhD and his primary clinical collaborators were Dr. Richard D. Weisel, MD and Dr. Terrance M. Yau, MD at the Peter Munk Cardiac Center in Toronto.

His most recent research findings have so far been accepted for publication in several high-impact, international journals: *Blood*, *The European Heart Journal*, and *Cell Transplantation*. Dr. Brunt was a recipient of a Young Investigators Award for his work with genetically enhanced stem cell therapy for recovery after myocardial infarction, by the American College of Cardiology in 2011. He is also the youngest member to serve on the editorial board for the *Journal of Molecular and Cellular Cardiology*, the pri-

mary journal of the International Society of Heart Research.

Dr. Brunt sees the research potential at DMNB as a unique opportunity to intensely focus on translational research, and hopes to leverage his experience in gene therapy and regenerative medicine, with the clinical expertise at the New Brunswick Heart Centre. The basic science core emerging at DMNB will be focused on cardiovascular research, yet it is the opportunity to integrate scientific objectives with the clinical goals of the Heart Centre that can establish Saint John as the leading strategic site for cardiovascular care in the Atlantic provinces.

Dr. Brunt hopes to collaborate on phase-I/II clinical trials using novel strategies that incorporate nanomedicine and regenerative medicine with the Heart Centre. He believes the emerging team will allow the Heart Centre to perform New Brunswick's first stem cell treatments for cardiac repair in patients within a few years. He sees the possibility for this emerging team of basic and clinical experts to make Saint John a national center of excellence, capable of delivering the most advanced, newest methods of treatment to benefit Maritime patients and expand the knowledge based economy in New Brunswick.



Dr. Thomas Pulinilkunnil, PhD

Assistant Professor, Faculty of Medicine, Dept. of Biochemistry and Molecular Biology

Dr. Pulinilkunnil obtained his Bachelors in Pharmaceutical Sciences (1998) and his Masters in Pharmacology (2000) from India. Upon graduation, he joined the pharmaceutical firm, Quest Institute of Life sciences, of Nicholas Piramal India Limited (Formerly of, Hoeschst Marrion Roussel) as a Junior Research Scientist for two years where he was primarily involved in the screening of cardioprotective agents. Dr. Pulinilkunnil attended the University of British Columbia to commence his Ph.D. training in the laboratory of Dr. Brian Rodrigues, a well-established cardiovascular researcher. At UBC, Dr. Pulinilkunnil's research focus was on diabetic heart disease with specific emphasis on studying mechanisms of fat delivery to the diabetic heart.

Upon completing his PhD in 2005, Dr. Pulinilkunnil ventured for his postdoctoral training to Harvard Medical School in Boston, MA. He spent three years working with Dr. Barbara Kahn, a world leader in the area of metabolic complications associated with obesity and diabetes. In 2008 Dr. Pulinilkunnil resumed cardiac research by joining the laboratory of Dr. Jason Dyck, a stellar Canadian cardiovascular researcher at The University of Alberta, Edmonton, as part of his second postdoctoral fellowship. For the next three years, he examined molecular mecha-

nisms regulating cardiac energy metabolism.

Dr. Pulinilkunnil has been continuously funded for the last 12 years and is an accomplished and experienced junior faculty. He has already published 29 peer-reviewed publications in high impact journals, 24 abstracts and 3 book chapters. In addition to research, Dr. Pulinilkunnil is a gifted teacher and has taught quite a few undergraduate and graduate lectures in his training years.

Dr. Pulinilkunnil brings with him an extensive background in biomedical research, including biochemistry, cell biology, pharmacology and physiology, as well as cardiovascular disease phenotyping in animal models. His research career mission is to advance the scientific knowledge of how the triad of diet, genetics and exercise unite to alter myocardial metabolism and energetics thus influencing cardiovascular complications, the major reason for mortality in our aging Canadian patient population. His future goal for DMNB program is to establish the cardiovascular research program, identify, design and implement translational research strategies to better the cardiac health of New Brunswickers and Canadians at large.



Medical Research Campaign

The \$15 million Medical Research Campaign for Dalhousie Medicine New Brunswick moved closer to its goal in the past year.

Lynn Irving, Campaign Chair, and Kenn Mainville, Executive Campaign Director worked with dedicated volunteers to obtain funding to further medical research in New Brunswick and establish a medical research program at Dalhousie Medicine New Brunswick. Funding has been allocated for research lab space (due to open in Fall 2012), a Research Chair in Occupational Medicine, and the medical research fund. Funding has also been dedicated to a Research Assistant and an Education Specialist in Occupational Medicine.



Strategic Plan

The first DMNB faculty and staff retreat was held May 30, 2012 in Saint John with participants from both campuses and UNB. Halifax staff joined their counterparts to help formulate the plan to guide the development of DMNB over the next 2 years.

Dr. David Snadden, the founding Dean of one of Canada's first regional medical campuses at UBC participated via video conference. Dr. Snadden provided useful information based on his experience and his recent publication on establishing regional medical campuses. The information he provided included what to expect and how to avoid some of the pitfalls of the next two years of the program.



FACULTY OF MEDICINE STRATEGIC PLAN – “THE WAY FORWARD” EDUCATION & RESEARCH EXCELLENCE, ORGANIZATIONAL & FISCAL RENEWAL

Updated: May 2012

MISSION: Improve health of New Brunswickers' through medical education and health research.

VISION: Provide an innovative but comparable education experience across the continuum of medical education which meets or exceeds accreditation standards and is socially accountable while being fully integrated into NB communities. The academic program will be supported by collaborative biomedical, clinical and educational research activities.

VALUES: Integrity, accountability, social responsibility, evidence-based practices, collegiality, ethics, professionalism

DMNB, FACULTY OF MEDICINE – 2012/13 PRIORITIES

Educating Doctors and Researchers of the Future

- Ensure 100% of tutors have received feedback on the units they have taught through Offices of DMNB, linked to availability of student assessment report
- Explore a student elective opportunity in leadership and health advocacy with mentoring
- Initiate a collaborative student and/or staff event with the centre de formation medical de Nouveau Brunswick (CFMNB)
- Identify clerkship capacity growth year 3 and year 4.
- Review what interprofessional competencies can be met through the health mentors program in Saint John
- Student community appreciation event

Enhancing Patient Care and Population Health

- Finalize plans to offer the U of T Epic course in Saint John for a course offering in the next 24 months.
- To enhance clinical research elective capacity supported by the academic billing number

Community Engagement:

- Initiate discussions with aboriginal leadership in Miramichi including focussed student recruitment initiatives.
- Initiate health care advocacy forum in collaboration with community groups 2012/2013
- Explore collaboration with Saint John North End Community Clinic for interprofessional educational experiences
- Identify community experiences both social and educational in every clinical site in New Brunswick.
- Enhance diversity and breadth of volunteer patient
- Explore long term engagement with NBMS around student/patient wellness and professional leadership skills development

Advancing an Innovative Research Agenda

- Establish a research integrated plan of LIC program assessment by June 2013
- Develop a structure for effective communication with students regarding student research opportunities in New Brunswick
- Fully equip and operationalize the biomedical and animal research facility
- Recruit two biomedical researchers with cardiovascular focus.
- Recruit a PhD Educator/Researcher to support chair in occupational medicine. Implement the LOCATED project
- Select first recipients of Chesley Research Award(s)

Organizational, Operational & Fiscal Renewal

- Initiate opportunity for high school career advocacy in medicine during rural week.
- Integrated plan for career and medical school recruitment initiatives at New Brunswick universities.
- Establish regular meetings between DMNB Student Affairs and DMNB leadership
- Develop an internal communication strategy connecting with all clinical sites
- Identify capacity for longitudinal integrated clerkship in NB

LONG TERM VISION STATEMENTS

Graduating DMNB students see themselves as having become the best they could be - Be seen as the medical education destination of choice for New Brunswickers - Be fully integrated with the Maritimes' medical school while maintaining a unique identity and community relationship that is responsive to NB health needs - Double biomedical research activity in New Brunswick - Be recognized in the Faculty of Medicine for providing leadership in lifelong learning and workplace experience.

Tucker Park Collaborative

The Tucker Park Collaborative, comprises of the four educational institutions at the Tucker Park site in Saint John. New Brunswick Community College's Allied Health Education Centre, the University of New Brunswick Saint John, Horizon Health Network and Dalhousie Medicine New Brunswick are working together to facilitate communication between the partners to maximize resources and develop a vibrant health research agenda for New Brunswick.

The Simulation Lab in the NBCC Allied Health building is an example of the cooperation at Tucker Park. The lab is equipped with a Simulation Man, a Sim torso for ultrasounds (both owned by the Emergency Department of the Saint John Regional Hospital), and a Simulation Baby (owned by NBCC). The simulation 'patients' enable students, doctors and faculty to practice 'real' scenarios on the simulated equipment.

Scenarios are programed into the computer and students can practice while a faculty member watches. The faculty member can then provide feedback once the scenario has been completed. This enables students to practice techniques and procedures and develop their skills prior to dealing with actual patients.



Sim Baby in the Simulation lab at NBCC Allied Health.

Over the 2011-2012 year a number of initiatives have occurred that exemplify the spirit of the Tucker Park Collaborative including:

- Code Blue Challenge
- Inter-professional Health Research Day
- Organizing Tours of each facility for partners
- Invitations to various announcements
- Meetings between counterparts at each institution
- Collaboration on a submission for the City of Saint John to be a Top 10 Intelligent Community
- Working Together in Health Care: Interprofessional Teamwork in Patient-Centred Care Workshop

Dr. Shelley Doucet

Adjunct Professor with Dalhousie Division Medical Education

Dr. Shelley Doucet is an Assistant Professor in the Department of Nursing & Health Sciences at UNB in Saint John. Dr. Doucet is also an Adjunct Professor with DME and currently holds a term position of Research Associate to conduct research evaluating the Health Mentors Program, which is an interprofessional education initiative that involves the participation of health professional programs from all four Tucker Park Collaborative (TPC) sites. Dr. Doucet's experiences in teaching interprofessional student teams in classroom and clinical settings, as well as her ongoing clinical experiences in mental health nursing, have led her to establish interprofessional health education initiatives and to explore their outcomes.

Dr. Doucet is rapidly expanding her research program and has established three major interdisciplinary and inter-institutional projects with UNBSJ, DMNB, NBCC, and Horizon Health Network, which have positioned

her as a key player in the growth of the TPC health research cluster. She also participates as a member of the TPC research committee. Dr. Doucet is an active participant in recurring TPC projects, including the pre-licensure Code Blue interprofessional team competition, the Interprofessional Health Research Day (iHR Day), and the Health Educators' Learning Partnership (HELP) Group. As a member of the HELP group, she is involved in planning a workshop to strengthen the skills of health professionals in their ability to offer interprofessional supervision to students in CHCs, with representation from the TPC sites and the new CHC in Saint John. In her role as an educator, she co-teaches an interprofessional communication course with nursing and health sciences students in collaboration with colleagues from DMNB and NBCC.



Appendix

List of Acronyms

AFMC - Association of Faculties of Medicine of Canada

BCAPI - Business Community Anti-Poverty Initiative

CACMS - Committee on Accreditation of Canadian Medical Schools

CHC - Community Health Centres

DMNB - Dalhousie Medicine New Brunswick

HELP - Health Educator's Learning Partnership

HHN - Horizon Health Network

LCME - Liaison Committee on Medical Education

LICD - Longitudinal Integrated Clerkship Dalhousie

MMIs - Multiple Mini Interviews

MRSA - Methicillin-Resistant Staphylococcus Aureus

MUN - Memorial University

OSCE - Objective Structured Clinical Examination

PALS - Partners Assisting Local Schools

TPC - Tucker Park Collaborative

UNB - University of New Brunswick



DALHOUSIE MEDICINE NEW BRUNSWICK

100 Tucker Park Road
P.O. Box 5050
Saint John, NB
E2L 4L5
www.newbrunswick.medicine.dal.ca
Phone: 506.636.6000
Fax: 506.636.6001

*In collaboration with the Government of New Brunswick, the
University of New Brunswick and Horizon Health Network*