Introduction:

Infectious diseases remain a major cause of mortality and morbidity worldwide. While often preventable and treatable diseases, we have witnessed the emergence of new infections, such as SARS in 2003 and now MERS Cov, and Ebola, the reemergence of old foes such as measles, and the return of more virulent and resistant forms of known pathogens, such as the superbugs MRSA, Clostridium difficile (C. difficile) and carbapenemase resistant organisms (CRO). The emergence and reemergence of these pathogens has been greatly facilitated by increasing population migration, global conflicts, rapid air travel and poverty especially in the developing world. These factors have contributed to the increasing burden of HIV, TB, malaria, dengue, chronic hepatitis, multidrug resistant organisms and other infections found in the diverse population served by the JGH.

The JGH Infectious Diseases and Microbiology unit has been very successful in 2013 and 2014 in obtaining peer reviewed research funding. The areas of primary research interests: 1. Emerging infections and multidrug resistant bacteria or “super-bugs” (e.g. MRSA, CRO), and especially C. difficile infection, 2. Infection prevention and control of hospital acquired infections, 3. HIV immune responses and vaccinology, 4. Refugee and immigrant health, 5. Vaccine-preventable diseases and new vaccines (e.g. hepatitis B virus, varicella-zoster virus, C. difficile and others), 6. Management and prevention of tuberculosis and 7. Evaluation of novel antibiotics and immune system modifiers for the treatment of infectious diseases.

1. Research, Publications and Presentations:

Members of the division continue to perform leading edge research in their fields chosen fields. Dr. Greenaway continues her high profile research activities on health issues of migrants as well as in vaccinology. She obtained two grants from CIHR in 2013: One as PI of a study entitled “The Childhood Varicella Vaccination Program: Will it Protect or Harm the Immigrant Population?”, the other as Co-PI with Dr. Rick Glazier, Cecile Rousseau and Anneke Rouemens for a project to measure the health outcomes resulting from the cuts to this the refugee health (IFH) program “Accessibility and costs of healthcare for refugee claimants following changes to the Interim Federal Health Program”. She was also awarded a JGH Department of Medicine GFT-H Clinical Research Award (2014-2016) to study “The Burden of Viral Hepatitis in Immigrants”. Dr. Greenaway published 6 manuscripts in peer-reviewed journals on the spectrum of health issues in migrants, the burden of varicella and tuberculosis in immigrants and language barriers in migrants accessing health care. She led the Committee to Advise on Tropical and Travel Medicine (CATMAT) guideline on Typhoid vaccine in Travelers and participated in Guidelines on VFR Travelers and Travelers’ Diarrhea.” She presented an”Update on the TB
Standards 7th Edition” and “Screening Immigrants for Latent Tuberculosis” at the Winnipeg TB Forum, Winnipeg Regional Health Authority in Winnipeg, Manitoba.

Dr. Zaharatos continues as a member of the Botswana Canada AIDS Vaccine Discovery Partnership (BCAVDP), led by Dr. Mark Wainberg of the McGill AIDS Centre and Lady Davis Institute (LDI) and Dr. Rosemary Musonda of the Botswana Harvard Partnership. His participation was key to the BCAVDP receiving a 2.47 million dollar team grant in HIV/AIDS Vaccine Discovery and Social Research, awarded in December of 2011 by the Canadian Institutes of Health Research and the Canadian HIV Vaccine Initiative. The research project brings together investigators from Canada, Botswana, the Netherlands and the United States. Dr. Zaharatos is a BCAVDP co-investigator working on HIV-1 envelope immunogenicity and vaccine design. Dr. Zaharatos’ laboratory’s research interests include HIV immunity and vaccinology, with a particular focus on the development of gene-based vaccines and adjuvants. The project will continue through March 2016. Dr. Zaharatos described the team’s efforts during two invited presentation: i) The Botswana Canada AIDS Vaccine Discovery Partnership: Progress & Challenges (CHVI Large Team Grants: Accomplishments and Next Steps). Canadian HIV Vaccine Initiative & Alliance Coordinating Office Virtual Mini Symposium, Canada, October 2, 2014 and ii) The Botswana Canada AIDS Vaccine Discovery Partnership. Epidemiology Seminar, Centre for Clinical Epidemiology, Jewish General Hospital, Montreal, Canada. November 11, 2014. Dr. Zaharatos also continues to be a co-investigator in other clinical studies conducted at the JGH by our division.

Dr. Longtin received an FRSQ Chercheur-Boursier Junior 1 salary award as well as an operating grant from the FRSQ «Les infections nosocomiales: Une approche globale et intégrative pour mieux comprendre et prévenir la diarrhée associée au C. difficile et améliorer l’hygiène des mains». Dr. Longtin also continued as the sole Infectious Diseases physician in the Pan Canadian CIHR funded “Prevention of Arrhythmia Device Infection Trial (PADIT)” Since his arrival he has initiated a number of projects in Infection Prevention and Control. He published 4 manuscripts in highly respected journals. One of his publications on stethoscope contamination was widely covered in more than 100 media outlets including highly respected media such as The New York Times, Time magazine, The Figaro and BBC News. Dr. Longtin consolidated his integration into the infectious diseases service and the infection prevention unit of the JGH. He also became a member of the JGH Research Ethics committee, an Associate Editor for BMC Infectious Diseases Journal - Section on healthcare-associated infections and infection control, and became a member of the Clostridium difficile infection Working group Canadian Nosocomial Infection Surveillance Program (CNISP)

High profile research in the field of C. difficile infections continued. The C. difficile genomics research by Drs. Oughton and Dascal, in collaboration with and funded by the Institut national de santé publique du Quebec, (INSPQ) may lead to a better understanding of the epidemiology of Quebec C. difficile strains. This is an extension of their previous work that led to two New England Journal of Medicine articles in 2005 and 2011. With the arrival of Dr. Longtin in the spring of 2013 a number of research projects related to C. difficile and its control in hospital are being initiated. In addition the division has ongoing and upcoming trials on C. difficile vaccine, immunotherapies, and drug therapy.
The division has maintained an extremely active and high profile clinical research and development of rapid molecular assays for a number of multidrug resistant organisms most noteworthy are *C. difficile*, MRSA and carbapenemase resistant organisms (CRO). An improved assay for MRSA detection has also been developed and an evaluation of its performance was published in 2013. The assay was introduced into routine clinical practice in 2014, thus generating significant material savings for the Department. Drs. Oughton, Brukner, Longtin, and Dascal have developed a novel assay for *C. difficile* that may also assist in differentiating asymptomatic carriers from those ill from the bacteria. In late 2014, Drs. Brukner, Oughton and Dascal generated industrial interest for molecular diagnostic methods they are developing, related to amplification of nucleic acid material from clinical samples. Our Molecular Microbiology team continues to work towards cheaper and improved assays.

In 2012 Dr. Mark Miller transitioned to become the Chief Medical Officer at bioMérieux, based in France. He has retained the position of Adjunct Professor of Medicine at McGill University and continues focused research at the JGH on healthcare-associated infections, such drug-resistant bacterial infections and *C. difficile* disease. He continued, during 2013, to be the JGH principal site investigator for 2 clinical pharmaceutical studies in 2013: 1) the use of monoclonal anti-toxin antibodies to combat recurrent *C. difficile* and 2) the effectiveness of an inactivated varicella (“chicken pox”) vaccine in immunocompromised patients who have undergone stem-cell transplantation. He also conducted his own study on the usefulness of serum procalcitonin and fecal calprotectin for assessing the severity of *C. difficile* infection in hospitalized patients.

2. **Teaching and learning (undergraduate and graduate):**

Our Infection Prevention and Control team hosted its first visiting international postdoctoral scientist. Supported by the Azrieli-Israel Fellowship, Dr. Deborah Ben David spent a year with us supervised by Dr. Longtin (primary supervisor) and Dr. Dascal (co-supervisor). Dr. Ben David is an experienced Infectious Diseases and Infection Control physician form Sheba Hospital Medical Center at Tel Hashomer (Israel) affiliated with Sackler School of Medicine at Tel Aviv University.

Dr. Greenaway was involved in several aspects of teaching for undergraduate McGill medical students. She was involved in the curriculum development for the new Public Health Course implemented in the 2013 academic year and is axis head for Immigrant and Refugee Health and gives several lectures to the students. In 2014 she co-taught the ICM B course for five second year medical students (24 hours of clinical teaching). She also serves as an Osler fellow (2011-2015) for the McGill Physicianship Course for a group of student in the class of 2015, which includes 6-8 3-hour sessions per year. She is also involved in teaching in the Department of Epidemiology and Biostatistics at McGill in which she gives several guest lectures per year in the Clinical Epidemiology, Infectious Disease Epidemiology and Global Health courses. She is presently supervising 3 Masters students in the Epidemiology and Biostatistics Department. Alain Ngoma and Rhiannon Kamstra are students in the MSc program and Chelsea Caya is a student in the MPH program. They are all working on projects describing the burden of viral hepatitis in the immigrant population. Since 2013 she is the Internal Medicine Resident Scholarly Activity Director for the JGH site. Her responsibilities include encouraging and facilitating
residents to find an appropriate supervisor and complete a compulsory scholarly activity during their 3 years of residency which can include any of the following: (i) a clinical vignette / case presentation / case report, (ii) a quality assurance / quality improvement (QA/QI) project, (iii) a medical education project, or (iv) a research project.

Dr. Zaharatos is a member of the McGill University Infectious Diseases/Medical Microbiology Resident Research Committee. He is a research scientist at the Lady Davis Institute where he supervises a Postdoctoral Fellow (Dr. Lara Ajamian) and a Graduate Student (Luca Melnychuk) in the Division of Experimental Medicine. He also serves as a thesis committee member of two PhD candidates in the Division of Experimental Medicine (Victor Kraemer and Said Hassounah) and was a lecturer for the course “Recent Advances in Virology and Antiviral Therapies” (EXMD632). Under Dr. Zaharatos’ mentorship and supervision, MSc candidate Luca Melnychuk presented an abstract entitled “HIV-1 consensus clade C gp41 ectodomain optimized for secretion and preserved binding by MPER-specific broadly neutralizing antibodies” at the 2014 Keystone Symposia Conference –“HIV Vaccines: Adaptive Immunity and Beyond”. Postdoctoral Fellow Dr. Lara Ajamian presented an abstract entitled “Harnessing the Bacterial Armamentarium to Develop an HIV-1 Vaccine Adjuvant” at the 2014 First Annual McGill University Postdoctoral Research Day. Her abstract entitled “Development of flagellin as a gene-based vaccine adjuvant for HIV-1 gp41 MPER” was accepted for the 2015 Keystone Symposia Conference on HIV Vaccines.

Dr. Miller has supervised Dr. Kristin Popiel (McGill Infectious Diseases and Microbiology Fellow) in a large 13-year evaluation of VRE control at the JGH, which has been accepted for publication in early 2014. He continues to supervise Dr. Jesse Schwartz (McGill Internal Medicine Resident) in a project on “flesh eating disease” (Group A streptococcal necrotizing fasciitis and myositis). He maintains his teaching role by conducting small-group teaching of specialty fellows in Infectious Diseases and Clinical Microbiology in the McGill program’s Inter-hospital Infectious Disease (IHID) rounds.

Dr. Dascal who already was on the Editorial Board of the journal Diagnostic Microbiology and Infectious Disease was invited to join the Editorial Board of the prestigious Journal of Clinical Microbiology.

All Division members serve as teachers and examiners for medical students, and also serve on various Hospital committees. Residents and fellows are supervised all year round on the ID consultation service and in the ID outpatient clinic. Division members also continued their teaching in Unit 7 (Infectious Diseases) of the Faculty of Medicine. Dr. Oughton continued lecturing in MMIM 465.

3. Involvement in the community:

Under the leadership of Dr. Greenaway and in collaboration with Dr. Malus (Family Medicine) plans for a Multicultural center have been drawn up. The next phase of its inception is to garner the required funds to assure its initial operation for the first 2 years.
4. Partnerships:

Dr. Greenaway is a member of the Committee to Advise on Tropical Medicine and Travel (CATMAT) an advisory committee to the Public Health Agency of Canada (PHAC) that provides advice on Tropical and Travel Medicine related subjects through producing evidenced based statements on these topics. She has also been involved in many different aspects of the activities of the International Society of Travel Medicine (ISTM) a global organization committed to the promotion of healthy and safe travel with over 3000 members in 80 countries. She was the co-chair of the Scientific program Committee for the ISTM biannual meeting in Maastricht, Netherlands 2013. She is the co-chair of the Scientific program Committee for the upcoming ISTM biannual meeting in Quebec City, 2015. Dr. Greenaway has research collaborations with colleagues at the McGill, Montreal Chest Hospital, at Laval University and the University of Toronto.

Dr. Longtin is the sole Infectious Diseases physician member of “Prevention of Arrhythmia Device Infection Trial (PADIT)”. The trial investigates the optimal management of and prevention of device implanted to control heart rhythm (e pacemakers and implantable cardioverters / defibrillators). This study funded by CIHR is a pan Canadian endeavor.

Dr. Zaharatos with the BCAVDP award established partnerships with Botswana, the Netherlands and other investigators in Canada.

Drs. Brukner, Oughton, and Dascal have developed a number of industrial partners in their Molecular Diagnostics work.

5. Milestones:

Recruitment of Drs Longtin and Teltscher in 2013 added new breadth and depth to our unit’s infection control and antibiotic stewardship activities.

The planning for the construction of the new JGH Microbiology Laboratories has been initiated with the expectation that the project be completed by late 2014 early 2015. This project is possible through the generous donation of Mr. Allan Rossy and his family.

Drs. Greenaway and Longtin have been very successful in obtaining research funding from CIHR.
Dr. Longtin obtained an FRSQ Chercheur-Boursier Junior 1.

Our Infection Prevention and Control team hosted its first visiting international postdoctoral scientist. Supported by the Azrieli-Israel Fellowship - Dr. Deborah Ben David

Dr. Matthew Oughton, Ivan Brukner and Andre Dascal, evaluated and introduced into routine clinical diagnostic a new assay for MRSA that significantly improves upon existing approved commercial assay. A novel assay for relative normalization of bacterial load was developed, with particular application towards improving C. difficile diagnostics.
6. New hires, promotions, and retirements

Dr. Yves Longtin has joined the Divisions of Infectious Diseases and Diagnostic Microbiology in spring 2013. Dr. Yves Longtin obtained his MD from Sherbrooke University and completed his training in Infectious Diseases and Microbiology at Laval University in 2005. Thereafter Dr. Longtin pursued a fellowship in Infection Control at the Geneva University Hospitals (HUG), Switzerland, from 2006 to 2009. Dr. Longtin practiced Infectious Diseases / Microbiology with a special interest in Infection Control at Centre Hospitalier Universitaire de Québec (CHUL) and the Institut Universitaire de Cardiologie et de Pneumologie de Québec (IUCPQ) from 2009 to 2013. He is a highly respected and acknowledged expert in Infection Control. He is a consultant to the World Health Organization for the Saves Lives: Clean Your Hands Global Initiative, consultant to a National Patient Safety Agency (U.K.), as well as a member of the Comité des Infections Nosocomiales du Québec (CINQ). Dr. Longtin’s research interests include hand hygiene, contamination of the hospital environment, and C. difficile infections. He has been very productive academically with 17 peer reviewed publications, 1 book chapter and 15 abstracts. Upon arrival Dr. Longtin learned that he was the recipient of the FRSQ Chercheur Boursier Junior 1 award.

We are proud that he has joined our institution and look forward to long and productive career at the Jewish General Hospital and McGill University.

Dr. Marty Teltscher has been an associate member of our unit since 2012 offering clinical services in the outpatient ID clinic and inpatient consultation service. As of January 2014 he will become a full time member at the JGH. Over the past three years Dr. Teltscher has undertaken intense clinical work. He has been instrumental in instituting Infectious Diseases clinical services and microbiology laboratory services at the MUHC Lachine Hospital and has been an Infectious Diseases consultant and internal medicine ward supervisor at the Montreal General Hospital. He remains associated with the MUHC J.D. MacLean Centre for Tropical Diseases and has been a member of the MUHC Chronic Viral Illness Service. Due to his dedication to undergraduate and postgraduate medical education Dr. Teltscher was recently appointed as the McGill Infectious Diseases and Microbiology Residency program director. In addition to clinical and teaching responsibilities he will work with physician and pharmacist colleagues to develop the burgeoning antibiotic stewardship program at the JGH.

Dr. Mark Miller was promoted to Full Professor at McGill University in 2012. Dr. Miller transitioned in 2013 to become the Chief Medical Officer and head of the Biomarkers Unit at BioMérieux in Lyons France. He will continue as Associate member with research and teaching activities in our unit.

Dr. Andre Dascal was appointed Chief Infectious Diseases and Microbiology in March 2013. Dr. Portnoy continues to serve the Hospital in the capacity of Director of Professional Services and all have recognized his dedication. Dr. Zaharatos took on additional administrative responsibilities and was appointed Associate Chief of Infectious Diseases and Microbiology in 2014.

7. Honours, awards, and prizes: None to report in 2014
8. **Fundraising:** None new to report in 2014

**SECTION I - DIVISION STATUS UPDATE**

1. **Mission and objectives of the Division**

   The objectives of the Division of Infectious Diseases and Microbiology remain:
   
   - High-quality service to the outpatients and inpatients of the Hospital,
   - High-quality cost effective performance in diagnostic microbiology services,
   - Continued research in the fields of new anti-infectives, novel vaccines, and cutting-edge diagnostic techniques,
   - Ongoing education in the vast field of Infectious Diseases for students, residents, fellows, nurses, other healthcare personnel, and affiliated fields,
   - Develop strategies for improving the health of migrant and refugee populations by optimizing preventive and improved communication strategies

2. **The research priorities of the division are:**

   - Emerging infections and “super-bugs” (e.g. MRSA, VRE, CRO), especially *C. difficile* infection
   - Novel approaches for infection prevention and control in hospitals
   - Development of novel molecular diagnostic assays
   - HIV immune response and vaccinology
   - Refugee and immigrant health
   - Vaccine-preventable diseases and new vaccines (e.g. *C. difficile*)
   - Management and prevention of Tuberculosis
   - Novel antibiotics and immune system modifiers for the treatment of infectious diseases.

3. **List of academic staff, their academic rank**

   **Full-time (GFT) members:**
   
   Dr. Andre Dascal, Associate Professor, Active (Chief)
   Dr. Christina Greenaway, Associate Professor, Active
   Dr. Yves Longtin, Associate Professor, Active
   Dr. Matthew Oughton, Assistant Professor, Active
   Dr. Joseph Portnoy, Associate Professor, Active
   Dr. Marty Teltscher, Assistant Professor, Active (as of January 1, 2014)
   Dr. G. Zaharatos, Assistant Professor Active (Associate Chief)

   **Associate Member and Medical Director bioMerieux**
   Dr. Mark Miller, Adjunct Professor, McGill University

   **Part-time (associate) members:** are busy as full-time clinicians at other Montreal hospitals,
contribute their time and expertise to the JGH for the high-quality clinical care which we give to our patients:

Dr. David Portnoy
Dr. Karl Weiss
Dr. Maria Arrietta
Dr. Donald Vinh

Diagnostic Molecular Laboratory:
Ivan Brukner PhD – Assistant Professor

Clinical Research Nurse Coordinator of ID Research Unit (IDRU):
Jennifer Eastmond, inf/N., BSc.N.

SECTION II - GRANTS, PUBLICATIONS, AND SERVICE OUTSIDE OF McGill

1. Grants and Awards

a. Grants – Salary Awards


JGH Department of Medicine GFT-H Clinical Research Awards - Detection and control of C. difficile. Dascal A $12,000, 2012-13-14

b. Grants – Peer Reviewed Operating

Fonds de Recherches en Santé duQuébec (FRSQ); Establishment of Young Researcher – Junior 1, PI: Longtin Y. 30 000$, 2013-2016


Canadian Institutes of Health Research (CIHR) - Interim Federal Health Program (IFH)
“Accessibility and costs of healthcare for refugee claimants following changes to the Interim Federal Health Program” Co-PIs: **Greenaway C**, Glazier R, Rousseau C, Rummens A


LDI Clinical Research Pilot Project (CiPP) grant (awarded June 2013)-Telomere Length Analysis of HIV Antigen-Specific Memory B-cells. PI: **Gerasimos J. Zaharatos** Co-Investigator: Chantal Autexier. $25,000 CAD over 2013-4

c. Grants – Industry


JGH Local PI: **Miller M, Oughton M**, Local Co-investigators: **Greenaway C, Zaharatos GJ**. A Phase 111, Randomized, Double-Blind, Placebo-Controlled, Adaptive Design Study of the Efficacy, Safety and Tolerability of a Single Infusion of MK-3415 (Human Monoclonal Antibody to *Clostridium difficile* Toxin A), MK-6072 (Human Monoclonal Antibody to *Clostridium difficile* Toxin B) and MK-3415 (Human Monoclonal Antibody to *Clostridium difficile* Toxin A and B) in Patients Receiving Antibiotic Therapy for Clostridium difficile Infections (Modify 1) –(Merck). March 2012- present.(Protocol # MP- CSSSTR11-017)

d. Grants Funded by JGH, MUHC and Division


2. Scholarly works published in the 2011 to 2014:

**Publications 2014**


Chong PM, Lynch T, McCorrister S, Kibsey P, **Miller M**, Gravel D, Westmacott GR, Mulvey MR, and the Canadian Nosocomial Infection Surveillance Program (CNISP). Proteomic analysis
of a NAP1 *Clostridium difficile* clinical isolate resistant to metronidazole. PLOS ONE 2014; 9:e82622

Popiel K, **Miller MA.** Evaluation of vancomycin-resistant enterococcal (VRE)-associated morbidity following relaxation of VRE screening and isolation precautions in a tertiary-care hospital. Infect Control Hosp Epidemiol 2014; 35:818-825

3. **Academic and community engagement service outside of McGill**

Dr. Greenaway was an invited lecturer at the IUATLD, ICAAC and at Université Laval. She also served as Associate Chair of the Scientific Committee for the 13th Annual Conference of the International Society of Travel Medicine CISTM-13 to be held in Maastricht, Netherlands, May 2013, as well as Chair of the Migrant Interest group for the International Society of Travel Medicine (ISTM). She is a member of the Committee to Advise on Tropical Medicine and Travel (CATMAT) an advisory committee to the Public Health Agency of Canada (PHAC) that provides advice on Tropical and Travel Medicine related subjects through producing evidenced based statements on these topics (since 2002).

Dr. Zaharatos served as an examiner and member of the examination committee for the Royal College of Physicians in Medical Microbiology. In addition he sits on the Provincial HIV Diagnostics Committee (Comité du programme provincial de diagnostic de laboratoire de l’infection à VIH).

Dr. Longtin has numerous activities outside McGill: Institut National de Santé Publique du Québec (INSPQ) 2009- Present. President of the provincial surveillance committee on *Clostridium difficile*-associated diarrhea, Institut National de Santé Publique du Québec (INSPQ) 2009- Present. Member of the Provincial Infection Control Committee [Comité des Infections Nosocomiales du Québec (CINQ)], University of Geneva Hospitals 2009-Present. Consultant for a cluster randomized trial on patient participation to improve hand hygiene compliance. (Sponsor: Swiss National Fund ), World Health Organization 2006-Present, Member of the Core Group on Hand Hygiene f) World Health Organization 2006-Present. Consultant for the First Global Safety Challenge g) National Patient Safety Agency (U.K.) 2007-Present. Consultant for implementation of patient empowerment program to increase hand hygiene.

Dr. Dascal was the Infectious Disease / Microbiologist consultant to the Montreal Department of Public Health.

Dr. Oughton is a voting member on the Royal College of Physicians subcommittee on Infectious Diseases, and is a member of the scientific planning committee for the annual AMMI Canada-CACMID conference.

**SECTION III. - CLINICAL ACTIVITIES**

a. Clinical Infectious Diseases

The division is responsible for a large number of inpatient consultations at the JGH and
supervises the Diagnostic Microbiology laboratories. Resident and subspecialty fellow teaching are valued aspects of these services.

The walk-in outpatient Infectious Diseases Clinic operates on a daily basis (Monday to Friday) in the mornings (registration 07:30-10:30 and sees 25-40 patients per day). The clinic is staffed on rotation by Infectious Diseases specialists (i.e. Drs. David Portnoy, Dascal, Weiss, M Teltscher, M. Oughton and C. Greenaway). The clinic also provides teaching to residents who request this clinic as an elective.

Drs. Joseph Portnoy, Dascal, Oughton, Longtin, Greenaway, Zaharatos also are responsible for close to 500 patients receiving home IV antibiotic (OPAT program) after being discharged from the JGH.

The Division also has a weekly Tuberculosis (TB) Clinic (Thursday afternoons) which handles patients with active tuberculosis as well as a screening for potential TB. The clinic is involved with the Public Health Department for TB contact-tracing in the Montreal area. This clinic is staffed by Drs. Greenaway, Palayew, Weiss, Oughton.

In addition to his HIV vaccine related research, Dr. Zaharatos has maintained an active and growing HIV clinical practice. He also continues to be a co-investigator in clinical studies conducted at the JGH by our division.

There were more than 19,000 patient visits in Infectious Diseases Clinic, Tuberculosis and the GFT offices during the past year. Drs. Portnoy, Dascal, Zaharatos, Oughton, Miller, and Greenaway, see patients in their clinical offices. There were over 6,100 in-patient consultations requested during the year.

Dr. Miller also continues to perform fecal microbiome transplants (FMT) for the treatment of multiply-recurring *C. difficile* infection (CDI), as part of a microbiome research collaboration. Dr. Teltscher took over this activity in 2014.

b. Clinical Microbiology

OptiLab a ministry driven project that is rationalizing and consolidating clinical laboratories in the province, has chosen our JGH lab to become a “laboratoire serveur”. The program of OptiLab will reduce the number of laboratories from about 20 on the island of Montreal to 5 such “Pods” each with a central “laboratoire serveur”. Our JGH laboratory will become the “laboratoire serveur” that will incorporate and service St Mary’s Hospital and the Lakeshore hospital as well as a number of CSSSS. This program is evolving at a rapid pace and Dr. Dascal has been and continues to be involved in numerous planning and implementation activities with the Agence. Clearly the importance, size and complexity of the JGH microbiology laboratory is and will evolve at a rapid pace in the next 5 years.

This new and increasing responsibilities for a greater Montreal population coincides with the renovation and upgrading of our JGH lab thanks to a generous donation of Rossy family. The plans have been drawn up and the contractor has been chosen. Construction is expected to start
in the first half of 2014.

In order to offer a better service to our clientele the serology section of Microbiology has been merged into the Core Laboratory of the JGH. This merger spearheaded by Dr. Zaharatos will permit 7/24 (around the clock 7 days a week) capacity for performing most common serologic test which previously could be run only 5 days a week from 08:00-16:00.

A number of assays (eg malaria, multidrug resistant organisms) have been optimized and implemented.

c. Infection Prevention and Control

Dr. Yves Longtin has taken over the leadership of the Infection Prevention and Control service of the hospital. He brings to it many years of experience in Infection Control and is in the process of renewing this service in collaboration with the Department of Nursing and the IPAC practitioners. Since his arrival the JGH C. difficile rates have been lowered dramatically and have remained low for several months. He also managed, amongst others, multidrug resistant organism outbreaks and TB exposure events successfully.

CONFIDENTIAL INFORMATION

1. Consulting activities:

Dr. Mark Miller has transitioned to become the Chief Medical Officer at bioMérieux, based in France. He has retained the position of Adjunct Professor of Medicine at McGill University and continues focused research at the JGH on healthcare-associated infections, such drug-resistant bacterial infections and Clostridium difficile disease.

Respectfully submitted

Andre Dascal, MD, FRCPC, FIDSA
Chief, Division of Infectious Diseases and Diagnostic Microbiology
and
Gerasimos J. Zaharatos, MD, FRCP(C)
Associate Chief of Infectious Diseases & Medical Microbiology