Despite the challenge posed by the global coronavirus pandemic, I am gratified to say that the core work of WCM-Q carried on almost without pause. That we were able to do this was thanks to the immense resolve, community spirit and adaptability shown by faculty, staff and students, who quickly established new working and studying protocols that allowed WCM-Q to continue to fulfil its principal objectives of providing excellence in medical education, patient care and research. The speed with which this happened was truly impressive, with online classes up and running the very next day following the suspension of in-class instruction. It is a testament to the professionalism, technical ability and hard work of all involved that this was possible.

In a similar show of adaptability, colleagues quickly moved to tailor their activities to help healthcare professionals and the wider community meet the challenges posed by the coronavirus outbreak. Our researchers worked closely with the Ministry of Public Health to provide valuable scientific advice, and a new series of webinars was launched, bringing the most up-to-date COVID-19 advice from leading experts at elite medical institutions all over the world to the healthcare community in Qatar. Public information campaigns were quickly mobilized to help the community in Qatar understand the nature of the coronavirus and what steps could be taken to limit its spread. Meanwhile, we looked on with great pride as news came to us from hospitals across the globe of WCM-Q alumni working on the front line, using the skills and knowledge gained at our institution to help people affected by COVID-19 and other diseases throughout the pandemic. It was a great privilege and honor for all of us at WCM-Q that our institution was able to contribute to this most important work.

There were also many reasons to feel proud in the months before the pandemic reached our shores, with members of the WCM-Q community doing incredible work in a wide variety of fields.

In research, our scientists demonstrated how lifestyle interventions can reverse type-2 diabetes, teamed up with a US pharmaceutical company to begin developing a new cholesterol drug, and reprogrammed bacteria to synthesize and deliver an anti-cancer drug, among many other exciting and ground-breaking projects. Furthermore, our student researchers won first place in the highly competitive annual Undergraduate Research Experience Program (UREP) contest with a project focused on the role of the gut microbiome in human health, while WCM-Q was named the Best Research Office for 2019 at the 11th Annual Forum of Qatar National Research Fund (QNRF). We are thankful for the extraordinarily generous and steadfast support we receive from Qatar Foundation and the leadership of the State of Qatar that make achievements such as these possible.

Even with these wonderful successes, the highlight of the year was - as ever - our graduation ceremony, held fully online for the first time in our history. It was remarkable to see people logging in from locations all over the world to witness our talented graduates receiving their hard-earned MD degrees. I have no doubt that their skills, knowledge and commitment to patient care will be of great value to the community in the years to come.

I hope you will find great satisfaction reading about their successes and many others in our Annual Report 2020.
WCM-Q Joint Advisory Board Members

The Joint Advisory Board provides advice and assistance to the dean and the governing parties of WCM-Q.

Qatar Foundation Representatives

• HE Dr. Hanan Mohammed Al Kuwari
  Co-Chair, WCM-Q Joint Advisory Board
  Minister of Public Health, Ministry of Public Health (MoPH)
  Managing Director, Hamad Medical Corporation

• Ziyad Hijazi, M.D., MPH, MSCAI, FACC
  Acting Chief Medical Officer and Executive Chair of Pediatric Medicine, Sidra Medicine

  Vice-President for Research, Development and Innovation, Qatar Foundation
  Vice-President for Research, Hamad bin Khalifa University

Ex-Officio Members

• Machaille Hassan Al Naimi
  President of Community Development, Qatar Foundation

• Jessica Bibliowicz
  Chairman of the Board of Overseers, Weill Cornell Medicine

• Ahmad M. Hasnah, Ph.D.
  President, Hamad Bin Khalifa University

• Javaid I. Sheikh, M.D., M.B.A
  Dean, Weill Cornell Medicine–Qatar

Cornell University Representatives

• Augustine M.K. Choi, M.D.
  Co-Chair, WCM-Q Joint Advisory Board
  Stephen and Suzanne Weiss Dean, Weill Cornell Medicine
  Provost for Medical Affairs, Cornell University

• Ira Drukier, Ph.D.
  Member of the Board of Overseers, Weill Cornell Medical College

• Michael Stewart, M.D., MPH
  Senior Associate Dean for International Affairs and Affiliations, Weill Cornell Medical College

Independent Representatives

• Sir Graeme Catto, M.D. (Hons)
  Founder Member, Qatar Council for Healthcare Practitioners
  Emeritus Professor of Medicine, Universities of Aberdeen and London

• Victor J. Dzau, M.D.
  President, US National Academy of Medicine

• Charles Prober, M.D.
  Founding Executive Director, Stanford Center for Health Education
  Senior Associate Vice Provost for Health Education, Stanford University
Foundation and Pre-Medical Education
The Foundation Program

The foundation program at WCM-Q fosters the knowledge and skills of academically talented Qatari students and builds a strong basis for success in the six-year medical program. By attending to individual needs, the foundation program enables students to reach their full potential as independent lifelong learners. Foundation students earn college credit through courses in science and English, and also attend pre-medical courses like the global health and disease seminar and special studies in biology. Students who successfully complete their courses earn a Certificate of Completion and, upon meeting the necessary criteria, promotion to WCM-Q’s six-year medical program.

This year, a number of students were honored for their outstanding academic achievement. In March 2020, Haya Ali Al-Kuwari, Amal Abdulla AlNaemi, and Noor Faisal Al-Sayegh were awarded the Education Excellence Award at the 13th Qatar Education Excellence Awards, sponsored by His Highness the Emir Sheikh Tamim Bin Hamad Al-Thani. This honor recognized their outstanding accomplishments in secondary school, which places them among the best students in Qatar. Students also commemorated the achievements of great scientists from the past. On November 13, they celebrated the 2019 International Year of the Periodic Table of Chemical Elements, part of a global initiative launched by the International Union of Pure and Applied Chemistry and UNESCO. This celebration marked the 150th anniversary since Dmitri Mendeleev discovered the periodic system. Many WCM-Q students and faculty attended the event and a raffle was held.

Beyond the classroom, students participate in diverse programs and initiatives aimed at bringing medical careers to life. As in past years, they attended the Medical Career Seminar Series, which hosts distinguished speakers from the local healthcare community. These seminars introduce students to WCM-Q alumni and healthcare professionals from WCM-Q, Hamad Medical Corporation (HMC), and Sidra Medicine, enabling them to benefit from the knowledge and experiences of these accomplished professionals. They gain critical early exposure to careers in medicine and meaningful opportunities to pursue their academic and career interests. Another enriching pre-professional program is the Clinical Observership Experience, led by Dr. Rachid Bendriss, assistant dean for student recruitment, outreach, and foundation programs. The observership, which takes place at HMC and Sidra Medicine, offers both foundation and pre-medical students valuable opportunities to apply their knowledge in real-world settings, explore different medical specialties early in their medical education, experience first-hand the healthcare system in Qatar, and enhance their awareness of the daily challenges facing physicians. Building upon these experiences, Dr. Bendriss had his students complete a semester-long project aimed at fostering early professional identity and appreciation for the various healthcare professions working in Qatar’s clinics and hospitals. Such creative projects encourage students to think critically about what constitutes effective medical practice and reflect on their own professional development.

Shahrzad Jafri, senior executive director of administration at WCM-Q, delivers a lecture at the Medical Career Seminar Series.
The Pre-Medical Curriculum

The pre-medical component of the six-year medical program prepares students for medical studies through a varied curriculum emphasizing physical and social sciences, and the humanities. Through their experiences, students develop the requisite knowledge and skills to succeed in the medical curriculum, and advance according to key criteria like academic performance, professionalism, and commitment to the medical profession. This year, due to the COVID-19 lockdown, pre-medical faculty and students faced the additional challenge of adapting an already demanding curriculum to a remote learning environment. When the WCM-Q campus closed to ensure social distancing guidelines and prevent the virus from spreading on campus, faculty and students began teaching and learning from home, and in some cases, left Qatar to be with their families. Despite these challenges, pre-medical faculty and students made the best of the situation, quickly adopting online tools like Zoom, Padlet, and Panopto to successfully complete the semester. For example, writing faculty continued facilitating meaningful group discussions about class readings through asynchronous discussion boards and synchronous Zoom breakout rooms, while the WCM-Q Writing Center continued to provide one-on-one consultations for students, staff, and faculty. Such efforts helped the semester continue remotely with minimal disruptions to student learning.

Throughout their time at WCM-Q, pre-medical students engage in rich learning experiences. For instance, during the foundation and six-year medical program orientation program, students participated in the Reading Project. Facilitated by Dr. Adam Larson, lecturer in English as a second language, the Reading Project invited students to discuss themes from Paul Kalanithi’s When Breath Becomes Air, an illness memoir recounting the author’s experience with lung cancer. Through their discussions, students explored how storytelling can communalize suffering, open up spaces for alternative possibilities, and become a medium of forgiveness for both patients and their families. The exercise concluded with students writing a short essay analyzing a passage from the book.

In the sciences, Dr. Ali Chaari, lecturer in biochemistry, and Dr. James Roach, professor of chemistry, recently published an article in the June 2020 edition of Biochemistry and Molecular Biology Education describing their innovative course-based capstone laboratory experience, which offers students the opportunity to explore biochemical concepts through project-based learning (PBL). This multi-step enzyme-based laboratory project introduced students to fundamental laboratory techniques while simulating the scaffolded nature of authentic research environments. Additionally, when the COVID-19 pandemic arose, Dr. Clare McVeigh, senior lecturer in biology, offered an innovative approach to adapting the capstone to an online environment. Students conducted literature searches on various aspects of COVID-19 and presented their findings at an online ‘press conference’ in which faculty played the role of reporters from different countries with various political perspectives. Students played the role of public scientists, fielding questions from the press covering a range of topics covered earlier in the course.

Pre-medical students also participate in authentic learning beyond classroom and laboratory.
For instance, in February 2020, forty-six students from WCM-Q attended a two-day training session at HMC facilitated by HMC medical physicists. The purpose of the session was to raise awareness about the important work that medical physicists do to support health and healing in Qatar’s hospitals. Additionally, six pre-medical students visited Vietnam to learn about the challenges facing Vietnamese healthcare providers while exploring Vietnamese culture. This twelve-day global health experiential trip, organized by the Institution of Population Health at WCM-Q, gave pre-medical students the chance to volunteer at the Orthopedic and Rehabilitation Hospital in Ho Chi Minh City. The students spent their days observing physicians conducting basic health checks and physiotherapy sessions, learning about health issues pertinent to Vietnam, working with special needs children, taking Vietnamese language classes, and studying the history and legacy of the Vietnam War. This program was designed to provide pre-medical students an opportunity to see how healthcare is organized and delivered in different countries and develop skills in providing care across cultural and linguistic boundaries.

Pre-medical students also take advantage of opportunities to participate in faculty research. For example, Dr. Keui-Chiu Chen, associate professor of biology, conducted research with help from pre-medical students into the biodiversity of the Al Karaana Lagoons, a series of pools formed by a wastewater treatment plant in 2017. The lagoons, located approximately 60 kilometers southwest of Doha, have become an important stopping place for many species of migratory birds. This study will document the various species of plants and wildlife and locate their greatest concentrations. Through their participation, students learn valuable field research skills used in biology and ecology while contributing to Qatar’s environmental development.

In addition, Dr. Dalia Zakaria, lecturer in biology, mentored students as part of the Undergraduate Research Experience Program (UREP). Their project, entitled ‘Role of the Human Gut Microbiota in Autism Spectrum Disorders and Inflammatory Bowel Diseases’, won first place at the 12th annual Qatar National Research Fund UREP contest, which included 46 projects from universities across Qatar.

The research team also published one of the most read articles in the Scandinavian Journal of Immunology entitled ‘The Role of Gut Microbiota in Atopic Asthma and Allergy: Implications in the Understanding of Disease Pathogenesis.’

Pre-medical faculty also provided leadership to support learning across Education City and the wider Qatar community. For instance, Dr. Marco Ameduri, senior associate dean for pre-medical education, and Dr. Rachid Bendriss served on an Education City projects committee which examined the role of artificial intelligence at Education City. This committee has a mandate to drive cross-campus collaborative projects, including project design and implementation, to enhance the synergies among Education City institutions. Similarly, Dr. Mohammad Yousef, associate professor of physics, and Dr. Majda Sebah, lecturer in chemistry, supported the 16th International Junior Science Olympiad, which hosted more than 400 students from 70 countries from around the world. Dr. Yousef and Dr. Sebah served as members of the scientific committee and played key roles in preparing contest assessments, leading discussions during the event, and evaluating the quality of scientific papers. Finally, in order to provide children in Qatar with high quality educational opportunities, Dr. Chen and teaching specialist Becky Cramer collaborated with the National Museum of Qatar to deliver workshops, talks, and lectures in biology. These activities demonstrate the pre-medical department’s firm commitment to helping Qatar achieve its 2030 vision goals.
The Division of Medical Education
This year witnessed a first for WCM-Q with graduates having to receive their degrees virtually in front of an online audience of family, friends, WCM-Q faculty and staff. The online ceremony was held in May with 15 males and 23 females graduating with the Cornell University Doctor of Medicine degree, increasing the total number of WCM-Q alumni to 422.

The caliber of the 38 graduating students was truly outstanding with 12 graduating with academic distinction, four with honors in research, and one with honors in service. Many of these graduates also received individual accolades at the Convocation Ceremony which honored graduates for academic excellence and recognized individuals for specific professional and personal attributes that form the essential qualities of a good physician. Additionally, this was the first class to have completed WCM-Q’s innovative six-year medical program, which comprises both pre-medical and medical curriculums.

Dr. Javaid Sheikh, Dean of WCM-Q presided over the graduation ceremony along with Dr. Augustine Choi, Dean of Weill Cornell Medicine in New York, and Provost for Medical Affairs at Cornell University.
At the match day event in March, 32 students in the Class of 2020 celebrated matching at prestigious post-graduate training institutions in numerous specialties, including dermatology, general surgery, internal medicine, interventional radiology, neurology, ophthalmology, otolaryngology, pediatrics and psychiatry.

The medical students matched at residency training programs at leading healthcare institutions in Qatar and the US, including Hamad Medical Corporation, NewYork-Presbyterian/Weill Cornell Medical Center, Icahn School of Medicine at Mount Sinai in New York City, Case Western/University Hospital Cleveland, Ohio, Cedars-Sinai Medical Center/University of California, Los Angeles (UCLA), and the Johns Hopkins Hospital in Baltimore, Maryland, among others. The expansion of the locations of residency placements of our students in the US, including California was a great achievement to be celebrated this year.
Medical Curriculum
Students and the Impact of COVID-19

The academic year was off to a good start in the Fall of 2019, with the students in the Class of 2023 taking another step closer to achieving their aspirations to become the next generation of doctors. Of the 41 students, eight are Qatari and of the total number there are 23 women and 18 men.

Earlier in the summer, students in the Class of 2022 entered Phase II of the curriculum, which primarily involved getting exposure at the clinical affiliated hospital sites. These students spent the next months applying clinical knowledge and honing-in on their critical thinking and patient care and physicianship skills to care for patients as part of the healthcare team in a primary care or hospital setting during their rotations for specialty specific clerkships.

The class 2020 were the very first cohort of students to do the Areas of Concentration (AOC) Program with a total of 29 students. There are a total of 73 AOC final projects completed by the Class of 2020 and Class of 2021. There are 37 AOC final projects in clinical pathways, 20 in laboratory sciences, seven in medical education and nine in population sciences.

In March 2020 and as the full implications of the global coronavirus pandemic became clear, the Medical Education leadership team scheduled meetings to discuss an academic continuity plan in anticipation of potential disruption of delivery of the curriculum due to COVID-19. Central to the many challenges faced with the suspension of in-person classes were:
• Continuing remote delivery of the medical curriculum
• Examining students off-campus
• Alternatives for clinical experiences

Class of 2020 students who were completing clinical electives were removed from the clinical services and were offered non-clinical online electives. The Health Care and Public Health Clerkship and Medicine Patients Society III, were completed remotely. All students were able to complete their graduation requirements with no delay.

Class of 2021 clinical placements at local affiliate hospitals was suspended on March 11, 2020. At that time, the students were in the midst of their respective neurology, obstetrics and gynecology, primary care, and psychiatry clerkships. The clinical component of the clerkships was postponed until August 2020. To ensure that this class continues to progress, and since subinternships and electives in New York were suspended, the Areas of Concentration Program was brought forward and started on April 12, 2020. Additionally, on March 31, 2020 the National Board of Medical Examiners (NBME) approved web-conferencing tools for remote proctoring. Following that announcement, the system was thoroughly tested by Office of Curriculum Support and the neurology NBME subject exam was sat remotely on April 13, 2020 using a secure NBME browser, recorded with Panopto technology and remote proctored via Zoom.

Class of 2022 were scheduled to start pre-clerkship orientation week towards the end of April 2020. However, due to the suspension of clinical activities this was no longer possible. Thus, to ensure progression of the students in their curriculum, their schedule was amended by frontloading non-clinical online electives. Several new two-week non-clinical online electives were developed by clinical science and foundational science faculty and were available as early as April 19, 2020 through the month of June 2020. The pre-clerkship orientation week was rescheduled to June 28, 2020 followed by the clerkships on July 5, 2020.

In that period of time, multi-disciplinary teams were tasked with tailoring content usually delivered face-to-face to suit the online environment. The anatomy classes and skills mastery sessions cannot be delivered online. Therefore, the order in which the curriculum is delivered was adjusted. Furthermore, recordings of new and pre-existing lectures, as well as other course materials, including self-assessment exercises were provided by faculty, allowing students, who were outside Qatar and different time zones, to engage with them at a time that was suitable for them.

As the online teaching continued for the months to come, telemedicine, the use of online video conferencing apps and remote proctored exams were introduced to facilitate teaching, learning and assessment. The trainee doctors continued to have full access to their professors for feedback and support through virtual meetings. WCM-Q’s Clinical Skills and Simulation Lab team transitioned to online patient encounters to support student remote education and to continue the clinical skills program.
Curricular Innovation and Student Support

The Division of Medical Education began the process of completing a phased implementation of a comprehensive curriculum and learning management system with a consortium and cloud model. This features robust and comprehensive reporting, assessment and evaluation, scheduling and calendar, curriculum mapping, and curriculum management. Once implementation is complete, the system will be a consolidated solution for faculty, staff, and students.

Outreach Initiatives

In continued efforts to promote WCM-Q as a center of excellence for graduating physicians, and to create more opportunities for WCM-Q graduates to match into post-graduate training programs, esteemed residency program directors from leading US teaching hospitals and academic health centers visited Weill Cornell Medicine-Qatar (WCM-Q) for a week to view the facilities, learn about the curriculum, and offer career development advice to students as part of the Visiting Professorship Program (VPP). This annual initiative brings leading figures in medical education and healthcare to WCM-Q in order to establish strong links between the college and other preeminent medical institutions around the world.

This year’s VPP brought nine residency program directors to WCM-Q from nine leading US medical schools: Weill Cornell Medicine in New York, Duke University School of Medicine, Penn State College of Medicine, the University of Colorado School of Medicine, the Western Michigan University Homer Stryker M.D. School of Medicine, St. Vincent Women’s Hospital, the University of Illinois College of Medicine, Rush University Medical Center and the University of Arkansas for Medical Sciences.

Professional Development

The Clinical Skills and Simulation Lab successfully delivered the 3rd Annual Optimizing Health Professions Education with Simulation-Based Learning. The symposium aimed to maximize the benefits of the educational modality through the adoption of guidelines and best practices from experts in the field. Expert facilitators from the multi-institutional Qatar Simulation Consortium were consulted to identify and steer the programming to meet the needs of the Qatar healthcare community in regard to evidence-based methods in simulation-based medical education. The symposium provided a platform for identifying strengths and challenges and allow for participants to explore opportunities to address barriers through collaborative discussions and networking gatherings.

The Division of Medical Education has continued to run the Monthly Medical Education Journal Club for faculty members and staff from the academic units. This forum encouraged collaborations and discussions on the latest trends in leading medical education journal publications.

Faculty and staff continue to ensure they are staying abreast of the latest advances in their field and to share their research and best practice expertise with others. With the coronavirus pandemic causing lockdowns across the world, many of the conferences migrated online and WCM-Q faculty and staff embraced virtual learning, presenting their research online and participating in virtual panel discussions.

Honoring Faculty and Recognizing Teaching Excellence

The achievements of the medical school educators over the past year were recognized in an online ceremony held to announce the winners of the 2020 Excellence in Teaching Awards. This time-honored tradition recognizes the teachers who excel as role models in their field, imparting knowledge by sparking intellectual curiosity and inspiring critical thinking.
Winners of the Excellence in Teaching Awards 2020

Pre-medical Education Awards
Foundation Year: Dr. Majda Sebah, Dr. Rachid Bendriss
1st Year Science: Dr. Dalia Zakaria, Dr. Mohammad Yousef
English Writing: Dr. Rodney Sharkey
2nd Year Science: Dr. Dalia Zakaria, Dr. Sean Holroyd
Teaching Specialist: Dr. Padmakumari Sarada, Dr. Simeon Scott Andrews
Teaching Specialists Honorable Mention: Dr. Becky Cramer, Ms. Christine Gaskell

Medical Education Awards
Excellence in Teaching in the Foundational Sciences Curriculum: Dr. Mange Manyama, Dr. Ameed Raoof
Excellence in Teaching in the Clinical Curriculum: Dr. Ameed Raoof, Dr. Mohamed Elshazly
Excellence in Leadership in the Foundational Sciences Curriculum: Dr. Naim Haddad
Excellence in Leadership in the Clinical Curriculum: Dr. Salman Aljerdi
Visiting Faculty Excellence in Teaching – Foundational Sciences Curriculum: Dr. Meredith Turetz
Visiting Faculty Excellence in Teaching – Clinical Curriculum: Dr. Muthukumar Thangamani
Excellence in Mentoring in the Area of Concentration: Dr. Khaled Machaca, Dr. Ali Sultan
Excellence in Educational Innovation: Dr. Stella Major

Convocation Awards 2020
The Senior List (WCM-Q Faculty): Dr. Aicha Hind Rifai, Dr. Basim Uthman, Dr. Naim Haddad, Dr. Ameed Raoof, Dr. Amine Rakab, Dr. Mai Mahmoud
The Senior List (WCM-NY Visiting Faculty): Dr. Anthony Ogedegbe, Dr. Joseph Safdieh, Dr. Robert Kim
Humanism in Medicine Award: Dr. Aicha Hind Rifai
Excellence in Foundational Sciences Teaching Award: Dr. Avelin Malyango
Excellence in Clinical Teaching Award: Dr. Basim Uthman, Dr. Grigory Ostrovskiy

The 3rd annual Affiliated Teaching Faculty Appreciation Event took place in October 2019 to honor the local physicians who hold affiliated faculty appointments with WCM-Q and teach our medical students. These experiences help students learn the practical skills required to provide excellent patient care, develop very high standards of professionalism, and gain a keen understanding of the ethical and moral dimension of the doctor’s role. Many affiliated faculty also teach in foundational sciences courses at WCM-Q.

A local musical ensemble provided a unique ambience for the event which was attended by physicians working at Hamad Medical Corporation, the Primary Health Care Corporation, Sidra Medicine, Aspetar Orthopedic and Sports Medicine Hospital and the Feto-Maternal Medical Centre. During the event, third-year medical student Raihan El-Naas of the Class of 2021, gave a heartfelt speech on behalf of her peers thanking the affiliated faculty for “helping shape our career paths and igniting our love for medicine with their immense knowledge and true interest in helping us learn and understand".
Faculty Achievements

This year the faculty in the Division of Medical Education disseminated 60 medical educational and clinical research presentations at local and international conferences and published 87 articles on a wide variety of topics in highly reputable journals.

Notably, several of our faculty received scholarly prizes and grant awards for research in medical education and appointments in a variety of editorial boards and professional societies over the past year include:

• Dr. Stella Major was appointed to be the IPE lead for the vaccination program CPD for the PHCC. This activity is led by the University of Calgary in Qatar.

• Dr. Ameed Raoof joined the Anatomical Terminology committee in the American Association of Clinical Anatomists (AACA).

• Dr. Thurayya Arayssi, Dr. Amine Rakab, Dr. Amal Khidir, Dr. Sumeja Zahirovic and Ms. Deema Al-Sheikhly collaborated with Dr. Eric Holmboe and Dr. Sandra A. Moutsios of the Accreditation Council for Graduate Medical Education to develop a regional hub to promote faculty development in the area of assessment in health professions education.

• Dr. Mohamed Elshazly and Amal Abdellatif (M4 student) were awarded the Paul Dudley White International Scholar prize at the American Heart Association Scientific Sessions for the highest ranked international abstract.

• Dr. Stella Major (PI) was awarded a WCM-Q Medical Education Research Grant for her project ‘Exploring the use of virtual reality in undergraduate medical student training on empathy.’

  Research Question:
  1. How do medical students engage with a virtual reality (VR) experience in exploring empathic behaviors?
  2. What are the benefits and limitations of using VR to promote the development of empathic behaviors in medical students?
  3. What characteristics influence participants’ emotional response to a VR experience?

• Dr. Ameed Raoof (PI) was awarded a WCM-Q Medical Education Research Grant for his project ‘Assessing the effectiveness of virtual (VR) and augmented reality (AR) in enhancing students’ understanding of anatomy. Could VR enhance students’ 3-D perception of the human body?’

• Dr. Adam Larson (PI) was awarded a WCM-Q Medical Education Research Grant for his project ‘Fostering scientific identity in medical students: An exploration of the Areas of Concentration Program at Weill Cornell Medicine–Qatar.’

• Dr. Sean Holroyd was appointed a member of the Physiological Society of the UK and appointed as a member of the Australian Physiological Society.

• Dr. Laith Abu-Raddad was invited to be a member of the Scientific Committee of the Epidemiology & Monitoring track for the STI & HIV 2021 World Congress (ISSTDR).

• Dr. Ziyad Mahfoud was invited to act as an external examiner for a candidate for the Master in Public Health thesis at Qatar University.

• Dr. Ameed Raoof was awarded Best Research Mentor by the WCM-Q Student Research Association.

• Dr. Stella Major was re-awarded CHSE (certification as simulation health educator) by the society of simulation in health care. This is a three-yearly certification, and requires a candidate to fulfil ongoing educational, scholarship and leadership criteria, as represented by submissions to a secure online portfolio in SSH website.

• Dr. Amal Khidir was appointed to run the Research and Scholarship Collaborative (former Task Force) meetings as the chairperson of the COMSEP collaborative during the conference.

• Dr. Stella Major and colleagues in CSSL created and tested an original web-OSCE – to offer clerkship directors an option to complete their clinical skills OSCEs and assessment, after the college was closed to in-person teaching due to COVID 19.

• Dr. Ziad Kronfol collaborated with local colleagues on a book chapter, ‘Mental Health in Higher Education’ in Mental Health in Qatar: Challenges and Prospects, by Haque A, Gilstrap L.L and Ghuloum S, book editors.

• Dr. Sandra Sapia is collaborating with Carnegie Mellon University in Qatar to deliver the Blood Biology and Pathophysiology Course. Listed as BIOG 2025 (Cornell University Registrar) 03-210 (W4) (Carnegie Mellon).

• Dr. Christopher Triggle was involved in the following international collaboration: Research integrity: Establishment of guidelines for the fair peer review of the scientific literature. Preparation of manuscript. With Professor Carl Taswell & colleagues, Brain Health Alliance and Adjunct Professor Electrical and Computer Engineering, University California San Diego.

• Dr. Sandra Sapia is collaborating with Carnegie Mellon University in Qatar to deliver the Blood Biology and Pathophysiology Course.
Division of Continuing Professional Development (CPD)

The Division of Continuing Professional Development (CPD) has continued to stay true to its slogan of Embracing Lifelong Learning ensuring creativity and innovation in meeting its mission of providing high-quality professional development opportunities for physicians and other healthcare professionals. This is based on identified needs and the latest scientific and medical developments that will increase competence, enhance performance in practice and lead to improving healthcare for patients. This is in line with the goals of the Qatar National Health Strategy (2018-2022) priorities, including ensuring an efficient, capable, and sustainable healthcare workforce. Therefore, the division continues to work in pursuit of its strategic objective, “To enhance the knowledge and practice of the Qatari and regional physician workforce through graduate and continuing medical education.”

The division is led by Dr. Thurayya Arayssi, professor of medicine and senior associate dean of medical education and continuing professional development, who is supported by Ms. Deema Al-Sheikhly, director of medical education and continuing professional development; Ms. Phylis Navti, assistant director, continuing professional development, and Ms. Laudy Mattar, manager of the division. The remainder of the team includes the manager for marketing and evaluation, Ms. Zara Lamri, and the CPD coordinators, Ms. Ameena Abdul Rahim, Ms. Safia Rabia and Ms. Joan Montederamos.

The Accreditation with Commendation awarded to WCM-Q by the Accreditation Council for Continuing Medical Education (ACCME) along with the recognition locally as an accredited provider by the Qatar Council for Healthcare Practitioners (QCHP) is further evidence of the quality and depth of the CME/CPD activities developed at WCM-Q that meet the needs of the healthcare workforce in Qatar and beyond.

In 2020, despite the challenges of the COVID-19 pandemic, the CPD division ensured seamless continuity of most of the scheduled learning support programs. Furthermore, the CPD division identified an urgent need to support the ongoing learning of our healthcare community working through these unprecedented circumstances and swiftly launched a new COVID-19 Live Webinar Clinical Series. The series, which features leading experts discussing both the global challenges and impact of the COVID-19 pandemic as well as the recommended management of the SARS-CoV-2 virus, continues to be extremely impactful.

WCM-Q Continuing Professional Development Milestones

- **2010**: Establishment of the Division of Graduate Medical Education (GME)
- **2013**: The division was re-invented as the Division of Continuing Professional Development (CPD). Recognition of WCM-Q as an accredited CME/CPD provider by ACCME
- **2014**: Recognition of Weill Cornell Medicine-Qatar as an accredited CME/CPD provider by ACCME
- **2015**: Accreditation Council for Medical Education (ACCME) approved the eligibility of WCM-Q to apply to become an ACCME accredited provider
- **2016**: Re-accreditation of WCM-Q by QCHP for five years
- **2018**: Accreditation of WCM-Q with commendation by the ACCME for six years
Establishing the regional Accreditation Council for Graduate Medical Education (ACGME) training hub: WCM-Q is the regional training hub as part of a memorandum of understanding between the ACGME and WCM-Q.

Pivoting to online delivery of activities during the COVID-19 pandemic to meet the needs of the healthcare community.

Having a global impact on the education of healthcare practitioners in multiple areas of clinical practice across several countries outside of Qatar.

This year the Division of Continuing Professional Development accredited **71 activities** that were attended by **9,098 healthcare practitioners**. Issued **15,176 Qatar Council for Health Care Practitioners (QCHP) hours** and **6,069 AMA PRA Category 1 Credits™**.

Key Achievements

**Our Mission**

The Division of Continuing Professional Development’s (CPD) mission aims to promote educational endeavors, which extend beyond the undergraduate program and align with the mission of Weill Cornell Medicine-Qatar. To this end, the mission of this division is to:

- Provide high-quality professional development opportunities for physicians and other healthcare professionals based on identified needs and the latest scientific and medical developments that will lead to the improved health care of patients
- Offer physicians and other healthcare professionals the opportunity to attain credits toward medical licensing requirements locally and internationally
- Create opportunities for physicians and other healthcare professionals to develop a community of practice to interact with one another personally and professionally
- Develop and disseminate best evidence-based practice and health education research

**Our Vision**

To build a community of healthcare professionals and educators committed to embracing lifelong learning in order to enhance patient care and healthcare outcomes.
Our Partners

CPD division would like to thank the following local and international recognized organizations for their partnerships and business collaborations.

Local Partner

Accrediting & Regulatory Bodies

Ministry of Public Health

Affiliates

Other Collaborators

Activities Accredited in 2019/2020

Clinical Sciences

Research Education for Clinicians

Medical Education

Live Activities

- Assessment in Competency-Based Medical Education: A Faculty Development Program
- Bridging the Gap Medical Interpreters Training
- Cultural Competence in Healthcare Workshop
- ECG in Clinical Practice
- Mastering Emotional Intelligence
- Minor Surgical Skills Workshop
- Periodontics in Practice: Where do I start and what I should be doing?
- Understanding Basics of Health Research
- Updates in the Diagnosis and Management of Chronic Kidney Disease in Diabetes Mellitus
- Sample Size Determination for Clinical Research
- Systematic Review: An Introductory Workshop

Certificates

- Certificate in the Analysis of Medical Data: Applied Biostatistics for Healthcare Professionals
- Certificate in Lifestyle Medicine
- Certificate in the Fundamentals of Music Therapy

Online Courses

- Role of the Gut Microbiota in Health and Disease

Series

- Biostatistics for Healthcare Practitioners Live Webinar Series
- COVID-19 Live Webinar Clinical Series
- Intersection of Law and Medicine Series: Stem Cells and Artificial Intelligence: Ethical and legal Challenges in Healthcare
- Medical Education Journal Club
- WCM-Q Grand Rounds Series

Conferences

- 3rd Annual Optimizing Health Professions Education with Simulation-based Learning. Institutional Culture & Academic Journeys
- Congenital Dystrophies-Neuromuscular Disorders Precision Medicine Conference: Genomics to Care & Cure
Meeting the Needs of Our Healthcare Practitioners

**Target Audience**

WCM-Q's target audience includes faculty, staff, and alumni of WCM-Q, and physicians and other healthcare professionals in the State of Qatar and the region. From July 2019 to June 2020, up to 9,098 healthcare practitioners and educators participated in activities that were QCHP and ACCME accredited (Figure 1), with the majority of the participants coming from the private sector.

**Content**

WCM-Q’s activities are varied in context. The monthly multi-disciplinary WCM-Q Grand Rounds aims to enhance physicians’ and other healthcare professionals’ skills and knowledge of the latest medical developments, technology, and good practices. The remaining live activities may be discipline specific or are geared for an inter-professional audience. By providing different activity types, WCM-Q fulfills its mission to offer a variety of educational activities.

### WCM-Q CME/CPD Activities 2019-2020

- **Participants**: 9,098 participants attended activities at WCM-Q
- **Accredited Activities**: 71 CME/CPD accredited activities were provided or offered by WCM-Q
- **Credit Hours**: 15,175 QCHP hours awarded, 6,069 AMA PRA Category 1 credits™ awarded
- The overall number of accredited activities for CME/CPD credits increased by 17.4% compared to 2018-2019.

### Figure 1

- **Nurse**: 36%
- **Physician**: 28%
- **Student**: 4%
- **Pharmacist**: 5%
- **AHP**: 12%
- **Non-Physician**: 13%
- **Other**: 2%
- **Dentist**: 1%
- **Physician**: 28%
- **Nurse**: 36%
- **Other**: 2%
- **Non-Physician**: 13%
- **AHP**: 12%
Desirable Practitioner Attributes

CME/CPD activities are developed in the context of desirable physician/healthcare practitioner attributes that focus on elements of the Institute of Medicine (IOM), the Accreditation Council for Graduate Medical Education (ACGME), the American Board of Medical Specialties (ABMS) and/or the Inter-Professional Education Collaborative competencies (Figure 2).

How well WCM-Q designed activities around core competencies

CME Oversight Committee Members

The CPD Oversight Committee plays a critical role in ensuring that the mission and vision of the division are met and that accredited activities are developed in alignment with both the QCHP and ACCME standards and requirements.

CME committee members

Content

All CME/CPD presentations must be based on evidence that is accepted within the profession of medicine, be scientifically sound and free of commercial bias. Our accredited CME/CPD activities were found to be free of commercial bias (>90%), scientifically sound, evidence-based, objective and balanced (>94%).

Figure 2: Showing the variety of core competencies around which activities are designed.
Live Activities

Live activities welcomed up to 1,600 healthcare practitioners from both the public and private sector (Figure 3), who attended 33 presentations delivered by WCM-Q faculty and alumni, WCM faculty, and renowned local and international experts on diverse topics relevant to the practice of the healthcare community of Qatar.

CPD Activities, Local and International Partnerships

The division continues to collaborate with several local and international entities to ensure the diversity and quality of healthcare education programs offered to meet the needs and practice gap of the healthcare community in Qatar. Institutions with which CPD has collaborated include Hamad Bin Khalifa University, the University of Malaya of Kuala Lumpur, Sidra Medicine, Aspetar, Hamad Medical Corporation, Heart Hospital, Qatar Red Crescent, the Accreditation Council for Graduate Medical Education and Vanderbilt University.

Live Activities Attendees

- Physician: 37%
- Non-Physician: 28%
- Nurse: 16%
- Student: 12%
- AHP: 4%
- Other: 1%

The Division of Continuing Professional Development hosts dozens of activities each year.
Collaboration

Updates in the diagnosis and management of chronic kidney disease in diabetes mellitus

Division of CPD developed this one-day workshop, which was offered on two separate days, in collaboration with the Qatar Red Crescent Society (QRCS) and aimed specifically at doctors, who frequently encounter chronic kidney disease when providing emergency or primary care to patients. This activity is a great example of the importance of WCM-Q’s collaboration with other entities to meet the needs of the healthcare community in Qatar, in order to support the Qatar National Health Strategy as evidence by the positive feedback received from the participants. 76 healthcare professionals completed this course that was offered twice. Accreditation: 280 Qatar Council for Health Care Practitioners (QCHP) hours and 216 AMA PRA Category 1 Credits™ issued.

Assessment in competency based medical education: A faculty development program

The three-day course was developed by CPD and Medical Education through a regional Accreditation Council for Graduate Medical Education (ACGME) training hub. The course featured speakers from the ACGME, WCM-Q and Vanderbilt University. The purpose was to advance health professions education in Qatar and the wider region in order to improve healthcare provision and population health. Forty-two healthcare professionals completed this program. Accreditation: 565 Qatar Council for Health Care Practitioners (QCHP) hours and 572 AMA PRA Category 1 Credits™.

The workshop was held in collaboration with Qatar Red Crescent.

WCM-Q alumnus Dr. Mohamad Alkadi, nephrology consultant at Hamad Medical Corporation, was one of the speakers at the event.

Dr. Eric Holmboe, chief of research, milestones development and evaluation officer at the ACGME, delivers a component of the program.

The assessment in competency-based medical education program was designed to ultimately improve healthcare in Qatar and the wider region.
CPD collaborated with the Heart Hospital and Hamad Medical Corporation for this one-day workshop explicitly aimed at ECG technicians, nurses, and physicians. The activity covered the basic skills of ECG interpretation (example: normal ECG, axis, intervals, ischemia, heart blocks, and tachyarrhythmias). 72 healthcare professionals completed this course. Accreditation: 441 Qatar Council for Health Care Practitioners (QCHP) hours and 148 AMA PRA Category 1 Credits™ issued.

**ECG in clinical practice**

Dr Mohamed Elshazly, assistant professor of medicine at WCM-Q, delivering a section of the electrocardiogram workshop.

The Division of Continuing Professional Development provides a wide range of learning opportunities for healthcare professionals at all stages of their careers.

**Intersection of Law and Medicine Series**

The day-long event was organized by CPD in collaboration with Hamad Bin Khalifa University and the University of Malaya of Kuala Lumpur, Malaysia, as part of the Law and Medicine Series. Expert speakers at this event discussed the impact of recent advances in stem cell science and AI on the practice of medicine in Qatar and explored how new legal frameworks could be developed to protect the rights and safety of patients in the MENA region. 107 healthcare professionals attended the workshop. Accreditation: 576 Qatar Council for Health Care Practitioners (QCHP) hours and 168 AMA PRA Category 1 Credits™ issued.

**Stem cells and artificial intelligence: Ethical and legal challenges in healthcare**

Q&A sessions allow the audience to further explore the topic.

The Law and Medicine Series explores how the legal and medical worlds impact upon each other.
Collaboration

Developed by WCM-Q’s CPD in collaboration with the Qatar Music Academy (QMA). Composed of nine online modules and a two-day practical workshop, covering evidence-based description of the main techniques used in music therapy and their clinical applications. Fifty three healthcare professionals completed the certificate. Accreditation: 165 Qatar Council for Health Care Practitioners (QCHP) hours and 153 AMA PRA Category 1 Credits™ issued.

Certificate in Fundamentals of Music Therapy

The Certificate in Music Therapy covered the clinical applications of the approach.

Series

Back to basics for clinicians series
Diagnosing and managing diabetes: A 21st century approach

The activity was designed to highlight the advances and application of omics in clinics for diagnosis of subtypes of type II diabetes and the development of personalized disease management. The activity was developed as a collaboration between the divisions of CPD and Research to introduce the attendees to a group of basic researchers and clinicians who have used this approach in diagnosing and managing some diabetic patients with genetic variations. Fifty three healthcare professionals attended. Accreditation: 111 Qatar Council for Health Care Practitioners (QCHP) hours and 75 AMA PRA Category 1 Credits™ issued.

Back to basics for clinicians series
Diagnosing and managing diabetes: A 21st century approach

Dr. Rayaz Malik, professor of medicine and assistant dean for clinical investigations, delivers a talk.

Back to basics for clinicians series
Diagnosing and managing diabetes: A 21st century approach

Fifty three healthcare professionals attended the course.
Live Activities

Minor Surgical Skills Workshop

This one-day training workshop on minor surgical skills for family physicians included lectures and skill-based training on minor surgical procedures in a simulated environment under expert supervision. 21 physicians completed this workshop. Accreditation: 123 Qatar Council for Health Care Practitioners (QCHP) hours and 123 AMA PRA Category 1 Credits™ issued.

Sample Size Determination for Clinical Research

The course developed by Dr. Ziyad Mahfoud, associate professor of healthcare policy and research, with the support of the division of CPD, was designed to help researchers determine the sample size needed for their study. 102 healthcare professionals completed this course, which was offered twice. Accreditation: 268 Qatar Council for Health Care Practitioners (QCHP) hours and 122 AMA PRA Category 1 Credits™ issued.
Dentists, dental hygienists, and dental assistants were invited to attend a two-day periodontics training course developed by CPD in collaboration with Dr. Hatem Algraffee, periodontist from the Royal London Hospital. The course explained how to implement the new worldwide periodontal and implant classification system, how to assess and screen patients with periodontal disease and to co-ordinate and execute a successful treatment plan. Fourteen Dentists completed this course. Accreditation: 103 Qatar Council for Health Care Practitioners (QCHP) hours issued.

The course explained how to implement the new worldwide periodontal and implant classification system.

Certificate in the analysis of medical data: Applied biostatistics for health care professionals

A new series of workshops developed by Dr. Ziyad Mahfoud with the support of CPD, showed healthcare professionals from several institutions how to use computer software to analyze data by applying advanced biostatistical techniques to enhance the quality of their research projects. Participants, physicians, nurses, dentists, pharmacists, allied health professionals, students, researchers, and educators, who completed all three workshops and passed a test at the end of each one received the Certificate of Analysis in Medical Data.

- Introductory Applied Biostatistics for Health Care Professionals: 91 healthcare professionals completed this course, which was offered twice. Accreditation: 439.5 Qatar Council for Health Care Practitioners (QCHP) hours and 174 AMA PRA Category 1 Credits™ issued.

- Intermediate Applied Biostatistics for Health Care Professionals: 84 healthcare professionals completed this course, which was offered twice. Accreditation: 377 Qatar Council for Health Care Practitioners (QCHP) hours and 155 AMA PRA Category 1 Credits™ issued.

- Advanced Applied Biostatistics for Health Care Professionals: 64 healthcare professionals completed this course, which was offered twice. Accreditation: 323 Qatar Council for Health Care Practitioners (QCHP) hours and 113 AMA PRA Category 1 Credits™ issued.
Physicians and healthcare practitioners are challenged with staying abreast of the latest developments in medicine and the constraints of demanding workloads. The need exists for a platform for physicians to attend high-quality lectures on developments in medicine, ask questions, and network with peers to promote interdisciplinary collaborations for improved patient care.

WCM-Q Grand Rounds 2019-2020

Leading the Way with Clinical Ultrasound in Undergraduate Medical Education: 5 Ways You Can Contribute February 12, 2020
Gillian M Baty, MD
Residency Program Director Department of Emergency Medicine Weill Cornell Medicine

On the Emergence of Candida Pathogens March 8, 2020
Kin-Ming (Clement) Tsui, PhD
Molecular Scientist, Department of Pathology
Sidra Medicine Assistant Professor, Department of Pathology and Laboratory Medicine Weill Cornell Medicine-Qatar

Diagnosis of Low Back Pain April 28, 2019
Sumeja Zahirovic, MD
Assistant Professor of Medicine
Weill Cornell Medicine-Qatar

Oral Cancer: Basic Facts and Early Detection January 27, 2019
Dominique Laatz
Oral Surgeon
Dental German Center

The Emerging Role of Smart Wearable Devices in Cardiovascular Disease Prevention and Management February 24, 2019
Mohamed B. Elshazly, MD, FACC
Cardiologist & Assistant Professor of Medicine
Weill Cornell Medicine–Qatar
Consultant Cardiology Aspetar Consultant Cardiology
Hamad Medical Corporation

Dr. Liam Fernyhough, assistant professor of medicine at WCM-Q delivers his Grand Rounds lecture, A New Era of Anticoagulation.
WCM-Q Grand Rounds - Live (face to face)

The series welcomed up to 957 healthcare practitioners from both the public and private sector (Figure 4) who attended 17 face to face presentations delivered by WCM-Q faculty and alumni, WCM faculty, and renowned local and international experts on diverse topics relevant to the practice of the healthcare community of Qatar.

WCM-Q Grand Rounds Attendees

- Physician: 44%
- Nurse: 21%
- AHP: 5%
- Student: 12%
- Other: 1%
- Dentist: 2%
- Non-Physician: 15%

Figure 4

WCM-Q Grand Rounds Committee Members

The WCM-Q Grand Rounds, a regularly scheduled series, plays an integral role in providing formal opportunities for the professional development of the WCM-Q community and local healthcare practitioners on current issues related to healthcare. The series is developed by an interdisciplinary committee of experts in various areas of healthcare and research. The members are drawn from multiple divisions within WCM-Q as well as from our affiliates, thereby enabling us to identify and meet the practice gap of our diverse target audience.

WCM-Q Grand Rounds Committee Members

- Thurayya Arayssi, MD, FACP, FACR, FRCP: Senior Associate Dean, Medical Education and CPD Professor of Clinical Medicine WCM-Q
- Deema Al-Sheikhly, MRes, MEHP: Director of Medical Education and Continuing Professional Development WCM-Q
- Mary Parrott, MA: CPD Coordinator CNA-Q
- Christopher Triggle, PhD: Professor of Pharmacology WCM-Q
- Sheela Qureshi, PhD: Senior Lecturer, Chemistry WCM-Q
- Ameena Abdul Rahim, BSc, MSc: Coordinator, Continuing Professional Development WCM-Q
- Deema Al-Sheikhly, MRes, MEHP: Director of Medical Education and Continuing Professional Development WCM-Q
- Safia Rabia, MSc: Coordinator, Continuing Professional Development WCM-Q
- Maria Paiva, BSP, BCPS, PharmD: Manager - Business Operations, Cardiac Program, PICU, & Infectious Disease SIDRA
- Laudy Mattar, BSc, MMI: Manager, Continuing Professional Development WCM-Q
- Therese Lanigan, Nurse: Clinical Nurse specialist SIDRA
- Sherry George, MSW, RSW, Department Chair Pharmacy Technician, Diabetes Educator & Allied Health Promotion School of Health Sciences College of North Atlantic-Qatar
- Dominique Laatz: Oral Surgeon Team of German Dental Center

Figure 4
Transforming activities online and offering new virtual activities

The Division of CPD was able to transform in-person continuing education activities to online webinar format in a short period of time: Virtual meetings increased attendance and geographical diversity of participants accredited locally by the Qatar Council for Healthcare Practitioners-Accreditation Department (QCHP-AD) and internationally by the Accreditation Council for Continuing Medical Education (ACCME): 7,351 healthcare professionals attended these new online activities. Accreditation: 6,709 Qatar Council for Health Care Practitioners (QCHP) hours, 1,854 AMA PRA Category 1 Credits™ issued.

1. New COVID-19 Live Webinar Clinical Series: This series was developed by WCM-Q’s Division of Continuing Professional Development to allow the healthcare community in Qatar to discuss the challenges posed by the COVID-19 pandemic, its impact, recommended responses and treatment protocols.

2. New Biostatistics for Healthcare Practitioners Live Webinar Series: This new series was developed by the division of CPD as a four-part series where Dr. Ziyad Mahfoud presented the concept of both summary and inferential statistics. He explained, with examples from the literature, how to interpret those statistics. Concepts to be discussed are means, medians, interquartile ranges, standard deviations, odds ratio, relative risk, confidence intervals, and p-value.

3. Launching the Pearls of Grand Rounds: This is a new electronic scholarly activity published on the CPD website and aims to update the community and promote discussion on relevant topics in continuing medical education. Speakers at Weill Cornell Medicine-Qatar’s regularly scheduled series share their ‘pearls of wisdom’ about their chosen field of interest.

4. New WCM-Q Grand Rounds delivered online: During the pandemic, the division of CPD altered the in-person delivery of the WCM-Q Grand Rounds series to an online modality to support the physicians and healthcare professionals in staying abreast of the latest developments in medicine and the constraints of demanding workloads.

5. New Launching the first online activity titled “Role of the Gut Microbiota in Health and Diseases.” The CPD division collaborated with Dr. Ghizlane Bendriss on this new activity format developed to allow participants to connect online anytime from anywhere, to learn and apply best practices through digital learning. This enduring material is composed of five online modules providing an evidence-based update on the role of the Gut Microbiota in health and diseases.
COVID-19 Live Webinar Clinical Series

5,936 healthcare professionals attended the series

5,365 QCHP hours awarded

1,403 AMA PRA Category 1 credits™ awarded
WCM-Q Grand Rounds
Live Webinar Series

959 healthcare professionals attended the series

PARTICIPANTS

873 QCHP hours awarded

CREDIT HOURS

318 AMA PRA Category 1 credits™ awarded
Biostatistics for Healthcare Practitioners Live Webinar Series

214 healthcare professionals attended the series

470 QCHP hours awarded

133 AMA PRA Category I credits™ awarded
## Publications and Presentations


6. Presentation on “A systematic Review of Remediation Strategies for Learners Struggling with Communication Skills”. Ms. Deema Al-Sheikhly represented Weill Cornell Medicine- Qatar at the International Association for Medical Education in Europe (AMEE) 2019 Conference in Vienna and gave a presentation to an international audience of medical educators. Thereby spreading the word on the type and quality of medical education research being conducted in Qatar.

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The Division of CPD works in pursuit of its strategic objective:

“To enhance the knowledge and practice of the Qatari and regional physician workforce through graduate and continuing medical education.”
Congratulations!
Clinical and Faculty Affairs

The Office of Clinical and Faculty Affairs supports the appointment and promotion processes for all WCM-Q academic staff, which includes WCM-Q employed faculty, research associates, and postdoctoral associates as well as affiliated faculty employed by the affiliated institutions. The office also supports the implementation of policies, guides faculty towards their promotion; oversees the annual performance review process, maintains academic staff records, is the repository for academic staff data, and facilitates and monitors the licensing and credentialing of our faculty.

Academic Staff for Academic Year 2019-2020

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<th>EMPLOYED FACULTY</th>
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<td>Pre-medical Education</td>
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<th>AFFILIATED FACULTY</th>
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<td>Hamad Medical Corporation</td>
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<td>Other Institutions</td>
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<td><strong>Total</strong></td>
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Appointments and Promotions

WCM-Q Employed Faculty

During the AY 2019-2020, WCM-Q welcomed six new full-time faculty members and celebrated the promotion of three of our colleagues:

New appointments: Dr. Amit Thomas Abraham was appointed as instructor in healthcare policy and research on September 1, 2019. He holds an MD from WCM-Q and a Master of Public Health from Johns Hopkins Bloomberg School of Public Health. He has been an invaluable member of IPH since 2011 as an active participant in public health teaching programs for pre-medical and medical students, where he has taught topics such as environmental health, nutrition, and chronic disease risk factors. His research interest is in non-communicable diseases and their risk factors.

Dr. Karima Chaabna was appointed as instructor in healthcare policy and research on September 1, 2019. She holds a PhD in epidemiology from Claude Bernard University Lyon, France and trained as a postdoctoral associate for two years at WCM-Q before joining IPH in 2016. Dr. Chaabna is an active participant in educational workshops for healthcare professionals and teaches community medicine residents at HMC. In addition, she has developed and led multidisciplinary research projects on population health issues in MENA with a focus on Qatar.

Dr. Fatimah Isa was appointed as instructor of psychology in medicine on September 1, 2019. She holds an MSc in health psychology from the University of Indonesia and a PhD in psychology (2019) from Grand Canyon University, Arizona. She also holds certifications in the Myers-Briggs Type Indicator (MBTI) as analyst from the MBTI Accreditation Board of Australia and in cognitive-behavioral therapy from the National Association of Cognitive Behavior Therapists, USA. In addition to overseeing the appointment and promotion process for the affiliated faculty, she advises and mentors the faculty on promotion strategies and contributes to the development and delivery of continuing professional education courses. Her research interest is in leadership development. Her recent research work has focused on the antecedent factors of transformational leadership, specifically leaders’ self-efficacy and emotional intelligence.

Dr. Dalia Zakaria was appointed visiting lecturer in biology on September 22, 2019. She holds a PhD in microbiology and molecular biology from the University of Exeter, UK and she conducted postdoctoral training at the University of Bristol and the University of Cardiff. In 2016, she joined WCM-Q as a teaching specialist in biology. She has been a three-time recipient of the Excellence in Teaching Award (2017, 2018, and 2019) and was the most recent recipient of the Student Appreciation Award in 2019. In addition to her teaching role, she conducts research in the areas of immunology, microbiology, and molecular biology, with a focus on the role of gut microbiota in health and disease. She has co-authored several publications and presented at several international conferences.

Dr. Fatimah Isa

Dr. Dalia Zakaria
Ms. Danielle E. Jones was appointed as visiting lecturer in English as a second language on September 22, 2019. She holds a Master of Studies in creative writing (2011) from the University of Oxford, UK and a Bachelor of Science in neuroscience and behavior from Columbia University, USA. In her career as a writer, Ms. Jones has co-authored several full-length play translations from the original French, the first of which won Best New Comedy in Canada from the Playwright’s Guild of Canada and the last of which was commissioned by the United States Consulate General of Montreal. She is also a television and short film writer, whose work has been honored at international film festivals. As an educator, Ms. Jones has taught a variety of courses to diverse student bodies of native speakers and English as a second language learners.

Ms. Jamie Marie Gray was appointed as associate librarian on December 1, 2019. Prior to joining WCM-Q in June 2017 as the director of the Distributed eLibrary, she served as part of the library leadership team at both Stanford School of Medicine’s Lane Medical Library and the University of Washington Health Sciences Library. Her professional interests include interprofessional leadership, evidence-based practice, and the library’s role in helping to address the social determinants of health. During her career, she has worked as part of the hospital team developing standardized pathways of care for pediatric patients, redesigned library curricular activities around information literacy and evidence-based practice, participated in the development of the RRAIN app for first responders, and co-developed an employee wellness and recognition program tailored to the needs of the library. Ms. Gray holds a Master of Library Science degree from the University at Buffalo in New York and an MS in healthcare administration and interprofessional leadership from the University of California at San Francisco.

Promotions:

Dr. Ali A. Sultan was promoted to professor of teaching in microbiology and immunology in February 2020 in recognition of his sustained contributions to medical education. He has been the recipient of numerous teaching awards, has contributed extensively to developing and improving our basic science curriculum, and has played an important role, as a faculty and a leader, in the implementation of the new medical education curriculum. In addition to his remarkable record of service to the educational mission, Dr. Sultan has maintained an active research program, focuses primarily on malaria, antibiotic resistance and human microbiome. His work has been published in major journals such as Cell and Nature. Dr. Sultan holds an MD from the University of Khartoum, Sudan and a PhD from the University of Edinburgh, UK.

Dr. Joel A. Malek was promoted to associate professor of genetic medicine (investigation) on April 1, 2020 in recognition of his regional and international reputation as a researcher and his substantial contributions to genetic medicine. He has published his work in highly regarded journals in genetic medicine and plant genomics, including Nature Communications, American Journal of Cardiology, Journal of Translational Medicine, PLoS Genetics, BMC Genomics, and BMC Cancer. His most significant scholarly accomplishment is his innovative genomic research on date palm sex chromosomes. He is, without doubt, the world leader in date palm molecular genetics, a field of research that is culturally relevant to the State of Qatar and the Middle East. Dr. Malek holds an MS in biotechnology from Johns Hopkins University, USA and a PhD in molecular and cellular biology - oncology from the University of Paris XI, France.

Dr. Alice Abdel Aleem was promoted to associate professor of research in neurology on June 1, 2020 in recognition of her strong regional reputation as an expert who is highly regarded in the field of human genetics and neurogenetics. Her research has contributed to new knowledge that has advanced the primary prevention, diagnostics, and management of several types of neurogenetic disease. She has published in renowned journals in the fields of clinical and molecular genetics, such as Human Genetics, Neurology, Nature Genetics, Annals of Neurology, and Clinical Genetics. Dr. Abdel Aleem holds an MBCh from the Faculty of Medicine and Surgery of Cairo University, Cairo, Egypt, an MSc in human genetics from Ain Shams University, Cairo, Egypt, and a doctoral degree in clinical human genetics from a joint program between Ain Shams University and the Human Genetics Institute, Medical School Hannover, Germany.
Affiliated Faculty

Faculty at affiliated institutions play a valued role in supporting the college’s mission in Qatar by overseeing the clinical education of WCM-Q students and contributing to our research programs. During the academic year 2019-2020, 51 colleagues from Hamad Medical Corporation (HMC), the Primary Health Care Corporation (PHCC), Aspetar, Sidra Medicine, and Qatar Foundation (QF) received academic appointments at Weill Cornell Medical College, four of them at senior level ranks. Among the new faculty, we welcomed Dr. Mohammed Ahmad Al-Hijji (HMC), a graduate of WCM-Q who joined the affiliated faculty after completing his training in cardiology.

In addition, during this academic year, nine faculty members achieved promotion:

- Dr. Abdul Latif Mohamed Al Khal (HMC), promoted to professor of clinical medicine
- Dr. Noora Al-Hammadi (HMC), promoted to associate professor of clinical radiation oncology
- Dr. Nidal Ahmed Asaad (HMC), promoted to associate professor of clinical medicine
- Dr. Ibrahim Mohamed Fawzy Hassan (HMC), promoted to associate professor of clinical medicine and associate professor of clinical genetic medicine
- Dr. Kulsoom Junejo (HMC), promoted to assistant professor of clinical surgery
- Dr. Aisha Larem (HMC), promoted to associate professor of clinical otolaryngology
- Dr. Suruchi Mohan (Sidra Medicine), promoted to Assistant Professor of Clinical Obstetrics and Gynecology
- Dr. Nagham Dhiaa Sadik (HMC), promoted to assistant professor of clinical medicine
- Dr. Khaleel Mohammad Khaleel Salameh (HMC), promoted to assistant professor of clinical pediatrics

Activities and Events

Faculty orientation

In September 2019, WCM-Q hosted its annual faculty orientation for affiliated faculty. The event attracted more than 41 physicians with recent WCMC faculty appointments. The goal of this orientation is to help new faculty feel more connected with the college and promote faculty success. The program introduced new faculty to the many resources the college provides. Attendees had the opportunity to meet key senior leaders as well as other newly appointed colleagues and explore teaching and research opportunities.

Luncheon to honor promoted faculty

In September 2019, Dr. Javaid Sheikh, dean of WCM-Q, and Dr. Robert Crone, the then vice dean for clinical and faculty affairs, hosted a recognition luncheon to honor the 11 faculty members from WCM-Q, HMC, Sidra, and Aspetar promoted during the previous academic year. The event, that was attended by faculty and staff, aimed to recognize the faculty achievements as well as facilitate communication and collaboration between faculty from the different institutions.

WCM-NY and WCM-Q faculty affairs annual meeting

The annual meeting in New York took place in February 2020. In addition to meeting with several department chairs and administrations to discuss how to support faculty applying for promotion better as well as strategies to improve appointment and promotion processes, Dr. Alicia Tártalo, assistant dean for clinical and faculty affairs and Dr. Fatimah Isa, associate director for clinical and faculty affairs hosted the traditional appreciation luncheon, which was attended by Dr. Jane E. Salmon, WCM associate dean for faculty affairs and 44 other colleagues from WCM departments, divisions, and centers.
As part of its tripartite mission WCM-Q is committed to conducting cutting-edge research focused on the health needs of Qatar, and to augment Qatar’s technical and human capacity to perform and sustain biomedical research in support of a knowledge-based economy. WCM-Q strives to achieve these goals in close partnership with partner biomedical stakeholders in Qatar, toward a common goal and by consolidating resources and knowhow. The specific focus of the WCM-Q research effort has been to improve our understanding of disease factors specific to the local population, including obesity/metabolic syndrome/diabetes and neurogenetic abnormalities, and to enable more efficient healthcare delivery by ushering in the era of precision medicine in Qatar.

The research effort at WCM-Q has continued to enjoy significant success this year, with prominent findings in the fields of diabetes, cardiovascular disorders and human metabolism. This includes fundamental discoveries that underpin the basic functions of the human body. Studies conducted into basic science include the molecular mechanisms of disease and translational and clinical research findings aimed at improving health and healthcare throughout the region.

An institution is judged upon the quality of the research it conducts and the studies which it publishes. WCM-Q faculty have also been exceptionally productive, especially for a young research program, with more than 1,200 papers published to date since 2010, garnering over 46,000 citations and leading to an institutional h-index of 80.

In support of the visions of the State of Qatar and Qatar Foundation (QF) to translate research products into applied commercially viable solutions for the benefit of the local population, WCM-Q faculty have been involved in three startups and WCM-Q has executed six industry-sponsored research agreements. In addition, we are in discussions with commercial partners for potential commercialization leads.

To support local research and promote scientific collaborations, our state-of-the-art core laboratories have been functioning as national cores available to QF and all other national stakeholders. The cores include expertise in microscopy, histology, flow cytometry, miRNA, biostatistics, clinical research support, genomics, and proteomics.

Administration:

WCM-Q currently has 25 active research laboratories investigating areas ranging from basic molecular and cellular pathways to translational and clinical projects, including research into some of the most pressing health issues facing Qatar and the wider region, such as diabetes, obesity and neurogenetic abnormalities. Nine central core laboratories support the research effort, providing a range of cutting-edge expertise and platforms, including deep phenotyping of clinical cohorts. The cores comprise: genomics; imaging; basic; proteomics; bioinformatics & metabolomics; miRNA; biostatistics; clinical research support; and a vivarium.

FY20 is closing with more than 130 employees - including 22 non-faculty (postdoctoral and research associates). The majority of employees in the research division are hired locally and trained in our labs. In line with WCM-Q’s commitment to supporting human capital development in Qatar, 215 research specialists and clinical research coordinators have been trained since 2009 as well as more than 400 volunteers and visiting researchers have gained experience in our laboratories up to the close of fiscal year 2020.
Funding:
Our faculty have been quite successful at garnering extramural support for their research efforts. Over the past 11 years, we have obtained over $120M of competitively funded extramural funding through QNRF and other international institutions.

Collaborations:
Our functional and research model is based on a collaborative effort with national stakeholders to advance the agenda of Qatar on the healthcare, research and economic fronts. With that principle in mind, we continue to collaborate with local institutions and have active research programs with HMC, Sidra, QBB, QGP, ADLQ, QU and HBKU. This collaborative approach extends to supporting training efforts at local institutions with adjunct faculty appointments for WCM-Q faculty at QU and HBKU allowing them to host graduate students in WCM-Q labs to pursue their research activities.

WCM-Q designated as WHO Collaborating Center
Her Highness Sheikha Moza bint Nasser, chairperson of Qatar Foundation for Education, Science and Community Development, attended an event marking the official designation of a research group at WCM-Q as a World Health Organization (WHO) Collaborating Centre for combating COVID-19 and other selected infectious diseases in the region.

Under the new designation, the Infectious Disease Epidemiology Group (IDEG) at WCM-Q will support WHO’s regional and global efforts to promote health and wellbeing by providing scientific research and advice to inform policy decisions and public health programs in the Eastern Mediterranean Region (EMR). Led by Dr. Laith Abu-Raddad, WCM-Q professor of infectious disease epidemiology, IDEG has a special focus on viral hepatitis, which is especially prevalent in EMR countries and is one of the leading causes of deaths globally. The group contributed to efforts in combating the spread of HIV/AIDS, reproductive tract infections, and, more recently, COVID-19. Since the start of the COVID-19 pandemic, IDEG has spearheaded WCM-Q’s efforts to work closely with the Ministry of Public Health (MOPH) in Qatar and Hamad Medical Corporation (HMC) as they confront the infection’s spread, working with healthcare and policy experts to provide scientific technical analyses that has supported the COVID-19 national response.

The designation of the IDEG comes after a decade of high-profile studies on the epidemiology of infectious diseases on the national, regional, and international levels, which has helped inform public health policy and programs. The group will carry out activities in support of key WHO programs aimed at combating the spread of infectious diseases, specifically HIV/AIDS and hepatitis, that have a severe negative impact on the health and wellbeing of communities all over the EMR and beyond. This means that Qatar, thanks to its investment in biomedical research infrastructure and scientific human capital in recent years, will be host to a valuable resource working to promote the health and wellbeing of people right across the region and globally. This official designation of the IDEG as a WHO Collaborating Centre has been made possible by the support provided to WMC-Q by Qatar Foundation, the Ministry of Public Health and the visionary leadership of the State of Qatar.

Recognition/Awards:
Weill Cornell Medicine-Qatar was named the Best Research Office for 2019 at the 11th Annual Forum of Qatar National Research Fund (QNRF).

The honor was bestowed by QNRF on WCM-Q, a QF partner institution, for showing diligence in support of QNRF’s processes and research efforts.

WCM-Q was also awarded grants for nine research proposals for studies investigating breast cancer, diabetes, heart disease, dementia and the potential impact of climate change on the built environment in Doha, among others. In addition, WCM-Q will serve as a sub-awardee on five other research grants awarded to collaborating institutions.
Publications:

**WCM-Q study reveals role of chlamydia infections in infertility among women in MENA region**

Researchers at WCM-Q discovered unexpectedly high levels of chlamydia infection among the general population in the Middle East and North Africa (MENA), and higher levels still among women in the region who are infertile or suffer pregnancy complications.

The research, published in the prestigious UK journal *The Lancet Global Health*, reports that chlamydia infection appears to be responsible for a substantial proportion of infertility cases among women in this part of the world.

The study, ‘Epidemiology of Chlamydia trachomatis in the Middle East and North Africa: a systematic review, meta-analysis, and meta-regression’, was conducted at WCM-Q with funding from Qatar National Research Fund (NPRP 9-040-3-008). Funding was also provided by the WCM-Q Biomedical Research Program.

**WCM-Q teams with US pharma company to develop new cholesterol drug**

WCM-Q signed a research agreement with pioneering US biotechnology company Moderna, Inc. to develop a new cholesterol-controlling drug that could lead to radically improved treatments for type 2 diabetes and cardiovascular disease.

Under the agreement, Moderna, which is based in Cambridge, Massachusetts, will sponsor a study by WCM-Q researcher Dr. Hani Najafi to develop and test a new therapy for rebalancing levels of circulating blood lipids by effectively increasing the clearance of atherogenic lipids and enhancing the production of functional, anti-inflammatory lipid species.

Dr. Hani Najafi will develop and test a new therapy for balancing blood lipids.
WCM-Q research probes causal link between obesity and diabetes

Researchers at WCM-Q made new discoveries that could help explain a problem that has perplexed scientists for years – why do some obese people get type-2 diabetes while others do not?

The multi-institutional team of researchers, led by WCM-Q’s Dr. Nayef Mazloum, analyzed blood samples from 107 people resident in Qatar and identified significant differences in the metabolites of those who were obese but insulin sensitive and did not have type 2 diabetes compared to equally obese individuals with insulin resistance and/or type-2 diabetes.

The team comprised researchers from WCM-Q, Qatar Biomedical Research Institute, the Biomedical Research Center (BRC) at Qatar University, the Royal College of Surgeons in Ireland – Bahrain, and the University of Groningen in the Netherlands. The research, titled ‘Metabolic signature of obesity-associated insulin resistance and type 2 diabetes’, was published in the Journal of Translational Medicine.

Support for the study was received from QNRF (NPRP8-059-1-009) for this study, as well as the Biomedical Research Program of WCM-Q.

WCM-Q and HMC doctors publish book to boost physician communication skills

Doctors at WCM-Q and Hamad Medical Corporation (HMC) published a book to help medical students and postgraduate doctors enhance their ability to communicate with patients and pass their clinical exams.

Dr. Rayaz Malik of WCM-Q and HMC, Dr. Wanis H. Ibrahim and Dr. Mushtaq Ahmed of HMC, and Dr. Muhammad A. Waheed of Northampton General Hospital in England, who was formerly an HMC physician, drew on their collective experience of many years as practicing physicians and postgraduate examiners to write the book, titled History Taking and Communication Skill Stations for Internal Medicine Examinations.

History Taking and Communication Skill Stations for Internal Medicine Examinations is published by JP Medical Publishers in London and New Delhi and has the ISBN number 978-1-909836-99-0.

WCM-Q research helps identify body’s ‘detox’ genes

Researchers at WCM-Q contributed to an international study which identified 90 genes that together determine how the human metabolism works to allow the body to rid itself of toxins via the kidneys.

The laboratory of Dr. Karsten Suhre, director of the bioinformatics core at WCM-Q, helped to analyze vast amounts of genetic and metabolic data collected from the 1,600 participants in the study, which was led by the University of Freiburg in Germany. The study involved researchers at institutions in Austria, Germany, the US and Qatar and was published in Nature Genetics, a world-renowned biomedical research journal.

The research sheds light on the genes that influence metabolism and detoxification of the body via the kidneys and urine and whose roles in these processes were previously largely unknown.

The work of Dr. Suhre was supported by the Biomedical Research Program at WCM-Q.

WCM-Q project probes anti-cancer properties of plant-based compounds

A large-scale international research project led by scientists at WCM-Q painstakingly reviewed the anti-cancer properties of dozens of naturally occurring compounds found in plants.

Researchers at WCM-Q and contributing institutions in India, Korea, Taiwan, Slovakia, Poland and the Czech Republic analyzed thousands of research papers to uncover the tumor-busting effects of compounds found in a long list of plant or plant-derived natural products, including tea, berries, grapes, carrots, fungi, garlic, nuts, cardamom, turmeric, vitamin C, wasabi, mustard, lichen and many more.

The results of the investigations were published in a series of 17 articles (10 review articles and seven research papers) in a special issue of the journal Biomolecules that was commissioned by the publishers following the success of an earlier paper by WCM-Q’s Dr. Dietrich Büsselberg, which investigated the effects of various natural compounds on ‘triple-negative’ breast cancers, a highly aggressive, treatment-resistant form of the disease. That paper, titled The Yin and Yang of Natural Compounds in Anticancer Therapy of Triple-Negative Breast Cancers, was published in the journal Cancers in September 2018.

Dr. Büsselberg and his team were supported by NPRP grant (NPRP 11S 1214 170101) from the QNRF.

WCM-Q researchers Dr. Dietrich Büsselberg and Dr. Samson Mathews Samuel were central to a large-scale international research project investigating the anti-cancer properties of dozens of plant-based compounds.
WCM-Q researchers discover anti-cancer properties of a popular diabetes drug

Researchers at WCM-Q are hoping they may have found a therapy for multiple types of cancer using a widely-used diabetes drug.

Writing in the journal *Cancers*, the scientists believe that the drug metformin may have anti-cancer properties when used in conjunction with other therapies.

Dr. Samson Samuel, research associate in physiology and biophysics at WCM-Q and lead researcher on the paper, said the investigation was initiated after it was noticed that diabetics who have been using metformin to control their condition have lower instances of certain types of cancer, namely breast cancer, colorectal cancer, pancreatic cancer and prostate cancer, all of which are of particular concern in the Middle East.

Work began to examine the phenomenon in the laboratory using cells, and was supported by the NPRP grant (NPRP: 04–910–3–244), the Junior Scientist Research Experience Program grant (JSREP: 03–016–3–009), and BMRF grant and pilot project grant.

Researchers say COVID-19 could be stopped with even a moderately effective vaccine

Researchers at WCM-Q and Qatar University argued that even a moderately effective vaccine could be enough to stop the current coronavirus pandemic.

The study – Epidemiological impact of SARS-CoV-2 vaccination: mathematical modeling analyses – was funded by NPRP grant number 9-040-3-008 and NPRP grant number 125-0216-190094 from the Qatar National Research Fund, and was conducted by the Infectious Disease Epidemiology Group at WCM-Q in collaboration with Dr. Houssein Ayoub from QU.

Using mathematical modeling of COVID-19 spread in China, the scientists argue that a vaccine that reduces susceptibility to contracting the infection by more than 70 per cent is needed to eliminate the infection.

WCM-Q researchers help reprogram bacteria cells to deliver anti-cancer drugs

Researchers at WCM-Q have taken part in a landmark international study in which bacteria cells were reprogrammed to synthesize and deliver a potent anti-cancer drug.

The WCM-Q researchers worked with scientists at the University of Oxford and the University of Sheffield in the UK and the University of Greifswald in Germany to help construct reprogrammable cells from three species of bacteria, *Escherichia coli*, *Pseudomonas putida*, and *Ralstonia eutropha*.

In the study, titled ‘Chromosome-free bacterial cells are safe and programmable platforms for synthetic biology’, the research team used reprogrammed SimCells to synthesize catechol (a potent anticancer drug) from salicylic acid to inhibit lung, brain, and soft-tissue cancer cells in the lab. They also demonstrated that SimCells can be used as a ‘safe agent’ to manufacture and deliver therapeutic drugs because they cannot replicate and do not interfere with the host genome as they do not have chromosomal DNA.

Dr. Frank Schmidt, director of the proteomics core at WCM-Q, is one of the authors of the paper, which has been published in the Proceedings of the National Academy of Sciences of the United States of America (PNAS), a high-profile journal.

WCM-Q’s contribution to the study was supported by the Biomedical Research Program at WCM-Q, a program funded by Qatar Foundation.

WCM-Q research links proteins to diabetes

Researchers at WCM-Q and the University of Iceland identified a group of proteins that are involved in causing type 2 diabetes in humans.

Using advanced analysis techniques, the researchers measured over 4,000 different proteins in blood samples from more than 5,000 Icelandic individuals and identified 536 proteins that were associated with type 2 diabetes. They confirmed their findings with the results of the Qatar Metabolomics Study of Diabetes, a 2012 study of 374 human subjects conducted in Qatar by Hamad Medical Corporation and WCM-Q.

Following further analysis, the researchers determined that 15 proteins appear to have a causal role in the development of type 2 diabetes, while a further 23 proteins are markedly more prevalent in blood after the development of the condition.

The research was based on samples of elderly Icelandic individuals and was conducted in collaboration with scientists at the University of Iceland in Reykjavik, the Icelandic Heart Association, GNF Novartis in San Diego, California, and the Novartis Institutes for Biomedical Research in Cambridge, Massachusetts.

The study – titled “Circulating protein signatures and causal candidates for type 2 diabetes” – was published in *Diabetes*, the journal of the American Diabetes Association.

The research was supported by the Biomedical Research Program at WCM-Q, a Qatar Foundation partner university. Dr. Suhre’s work is also supported by QNRF grant NPRP11C-0115-180010 to the Qatar Diabetes Prevention Program (QDPP), a cluster of research projects aiming to understand the disease in greater detail and pave the way for new treatments.
Training and Outreach

WCM-Q remains committed to the training of Qatari nationals and long-term residents in all aspects of biomedical research, from the bench and the clinic through to administration and regulation.

This is accomplished primarily through three training programs designed to build capacity within Qatar and which give priority to Qatari nationals. These programs are:

The Biomedical Research Training Program for Nationals continues to train recent national graduates from local universities, with more than three dozen graduates to date. Nearly 100% continue their graduate studies after our program and/or obtain positions at biomedical institutions in Qatar. For this period, one of last year’s interns managed to get three publications after her training program ended and she was awarded a GSRA in September 2019 by QNRF.

The Research Internship for National College Students continues to attract national college students pursuing their studies in biomedical research-related fields. To date, over half a dozen students have completed the program.

Two Qatari nationals with a flair for science completed a summer of biomedical research training courtesy of the WCM-Q Research Internship for National College Students program. Hissa Al-Thani and Noora Abusheraida, both students at Qatar University, completed the program, which is designed to give Qatari nationals a solid grounding in the practical and administrative skills required for a successful career in research.

The Research Internship for National High School Students continues to inspire high school students to explore the field of research. This year we trained over a dozen national high schoolers in biomedical research. The training program covered workshops designed specifically for high school students to enhance their abilities in communication, note taking, planning, and they had several modules introducing them to the basics of biomedical research laboratories and research administrations.

As research is an integral part of physician training at WCM-Q the institution offers three programs that students can apply for to enhance their research skills and better prepare them for residency and their clinical career. These are:

Student Research Mentorship Program (SRMP). This year, six second year WCM-Q pre-medical students were awarded. The award aims to train students in securing labs and writing research proposals, give the students the tools needed to seek out research opportunities, and train students in approaching and resolving a research question rigorously. The SRMP provides funding for yearlong research projects in any of WCM-Q’s research laboratory. One student has already published a review article in the International Journal of Molecular Sciences and is in the process of writing a new one. Three other students have submitted a review to Frontiers in Nutrition.

Medical Student Research Award (MSRA). WCM-Q continues to provide opportunities for WCM-Q students to become involved in research before they graduate. This year, almost 80% of first year WCM-Q medical students applied to the MSRA to conduct research rotations internationally. Three of the students have published their study results in the Nature group and BMJ journals.

Presentation Award (PA). The Research Division also funds students to present the results of their research in professional meetings through the Presentation Award. To date, over a dozen WCM-Q medical students have disseminated their research findings at international conferences through this program which supports the ultimate publication of their research.

The Student Research Association has also been working hard to ensure that their fellow students are able to utilize research opportunities at WCM-Q by hosting journal clubs and organizing competitions for presenting research articles. The association presented awards for the SRA journal club competition during the research retreat that took place early in 2020.

External funding opportunities within Qatar (QNRF):

The High School Research Experience Program (HSREP) is a Qatar National Research Fund sponsored program designed especially for high school students in line with QNRF’s mission of supporting original research across all levels. This program aims to build a solid research foundation in students before they pursue their undergraduate studies by introducing them to research design and methodologies in various disciplines. WCM-Q received its first HSREP grant this year; under the grant, WCM-Q will train two high school students from independent government schools in Qatar.

The Undergraduate Research Experience Program (UREP) is also a QNRF sponsored program designed to give undergraduate students hands-on research experience. WCM-Q has been awarded 117 UREP grants since the UREP program was first launched. During the past year the UREP program enabled WCM-Q to provide research training to 28 students across eight projects.

Researchers at WCM-Q won 1st place in the 12th annual Undergraduate Research Experience Program, run by QNRF. The project, titled “Role of the Human Gut Microbiota in Autism Spectrum Disorders and Inflammatory Bowel Diseases” was led by Dr. Ghizlane Bendris, lecturer in biology. Her research team, comprised of two other faculty mentors and six students, was awarded first prize in recognition of the important achievements and outcomes of this project.
Events

To date, WCM-Q’s research division has hosted more than 200 departmental seminars, 14 international conferences and multiple local conferences and workshops focusing on diverse areas. The special research seminar delivered three presentations in FY 2019-2020 (see Table 1).

Table 1: Special Research Seminars

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<thead>
<tr>
<th>DATE</th>
<th>SPEAKER</th>
<th>TOPIC</th>
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<tbody>
<tr>
<td>August 28, 2019</td>
<td>Suzanna Schmeelk, Ed.D., DPS, Assistant Professor of Cybersecurity</td>
<td>Healthcare Information Security HHS-OCR</td>
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<tr>
<td></td>
<td>St. John’s University, New York (NY), USA</td>
<td>Data Breach Research 2018 - 2019</td>
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<tr>
<td>December 15, 2019</td>
<td>Dr Arend Kuester</td>
<td>Making Your Research Count!</td>
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<tr>
<td>February 5, 2020</td>
<td>Dr Jonathan Soboloff, Professor, Fels Institute</td>
<td>Roles of STIM-depndant Ca2+ Signals in T Cell</td>
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<td></td>
<td>for Cancer Research</td>
<td>Activation and Differentiation</td>
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<td></td>
<td>Professor, Dept. of Med Gen &amp; Mol Biochem</td>
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<td></td>
<td>Member, FCCC Blood Cell Development &amp; Function Program</td>
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Notable Research Events For FY20:

**1st Mini Symposium on Proteomics, September 11-12, 2019**
Proteomics is the large-scale study of all the proteins in a cell – a proteome is the complete set of proteins produced in an organism – and the two-day symposium saw researchers from a variety of organizations including Hamad Medical Corporation, Sidra Medical and Qatar Biomedical Research Institute gather to hear about the potential applications of proteomics and how advances in the subject is providing data that will impact upon many other areas of medicine and biomedical research.

The mini-symposium was organized by Dr. Frank Schmidt, assistant professor of biochemistry at WCM-Q, and director of the college’s Proteomics Core.

**1st Preceptorship Atopic Dermatitis, November 29-30, 2019**
The two-day Global Preceptorship Meeting brought in world-leading experts in the field of atopic dermatitis who are pioneers in this area, and whose contributions led to a new understanding and better treatment of this complex and most frequent inflammatory skin disease. The meeting featured interactive discussions about the pathophysiology, the diagnosis, assessment and complex therapies of Atopic Dermatitis, and discussed means to improve the quality of life of the affected patients.

The event was organized by Dr. Alice Abdel Aleem, assistant professor of research in neurology, and assistant professor of research in neuroscience at WCM-Q, and consultant in clinical genetics at Hamad Medical Corporation. The conference was funded by a grant from Qatar National Research Fund, a member of Qatar Foundation, under its Workshop Conference Sponsor Program Cycle 16.

**10th Annual Research Retreat, February 22, 2020**
The retreat featured presentations from young and established researchers at WCM-Q who have built a significant portion of their career in Qatar with considerable success. This was followed by the poster session that featured close to 100 posters from students, research specialists, postdoctoral fellows and research associates at WCM-Q. The posters were judged by scientists from various institutions in Qatar, including Hamad Bin Khalifa University, Sidra Medicine, Carnegie Mellon University in Qatar, Anti-Doping Lab Qatar, Hamad Medical Corporation, Qatar Biomedical Research Institute, Qatar University and Qatar Foundation.

**Congenital Dystrophies–Neuromuscular Disorders Precision Medicine, January 11-13, 2020**
The three-day conference took place at Qatar National Conference Centre and involved experts from the region, Europe and the US lecturing on a variety of topics surrounding neuromuscular disorders, with particular reference to congenital dystrophies and myopathies. These conditions are prevalent in Qatar and the wider Gulf, with the conference also focusing on the potential for personalized medicines and new, emerging treatments as well as the challenges in implementing the therapies. The third day of the conference was open to the public and allowed members of the community and patients’ families to meet and discuss issues with the international experts and local physicians.

The event was organized by Dr. Alice Abdel Aleem, assistant professor of research in neurology, and assistant professor of research in neuroscience at WCM-Q, and consultant in clinical genetics at Hamad Medical Corporation. The conference was funded by a grant from Qatar National Research Fund, a member of Qatar Foundation, under its Workshop Conference Sponsor Program Cycle 16.

WCM-Q recently instituted the Mariam Astrolabi Award for Biomedical Research Advancement, an award for institutions and/or individuals who have had an indelible impact on advancing the biomedical research enterprise in Qatar, in support of WCM-Q efforts and mission. This year’s awardee was Dr. Asma Al-Thani, the founding dean of the College of Health Sciences at Qatar University and the founding director of Qatar University’s Biomedical Research Center (BRC) for her contributions to the establishment of both the Qatar Genome Project and the Qatar BioBank.

Dr. Alice Abdel Aleem organized the conference on congenital dystrophies, neuromuscular disorders and precision medicine.
Health is a shared responsibility; it matters to everyone and is the foundation of every society. The Institute for Population Health (IPH) takes pride in following the principle that health problems are best addressed by cooperative actions, approaches guided by experience and sound scientific research. The institute focuses on improving people’s health. There is more to a healthy population than just medical treatment and surgical procedures. It is important to look beyond the narrow lens of the medical field and consider lifestyle factors, the environment and other health determinants to achieve optimum health outcomes. IPH designs, develops and implements, and supports, when necessary, programs and activities to reduce premature mortality, prevent chronic disease, promote health and improve the quality of life for the population in the State of Qatar, the region and beyond. IPH guiding principles are aligned with the Qatar National Vision 2030 and its national strategy whereby IPH collaborates with local and global partners; has established innovative educational courses; engages in population health research; and empowers people and communities to enhance their capabilities aimed at health promotion and disease prevention.

**IPH Team Members**

- **Ravinder Mamtani, MD, MSc, FACPM, FACOEM, ABoIM, Dip ABLM**
  - Vice Dean for Admissions - Student Affairs, Population Health and Lifestyle.
  - Medicine, Professor of Population Health Sciences and Professor of Medicine (Center for Global Health)

- **Karima Chaabna, PhD**
  - Population Health and Communication Specialist and Instructor of Population Health Sciences

- **Anupama Jitesh, MSc, RD (UK)**
  - Project Coordinator

- **Samaah Chalil, BTech, MBA**
  - Administrative Coordinator

- **Sohaila Cheema, MBBS, MPH, CPH, Dip IBLM**
  - Assistant Dean and Assistant Professor of Population health Sciences

- **Amit Abraham, MD, MPH**
  - Project Specialist and Instructor of Population Health Sciences

- **Raji Anand, MBA**
  - Administration Manager

- **Huda Abdelrahim, GD Ed, BSc**
  - Senior Specialist, Center for Cultural Competence in Health Care, IPH

- **Sonia Chaabane, PhD**
  - Project Specialist

- **Yasmeen Kalverts, BBA**
  - Administrative Coordinator

- **Maha El Nashar, MA**
  - Manager, Center for Cultural Competence in Health Care, IPH

- **Sathyanarayanan Doraiswamy, MBBS, MD, DHealth, Dip IBLM**
  - Assistant Director
Educational Programs and Activities

Capacity Building Programs for Healthcare Professionals

IPH offers needs-based innovative continuing medical education (CME)/continuing professional development (CPD) programs for healthcare professionals in Qatar. Activities are learner-centric (didactic and interactive discussions) utilizing synchronous, asynchronous and hybrid approaches to address the needs of all learners. From 2014 to 2020, 1,843 healthcare professionals have attended and participated in IPH activities (Figure 1). Activities are designed and implemented by IPH and accredited by the Qatar Council for Healthcare Practitioners (QCHP) and/or Accreditation Council for Continuing Medical Education (ACCME). The CME/CPD credits which healthcare practitioners gain can also be utilized for re-licensure.

In 2019-2020, IPH offered 10 CME/CPD activities attended by health professionals (Figure 2). With the onset of COVID-19 in Qatar, all face-to-face CME/CPD activities from March 9, 2020 were postponed.
Lifestyle Medicine Interest Group - Qatar (LMIG-Q)

Evidence tells us that a vast majority of chronic diseases can be prevented, treated and often reversed with lifestyle measures such as healthy food, good nutrition practices, physical activity, stress management, good sleep hygiene, social connectedness and cessation of smoking and other risky substances, all of which are the core pillars of lifestyle medicine, an emerging discipline in healthcare. Dr. Ravinder Mamtani and Dr. Sohaila Cheema co-founded the Lifestyle Medicine Interest Group - Qatar (LMIG-Q). LMIG-Q supports and cultivates a community of dedicated professionals who strive to promote healthy behaviors and lifestyles to reduce the burden of disease and improve the health of future generations. Currently, LMIG-Q has over 400 members.

https://qatar-weill.cornell.edu/institute-for-population-health/lifestyle-medicine-interest-group-qatar

Certificate in Lifestyle Medicine

A cookery competition was held as part of Lifestyle Medicine Week 2019.

The Certificate in Lifestyle Medicine was designed to provide healthcare professionals with the knowledge to help chronic lifestyle related conditions.

To provide rigorous training, equip healthcare professionals with lifestyle medicine education (knowledge and skills) and competencies to aid in the prevention, evaluation and management of lifestyle-related chronic health conditions, which are currently the leading causes of premature mortality around the world, IPH developed and implemented a 60-hour Certificate in Lifestyle Medicine course. It consists of a 30-hour, five-day face-to-face component and an asynchronous 30-hour online component consisting of the Foundations of Lifestyle Medicine Board Review Course 2nd Edition course.

http://qatar-weill.cornell.edu/event/certificate-in-lifestyle-medicine
International Board of Lifestyle Medicine Exam

The International Board of Lifestyle Medicine (IBLM) sets and maintains global standards for assessment and credentialing of physicians and other health professionals in lifestyle medicine (LM). Becoming board certified in LM signifies specialized knowledge in the practice of evidence-based LM and distinguishes a health professional as having achieved competency in LM. IPH supported the IBLM in offering a board certification examination in Qatar. The inaugural IBLM exam was held at Weill Cornell Medicine-Qatar on February 15, 2020 for healthcare professionals.

Understanding Basics of Health Research

This new two-day 14-hour workshop focuses on the key principles of health research. Topics include study design, introductory epidemiology and biostatistics, and research methodology. Undertaking the course allows healthcare professionals to improve their knowledge and skills to review, evaluate and interpret published research and available evidence. This enables them to practice evidence-based medicine ultimately leading to improved patient outcomes.

http://qatar-weill.cornell.edu/event/understanding-basics-of-health-research

Systematic Review: An Introductory Workshop

It is well established that systematic reviews provide invaluable guidance on evidence-based healthcare and medical practice and inform best practices in public health, research and education. This workshop introduces participants to the process of conducting a rigorous systematic review based on scientific principles, systematic methodology and standardized guidelines.

https://qatar-weill.cornell.edu/event/srw/

IPH Contribution to WCM-Q Pre-Medical and Medical Education

IPH faculty and staff contribute across the continuum of the premedical and medical curriculum at WCM-Q. Key contributions are highlighted.

- **Health and Disease: A Global Perspective - Foundation/Premedical**
  - Course Director/Faculty: Dr. Ravinder Mamtani and Dr. Sohaila Cheema
  - Faculty: Dr. Sathyarayanan Doraiswamy, Dr. Amit Abraham & Ms. Maha Elnashar

- **Area of Concentration Global Health (Medical)**
  - Mentors: Dr. Ravinder Mamtani and Sohaila Cheema
  - Co-mentors: Dr. Karima Chabna / Dr. Sathyarayanan Doraiswamy

- **Essential Principles of Medicine and Health Illness & Disease II (Medical)**
  - Dr. Ravinder Mamtani & Dr. Sohaila Cheema
  - Faculty: Dr. Sathyanarayanan Doraiswamy, Dr. Amit Abraham

- **Complementary and Alternative Medicine, Health Systems and Global Health, Epidemics and Physician Response**
  - Ms. Maha Elnashar & Ms. Huda Abdulrahim

- **Infectious Disease Outbreak: A Public Health Response (Medical)**
  - Course Sponsors/Faculty: Dr. Ravinder Mamtani & Sohaila Cheema
  - Faculty: Dr. Sathyarayanan Doraiswamy, Dr. Amit Abraham

- **COVID-19 Elective (Medical): Invited faculty: Global Health Implications of COVID-19 Dr. Sohaila Cheema**

- **Healthcare and Public Health Clerkship (Medical)**
  - Course Director & Associate Course Director/Faculty: Dr. Ravinder Mamtani & Sohaila Cheema
  - Faculty: Dr. Sathyarayanan Doraiswamy, Dr. Amit Abraham

- **End of Life Stage Orientation for students leaving for the US (Medical)**
  - Ms. Maha Elnashar & Ms. Huda Abdulrahim

- **Health and Disease: A Global Perspective - Foundation/Premedical**
  - Course Director/Faculty: Dr. Ravinder Mamtani and Dr. Sohaila Cheema
  - Faculty: Dr. Sathyarayanan Doraiswamy, Dr. Amit Abraham

- **Medical education orientation, Know your community and patient perspective, Bias and stereotyping, Cross-Cultural Communication at End of Life stage Orientation for students leaving for the US (Medical)**
  - Ms. Maha Elnashar & Ms. Huda Abdulrahim

- **Area of Concentration Global Health (Medical)**
  - Mentors: Dr. Ravinder Mamtani and Sohaila Cheema
  - Co-mentors: Dr. Karima Chabna / Dr. Sathyarayanan Doraiswamy

- **Systematic Review - An Introductory Workshop September 2019**

Drs. Karima Chabna, Sohaila Cheema, Sonia Chaabane and Amit Abraham, all from the Division of IPH, with participants of the Systematic Review.
IPH offered the following elective opportunities to WCM-Q medical students.

**An Evidence-Based Approach to Lifestyle Medicine**
A four-week clinical elective course supported and guided by the American College of Lifestyle Medicine is available to WCM-Q senior medical students. The elective provides knowledge and skills required in the prevention and treatment of lifestyle-related chronic disease.

**Population Health and Primary Care Perspectives Elective**
Senior medical students from WCM-Q and around the world are eligible to apply for this four-week elective. During the elective, students are introduced to various global health topics with a focus on population health and primary healthcare.

**Infectious Disease Outbreak: A Public Health Response**
During the COVID-19 outbreak in Qatar, IPH developed and implemented a new four-week elective for WCM-Q students titled, ‘Infectious Disease Outbreak: A Public Health Response’ in collaboration with the Ministry of Public Health (MOPH), Qatar. The elective focused on the public health approach in controlling epidemics and pandemics such as COVID-19 and influenza. This elective was designed to enable students to gain knowledge and skills required to control an infectious disease outbreak and experience working with the MOPH during the current outbreak, while also contributing to efforts to contain the spread of the virus. Seven third-year medical students enrolled in the elective.


**Global Health Opportunities for WCM-Q and non-WCM-Q Students**

**Global Health Service Learning Program:** Service learning is widely accepted as a form of experiential education which can provide students with the foundations for emphasizing the relevance and realities of global health. Students are able to engage in activities that address human and community needs together with structured opportunities intentionally designed to promote student learning and development.

IPH sponsored six first-year premedical students to participate in the Global Health Service Learning Program for two weeks in August 2019. Dr. Sohaila Cheema and Dr. Amit Abraham accompanied the students. The service learning primarily took place at an Orthopedic & Rehabilitation Hospital in Ho Chi Minh City, Vietnam. Students also had the opportunity to work alongside special needs children. The students were able to examine the healthcare system in a lower-middle-income country, develop medical knowledge commensurate with their level of experience and education, identify challenges associated while working with special needs children & develop understanding of a new culture and the working environment.

https://qatar-weill.cornell.edu/institute-for-population-health/education/detail/global-health-service-learning-program
The Global Educational Exchange in Medicine and the Health Professions (GEMx) is a worldwide partnership of exchange in medical education that connects medical schools, students and faculty worldwide administered by the Educational Commission for Foreign Medical Graduates (ECFMG), USA. WCM-Q is a partner school with GEMx. Dr. Ravinder Mamtani is the past chair of the GEMx Advisory Committee, while Dr. Sohaila Cheema serves as the manager for the GEMx program at WCM-Q.

http://qatar-weill.cornell.edu/institute-for-population-health/education/detail/gemx

In September 2019, IPH welcomed a 6th year medical student from Ain Shams University in Cairo to the college through GEMx. Mohamed Wafa Khoudeir, originally from Syria spent four weeks at WCM-Q taking the population health and primary care perspectives elective course.


Invited Presentations

IPH faculty and staff were invited by entities in Qatar/internationally to present on various topics for healthcare professionals in 2019-2020 (Figure 3).

Serving the pandemic crisis: Stress and lifestyle management
Dr. Ravinder Mamtani
University of Delhi Webinar
Jun 27, 2020

The evolving face of the COVID-19 pandemic
Dr. Ravinder Mamtani
WCM-Q Division of CPD – COVID-19 Live Webinar Clinical Series
Jun 24, 2020

Health and Well Being and Public Health and Well Being
Dr. Sohaila Cheema
Virginia Commonwealth University-Qatar HUSI 491 Wellbeing course
Sep 11 & Sep 18, 2019
Jan 13 & Feb 3, 2020

Introduction to Emotional intelligence
Ms. Maha Elnashar & Ms. Huda Abdelrahim
Neonatal Intensive Care Women Wellness & Research Center, Hamad Medical Corporation
Dec 16, 2019

Evolving face of Public Health & Public Health Aspects of Nutrition
Dr. Ravinder Mamtani
Communication in Public Health Contexts
Dr. Sohaila Cheema
PHC-C Community Medicine Residency Seminars
Dec 5, 2019

An Evidence-based approach to complementary and alternative medicine and its promise
Dr. Ravinder Mamtani
Hamad Medical Corporation – Internal Medicine Grand Rounds
Nov 17, 2019

Panel discussion: Global public health issues and strategies for the future
Dr. Ravinder Mamtani
Qatar Public Health Conference
Nov 18, 2019

Workshop on Lifestyle medicine. New methods for healthcare delivery
Dr. Ravinder Mamtani, Dr. Wayne Dysinger and Dr. Sohaila Cheema
Qatar Public Health Conference
Nov 18, 2019

An Evidence-based Approach to Acupuncture
Dr. Ravinder Mamtani
Aspetar Tuesday Lecture Series
Sep 17, 2019

The Institute for Population Health is concerned with educational activities, research initiatives and community health awareness to improve the health of all people in Qatar.
A. Research

IPH’s research program adheres to and advocates for a robustly evidence-based approach to population health, both in the State of Qatar and in the wider region.

Utilizing various methodologies and diverse analytical tools, IPH conducts rigorous population-based health-related research with the ultimate aim of producing reliable data which is beneficial to policymakers, clinicians, educators and researchers.

Recently IPH published a research paper in *Scientific Reports*, an open access journal belonging to the prestigious Nature group of publications titled ‘Physical activity and sedentary behavior in the Middle East and North Africa: An overview of systematic reviews and meta-analysis’. This overview is the first to bring together the available evidence on sedentary behavior and physical activity and will serve as a benchmark for epidemiologists and public health interventionists. The study estimates that about 49% of adults and 75% of the youth population are not sufficiently active as per the international guidelines for physical activity and suggests a lower participation in physical activity by the youth in comparison to adults in the region. Additionally, more males engage in sufficient levels of physical activity compared to females.
Local and International Research Presentations by IPH Faculty/Staff

**Conference: International Conference on Medical Education (ICME) 2019, Islamabad, Pakistan**  
**Date:** Oct 21, 2019  
**Oral Presentation Title:** Assessing Effectiveness of Student-Centered Active Learning Classroom Strategies to Enhance Student Engagement and Learning  
**Authors:** Sohaila Cheema, Rachid Bendriss, Ravinder Mamtani

**Conference:** 11th World Congress of the International Society for Developmental Origins of Health and Disease, Australia (DOHaD 2019)  
**Date:** Oct 22, 2019  
**Poster Title:** Variations of Physical Activity and Sedentary Behaviors in The Middle East and North Africa: A Systematic Overview, Meta-Analysis, and Evidence Gap Mapping  
**Authors:** Sonia Chaabane, Karima Chaabna, Amit Abraham, Ravinder Mamtani, Sohaila Cheema

**Conference:** 10th Annual Research Retreat, Weill Cornell Medicine-Qatar, Doha, Qatar  
**Date:** Feb 22, 2020  
**Poster Title:** Sex-Specific Differences in the Prevalence of Diabetic Microvascular Complications among Non-Smokers in Qatar  
**Authors:** Amit Abraham, Sohaila Cheema, Ravinder Mamtani, Zirie M, Jayyousi A, Albert B Lowenfels, Patrick Maisonneuve

**Conference:** Qatar Public Health Conference (QPHC) 2019  
**Date:** Nov 18, 2019  
**Poster Title:** Dietary Habits and Physical Activity Levels of University Students in Education City, Qatar - A Cross-sectional Study  
**Authors:** Amit Abraham, Karima Chaabna, Tahnim Mushannen, Wajhah Yousuf, Abdullah Tom, Hania Ibrahim, Ravinder Mamtani, Sohaila Cheema

**Conference:** Ottawa 2020 Conference, Kuala Lumpur, Malaysia.  
**Date:** Feb 29, 2020  
**Poster Title:** Assessing effectiveness of an introductory workshop on systematic review for healthcare professionals.  
**Authors:** B. Astle, Cheema S, A Dougherty, A. Moore, S Matthews, I.N. Opara

**Conference:** CUGH 2020 Conference, Washington, DC, USA (Conference cancelled due to Covid-19)  
**Date:** April 18-20, 2020  
**Poster Title:** Assessing Usage and Perceived Effectiveness of the Interprofessional Global Health Competencies Tool Kit  
**Authors:** B. Astle, Cheema S, A Dougherty, A. Moore, S Matthews, I.N. Opara
B. Community Initiatives

IPH contributes towards building a healthier population in Qatar and participates in educational and community outreach programs aimed at health awareness and promotion, wellness, lifestyle health, disease and injury prevention. In recent years, 7605 attendees comprising students, corporates and the larger Qatar community have benefitted (see Figure 7).

In 2019–2020, IPH community outreach programs benefitted 1,940 attendees including Education City faculty, staff, students and their families, corporate entities. Awareness on topics related to healthy nutrition, road safety and lifestyle medicine were conducted (Figure 8).

<table>
<thead>
<tr>
<th>Theme</th>
<th>Activity</th>
<th>Approximate numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Healthy Nutrition</td>
<td>Education City Health and Wellness Fair</td>
<td>80</td>
</tr>
<tr>
<td></td>
<td>Indian Women's Association</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>Medicine Unlimited</td>
<td>600</td>
</tr>
<tr>
<td>Lifestyle Medicine</td>
<td>6th Institute of Chartered Accountants of India Forum</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td>Lifestyle Medicine Week</td>
<td>345</td>
</tr>
<tr>
<td>Road Safety</td>
<td>Newton British Academy</td>
<td>550</td>
</tr>
</tbody>
</table>

Figure 7

Figure 8 - IPH Face to Face Community Outreach 2019-2020

Attendees

<table>
<thead>
<tr>
<th>Year</th>
<th>Attendees</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013-2014</td>
<td>1000</td>
</tr>
<tr>
<td>2014-2015</td>
<td>1365</td>
</tr>
<tr>
<td>2015-2016</td>
<td>2485</td>
</tr>
<tr>
<td>2016-2017</td>
<td>3252</td>
</tr>
<tr>
<td>2017-2018</td>
<td>4713</td>
</tr>
<tr>
<td>2018-2019</td>
<td>5710</td>
</tr>
<tr>
<td>2019-2020</td>
<td>7650</td>
</tr>
</tbody>
</table>
Additionally, IPH utilizes website, email campaigns and social media to enhance health awareness and boost engagement with the audience in Qatar and internationally. In keeping with its broader mission, IPH uses a multi-channel approach to reach out to local, regional and global communities across various demographics for health promotion. IPH launched its presence on social media in 2019 and has seen a steady growth in its following (Figure 9).

COVID-19 awareness

IPH utilized social media and e-newsletters for community outreach to disseminate credible information to create awareness about the novel coronavirus pandemic to help mitigate the spread of the virus. IPH content guides the public to navigate and access trusted and reputable sources for helpful tips to manage and adapt their lifestyle to this unprecedented situation.

https://qatar-weill.cornell.edu/institute-for-population-health/community/covid-19-awareness

#StayHome#StaySafe Newsletters

IPH launched a weekly newsletter beginning March 29, 2020 entitled “#StayHome#StaySafe”. To date the newsletters have covered a wide range of topics to help people deal with issues related specifically to the COVID-19 pandemic.

https://qatar-weill.cornell.edu/institute-for-population-health/community/covid-19-awareness/newsletters

The IPH team reinforce the ‘Stay home, stay safe,’ message.
Other Community Engagements

Center for International and Regional Studies (CIRS)-Georgetown University Qatar

Drs. Mamtani and Cheema spoke to CIRS as part of their Expert Insight series on the impact of the coronavirus pandemic on lifestyles, and vulnerable populations, and healthcare systems.

FM 107 Urdu Radio Qatar - Qatar Media Corporation

Dr. Sohaila Cheema was invited by FM 107 Urdu Radio Qatar in March 2020 to raise awareness about the novel coronavirus and COVID-19 disease. During the session, Dr. Cheema also took live questions from the community.

Webisode: COVID-19-Fighting the pandemic

Dr. Ravinder Mamtani recorded a session for the public in a webisode on COVID-19 – Fighting the pandemic. He highlighted the public health aspects of how we can fight the pandemic together.

Road Safety Awareness

In November 2019, Dr. Sohaila Cheema and Dr. Sathyanarayanan Doraiswamy from IPH visited Newton British Academy - Barwa City, speaking to 400 primary school students, and then 150 secondary school students, about the importance of road safety.

Nutrition Awareness

• The IPH team interacted with the Indian Women’s Association on Being Food Smart: Let’s Get it Right! Dr. Sohaila Cheema spoke about healthy eating and the importance of reducing the amount of fat, sugar and highly refined carbohydrates in food in order to prevent obesity and associated illnesses like heart disease, diabetes, high blood pressure and cancer.

• The Health and Wellness Fair is organized by the universities of Education City to raise awareness about health-related issues among students, staff and faculty. IPH designed two activities for the fair which took place at Carnegie Mellon University - Qatar: one to equip participants to read and interpret nutrition labels; and the other to comprehend the sugar content of commonly consumed food items.

• IPH interacted with 600 high school students and their families during Medicine Unlimited 2019. Participants were informed about healthy food choices, appropriate food portions, what is healthy snacking and how to read food labels.

Lifestyle Medicine

• Dr. Ravinder Mamtani addressed an audience of nearly 300, comprising dignitaries & guests, chapter members, senior finance professionals, sponsors representatives & students at the 6th International Conference by Doha Chapter of Institute of Chartered Accountants of India in November 2019. Dr. Mamtani spoke about Lifestyle Medicine: An Inspirational Trend for Optimum Health.

• Dr. Mamtani also spoke at the Qatar Petroleum: Occupational Health & Wellness Forum 2019 on the topic Lifestyle Medicine and Its Promise in the Workplace.

• IPH organized the Lifestyle Medicine week in November 2019 for Education City students, faculty, staff and their families to create awareness about the need for making good lifestyle choices. This year there were sessions on quitting smoking and other addictive substances, a fun team-based trivia quiz to improve connectedness, and a workshop on the power of laughter and yoga to help one relax and relieve stress. The ‘Walk for Life’ was held at Qatar Foundation’s Oxygen Park, and once again demonstrated the ease in which everyone can engage in moderate exercise for at least thirty minutes a day. New for this year was the Cornell Super Chef competition, which saw teams battle it out to make the best salad using a variety of greens, vegetables, nuts, oil and vinegar.
IPH representation on local, national and international committees

<table>
<thead>
<tr>
<th>Committee/Membership</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Health Committee, Ministry of Public Health, Qatar</td>
<td>Dr. Ravinder Mamtani (member)</td>
</tr>
<tr>
<td>Public Health Implementation Group (PHIG), Ministry of Public Health, Qatar</td>
<td>Dr. Ravinder Mamtani (member) and Dr. Sohaila Cheema (designee)</td>
</tr>
<tr>
<td>Healthcare Practitioners Committee, Qatar</td>
<td>Dr. Ravinder Mamtani (member)</td>
</tr>
<tr>
<td>Advisory Board of the International Board of Lifestyle Medicine</td>
<td>Dr. Ravinder Mamtani (member)</td>
</tr>
<tr>
<td>Consortium of Universities for Global Health, Global Health Competency subcommittee</td>
<td>Dr. Sohaila Cheema (member)</td>
</tr>
<tr>
<td>Consortium of Universities for Global Health, Global Health Competency subcommittee, Research and Analytic taskforce</td>
<td>Dr. Sohaila Cheema (co-chair)</td>
</tr>
</tbody>
</table>

Sustaining Technical and Analytical Resources (STAR) is a five-year project of the Public Health Institute, supported by the United States Agency for International Development (USAID): Dr. Sohaila Cheema (member)

Center for Cultural Competence in Healthcare

The Center for Cultural Competence in Health Care (CCCHC) is an integral component of IPH that is led by Ms. Maha Elnashar and supported by Ms. Huda Abdelrahim. CCCHC is dedicated to promoting the practice and concept of culturally and linguistically appropriate healthcare in Qatar.

Education

CCCHC provides various cultural competence training sessions to WCM-Q students. The sessions are integrated into the premedical and medical curriculum. Through didactic lectures, group discussions, interactive exercises, and videos, students learn about the culture and its impact on healthcare, how to be sensitized to bias and stereotyping, how to explore patient’s perspective, and the community health beliefs & traditional healing practices.

Cultural Competence in Healthcare

This is a four-hour workshop for healthcare professionals. The main objective of the workshop is for healthcare professionals to understand the impact of culture and diversity in healthcare and learn how to communicate effectively when faced with communication barriers in healthcare settings. The workshop was offered twice this year and 26 attendees benefited from the training. Since its initiation, 333 participants have attended this workshop.

Bridging the Gap Medical Interpreters Training

Since 2012 CCCHC has offered this 40-hour course biannually to train bilingual/multilingual professionals to overcome language and cultural barriers in healthcare services to the diverse community of Qatar. To date, 16 offerings have trained 332 medical interpreters representing over 20 languages. The BTG program has contributed to a unique pool of trained medical interpreters which can be hired by healthcare institutions in Qatar.

- 19 workshops hosted to-date
- 333 attendees
- 16 courses offered to-date
- 332 trained medical interpreters
- 23 languages

Arabic (228), Amharic (3), Bengali (2), Bosnian (1), French (13), Farsi (2), German (2), Hindi (22), Indonesian (4), Italian (1), Japanese (1), Nepalese (2), Malayalam (18), Korean (3), Mandarin (3), Punjabi (1), Romanian (1), Sinhalese (1), Somali (1), Tagalog (9), Tamil (6), Tigrinya (1) and Urdu (7).
Mastering Emotional Intelligence (MEI) - Level 1 and 2

MEI - Level 1 is a 10-hour training course which was initiated in 2018. This course is designed for all healthcare and educational professionals. The course helps individuals to enhance their skills on managing their emotions and behaviors (self-awareness), learn how to handle emotional triggers (self-management), reflect on social awareness and establish healthy social relationships. After five successful offerings of the first level, CCCHC developed and implemented the MEI - Level 2 course in February 2020. This is an advanced course built on the knowledge and skills learned in MEI - Level 1.

https://qatar-weill.cornell.edu/event/mastering-emotional-intelligence-level-2

ISPCAN workshop

The International Society for The Prevention Of Child Abuse & Neglect’s international conference is an international congress that focuses on spreading awareness and prevention of child maltreatment and domestic violence. Maha Elnashar and Huda Abdelrahim presented a workshop with Dr. Amal Khidir at this conference on February 15, 2020 titled ‘How to design and deliver a workshop in Arabic language.’ The workshop was delivered in Arabic.

Communication Skills Training at Hamad Medical Corporation

This activity is a Hamad Medical Corporation medical education communication skills training program. IPH’s participation by Maha Elnashar and Huda Abdelrahim, includes a two-hour module titled ‘Cultural Sensitivity and Communicating via Untrained Medical Interpreters.’ Twelve sessions were conducted for HMC consultants and specialists from September to December 2019.
1- Local recruitment:

• School visits: During the period October 2019 - March 2020, the OED team conducted 29 school visits to Qatari private, independent and international schools to present to more than 300 students about our educational programs and application requirements, and answer inquiries. Between March and June 30, one virtual school visit was conducted that included 13 students and two counselors.

• Open Houses: Between October 2019 and March 2020, the OED team hosted ten Thursday Open Houses accommodating around 150 participants on-campus. This event was converted to a virtual open house in April 2020 due to the COVID-19 pandemic (please see information below regarding virtual open houses).

• Doha Counselors’ Day: On October 3, 2019 we collaborated with EC branch campuses to host this event, during which 120 school counselors from across Qatar participated in panel discussions and information sessions regarding our educational programs.

• Discover Education City: On October 7 and 8, 2019 about 200 students and school representatives attended this event, which is a collaborative recruitment fair between all EC branch campuses.

• The International Year of the Periodic Table of Chemical Elements Symposium: In collaboration with Dr. Sheila Qureshi, associate professor of chemistry, this symposium was organized by the OED office hosting 60 students from ten schools in Qatar. The symposium included an open competition among high school students to highlight the impact of the invention of the periodic table on science and medicine in general.

• University Expo at Doha Convention Center: On October 16 and 17, this university expo endorsed by the Ministry of Education and Higher Education brought more than 260 student visitors to our booth.

2- Community outreach / Educational development programs:

2- Community outreach / Educational development programs:

Ongoing programs:

• The High School Medical Conference and Medicine Unlimited Community Event: Held on November 23, the conference hosted more than 500 participants and included professional development workshops for teachers (around 60 participants); a research competition (about 200 participants); and the Medicine Unlimited event. The latter showcased more than 20 science and activity tables with the participation of more than 25 faculty and staff members.

• Qatar Aspiring Doctors Program: This year-long program (October-March) offered academic support through online modules and face-to-face sessions to about 40 students, out of which 21 received completion certificates.

• Healing Hands Essay Competition: Four awardees who visited our NY campus on an educational trip in the summer of 2019, were hosted by the dean to receive their certificates of completion of the program on October 22, 2019. This year’s competition was open in February 2020, in which 17 students wrote about the impact of social media on health.

• University Expo at Doha Convention Center: On October 16 and 17, 2019, this university expo endorsed by the Ministry of Education and Higher Education brought more than 260 student visitors to our booth.
3- Regional outreach and school visits:

- School visits to Jordan, Oman, Morocco, and Kuwait were conducted in collaboration with EC campuses, allowing us to reach out to more than 20 regional schools.

- The Education City Regional Counselors’ Program took place on January 19 and 20 2020. This fly-in program hosted in collaboration between EC branch campuses included 21 international school counselors from 12 countries namely: Bangladesh, France, Kenya, Kuwait, Lebanon, Morocco, Oman, Rwanda, Somaliland, Tunisia and Turkey. The counselors attended admissions workshops, facilities visits and met with current students.

- The Uni Virtual Fair (new initiative): On April 19 and 20, the team participated for the first time in this university virtual fair, in which more than 20 regional and international higher education institutions participated.

4- New initiatives:

- Tabeeb Program: Offered exclusively for the Qatar Science and Technology Secondary School for Boys (a STEM school), and in collaboration with the Ministry of Education and Higher Education, this online program engaged 55 students from grades 10 and 11 as a first phase. The program offered academic support to the students, who in phase 2 of the program will be invited on-campus for hands on activities.

- The Science for All program: This is a faculty-led initiative to develop a series of videos to popularize science to the public in general, and students in particular. Dr. Ghizlane Bendriss is leading this project and is involving current students in the curation of content and production of videos that will be pushed through the OED social media platforms.

- All About Science Summer Camp: In collaboration with the National Museum of Qatar, this one-week program was hosted between June 28 and July 2, targeting high school students to discover the biology of the COVID-19 pandemic and better understand historical and current spread of the virus. Drs. Becky Cramer, Kuei-Chiu Chen and Dalia Zakaria are the faculty designing and delivering the curriculum of the program.

5- Other initiatives (virtual delivery):

- Virtual Open Houses every Thursday: Starting on April 16 2020, the first virtual open house was successfully conducted. Promoted via social media and mass emails sent to prospective students, more than 15 students participated in three virtual events up to June 30.

- Virtual office hours (via live chat): Starting on April 19, the office offered a two-hour live chat on daily basis, to engage students, parents and schools and respond to Q&As.

- Virtual Summer Program: Hosted during the period July 5- 9 via Zoom.
Office of Admissions

The success, reputation and visibility of WCM-Q and its programs continue to grow from strength to strength, leading to strong competition from applicants for a place at the college. The Office of Admissions report for the year 2019-2020 summarizes the admissions process, number of expected incoming students and their demographics for Fall 2020 entry, admission workshops, and the student information system utilized by the Office of Admissions.

Background

The six-year medical program integrates the two-year pre-medical curriculum and the four-year medical curriculum. The successful completion of this program leads to the award of the Cornell University Doctor of Medicine degree.

The sixth class of the six-year medical program joined WCM-Q in August 2020. The students will progress through the six-year medical program according to advancement criteria, which include academic performance, professionalism, and commitment to the profession of medicine.

The four-year medical curriculum component of the medical program continues to remain available to external applicants who have completed a baccalaureate program at other colleges or universities from around the world.

The WCM-Q foundation program, a one-year program available to academically talented Qatari students, allows the students to study the relevant subjects, in addition to helping them further develop their study skills and critical thinking abilities. After successfully completing the program students are promoted to the six-year medical program. The program has been very successful and continues to yield positive results.

Admissions process

WCM-Q seeks applicants who uphold the highest academic and personal standards. The Committee on Admissions at WCM-Q is tasked to identify the best-qualified applicants from diverse academic and personal backgrounds. Appointed by the dean of WCM-Q, the Committee on Admissions comprises members of the faculty. The dean also appoints student representatives and ex-officio members to the committee, as appropriate. The committee makes final decisions on the suitability of applicants for the respective programs. The Office of Admissions continues to support the Committee on Admissions in their holistic and balanced approach in selecting a diverse and academically well-prepared entering class.

Due to the COVID-19 WCM-Q, including its Office of Admissions, adjusted well to the public health crisis. Typically, candidates selected for admission interviews are required to attend an in-person campus interview. However, due to the pandemic, the admissions process was adapted this year from an on-campus approach to an online video conference platform. This allowed the Committee on Admissions and Office of Admissions to continue with the admissions process without any hindrance. Staff from the Office of Admissions also adjusted well to working remotely while maintaining the efficiency and smooth operations of the division, allowing applicants to continue communicating with admissions staff.

The admissions team selects only the very best candidates and operates on a need-blind basis.
Incoming students

During the 2019-2020 academic year, 450 applications for the six-year medical program were submitted for Fall 2020 admission. Of the 450 applications, the Committee on Admissions accepted 36 candidates directly into the program. A further 23 students were promoted from the foundation program into the six-year medical program.

As of September 2020, 50 students entered the six-year medical program starting in August 2020. In this class of 50 students, 11 nationalities are represented with approximately 72 percent making their home in Qatar. Of the 50 students, 25 are citizens of Qatar (50 percent).

Admission was offered to 25 candidates for the foundation program for Fall 2020 entry and 22 actually enrolled in the program. All 22 students are citizens of Qatar.

Direct admission to the four-year medical curriculum was very competitive for Fall 2020. Twenty-nine candidates submitted applications for admission to this component of the medical program. Of these, four were accepted. As of September 2020, one student enrolled in Fall 2020, a graduate of Carnegie Mellon University in Qatar.

Of the 73 new students who joined WCM-Q’s foundation, six-year and four-year medical programs, 48 (66%) are citizens of Qatar. The remaining students with diverse cultural and ethnic backgrounds come from other nations. This data indicates a strong and rising interest among citizens of Qatar to pursue a medical education at WCM-Q.

Admissions Workshops

During the 2019-2020 academic year, the Office of Admissions hosted five workshops for applicants applying for Fall 2020 to provide further additional guidance in the admissions process to the six-year medical program.

The workshop, ‘First Step Towards a Complete Application’ was held on October 29, 2019, November 5, 2019, and December 3, 2019 which covered the online application process. The total attendance for all three workshops was 86 applicants, of whom 24 were citizens of Qatar.

The workshop, ‘Next Steps Towards a Complete Application’ was conducted on January 6, 2020 and February 4, 2020. Topics discussed in the workshops included required documents for a complete admission file, tips about interviewing, and other relevant areas of common interest. The total attendance for these two workshops was 122 applicants, of whom 28 applicants were citizens of Qatar.

An additional workshop was introduced this year for high school counselors based in Qatar. The purpose was to help familiarize highs school counselors further with WCM-Q’s admission requirements and process. The workshop was held on January 7, 2020 where 10 high school counselors attended.

The Office of Admissions will continue to enhance the scope and quality of these workshops in the upcoming admissions cycles and provide a comprehensive understanding about the overall admissions process at WCM-Q.

Student Information System

The application software Jenzabar-EX, in strong collaboration with the Business and Education Solutions Team, continues to be utilized very effectively. The system allows WCM-Q to capture student information from when applicants makes initial inquiry all the way through to when they become graduates of the college.

The Office of Admissions continues to utilize the system to improve its efforts in providing appropriate guidance and timely processing of all applications. This in turn allows and facilitates timely and careful review of applications by the Committee on Admissions.

Farhan Aziz, director of admissions at WCM-Q
DIVISION OF STUDENT AFFAIRS

The Division of Student Affairs supports the academic, personal and professional growth and development of all WCM-Q students.

The core services provided by the division are coordinating and implementing orientation programs and special events, student academic and career counselling, personal counselling, health and wellness, registration and academic record-keeping in addition to administrative support to all pre-medical and medical student organizations. In partnership with Qatar Foundation, government and local organizations, the division also provides support to students seeking to secure residency permits, housing, local health insurance, international visas and exit permits.

The following is a description of support services, student life and community engagement for the year 2019-2020.

Academic counseling

Committed to creating a nurturing environment to optimize student learning, the academic counselors offer student academic, personal, and career support. They coordinate and provide vital workshops, seminars, and individual counseling with students to foster the development of study skills and effective time-management. Counselors also assist students with registration for standardized exams (MCAT and USMLE), develop their medical school interviewing skills and help them prepare personal statements and resumes. They also conduct structured academic advising committee meetings and work closely with the health and wellness team, referring students with personal and special learning issues as needed.

Events & activities

The events and activities team strive to provide educational opportunities outside the classroom to enrich the holistic growth and development of our students. They organize student’s major events around the year, starting with orientation to welcome new students, the dean’s honor list to celebrate their success and graduation to commemorate the end of their journey at WCM-Q.

The team supports the students’ council (MSEC-Q) and act as their advisor, they help them with their election process and their annual activities. The team is in charge of the club and organization annual registration process and supports clubs’ events, travel, charity campaigns and awareness sessions.

The Division of Student Affairs not only supports students academically and professionally, but also looks after their physical, emotional and social welfare.

The Student Affairs’ team helps support WCM-Q’s varied clubs and organizations.
**Health & wellness**

The health and wellness team provides various services to students such as individual counseling, diagnostic and learning assessments. It also develops, implements, and evaluates educational and preventive programs for students that promote self-awareness, effective thinking and reasoning, emotional intelligence, interpersonal effectiveness, multicultural competence, psychological wellbeing, and resiliency.

The team holds lots of events and activities that promote healthy and balanced life style all over the year.

In addition, students can also reach out to the new WCM-Q Employee Wellbeing Program which offers students free access to an online portal packed with information on various aspects of personal wellbeing: work, life skills, emotional health, physical health, family and managing people. It also has videos, podcasts, quizzes and other interactive content.

The Office of Student Affairs maintains a confidential crisis support helpline which is available for 24 hours a day, seven days a week.

**Health insurance**

Students who reside in Qatar are eligible for a government insurance card that enables them visit all government clinical centers. In addition, the Division of Student Affairs provides all students with local and international insurance that covers them if they get sick or injured. Both insurance plans cover the recommended vaccines.

**Disability accommodation services**

WCM-Q provides equal educational opportunities for all its students including those with disabilities. Students with disabilities can approach the director of student affairs with requests for accommodation. The process is confidential. Examples of accommodations considered include extra time for tests and assignment, quiet space testing and mobility access.

**Registrar’s Office**

The Office of the Registrar delivers high-quality business practices and provides accurate data management of academic records that support the student cycle from enrollment to post graduation.

The office is responsible for keeping and maintaining students’ and alumni records including grades, immunization, dean’s letters, course registration, diplomas and personal information.

It provides registration support to the pre-medical curriculum and medical curriculum programs including program scheduling, preparing grade reports, managing student policy database, and reporting statistical data. The office oversees student certification and document preparation for the ERAS (residency application).
Student Life

Orientation Programs

At the beginning of the academic year, foundation and first year pre-medical and medical students participate in an onsite three-day orientation program in August. The foundation and pre-medical students are welcomed to WCM-Q, and the medical students are introduced to the medical program. In addition to the onsite orientation program, students participate in an online CANVAS course in July, get introduced to the staff and faculty, review information about the program and submit the required documents.

Orientation activities are carefully coordinated to welcome the foundation and pre-medical students to the campus and to introduce them, the administration, faculty and staff to each other in person. With the collaborative efforts of the faculty, staff, student orientation leaders, and the Medical Student Executive Council in Qatar (MSEC-Q), the students engage in interactive sessions to develop pride in their new WCM-Q community and to understand their academic requirements. Students also participate in different activities and icebreakers that focus on teamwork, cooperation, cultural awareness and communication skills.

Medical students participate in a series of activities and seminars that introduce them to the medical curriculum, medical training, professionalism, academic integrity, the teacher-learner environment and other important aspects of the program. These sessions build stronger student-faculty/staff relationships and improve communication.

Students also participate in a community service activity that helps them begin the connection with their chosen profession and develop a deeper understanding of their role in treating patients, and not just their diseases.

For the past three years, the students have collected, sorted, and packed donations from the college for donation to Qatar Charities. Afterward, the hard work of our custodial staff and security guards is celebrated by hosting a meal in their honor.

The three-day orientation program culminates for the medical students with the annual Opening Exercises ceremony to celebrate the students’ entrance to the medical program. Students, family members, friends and colleagues are invited to this event.

Student Council and Clubs

The Medical Student Executive Council - Qatar (MSEC-Q) is the student governing body of the college and its aim is to support and advocate for students’ interests. The council is comprised of four representatives of each of the six premedical and medical classes, and two members from the Foundation Program. MSEC-Q members meet regularly with the management in the Dean’s Office, the Division of Student Affairs, medical and premedical programs to discuss future plans and issues of concerns that students might have. To foster transparency and communication between students and the administration, MSEC-Q hosts an annual Dean’s Town Hall with Dr. Javaid Sheikh.

MSEC-Q also hosts a number of annual events to celebrate the culture and diversity of the WCM-Q community such as the international night, faculty majlis, basant and the med gala.

In addition to the student council, WCM-Q has officially recognized 34 clubs, organizations, and interest groups which help students to meet their personal and professional interests in our diverse community.

Recognition of Academic Achievement

Each semester, full-time undergraduate students who have earned a GPA of 3.75 or higher are honored for their accomplishments. These students and their parents are invited to celebrate their academic excellence at a dinner with the dean of WCM-Q. Last academic year, six foundation students were recognized for their academic achievement for the year, whilst more than 30 students of the six-year medical program were proudly honored.

Financial Aid & Scholarship

WCM-Q selects students on the basis of merit, and the Committee on Admission screens, evaluates, and accepts students without knowledge of their ability to pay. Students who require financial assistance apply directly to QF’s financial aid program. Depending upon their citizenship, several avenues of financial assistance are available to WCM-Q students. Qatari students may be sponsored by Sidra Medicine, or by the Qatari government through the Higher Education Institute or the Military Armed Forces. Sponsored students are usually provided tuition assistance as well as a stipend to cover their books, supplies, and other costs. Non-Qatari students can also apply for Sidra sponsorship, but most are self-funded or apply to Qatar Foundation for financial assistance through an interest-free loan program established by the foundation. In addition, Qatar Foundation may offer a number of merit scholarships per year for students of the six-year medical program in the second-year or above. WCM-Q has established a scholarship program entitled Leadership in Medicine to benefit students who excel at both academic and extracurricular levels. The program offers two full and two half scholarships on an annual basis. Students who face financial problems can apply to Student Affairs to receive financial support from the Dean’s Discretionary Fund. In cooperation with the Dean’s Office, student applications are reviewed and support is provided based on students’ needs and funds availability.
Student Employment

Student Affairs offers paid tutoring jobs for students to teach their colleagues who need academic support in junior classes. These students are hired on an annual basis as part-timers, who get paid by the hour. In consultation with MSEC-Q, Student Affairs created the Student Employment Program in 2019 to help the needed students support their daily expenses and financial needs. The program also provides part-time job opportunities for students in the WCM-Q divisions.

International Service Learning and Exchange Programs

To expand students’ horizons and maximize their experience, Student Affairs organizes two experiences for students.

The Pre-Medical Service-Learning Trip in Tanzania

The 10-day trip to Tanzania is open to pre-medical students. The program aims to expose the students to different population health issues and allow them to engage in different service-learning opportunities within the local villages and hospitals in Tanzania. In addition, students explore the beautiful nature of Tanzania and learn about the local culture and customs.

The International Student Exchange Program

The international student exchange program aims to create opportunities for WCM-Q and other medical school students in the region.

This program is comprised of two trips; 10 medical schools from the region visit WCM-Q in the fall semester and the WCM-Q team visit one of the 10 medical schools during the spring semester.

In November 2019, a team of 18 medical students and nine faculty members from medical colleges in Iraq, India, Pakistan, Jordan, Palestine, Lebanon, Oman, Kuwait and Tanzania spent a week at WCM-Q as part of the International Exchange Program (IEP).

The team met with WCM-Q students and faculty and learnt about the college’s integrated six-year medical program, its cutting-edge teaching and research facilities. The program also provided an opportunity for WCM-Q students, faculty and staff to learn from the visiting students and their school programs.

The international students also had the chance to tour Education City and healthcare institutions around Doha, including Hamad Medical Corporation and two Primary Health Care Corporation facilities, Gharrafat Al Rayyan Health Center and Rawdat Al Khal Wellness Center.

In January 2020, a team of 10 first year medical students and two chaperones visited Jordan for one week as guests of the University of Jordan in Amman. During their visit, the team learnt about the institution’s medical curriculum, observed encounters between patients and students during clinical rotations, visited the university hospital and a stem cell therapy center, toured the medical school, and engaged in discussions about country- and region-specific population health issues. They also visited health centers in rural areas and met with local people. Under the supervision of qualified doctors, the students were able to carry out basic patient health examinations.
At the conclusion of each academic year, WCM-Q hosts the annual senior honors convocation at which the academic achievements of the graduating students are recognized. Awards are given based on outstanding performance in courses and clerkships as well as in research, public health, and community service.

At the graduation ceremony, which follows the senior honors convocation, graduating students take the Hippocratic Oath and receive their diplomas.

Due to Covid 19, the two ceremonies were merged into one online ceremony during which students took the Hippocratic Oath and were celebrated by the large community of WCM-Q, students’ families and friends.
The 2019-20 year has undoubtedly been overshadowed by the novel coronavirus pandemic, but by presenting huge challenges to continued operations, it has allowed the Office of Communications to demonstrate its resilience, resourcefulness and innovation. Not only has the department continued its day-to-day work through lockdown with the use of home-working and online conference apps, it has developed new programs and campaigns designed to provide the community with trusted information and facts during this uncertain time. Detailed below are the Office of Communications most significant operations of the 2019-2020 academic year.

**Coronavirus website**

In response to the COVID-19 pandemic and unsubstantiated rumours that spread across social media, the Office of Communications developed a microsite accessible from the main WCM-Q homepage, that provided clear, accurate and trustworthy information to the community.

Utilizing the expertise of WCM-Q’s faculty members, the Office of Communications organised and produced ten webisodes about various aspects of the virus including disease prevention, reducing anxiety, and diabetes and the disease.

Further information was provided about mask-wearing, the government’s Ehteraz app and safe travel, alongside articles about keeping children entertained during lockdown and the importance of creating routines while at home.

A section dealt with common myths and conceptions that could be found on social media and there was also a Q&A facility where the public could email a member of WCM-Q’s faculty with questions about the virus.

**Graduation**

With large gatherings banned to halt the spread of the novel coronavirus, the Office of Communications took WCM-Q’s 2020 graduation ceremony online, with the college determined to honor the hard work, commitment and academic excellence of its newest graduates.

Using video conferencing technology, speeches from senior faculty members and the class speaker were pre-recorded and students’ pictures broadcast to family friends, faculty and staff watching from Qatar and across the globe.

A microsite was developed and the graduation ceremony made accessible from the WCM-Q homepage for anyone wishing to watch it at a later stage.

Khayr Qatarna

Khayr Qatarna has gone from strength to strength and is now producing literally tons of food for the local market.

The program now has 17 greenhouses based at high schools in Qatar growing a diverse range of crops including tomatoes, cucumbers, green beans and peppers. Not only does this boost national food security and sustainability but the program also teaches students about agriculture, logistics, economics and healthy food. All profits are reinvested in the scheme and the food has been granted the status of ‘Premium Produce by the ministry of Municipality and Environment. The fruit and vegetables are distributed via 23 of the leading supermarkets around Doha.

As of 30 June 2020, the scheme had grown and distributed:

- 58.175 tons of cucumbers
- 19.993 tons of tomatoes
- 4.019 tons of peppers
- 7 tons of green beans
- 2.5 tons of broccoli
- 1.198 tons of leafy vegetables
- 1 ton of cherry tomatoes

Students help pack a crop of tomatoes for Khayr Qatarna.
More than 10,000 participants of all ages tuned out for the Color Run 2020.

Color Run

Doha was covered in color once again as The Color Run presented by Sahtak Awalan: Your Health First returned to the Qatar National Convention Centre.

A record-breaking turnout of more than 10,000 Color Runners completed the Happiest 5K on the Planet as they walked, ran, or skipped their way to the finish line on in their most colorful attire. One of the biggest events that Doha has ever seen, this edition of the Color Run was part of The Love Tour, featuring an all-new Super Zone and Foam Zone as part of the 5k course.

As always, the aim was to encourage more people to take part in sport and exercise and to demonstrate that anyone can get involved, whatever their age or level of fitness.

People of all fitness levels gathered for the warm up, before the first wave jetted off on the 5k course in clean white shirts, capes, tutus, socks and sunglasses before getting doused from head to toe in color.

At the finish line, runners were bursting with colors, energy, and pride as they collected their medals, before heading to the Finish Festival to celebrate with their friends, families and colleagues, enjoying the live music and games.

Qatar National Day

Sahtak Awalan – Your Health First once again helped people celebrate Qatar National Day, providing an interactive installation that proves exercise can be fun.

Your Health First was invited to participate in the Darb Al Saai celebrations inside the Qatar Foundation tent for the fifth time, having attracted tens of thousands of people in previous years. For 2019, Sahtak Awalan showcased its virtual reality sports machines, that both entertained visitors and encouraged them to take more exercise. A virtual reality rowing machine allowed visitors to experience rowing on a river and lake, while the cycling machine offered them the chance to cycle along mountain roads or at a velodrome.

Cross trainers gave them the chance to go up against previous participants to beat times or reps, and a giant snakes and ladders game gave the younger members of the family a chance to get involved. The virtual reality exercise machines proved particularly popular with children.

Your Health First is supported by its strategic partners: Qatar Foundation, the Ministry of Public Health, the Ministry of Education and Higher Education, the Ministry of Municipality and Environment and ExxonMobil.
National Sports’ Day

WCM-Q and the Office of Communications continued its support of Qatar National Sports Day, with one of the college’s doctors celebrating the occasion by running non-stop for 24 hours.

Dr. Arash Rafii-Tabrizi, professor of genetic medicine in obstetrics and gynecology, took on the grueling challenge to raise awareness of the benefits of running and healthy lifestyles in general.

Supported by Sahtak Awalan - Your Health First, WCM-Q’s public health campaign, Dr. Tabrizi set off from the Green Spine at Qatar Foundation at 4pm on Monday 10 February, finishing at the same spot at 4pm on Tuesday 11 February, having repeatedly run a lengthy route around Education City. He estimated he ran around 140km.

Dr. Tabrizi, who is an experienced ultra-runner, said his motivation was to highlight the amazing journey over the last 25 years of Qatar Foundation, an organisation that has made education a priority.

Your Health First also participated in National Sports’ Day at the Women’s Police Academy, taking virtual exercise machines to demonstrate the myriad ways of exercise that are available.

Back to School

WCM-Q’s Your Health First campaign worked with the Ministry for Education and Higher Education to ensure children returned to school with an understanding about the importance of health.

As part of the Ministry’s Back to School program, Your Health First distributed school bags, lunchboxes, water bottles, and activity books to children preparing for their first day back at school after the long summer holiday vacation.

The activity books explained the health benefits of a variety of different foods, helping parents and children plan meals to ensure they are nutritionally beneficial, while the water bottles remind children to stay sufficiently hydrated.

All of the gifts distributed had the Sahtak Awalan - Your Health First branding, which has become synonymous with high-impact health initiatives like Khayr Qatarna, the Color Run, Project Greenhouse and Yalla Natural.
WISH and WISE

Weill Cornell Medicine – Qatar took a prominent role in both WISE and WISH, showcasing the success of the college and encouraging the community to lead healthier lifestyles.

The WISE (The World Innovation Summit for Education) events came first and saw WCM-Q’s Office of Communications take its award-winning Sahtak Awalan campaign to Qatar Academy Al Wakra. During online sessions, third year students learned about the environment, Sahtak Awalan’s Khayr Qatarna greenhouses and how they are contributing to Qatar’s self-sufficiency and sustainability, and the agricultural cycle.

The event also supported the municipality of Al Wakra in their efforts to achieve sustainable development goals as set out by the UNESCO Learning Cities’ Network.

The World Innovation Summit for Health began with Doha Healthcare Week and Sahtak Awalan once again balanced the need for education with fun by launching its healthy lunchbox competition. Families were encouraged to use fresh fruit, vegetables, yogurts and wholegrains to create the most colorful, tastiest and healthiest lunch in Qatar. Photographs were then posted on social media. Hundreds of entries were received from families across Qatar with the best winning prizes.

During the week, WCM-Q’s Dr. Ravinder Mamtani, vice dean for student affairs-admissions, population health and lifestyle medicine, also lead an online session discussing nutrition and lifestyle. With lifestyle-related diseases like diabetes and heart disease among the biggest causes of premature death in the world, Dr. Mamtani discussed strategies to improve the community’s health.

For the WISH summit itself, which took place online from 15-19 November, WCM-Q hosted a virtual booth showcasing the college’s research successes, its faculty, students and its alumni. Office of Communications also demonstrated the college’s commitment to community health with the Your Health First campaign and the Khayr Qatarna program.

WCM-Q’s Office of Communications broadcast a film during the WISH conference that showcased the college’s research successes.

As part of WISE Sustainability Week, WCM-Q’s Office of Communications delivered virtual presentations to schools highlighting the need for sustainability.

WHAT IS KHAYR QATARNA?

Khayr Qatarna is part of a bigger campaign, Sahtak Awalan – Your Health First, which focuses on raising awareness about healthy behaviors, alongside educating the new generation about healthy habits and the nutritional values of vegetables and fruits.
Figures are as of September 2019, and reflect any attrition from incoming classes in subsequent years.
Students of WCM-Q come from across the world.
Leadership
Structure
# LEADERSHIP STRUCTURE

## CORNELL UNIVERSITY

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Role</th>
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<tbody>
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<td>Robert S. Harrison</td>
<td>Chairman, Board of Trustees</td>
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<td>Martha E. Pollack, PhD</td>
<td>President</td>
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<tr>
<td>Augustine M.K. Choi, MD</td>
<td>Dean, Weill Cornell Medicine Provost for Medical Affairs, Cornell University</td>
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<tr>
<td>Jeffrey Feil</td>
<td>Vice Chair</td>
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<tr>
<td>Jessica Bibliowicz</td>
<td>Chair, Board of Overseers</td>
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<td>Robert Appel</td>
<td>Vice Chair</td>
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<td>Barbara B. Friedman</td>
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<tr>
<td>Robert A. Belfer</td>
<td>Vice Chair</td>
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<tr>
<td>Sanford I. Weill</td>
<td>Chair Emeritus</td>
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<tr>
<td>Andrew Adair</td>
<td>Director, Facilities, Health, and Safety and Security</td>
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## WEILL CORNELL MEDICINE

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<tbody>
<tr>
<td>Javaid I. Sheikh, MD</td>
<td>Dean, Weill Cornell Medicine - Qatar</td>
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<tr>
<td>Ravinder Mamtani, MBBS, MD, MSc</td>
<td>Vice Dean for Student Affairs, Admissions, Population Health, and Lifestyle Medicine</td>
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<tr>
<td>Shahzad Jafri</td>
<td>Senior Executive Director of Administration</td>
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<tr>
<td>Marco Ameduri, PhD</td>
<td>Senior Associate Dean for Premedical Education and Education City Collaborative Curricular Affairs</td>
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<tr>
<td>Thurayya Arayssi, MD</td>
<td>Senior Associate Dean for Medical Education and Continuing Professional Development</td>
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<tr>
<td>Khaled Machaca, PhD</td>
<td>Senior Associate Dean for Research, Innovations and Commercialization</td>
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<tr>
<td>Bakr Nour, MD</td>
<td>Senior Advisor to the Dean</td>
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<tr>
<td>Nesreen Al-Rifai</td>
<td>Chief Communications Officer</td>
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<td>Omar Baki</td>
<td>Director, Human Resources</td>
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<td>Jamie Marie Gray</td>
<td>Director, Distributed eLibrary</td>
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<td>Sameer Kalash</td>
<td>Director, Finance and Business Services</td>
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<tr>
<td>Badar Khan</td>
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<td>Augustine M.K. Choi, MD</td>
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Abdel Aleem, Alice


Abraham, Amit


Abu-Raddad, Laith J.


Abhi Khali, Charbel


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Manyama, Mange


Mamtani, Ravinder


Manyama, Malyango


Malyango, Avelin

Concentrations of lipoproteins in infection causes changes in the Staphylococcus aureus bloodstream.


Sharkey, Rodney


**Suhr, Karsten**


