SYLLABUS

MIDDLE EAST MEDICAL ASSEMBLY
MEMA
2016
UPDATES

PRECISION MEDICINE: A NEW ERA TOWARDS PERSONALIZED HEALTHCARE
MAY 12 - 14, 2016 - AMERICAN UNIVERSITY OF BEIRUT

SYLLABUS
A Message from the Chairperson of the Assembly

On behalf of the MEMA 2016 Organizing Committee, I am honored and delighted to welcome you to the MEMA 2016 Updates at the American University of Beirut (AUB) which coincides with the 150th anniversary of AUB.

“Precision Medicine: A New Era towards Personalized Healthcare” is this year’s theme. Our program is rich with a variety of talks extending over three full days. Well-renowned national, regional and international speakers will be sharing their expertise in this new exciting field, novel to most of us. As such, the talks will focus on how this emerging concept will affect cancer treatment, nursing care, reproductive endocrinology and infertility, preventive medicine, cardiovascular disease and many other aspects of medicine. In addition to these talks, MEMA’s exhibit area will house several pharmaceutical and medical equipment companies and will open the opportunity for healthcare professionals to network with these supporters.

As the Chair of this year’s MEMA, I would like to give credit to all those who have worked with us in planning and organizing both the scientific program and supporting social arrangements. In particular, I thank the Chairs of the MEMA committees for their advice and ideas, the Continuing Medical Education Office and our sponsors for their invaluable support.

Again, welcome to MEMA 2016. In addition to you learning from us, we look forward to learning from your experiences and insights through our rich multidisciplinary program.

Anwar Nassar, MD
Chairperson – MEMA 2016
Professor of Obstetrics and Gynecology
Chairman – Department of Obstetrics and Gynecology
American University of Beirut Medical Center
Beirut, Lebanon
It is with great pleasure that I welcome you all to the Middle East Medical Assembly (MEMA) 2016 Updates held at the American University of Beirut. With all of your support and participation, this year’s MEMA looks to be an outstanding one, further strengthening the long-standing tradition of providing excellence in Medical Education throughout the region. This year, precision medicine is the main highlight of the program since it presents the latest revolution in the medical field and perhaps it is the most advanced field in healthcare that accounts for the individual variability in the genes, environment, and lifestyle of each person. It is with precision medicine that we seek to attain our vision and make significant strides in promoting disease prevention and offering highly effective targeted treatments.

MEMA is an integral part of the academic mission of our Faculty of Medicine and Medical Center and a proud part of our heritage in providing medical education to the region.

Although MEMA is a medical meeting rich in tradition and history, it is also one that is reflective of the changing needs of our communities and medical education. The MEMA Updates has taken on the form of a Global Health Forum covering numerous topics of extreme relevance to our local and regional populations including medical education and simulation, state-of-the-art genomic technologies, genetic epidemiology, pharmacogenomics, oncology, and cardiovascular diseases amongst others with the goal of presenting the latest updates and newest frontiers in precision medicine.

Under the guidance of our Continuing Medical Education (CME) Office, and the leadership of this year’s Chairman, Dr. Anwar Nassar, I am confident that this year’s MEMA Updates will build on MEMA’s historic role and lay the foundations for an ever evolving system of healthcare that seeks to improve health outcomes through innovative standards of care and practice.

I would like to thank all of this year’s participants and speakers from healthcare providers, policy makers, NGOs, experts, and the community at large for their support and engagement. To all of our international and regional participants, thank you for being a part of this year’s event and welcome to Lebanon and AUB.

MEMA provides an unmatched platform for the exchange of medical expertise in the region. Every attendee will have the opportunity to learn, share and shape the delivery of healthcare to patients across the entire region.

Thank you for joining us and I hope that your experience at this year’s MEMA is a rewarding one.

Mohamed H. Sayegh, MD
Raja N. Khuri, Dean - Faculty of Medicine
Professor of Medicine and Immunology
Executive Vice President of Medical Affairs
American University of Beirut
A Message from the President of the American University of Beirut

I am delighted to welcome all of you to the MEMA 2016 Updates. The annual Middle East Medical Assembly has a long and proud history of bringing together healthcare professionals and researchers to share ideas and explore topical issues in medicine since 1951.

This year’s MEMA is taking place at a special time in our history, as AUB is celebrating the 150th anniversary of its founding. In 1867, just one year after the university opened, the Faculty of Medicine was established and, in 1905, the School of Nursing was founded as the first of its kind in the region. Along with College Hall, the Old Medical Building was one of the first buildings on campus. Medical education and practice have been a primary focus of this university’s mission since its earliest days.

The tremendous history of the Faculty of Medicine began with the vision of three remarkable physicians and scholars. Cornelius Van Dyck taught pathology, biology, and chemistry, and in his spare time translated the Bible into Arabic and oversaw the astronomical observatory. John Wortabet taught pathology and anatomy and was also a skilled translator, producing an Arabic version of Grey’s Anatomy and an Arabic-English dictionary along with Harvey Porter. Finally, George Post was chair of surgery and the first person to use chloroform on a human patient in Lebanon. Post was also an accomplished architect and botanist, publishing an important reference work on the Flora of Syria and Palestine and creating the first herbarium in the region. These founding doctors were not only skilled physicians and committed educators, they were multi-talented Renaissance men who understood that the best medical education has a humanistic foundation.

From its founding to the current day, the history of AUB’s medical school and medical center is replete with physicians and educators who have made history by building healthcare capacity and knowledge in this country and beyond. AUB graduated its first woman MD in 1931, Adma Abu Shdeed, decades before most Ivy League universities even admitted women. In the same year, we graduated Zabih Ghorban, who came to AUB from Iran and later returned to his homeland to establish medical training schools, hospitals, and Shiraz University. Within Lebanon, AUB established the first residency program in 1942 and the first 24/7 Emergency Room in 1953. In the next decade, Edmond Shwayri performed the first renal dialysis in Lebanon and Ibrahim Dagher the first open heart surgery. More recently, AUBMC has opened cutting-edge programs and centers of excellence focusing on multiple sclerosis, women’s breast health, heart and vascular health, neurology and neuroscience, oncology and cancer care, and mental health, to name a few.

Now, as we look toward the future and to the realization of the AUBMC 2020 Vision, we are recommitting ourselves to innovation and boldness. The titans of the past are our inspiration but so also is our vision for the future; a future which must look beyond narrow disciplinary fields and take a broad and encompassing view of health sciences. In my inaugural address, I spoke about developing a sustainable global health sciences initiative that can be the pride of Lebanon and of the Arab world. Partnership and collaboration, both within and outside the university, will be imperative to this effort. I hope you will join us in this exciting venture as we continue to make history and work for the greater health and wellbeing of our broader community.

Fadlo R. Khuri, MD
President, American University of Beirut
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General Information
General Information and Accreditation

Overview
Precision Medicine is increasingly being recognized for the major contributions and advances it is currently bringing to patient care. The MEMA 2016 Updates will not only introduce the various innovative technologies currently in use in genomics, both at the diagnostic and research levels, but also will approach Precision Medicine from the clinical utility side. The topics will discuss the utilization of state-of-the-art pharmacogenomics and genetic testing in the patient care setting. The latter is of utmost importance for physicians to tailor targeted therapy according to the best clinical and genetic association that is under the best genotype-phenotype correlation for available therapies.

Highlights
- Update on state-of-the-art genomic technologies in research and diagnostics
- Update on precision medicine in healthcare: Genetic epidemiology and big data analysis
- Update on precision medicine applications: Pharmacogenomics, oncology, and cardiovascular diseases

Learning Objectives
At the end of this activity, participants will be able to:
1. Describe the clinical applications of genomics
2. Discuss the difference between germline mutations, somatic mutations, and epigenetic modifications
3. Explore the current uses of precision medicine and future applications

Target Audience
This annual scientific meeting has been designed for physicians in all specialties, especially in cardiology, endocrinology, family practice, gastroenterology, hematology oncology, pathology, pediatrics, pharmacology, radiology, surgery and women’s health, as well as nurses, nurse practitioners, pharmacists, dietitians, physician assistants, trainees, students and researchers.

Faculty Disclosure
In accordance with the Standards for Commercial Support issued by the Accreditation Council for Continuing Medical Education (ACCME), The Cleveland Clinic Foundation Center for Continuing Education requires resolution of all faculty conflicts of interest to ensure CME activities are free of commercial bias.

The following faculty members have indicated that they may have a relationship, which in the context of their presentation(s), could be perceived as a potential conflict of interest:

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<th>Faculty Name</th>
<th>Company</th>
<th>Interests</th>
</tr>
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<tbody>
<tr>
<td>Ahmed El Sohemy, PhD</td>
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<td>Board Membership Membership on advisory committee or review panels Ownership interest (stock, stock options)</td>
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<tr>
<td>Brian Ghoshhajra, MD</td>
<td>Siemens Medical Solutions, Inc.</td>
<td>Consulting</td>
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<tr>
<td>Moussa Mansour, MD</td>
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<td>Biosense Webster</td>
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<td>Samia Mora, MD</td>
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| Pfizer, Inc. | Consulting  
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| Amgen | Consulting  

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This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of The Cleveland Clinic Foundation Center for Continuing Education and the American University of Beirut Medical Center (AUBMC). The Cleveland Clinic Foundation Center for Continuing Education is accredited by the ACCME to provide continuing medical education for physicians.

The Cleveland Clinic Foundation Center for Continuing Education designates this live activity for a maximum of 17 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association for Category 2 credit.

Local Accreditation
MEMA also complies with the Lebanese Order of Physicians, Order of Nurses in Lebanon and Order of Pharmacists in Lebanon's Continuing Education guidelines.

Disclaimer
The information in this educational activity is provided for general medical education purposes only and is not meant to substitute for the independent medical judgment of a physician relative to diagnostic and treatment options of a specific patient’s medical condition. The viewpoints expressed in this CME activity are those of the authors/faculty. They do not represent an endorsement by The Cleveland Clinic Foundation. In no event will the Cleveland Clinic Foundation be liable for any decision made or action taken in reliance upon the information provided through this CME activity.

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Certificates - Eligibility and Distribution
Important Note: Kindly complete all necessary evaluation forms and hand them in to the registration desk at the time of certificate issuance. No certificates will be issued without completing all the evaluation forms of the sessions attended.

<table>
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<tr>
<th>Type of Certificate</th>
<th>Eligibility</th>
<th>Procedure</th>
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<tbody>
<tr>
<td>AUB Certificate of Attendance</td>
<td>All attendees and speakers are eligible for an AUB Certificate of Attendance.</td>
<td>To receive your AUB certificate of attendance, you are kindly requested to present your registration badge to the registration desk at the end of the activity. Your certificate will be issued immediately.</td>
</tr>
<tr>
<td>Lebanese Order of Physicians (LOP) Certificate</td>
<td>All attendees and speakers registered under the LOP are eligible for an LOP certificate.</td>
<td>To receive your LOP certificate, you are kindly requested to pass by the registration desk daily in the morning and afternoon to scan your badge. Your certificate will be added to your file at the LOP, and you can receive a copy from the CME Office in two months.</td>
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For further assistance or clarification, kindly pass by the registration desk.
AMA PRA Category 1 Credit™: Evaluation Form and CME Certificate

The course evaluation and CME certificates are available online. In order to receive AMA PRA Category 1 Credits™, please go to www.ccfcme.org/myCME to complete the course evaluation and print your CME certificate. Once you enter the site, please log in using the code: 02010615. The above code is active for 30 days following the symposium.

User Instructions:
If you are a first-time user of “MyCME,” you will need to create a six-digit password comprised of any combination of letters and/or numbers. This will become your permanent log in for future Cleveland Clinic “MyCME” programs.

1. Log in to www.ccfcme.org/myCME
2. Click on “New User” located under the login box.
3. Complete all the fields in the form and click on “Create Account”.
4. Click on “Click here to log in”.
5. Log in using the information you just provided in the registration form.
6. In the “Event Code” box, enter the code “02010615”.
7. Complete all the fields and hit “Save and View Certificate”.
8. Your official CME certificate will appear. Please print and keep with your permanent files.

Please note: Be sure to print your CME certificate and keep in record. This is your permanent record; no other certificate will be generated.

Evaluation Forms
The speaker evaluation forms are located at the entrance of the conference room and available at the registration desks. Your comments and feedback are important for future planning. Please complete the speaker evaluation form and return it to the registration desk in order to issue your certificate.
Program
## Schedule at a Glance

**Thursday, May 12, 2016**
- **7:30-8:00**: Registration
- **8:00**: MEMA Opening Ceremony

**Friday, May 13, 2016**
- **7:30-8:00**: From Inception to Conception
- **8:00-8:30**: Personalizing Cardiovascular Risk Assessment: Predicting & Preventing Disease
- **8:30-9:00**: Lunch Break
- **9:00-9:30**: Has Precision Medicine Reached Cardiology? Personalizing Multidisciplinary Management of Obesity
- **9:30-10:00**: Lunch Break
- **10:00-10:30**: Towards Precision Medicine: Lessons from Oncology
- **10:30-11:00**: Lunch Break
- **11:00-11:30**: New Frontiers in Precision Medicine

**Saturday, May 14, 2016**
- **7:30-8:00**: Lunch Break
- **8:00**: Fundraising Gala Dinner (8:00)
Thursday, May 12, 2016:
Issam Fares Lecture Hall

Primer in Genomic Medicine
Moderators: Drs. Samira Kaissi, Deborah Mukherji and Laila Zahed

14:00 – 14:05  Welcome remarks
Dr. Deborah Mukherji

14:05 – 14:25  Introduction to genomics and next generation sequencing
Dr. Rami Mahfouz

14:25 – 14:45  Computational approaches to enable precision medicine
Dr. Pierre Khoueiry

14:45 – 15:10  Next generation sequencing: An update at AUB
Dr. Georges Nemer and Dr. Ossama Abou Hassan

15:10 – 15:30  Genetic counseling in the era of precision medicine
Dr. Chantal Farra

15:30 – 15:50  Genetics of inborn errors of metabolism: The Lebanese perspective
Dr. Pascale Karam

15:50 – 16:30  Panel discussion: Precision and personalized medicine in developing countries
Drs. Hilal Lashuel (moderator), Rami Mahfouz, Pierre Khoueiry, Georges Nemer, Chantal Farra and Pascale Karam

Opening Ceremony (NON-CME)

17:00 – 18:00  Opening Ceremony at Assembly Hall, AUB
**Friday, May 13, 2016:**
Issam Fares Lecture Hall

**Session I: Introduction to Precision Healthcare: The Future is Now!**

**Precision Medicine: What, Why, How and When?**  
Moderators: Drs. Samia Khoury, Hilal Lashuel and Nagi S. El Saghir

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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| 09:00 – 09:45 | Precision medicine: From genes to populations  
Dr. Muin Khoury          |
| 09:45 – 10:30  | Wilder-Penfield Memorial Lecture: Precision medicine applied to  
neurodegenerative disease  
Dr. Hilal Lashuel     |
| 10:30 – 11:00 | Application of precision medicine to the treatment of infectious diseases  
Dr. Ted Schutzbank  |
| 11:00 – 11:15  | COFFEE BREAK                                                         |
| 11:15 – 11:45  | Precision medicine in anticoagulation: Pharmacogenetics and pharmacogenomics  
Dr. Charles Hill    |
| 11:45 – 12:15  | Personalized therapeutics: Data from the Lebanese  
Dr. Nathalie Khoueiry Zgheib |
| 12:15 – 12:45  | Nutrigenomics in the era of precision medicine  
Dr. Ahmed El Sohemy  |
| 12:45 – 14:00 | LUNCH BREAK                                                          |

**Towards Precision Medicine: Lessons Learnt from Oncology**  
Moderators: Drs. Ali Taher, Arafat Tfayli and Joseph Kattan

<table>
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<tr>
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| 14:00 – 14:30 | Precision cancer medicine in the genomic era  
Dr. Fadlo Khuri          |
| 14:30 – 15:00 | From precision medicine to cancer control and prevention:  
Challenges and opportunities  
Dr. Muin Khoury        |
| 15:00 – 15:30 | Next generation sequencing in the era of targeted therapy for cancer  
Dr. Charles Hill  |
| 15:30 – 15:45  | COFFEE BREAK                                                         |
**New Frontiers in Precision Medicine**  
**Moderators:** Drs. Hassan El Solh, Miguel Abboud and Ali Bazarbachi

**15:45 – 16:15**  
*Precision medicine in childhood cancer*  
*Dr. Tanja Gruber*

**16:15 – 16:45**  
*Epigenetics in the era of precision medicine*  
*Dr. Lifang Hou*

**16:45 – 17:15**  
*Cancer stem cells targeted therapies*  
*Dr. Rihab Nasr*

**17:15 – 17:30**  
*Panel discussion*  
*Drs. Tanja Gruber, Lifang Hou and Rihab Nasr*

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**Hicham Jaroudi Auditorium**

**Session II: Transforming Care through Genomic Nursing**  
**Moderators:** Drs. Ali Taher, Nuhad Dumit and Ms. Iman Kouatly

**09:00 – 09:05**  
*Introduction to precision medicine and genomic science*  
*Dr. Lina Badr*

**09:05 – 09:45**  
*Incorporating genetics and genomics into nursing practice - Standards of care and practice in genomic nursing*  
*Dr. Kathi C. Huddleston*

**09:45 – 10:15**  
*Advancing nursing research through genomics to improve patient outcomes*  
*Dr. Lina Badr*

**10:15 – 10:45**  
*Improving health outcomes through genomics nursing science*  
*Dr. Kathi C. Huddleston*

**10:45 – 11:15**  
*COFFEE BREAK*

**11:15 – 11:45**  
*Nursing transforming healthcare through genomics and big data*  
*Dr. Kathi C. Huddleston*

**11:45 – 12:45**  
*Panel discussion: Ethical challenges in genomic nursing*  
*Drs. Kathi C. Huddleston, Lina Badr, Thalia Arawi, Father Boulos Wehbe and Dr. Al Sayyed Jaafar Hussein Mohammad Fadlallah*

**12:45 – 14:30**  
*LUNCH BREAK*
Session III: From Inception to Conception: Is Personalized Medicine Likely to Change the Landscape of Reproductive Medicine?

Moderators: Drs. Anwar Nassar and Johnny Awwad

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>14:30 – 15:00</td>
<td>Can mathematical models predict the likelihood of a successful pregnancy?</td>
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<td><em>Dr. Fulco Van Der Veen</em></td>
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<td>15:00 – 15:30</td>
<td>Would ovarian bio markers modify the strategy of ovarian stimulation? Towards a more individualized approach to IVF/ICSI treatment</td>
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<td><em>Dr. Ghina Ghazeeri</em></td>
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<td>15:30 – 16:00</td>
<td>Does the study of embryo kinetics enhance the deselection of embryos with poor viability?</td>
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<td><em>Dr. Johnny Awwad</em></td>
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<tr>
<td>16:00 – 16:30</td>
<td>Will the use of bio markers in Reproductive Medicine improve our clinical practice? The path towards personalized medicine unraveled</td>
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<tr>
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<td><em>Dr. Fulco Van Der Veen</em></td>
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<tr>
<td>16:30 – 16:35</td>
<td>Concluding remarks</td>
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<tr>
<td></td>
<td><em>Dr. Johnny Awwad</em></td>
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</table>
Saturday, May 14, 2016:  
Issam Fares Lecture Hall

**Session IV: Personalizing Cardiovascular Risk Assessment: Predicting and Preventing Disease**  
**Moderators:** Drs. Samir Alam, Ghassan Hamadeh and Samir Arnaout

09:00 – 09:20  
Cardiovascular imaging and personalized management  
*Dr. Brian Ghoshhajra*

09:20 – 09:40  
Personalized risk assessment in hypertension  
*Dr. Samir Alam*

09:40 – 10:00  
Personalized risk assessment in patients with diabetes and dyslipidemia  
*Dr. Asma Arabi*

10:00 – 10:20  
COFFEE BREAK

10:20 – 10:40  
Personalized risk assessment for coronary artery disease  
*Dr. Samia Mora*

10:40 – 11:00  
Personalized risk assessment for cardiac arrhythmias  
*Dr. Moussa Mansour*

11:00 – 11:20  
Personalized risk assessment for peripheral artery disease  
*Dr. Fady Haddad*

11:20 – 11:40  
Personalized cardiovascular risk assessment in patients with congenital heart disease  
*Dr. Fadi Bitar*

11:40 – 12:00  
Nutrition: Role of individual genetic variation for cardiovascular health  
*Dr. Ahmed El Sohemy*

12:00 – 12:10  
CHAMPS Fund: A local experience to prevent sudden cardiac death in the young  
*Dr. Mona Osman*

12:10 – 13:00  
LUNCH BREAK

**SESSION V: Has Precision Medicine Reached Cardiology?**  
**Moderators:** Drs. Marwan Refaat, Habib Dakik and Sobhi Dada

13:00 – 13:45  
Naji Sahyoun Memorial Lecture: Genomics and risk stratification for sudden death  
*Dr. Barry London*

13:45 – 14:10  
Aspirin for the primary prevention of cardiovascular disease: A personalized approach  
*Dr. Samia Mora*

14:10 – 14:35  
Human induced pluripotent stem cell-derived cardiomyocytes for personalized therapeutics  
*Dr. Barry London*

14:35 – 15:00  
Personalized atrial fibrillation and ventricular tachycardia ablation  
*Dr. Moussa Mansour*

15:00 – 15:25  
Personalized approach for left atrial appendage closure devices  
*Dr. Mohamad Kanj*
Hicham Jaroudi Auditorium

Session VI: Personalizing Multidisciplinary Management of Obesity
Moderators: Drs. Ramzi Alami, Farah Naja and Yasser Shaib

14:00 – 14:20  Obesity in the Middle East and North Africa: Prevalence and determinants
Dr. Nahla Hwalla

14:20 – 14:40  Bending obesity: Illustrative examples of the high risk and potential avenues for intervention
Dr. Michele Forman

14:40 – 15:00  Applying genomics to nutrition and weight management
Dr. Ahmed El Sohemy

15:00 – 15:20  Surgical management of obesity
Dr. Bassem Safadi

15:20 – 15:40  Breaking the obesity – cancer link
Dr. Michele Forman

15:40 – 16:10  Panel discussion
Drs. Nahla Hwalla, Michele Forman, Ahmed El Sohemy and Bassem Safadi

Ismail M. Khalil Auditorium (SB-101)

Session VII: Precision Medicine in Lymphedema
Diagnostic
Moderators: Drs. Fady Haddad, Elie Kassabian and Jaber Abbas

14:00 – 14:20  Lymphedema overview
Dr. Georges Tabet

14:20 – 14:40  Why precision medicine in lymphedema? Impact and rationale
Dr. Stanley Rockson

14:40 – 15:00  Diagnostic imaging and work up: What’s in and what’s out
Dr. Chady Kallassy

15:00 – 15:20  Who will get lymphedema after breast cancer: Simple blood test or candidate genes for early diagnosis?
Dr. Stanley Rockson

15:20 – 15:40  COFFEE BREAK
Therapeutic
Moderators: Drs. Raghid Kreidi, Joseph Naoum and Ms. Rebecca El Asmar

15:40 – 16:00  Early intervention: Physical therapy? Challenges and current practices
Dr. Nagham Haddad

16:00 – 16:20  Therapeutic stem cell and lymphangiogenesis: Present or future?
Dr. Stanley Rockson

16:20 – 16:40  Current surgical options: Role and outcomes
Dr. Amir Ibrahim

16:40 – 16:55  Who should care for lymphedema patients: The Stanford model
Dr. Stanley Rockson

16:55 – 17:10  Round table: Are we doing enough for our lymphedema patients?
Drs. Jamal Hoballah (moderator), Georges Tabet, Stanley Rockson, Chady Kallassy, Nagham Haddad and Amir Ibrahim

Jaber Sawaya Lecture Hall (Previously Room 300)

Session VIII: Patient-Centered Management in Hospital Settings:
An Evidence-Based Management Approach
Separate Registration Fees: LBP 50,000

Moderator: Dr. Lina Daouk-Öyry

09:00 – 10:00  Evidence-based methods and tools
Dr. Lina Daouk-Öyry and Dr. Charlotte Karam

10:00 – 11:00  Evidence-based operation management and change management
Dr. Dania El Baba

11:00 – 11:15  COFFEE BREAK

11:15 – 12:15  Financial management
Dr. Shadi Saleh

12:15 – 13:15  LUNCH BREAK

13:15 – 14:15  Scheduling
Dr. Ghassan Hamadeh

14:15 – 15:45  Application of evidenced-based management to nursing
Dr. Nuhad Dumit