OPEN MEDICAL INSTITUTE

SEMINAR REPORT

MEDICAL INFORMATICS
OMI MEX CHOP SEMINAR

May 29-31, 2023

Medical Education Beyond Borders

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25 fellows from Mexico and Dominican Republic

5 faculty members from the USA and Mexico

12 didactic lectures

6 fellows’ case presentations

1 fellows’ case presentation session

1 clinical decision support workshop
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<tr>
<th>Time</th>
<th>Monday, May 29</th>
<th>Tuesday, May 30</th>
<th>Wednesday, May 31</th>
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<tr>
<td>08:00 – 09:00</td>
<td>REGISTRATION &amp; BREAKFAST</td>
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<tr>
<td>09:00 – 10:00</td>
<td>Introductions</td>
<td>Unintended Consequences</td>
<td>Quality Improvement</td>
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<td>Pre-Seminar Test</td>
<td>Eli Lourie, MD, MBI</td>
<td>Bimal Desai, MD, MBI, FAAP, FAMIA</td>
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<tr>
<td>10:00 – 11:00</td>
<td>Introduction to Health Informatics</td>
<td>Health System IT Planning</td>
<td>Informatics Education and Workforce Development</td>
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<td>Sansanee Craig, MD</td>
<td>Bimal Desai, MD, MBI, FAAP, FAMIA</td>
<td>Sansanee Craig, MD</td>
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<tr>
<td>11:00 – 11:30</td>
<td>COFFEE BREAK</td>
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<tr>
<td>11:30 – 12:30</td>
<td>Digital Health Readiness and Needs Assessments</td>
<td>Human Factors</td>
<td>Advanced Topics</td>
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<td>Sansanee Craig, MD</td>
<td>Robert W. Grundmeier, MD</td>
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<td>Eli Lourie, MD, MBI</td>
<td>Robert W. Grundmeier, MD</td>
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<tr>
<td>13:30 – 14:30</td>
<td>LUNCH</td>
<td>LUNCH</td>
<td>LUNCH CLOSING CEREMONY &amp; AWARDS</td>
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<td>14:30 – 15:30</td>
<td>Ethics, Privacy, Security</td>
<td>Digital Health</td>
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<td>Bimal Desai, MD, MBI, FAAP, FAMIA</td>
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<tr>
<td>15:30 – 17:00</td>
<td>Workshop: Fellows’ Case Presentations</td>
<td>Workshop: Clinical Decision Support</td>
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<td>Eli Lourie, MD, MBI</td>
<td>Robert W. Grundmeier, MD</td>
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<td>Jorge E. Valdez-García MD, MMSc, PhD</td>
<td>Jorge E. Valdez-García MD, MMSc, PhD</td>
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Learning Objectives for Participants
At the conclusion of this seminar, the participant should be better able to:

1. Characterize the state of health IT in your local environment and advocate for necessary workforce training and development.
2. Gain the leadership knowledge and skills to actively contribute to health IT projects and improve the likelihood of success.
3. Apply informatics principles and techniques to design safe, effective, equitable, and robust solutions to support the health of patients and populations.

ACCME Accreditation Statement
Children’s Hospital of Philadelphia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA Credit Designation Statement
Children’s Hospital of Philadelphia designates this live activity for a maximum of 15.0 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.
Sansanee Craig, MD is a pediatrician who specializes in global health informatics and digital health equity. Dr. Craig grew up in Thailand and completed her undergraduate studies at the University of Rochester in Rochester, New York. She graduated from Ben Gurion University of the Negev Medical School for Global Health and completed her pediatric residency at the University of Minnesota. Her fellowship training in clinical informatics was at Children’s Hospital of Philadelphia (CHOP). Dr. Craig’s research interests include collaborative design, implementation, use, and optimization of health information systems in low- and middle-income countries, and equitable design of patient-centered health information technology. Recent publications include a major review of global health informatics literature in the Journal of American Medical Informatics and a synthesized model to inform research, practice, and policy surrounding the equity implications of care delivery innovations in the Journal of General Internal Medicine. She is a peer reviewer for multiple major informatics journals and is a guest editor to the Special Edition on Global Health Informatics in the Journal of American Medical Informatics. Dr. Craig’s research efforts have earned her grants from the Truist Foundation and Children’s Hospital of Philadelphia’s Research Institute. Dr. Craig is currently on the faculty of University of Pennsylvania, Perelman School of Medicine and CHOP as Assistant Professor of Pediatrics. She lives in Pennsylvania with her husband Ethan and three boys, Elias, Lucas, and Silas.
Bimal Desai, MD, MBI, FAAP, FAMIA (Course Director)

Chief Health Informatics Officer
Children’s Hospital of Philadelphia
Clinical Associate Professor
Perelman School of Medicine at the University of Pennsylvania
3401 Civic Center Blvd.
Philadelphia, PA 19104
USA

Phone: +1-215-590-1000
Email: desai@chop.edu
Twitter: @origamidoc
LinkedIn: bimaldesai

Bimal Desai, MD, MBI, FAAP, FAMIA is a pediatrician and Chief Health Informatics Officer at Children’s Hospital of Philadelphia (CHOP), where he leads the programs in Clinical Informatics and Digital Health. He holds a medical degree from Washington University School of Medicine and a master’s degree in Biomedical Informatics from Oregon Health and Science University. He completed his residency and chief residency in pediatrics at Children’s Hospital of Philadelphia. Dr. Desai lectures nationally on the topics of clinical decision support, human computer interaction, decision analysis, and the optimal use of EHR to support medical decision-making. He co-leads CHOP’s digital transformation strategy, with a clinical focus on the use of telehealth and remote patient monitoring in pediatrics. During the COVID-19 pandemic, his team oversaw the explosive growth of telehealth, a program that has served over 100,000 children across 300,000 video visits. He was awarded the PACT Enterprise Healthcare Innovator award and he has been recognized three times as one of the country’s “CMIO’s to Know” by Becker’s Healthcare. He is an active member of the American Medical Informatics Association (AMIA) and co-founder of Haystack Informatics, a 2014 graduate of the DreamIt Health startup accelerator.
Robert (Bob) W. Grundmeier, MD is a practicing Primary Care Pediatrician at the Children’s Hospital of Philadelphia and an Assistant Professor of Pediatrics at the University of Pennsylvania School of Medicine. His life’s work is to maximize the existing and future potential of electronic health records (EHRs) for clinical research and knowledge delivery with an overarching goal of improving health and healthcare for children. Dr. Grundmeier completed the National Library of Medicine’s extramural fellowship in clinical informatics and is now the Section Chief of Informatics in the Department of Pediatrics, as well as the Director of the Clinical Reporting Unit in the Department of Biomedical and Health Informatics. He has extracted longitudinal patient, provider, and practice specific data on large panels of patients from the EHR. He has developed a framework for using web-services to deliver complex clinical decision support to clinicians, patients, and their families through the EHR and patient portals. For over 15 years, he has successfully used web-service decision support to improve healthcare delivery in multiple domains including immunization administration, preventive healthcare for premature infants, asthma management, attention-deficit disorder management, and traumatic brain injury assessment.
Eli Lourie, MD, MBI
Clinical Associate Professor of Pediatrics
Perelman School of Medicine, University of Pennsylvania
Associate Chief Medical Information Officer, Ambulatory Division of General Pediatrics
Children's Hospital of Philadelphia
3401 Civic Center Blvd.
Philadelphia, PA 19104
USA
Email: lourie@chop.edu

Eli Lourie, MD, MBI is a general pediatrician and clinical informatician. Dr. Lourie spent his early years in the suburbs of Washington, D.C., and then travelled to Boston, Massachusetts to get his undergraduate degree in classical studies from Tufts University. He then received his medical degree from Case Western Reserve University in Cleveland, Ohio, and remained in Cleveland while completing his pediatrics residency. He then moved to Philadelphia, Pennsylvania to practice pediatrics at the Children’s Hospital of Philadelphia where he continues to see patients in one of their teaching clinics. Additionally, Dr. Lourie is a Clinical Associate Professor of Pediatrics at the Perelman School of Medicine of the University of Pennsylvania. Dr. Lourie became interested in informatics in 2006 when his clinic started using an electronic health record. He received his Master of Biomedical Informatics from the Oregon Health Sciences University in 2013 and became board certified in Clinical Informatics in 2014. Currently, he is the Associate Chief Health Informatics Officer for Ambulatory at Children’s Hospital of Philadelphia. Dr. Lourie’s informatics interests include clinical decision support, quality improvement, and improving provider efficiency. He is also interested in informatics education and is involved with the clinical informatics fellowship at Children’s Hospital of Philadelphia. Dr. Lourie is an avid fan of soccer and plays weekly. He loves all genres of music and sang in an a cappella singing group in college. He lives outside of Philadelphia with his wife, Jennifer, and his children, Jonah and Celia.
Jorge E. Valdez-García, MD, MMSc, PhD

Associate Professor of Ophthalmology
Head of Advanced Therapies in Visual Science Research
Chair
Chief Strategic Relations Officer
TecSalud - Tecnológico de Monterrey
Centro Médico Zambrano Hellion
Monterrey, NL
Mexico

Email: jorge.valdez@tec.mx

Jorge E. Valdez-García, MD, MMSc, PhD is an opinion leader in the healthcare field who served for 12 years as the Dean of the School of Medicine and Health Sciences of Tecnológico de Monterrey, with 25 years of experience in academic medicine. This year, he was appointed Chief Strategic Relations Officer of TecSalud (Tecnológico de Monterrey Academic Health System). He is a surgeon, specialist in ophthalmology with a master’s degree in medical sciences and a doctorate in research in surgery. He is a national researcher (level 2) in health sciences, the author of five books, 17 chapters, and 111 articles in the medical and health sciences area. He has a long career of senior management in institutions of the health sector in the areas of strategic planning, quality, and health education. He served as the General Director of Planning and Development in Health, as well as the General Directorate of Quality and Health Education of the Ministry of Health. He has extensive experience leading professional organizations, having chaired more than seven national and international medical associations. He is recognized for his innovative work in the formation of leaders in the field of health, through seminars and diplomas specialized in medical leadership and health sciences. He is a member of the editorial boards of: Journal of Emmetropia, Revista Mexicana de Oftalmología, International Journal of Keratoconus, and Tec Review and Ophthalmology Review (Mexico). In his editorial career, he has been the Editor-in-Chief of the Revista Avances (Revista de Divulgación Médico Científica - Hospital San José Tec de Monterrey from September 2006 to 2010) and Guest Editor at Revista Mexicana de Oftalmología 90 (Supplement 1) February 2016, Revista Annals of Eye Science Vol, 4 October 2019. He is also a member of the Editorial Board of Tecnológico de Monterrey (Editorial Digital), the Editor of the Mexican Journal of Medical Education, and was recently appointed Scientific editor of Tec Science. He has been awarded several distinctions for his work in the health sector: twice received BIENNIAL Ophthalmology Award PUIS-SMO, National Health Award Coparmex, Medal for Medical Merit "Dr. Carlos Canseco" Municipality of Monterrey, Medical Research Award "Dr. Jorge Rosenkranz", Award for Scientific Career of the College of Surgeons of the state of Nuevo León, and the Award for Teaching and Research Work of Tecnológico de Monterrey. He is a Fellow of the Mexican Academy of Surgery. He is a founding member of the National Academy of Medical Education and is the past president of the Pan American Ophthalmology Foundation. He is also President of the Mexican Association of Faculties and Schools of Medicine.
Becky Aguilar-Álvarez de Sáenz
Executive Director | AMSA

- Bachelors degree in economics, Instituto Tecnológico Autónomo de México (ITAM)
- Banking and financial career for 15 years
- Member of the Board Civic Committee, Ford Motor Company Mexico
- Treasurer of the Board of Trustees UNETE (Unión de Empresarios por la Tecnología en la Educación)
- Member of the International Women’s Forum
- Member of the Mexican Council for International Affairs
- AMSA’s Executive Director since 2010

Gerardo Legorreta Creel
Chairman | AMSA

- Chairman of the Board of Trustees, Alianza Médica para la Salud, A. C. (AMSA)
- Studied at the London Business School and Instituto Tecnológico Autónomo de México (ITAM)
- CEO of UBS (Union Bank of Switzerland)
- Member of the Board of Directors of Bepensa, SA de CV
- Founder and Managing Director of LG & A
**FELLOWS**

Benjamin Acosta, PhD  
Instituto Mexicano del Seguro Social  
Mier y Pesado  
03100 Mexico City  
Mexico  
benjamin.acosta@imss.gob.mx

Ines Alvarez de Iturbe, MD  
ABC Medical Center  
Department of Pediatrics  
Av. Carlos Graef Fernandes 154-1A  
05300 Mexico City  
Mexico  
ines_alvarez@ymail.com

Ivan de Jesus Ascencio Montiel, MS  
Instituto Mexicano del Seguro Social  
120 Mier y Pesado  
03100 Mexico City  
Mexico  
ivan.ascencio@imss.gob.mx

Abril Naomi Astorga Bañuelos, MD, MBA, PhD  
Instituto Mexicano del Seguro Social  
Mier y Pesado 120 Colonia del Valle Alcadia Benito Juarez  
03100 Mexico City  
Mexico  
abril.astorga@imss.gob.mx

Pamela Baez Caraballo, MSc  
Children's Hospital of Philadelphia  
Av. Gregorio Luperon 168  
12200 La Romana  
Dominican Republic  
baezcpamela@gmail.com
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Address</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regina Barragán Carrillo, MD</td>
<td>Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán</td>
<td>Av. Vasco de Quiroga #15 14080 Mexico City</td>
<td><a href="mailto:regina.barragan.carrillo@gmail.com">regina.barragan.carrillo@gmail.com</a></td>
</tr>
<tr>
<td>Mauro Berta, MD, PhD, MSc</td>
<td>Instituto Mexicano del Seguro Social</td>
<td>Paseo de la Reforma 06600 Mexico City</td>
<td><a href="mailto:mauroberta@gmail.com">mauroberta@gmail.com</a></td>
</tr>
<tr>
<td>Gabriela Chapital, MD</td>
<td>Universidad Panamericana</td>
<td>Donatello 59 01420 Mexico City</td>
<td><a href="mailto:gchapital@up.edu.mx">gchapital@up.edu.mx</a></td>
</tr>
<tr>
<td>Paola Flores, MD</td>
<td>Instituto Nacional de Rehabilitación</td>
<td>Calzada México-Xochimilco 14389 Mexico City</td>
<td>paola <a href="mailto:ores.med@gmail.com">ores.med@gmail.com</a></td>
</tr>
<tr>
<td>Leonora Guerrero Mills, DrPH</td>
<td>IMSS</td>
<td>Municipio Libre 270 03300 Mexico City</td>
<td><a href="mailto:leonoramills@hotmail.com">leonoramills@hotmail.com</a></td>
</tr>
<tr>
<td>Diana Guizar, PhD</td>
<td>National University of Mexico Department of Psychiatry</td>
<td>Avenida Universidad 3000 04510 Mexico City</td>
<td><a href="mailto:guizar.diana@gmail.com">guizar.diana@gmail.com</a></td>
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Sergio Alfonso Téllez Chávez, MBA, PhD
IMSS
Mier y Pesado
03100 Mexico City
Mexico
alfonso.tellez.chavez@gmail.com

Samantha Velazquez Challa, MD
Instituto Nacional de Pediatría
Department of Pediatrics
Insurgentes Sur 3700 C
04530 Mexico City
Mexico
sam.velazquez21@gmail.com
“It was an honor to lead the OMI MEX CHOP Seminar in Medical Informatics. The interactions with the fellows were thought-provoking, and their engagement was inspiring. We witnessed their ability to apply informatics principles and techniques, defining problems and brainstorming solutions. The practical use cases showcased their dedication to improving healthcare outcomes. It was a pleasure to facilitate their learning as future leaders in health informatics and I am confident in their potential as future leaders driving positive change in healthcare.”

Sansanee Craig, MD
Medical Informatics
OMI VOICES

Faculty Feedback

"We are grateful to the OMI and AMSA for hosting the seminar in Healthcare Informatics. Our fellows enthusiastically shared their challenges, successes, and plans for healthcare information technology in their own work, and their excitement was inspiring! A highlight was the opportunity to interact directly with fellows during the workshop, presentations, and social breaks. We look forward to seeing the contributions of this talented and insightful group of fellows in the field of healthcare informatics across Latin American and the Caribbean."

Bimal Desai, MD, MBI, FAAP, FAMIA
Medical Informatics
OMI VOICES

Medical informatic topics are of superior relevance. They can help unify the healthcare system, have the ability to more effectively manage the global system, help apply preventative medicine, and avoid patients who could have been saved before requiring my services. I understood that a global vision is just as useful as knowing how to place a central catheter.

Maria Guadalupe Morales Hernandez, FACC
OMI-MEX Fellow from Mexico

Every single lecture was interesting, and I kept finding correlations between what was presented and my daily experience. I gained new insights on how to plan, manage, correct what we already have, and what we envision to have in the future.

Alejandro Martinez, MD, PhD
OMI-MEX Fellow from Mexico

I learned a new way of problem solving in an organized way. The methodology, the tools, and the application in the workshop were the best parts, and I was pleased to be able to put the theory to the test in a “real” situation. The faculty helped me improve my techniques in patient care in a comfortable environment where questions were welcome.

Paola Flores, MD
OMI-MEX Fellow from Mexico
CONTACT

Salzburg Stiftung der AAF
Schloss Arenberg
Arenbergstrasse 10
5020 Salzburg | Austria

+43 662 640 101

seminars@openmedicalinstitute.org

www.openmedicalinstitute.org

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@openmedicalinstitute