



# OPEN MEDICAL INSTITUTE

## SEMINAR REPORT

### MEDICAL INFORMATICS OMI MEX CHOP SEMINAR

May 29-31, 2023

Medical Education Beyond Borders



# F A C T S



**25** fellows  
from **Mexico and  
Dominican  
Republic**



**6** fellows' case  
presentations



**5** faculty members  
from the USA and  
Mexico



**1** fellows' case  
presentation session



**12** didactic lectures



**1** clinical decision  
support workshop

# GROUP PHOTO





## OMI MEX CHOP Seminar in Medical Informatics

### Monday, May 29 – Wednesday, May 31, 2023

	<b>Monday</b> May 29	<b>Tuesday</b> May 30	<b>Wednesday</b> May 31
08:00 – 09:00	<b>REGISTRATION &amp; BREAKFAST</b>	<b>REGISTRATION &amp; BREAKFAST</b>	<b>REGISTRATION &amp; BREAKFAST</b>
09:00 – 10:00	<b>Introductions Pre-Seminar Test</b>	<b>Unintended Consequences</b> Eli Lourie, MD, MBI	<b>Quality Improvement</b> Bimal Desai, MD, MBI, FAAP, FAMIA
10:00 – 11:00	<b>Introduction to Health Informatics</b> Sansanee Craig, MD	<b>Health System IT Planning</b> Bimal Desai, MD, MBI, FAAP, FAMIA	<b>Informatics Education and Workforce Development</b> Sansanee Craig, MD
11:00 – 11:30	<b>COFFEE BREAK</b>	<b>COFFEE BREAK</b>	<b>COFFEE BREAK</b>
11:30 – 12:30	<b>Digital Health Readiness and Needs Assessments</b> Sansanee Craig, MD	<b>Human Factors</b> Robert W. Grundmeier, MD	<b>Advanced Topics</b> Robert W. Grundmeier, MD
12:30 – 13:30	<b>Introduction to Electronic Health Records</b> Eli Lourie, MD, MBI	<b>Clinical Decision Support</b> Robert W. Grundmeier, MD	<b>Post-Seminar Test Evaluation &amp; Discussion</b>
13:30 – 14:30	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH CLOSING CEREMONY &amp; AWARDS</b>
14:30 – 15:30	<b>Ethics, Privacy, Security</b> Bimal Desai, MD, MBI, FAAP, FAMIA	<b>Digital Health</b> Bimal Desai, MD, MBI, FAAP, FAMIA	
15:30 – 17:00	<b>Workshop: Fellows' Case Presentations</b> Eli Lourie, MD, MBI Jorge E. Valdez-García MD, MMSc, PhD	<b>Workshop: Clinical Decision Support</b> Robert W. Grundmeier, MD Jorge E. Valdez-García MD, MMSc, PhD	

## **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.
4. Understand emerging trends in health IT and their future application to health care.

### **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  
(Course Director)**

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**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)**

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**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 W. Grundmeier, MD**

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**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**

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**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 acapella 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  
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**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



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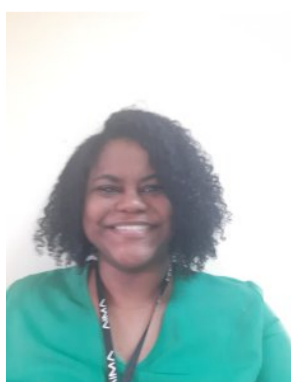
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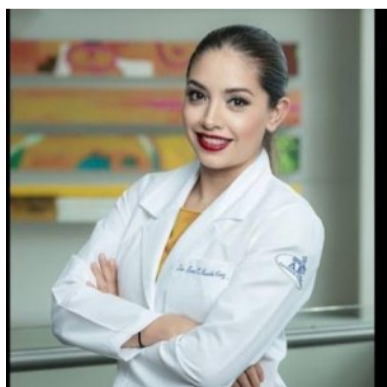
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# OMI VOICES

## Faculty Feedback

"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*



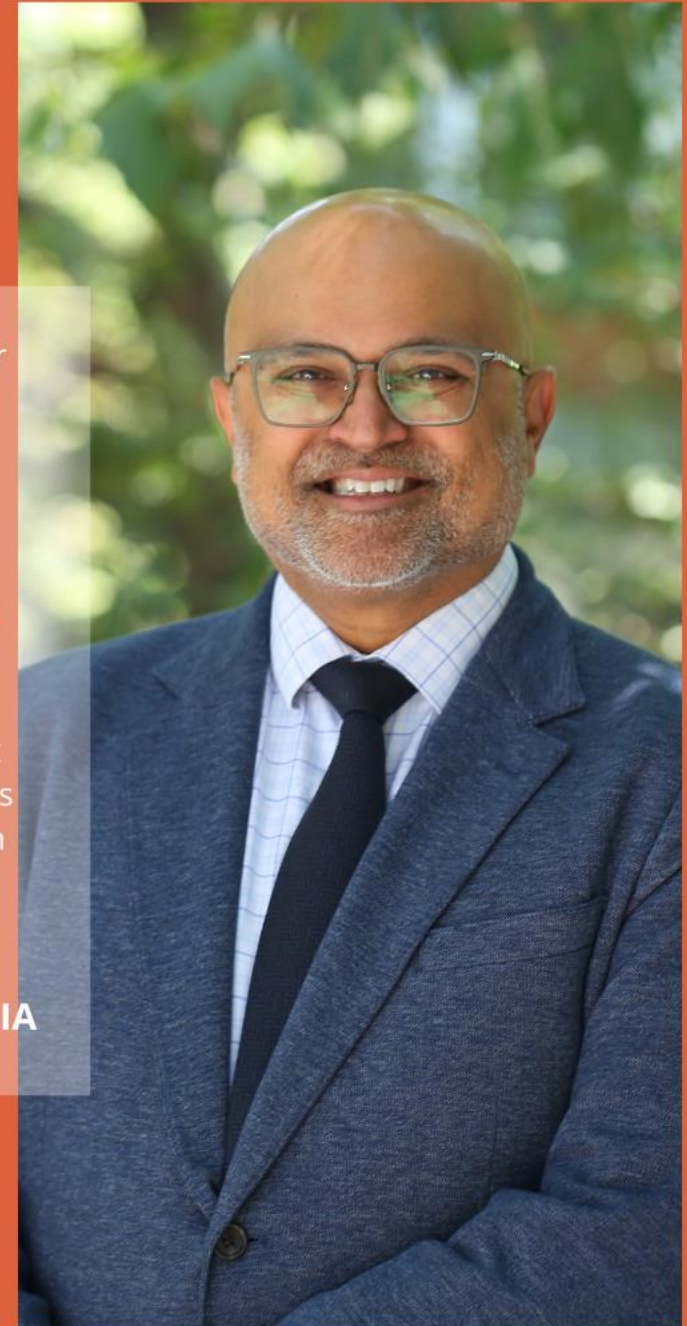
# OMI VOICES

## 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



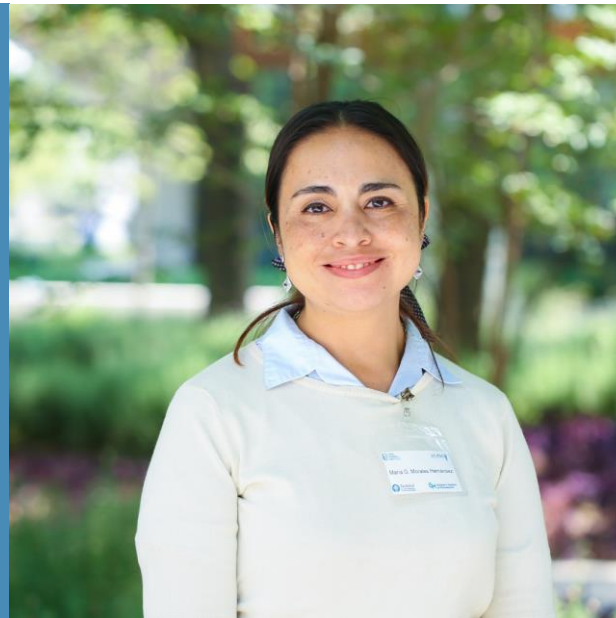
“ Every single lecture was interesting, and I kept finding correlations between what was presented and my daily experience. I gained new insights on how to plan, manage, correct what we already have, and what we envision to have in the future.

Alexandro Martagon Rosado, MD, PhD  
OMI MEX fellow from Mexico



“ 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



“ 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



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