



# Surgery, ICU and Neurosciences

30-31ST MARCH 2021 10AM TO 4PM EST  
DAY 1 - 30TH MARCH 2021

Sponsors:



10:00

11:00

## 121 Networking

Expand your network with our 121 networking sessions

11:00

11:15

## Chair's welcome and update: Current and future state of the art

A brief overview of essential knowledge in artificial intelligence in medicine and healthcare, including key terminology, challenges and opportunities.

Dr Anthony Chang, Founder, AIMed and Chief Intelligence and Innovation Officer, Children's Hospital of Orange County (CHOC)

11:15

11:35

## Patient session

AIMed is a passionate advocate of patient involvement. This session seeks to get people thinking about the ultimate objective of health AI: to deliver better, faster, more targeted care for the people who need it.

Moderator: Dr Anthony Chang, Founder, AIMed and Chief Intelligence and Innovation Officer, Children's Hospital of Orange County (CHOC)

Leanne West, Chief Engineer, Pediatric Technologies, Georgia Institute of Technology, and President, International Children's Advisory Network

Yalina Lopez, Youth Member, International Children's Advisory Network

11:35

12:05

## Keynote Session: Healthcare IT Equity Maturity (HITEM) Model - dismantling structural racism and bias in healthcare IT

The Healthcare IT Equity Maturity (HITEM) model provides a change management framework for healthcare IT leaders to develop a multi-year strategy and continuous improvement processes to address organizational structural bias in healthcare IT (HIT), impact healthcare inequities, and develop an equity and inclusion minded culture.

Maia Hightower, MD, MPH, MBA, Chief Medical Information Officer; Sr. Director Health Equity, Diversity, and Inclusion, University of Utah Health

Moderator: Dr Anthony Chang, Founder, AIMed and Chief Intelligence and Innovation Officer, Children's Hospital of Orange County (CHOC)

## SELECT TRACK

### HEALTHCARE EXECUTIVES

### SURGERY

### ICU / ANESTHESIA / ER / PULMONOLOGY

### GASTROENTEROLOGY

### OB-GYN

### NEUROSCIENCES / PSYCHIATRY

12:05

12:10

#### Chair's Opening Remarks

John Lee, MD, CMIO, Allegheny Health Network

#### Chair's Opening Remarks

Todd Ponsky, MD, FACS, Professor of Surgery, Director of Clinical Growth and Transformation, Cincinnati Children's Hospital University of Cincinnati

#### Chair's Opening Remarks

Robert Stevens, MD, FCCM, Associate Professor of Anesthesiology and Critical Care Medicine, Johns Hopkins Medicine.

#### Chair's Opening Remarks

Raj Mummadi, MD, Chief Quality and Population Health Officer, Consultant Gastroenterologist, Northwest Permanente PC

#### Chair's Opening Remarks

Naila Siddiqui Kamal, MD, Senior Lecturer, Imperial College London

#### Chair's Opening Remarks

Babak Kateb, MD, President, Brain Mapping Foundation, Chairman/CEO/Scientific Director of Society for Brain Mapping and Therapeutics, Director of Brain Technology and Innovation Park, Director of National Center for NanoBio Electronics

12:10

12:50

### Module 1: Consolidating data systems to harness the true potential of AI

Moderator: John Lee, MD, CMIO, Allegheny Health Network

Nick Patel, MD, Chief Digital Officer, Prisma Health

William Flannery, BM FRCS(ORL-HNS) MFMLM, Deputy Chief Clinical Information Officer and Consultant ENT Surgeon, Royal Berkshire NHS Foundation Trust

### Module 1: AI for data-driven decision making in the operating room

Moderator: Alexis May, Director of Content, AIMed

Bart Geerts, MD, PhD, MSc, MBA, Consultant (Cardiac) Anaesthetist and Principal Investigator (PI), AMC - Academic Medical Center

Sesmu Arbous, MD, PhD, MSc, Director of the Intensive Care Training Program LUMC; Director of Education Master Technical Medicine, Leiden University

### Module 1: Embracing the potential of AI in critical care whilst mitigating bias

Moderator: Drit Wimpfheimer, MD, Chief Medical Officer, Zebra Medical Vision

Louise Sun, MD, SM, FRCPC FAHA, Cardiac Anesthesiologist and Clinician Scientist, Director of Big Data and Bioinformatics Research, University of Ottawa Heart Institute

Leo Anthony Celli, MD, Associate Professor of Medicine, Harvard Medical School, Principal Research Scientist, Massachusetts Institute of Technology

### Module 1: Enhancing data quality for AI and gastroenterology

Moderator: Raj Mummadi, MD, Chief Quality and Population Health Officer, Consultant Gastroenterologist, Northwest Permanente PC

Sebastian Zeki MD, Consultant Gastroenterologist, Guy's and St Thomas' NHS Foundation Trust

Thomas de Lange, MD, Associate Professor, University of Gothenburg and Senior Consultant, Sahlgrenska University Hospital

### Module 1: Data, AI and the future of obstetrics and gynecology

Moderator: Naila Siddiqui Kamal MD, Senior Lecturer, Imperial College London

Gaby Moawad, MD, FACOG, Associate Professor of Obstetrics and Gynecology, George Washington University School of Medicine and Health Sciences

Illina Pluym, MD, Assistant Clinical Professor of Obstetrics and Gynecology, University of California Los Angeles

### Module 1: AI and advanced data analytics for neurosciences

Moderator: Babak Kateb, President, Brain Mapping Foundation, Chairman/CEO/Scientific Director of Society for Brain Mapping and therapeutics, Director Brain Technology and Innovation Park, Director National Center for NanoBio Electronics

Lara Jehi, MD, MHCDS, Chief Research Information Officer, Cleveland Clinic

Eric Eskioğlu, MD, Executive Vice President, Chief Medical and Scientific Officer, Novant Health



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DAY 1 - 30TH MARCH 2021



12:50

13:30

## Roundtable networking break

Engage with your peers in our gently moderated networking sessions. There will be six roundtables aligned with the event tracks.

## SELECT TRACK

13:30

14:10

HEALTHCARE EXECUTIVES	SURGERY	ICU / ANESTHESIA / ER / PULMONOLOGY	GASTROENTEROLOGY	OB-GYN	NEUROSCIENCES / PSYCHIATRY
<p><b>Module 2: Applying machine and deep learning in healthcare administration</b></p> <p>Moderator: <a href="#">John Frownfelter</a>, MD, FACP, Chief Medical Officer, <a href="#">Jvion</a></p> <p><a href="#">Karl Kochendorfer</a>, MD, FAAFP, Chief Health Information Officer, <a href="#">University of Illinois Hospital &amp; Health Sciences System (UI Health)</a></p> <p><a href="#">C. William Hanson, III</a>, MD, Chief Medical Information Officer and Vice President, <a href="#">Penn Medicine</a></p>	<p><b>Module 2: Machine learning and computer vision in surgery</b></p> <p>Moderator: <a href="#">Todd Ponsky</a>, MD, FACS, Professor of Surgery, Director of Clinical Growth and Transformation, <a href="#">Cincinnati Children's Hospital, University of Cincinnati</a></p> <p><a href="#">Thomas Ward</a>, Artificial Intelligence and Innovation Fellow, Surgical Artificial Intelligence and Innovation Laboratory, <a href="#">Massachusetts General Hospital</a></p> <p><a href="#">Anas Shikha</a>, MD, Pediatric Surgeon, <a href="#">Ministry of Health Brunei</a></p>	<p><b>Module 2: Machine learning to enhance patient safety and quality of emergency and critical care</b></p> <p>Moderator: <a href="#">Maame Yaa A. B. Yiadom</a>, MD, MPH, Associate Professor of Emergency Medicine, <a href="#">Stanford University</a></p> <p><a href="#">Daniel Ehrmann</a>, MD, Research and Clinical Fellow, <a href="#">Hospital for Sick Children</a></p> <p><a href="#">Krzysztof Laudanski</a>, MD, PhD, Assistant Professor of Anesthesiology and Critical Care, <a href="#">University of Pennsylvania</a></p>	<p><b>Module 2: Present and future applications of machine and deep learning in gastroenterology</b></p> <p>Moderator: <a href="#">Prateek Sharma</a>, MD, FAGG, FACP, FASGE, Professor of Medicine, Director of Fellowship Training, Division of Gastroenterology and Hepatology, <a href="#">University of Kansas School of Medicine</a></p> <p><a href="#">Michael Byrne</a>, MD (Cantab), MRCP, FRCPC, Clinical Professor of Medicine, Division of Gastroenterology, <a href="#">Vancouver General Hospital</a></p> <p><a href="#">Sravanthi Parasa</a> MD, Gastroenterologist, <a href="#">Swedish Medical Center</a></p>	<p><b>Module 2: Real applications of machine and deep learning for OB-GYN</b></p> <p>Moderator: <a href="#">Naila Siddiqui Kamal</a> MD, Senior Lecturer, <a href="#">Imperial College London</a></p> <p><a href="#">Jon Havelock</a>, MD, FRCSC, FACOG, Clinical Assistant Professor, Division of Reproductive Endocrinology and Infertility, <a href="#">BC Women's Hospital, Provincial Health Services Authority (PHSA)</a></p> <p><a href="#">Parvaneh Saeedi</a>, PhD, Associate Professor, School of Engineering Science, <a href="#">Simon Fraser University</a></p>	<p><b>Module 2: Deep neural networks for neurosciences and psychiatry</b></p> <p>Moderator: <a href="#">Dennis P Wall</a>, PhD, Associate Professor of Pediatrics, Psychiatry and Biomedical Data Sciences, <a href="#">Stanford University</a></p> <p><a href="#">Trevor Cohen</a>, Professor, Biomedical Informatics and Medical Education; Adjunct Professor, Psychiatry and Behavioral Sciences, <a href="#">University of Washington, Seattle</a></p> <p><a href="#">Ghaith Habboub</a>, MD, Neurosurgeon, <a href="#">Cleveland Clinic Center for Spine Health</a></p>

14:10

14:20

## 121 Networking

Expand your network with our ten minute, 121 networking sessions

14:20

15:00

## Key takeaways and open forum discussion

Bringing together the moderators from each track to share the outcomes from their sessions in one minute before opening up to the audience for questions.

Moderator: [Dr Anthony Chang](#), Founder, AIMed and Chief Intelligence and Innovation Officer, Children's Hospital of Orange County (CHOC)

[John Lee](#), MD, CMIO, Allegheny Health Network

[Todd Ponsky](#), MD, FACS, Professor of Surgery, Director of Clinical Growth and Transformation, Cincinnati Children's Hospital

[Robert Stevens](#), MD, FCCM, Associate Professor of Anesthesiology and Critical Care Medicine, Johns Hopkins Medicine

[Raj Mummadi](#), MD, Chief Quality and Population Health Officer, Consultant Gastroenterologist, Northwest Permanente PC

[Naila Siddiqui Kamal](#), MD, Senior Lecturer, Imperial College London

[Babak Kateb](#), MD, President, Society for Brain Mapping, Chairman/CEO/Scientific Director, Society for Brain Mapping and Therapeutics, Director of Brain Technology and Innovation Park, Director of National Center for NanoBio Electronics

15:00

16:00

## 121 Networking

Expand your network with our 21 networking sessions

# Surgery, ICU and Neurosciences

30-31ST MARCH 2021 10AM TO 4PM EST  
DAY 2 - 31TH MARCH 2021

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zebra  
medical  
vision

SIEMENS  
Healthineers

10:00

11:00

## 121 Networking

Expand your network with our 121 networking sessions

11:00

11:05

## Chair's welcome and highlights from day 1

Summarizing the key takeaways from day 1 before introducing today's keynote speaker.

Dr Anthony Chang, Founder, AIMed and Chief Intelligence and Innovation Officer, Children's Hospital of Orange County (CHOC)

11:05

11:35

## Keynote session: Understanding AI systems for clinical practice: when computation meets mind and brain

Clinical Artificial Intelligence (AI) has leaped to the forefront of current discussions by practitioners, scientists, vendors, policymakers, and even the general public. Yet we still have much to learn regarding both the design and impact of such technologies intended for clinicians. We have not focused adequately on how such systems must be crafted according to what we know about clinical users' cognitive processes (memory, thinking, reasoning). Similarly, we need to understand better how such systems may influence those same cognitive processes prospectively, aiming to anticipate potential consequences, both positive and negative.

Vimla L Patel, PhD, DSc, FRSC, FACMI, Cognitive Studies in Medicine and Public Health, The New York Academy of Medicine, Department of Biomedical Informatics, Columbia University, College of Health Solutions, Arizona State University

Moderator: Dr Anthony Chang, Founder, AIMed and Chief Intelligence and Innovation Officer, Children's Hospital of Orange County (CHOC)

11:35

12:15

## Panel discussion: Regulation, ethics and legal

Our expert panel will draw on direct experience to address some of the key ethical, legal and regulatory challenges around artificial intelligence in healthcare.

Moderator: Eric Eskloglu, MD, Executive Vice President, Chief Medical and Scientific Officer, Novant Health

Sravanthi Parasa, MD, Gastroenterologist, Swedish Medical Center

Victor F. Garcia, MD, FACS, FAAP, Founding Director, Trauma Services, Professor of Surgery and Pediatrics, School of Medicine, University of Cincinnati, Co-Director, Chest Wall Center

Sara Gerke, Research Fellow, Medicine, Artificial Intelligence, and Law, Petrie-Flom Center for Health Law Policy, Biotechnology, and Bioethics, Harvard Law School

Michael Byrne, MD (Cantab), MRCP, FRCPC, Clinical Professor of Medicine, Division of Gastroenterology, Vancouver General Hospital

## SELECT TRACK

12:15

12:20

HEALTHCARE EXECUTIVES	SURGERY	ICU / ANESTHESIA / ER / PULMONOLOGY	GASTROENTEROLOGY	OB-GYN	NEUROSCIENCES / PSYCHIATRY
<p>Chair's Opening Remarks</p> <p>Arlen Meyers, MD, MBA, Emeritus Professor, <a href="#">University of Colorado School of Medicine</a>, Faculty, <a href="#">University of Colorado Denver Business School</a>, President and CEO, <a href="#">Society of Physician Entrepreneurs (SoPE)</a></p>	<p>Chair's Opening Remarks</p> <p>Professor Shafi Ahmed PhD, FRCS, FRCS (Gen. Surg), Consultant General, Laparoscopic and Colorectal Surgeon, Associate Dean, <a href="#">Barts and the London Medical School</a>, Honorary Professor, <a href="#">University of Bradford</a>, Member of Council, <a href="#">Royal College of Surgeons of England</a></p>	<p>Chair's Opening Remarks</p> <p>Piyush Mathur, MD, FCCM, Staff Anesthesiologist and Critical Care Physician, <a href="#">Cleveland Clinic</a></p>	<p>Chair's Opening Remarks</p> <p>Prateek Sharma, MD, FACC, FACP, FASGE, Professor of Medicine, Director of Fellowship Training, Division of Gastroenterology and Hepatology, <a href="#">University of Kansas School of Medicine</a></p>	<p>Chair's Opening Remarks</p> <p>Emre Kayaalp, MD, PhD, Chief of Obstetrics, Director of Labor and Delivery, Patient Safety and Quality Officer, <a href="#">Hackensack University Medical Center</a></p>	<p>Chair's Opening Remarks</p> <p>Terence Sanger, MD, PhD, Vice President and Chief Scientific Officer, <a href="#">Children's Hospital of Orange County (CHOC)</a></p>

12:20

13:00

**Use cases: Delivering ROI with AI and RPA**

Moderator: [Arlen Meyers](#), MD, MBA, Emeritus Professor, [University of Colorado School of Medicine](#), Faculty, [University of Colorado Denver Business School](#), President and CEO, Society of Physician Entrepreneurs (SoPE)

Professor [Michael Fisher](#), MD, PhD, Consultant Cardiologist and Chief Clinical Information Officer, [Liverpool University Hospitals NHS Foundation Trust](#)

[Shervin Majid](#), PhD, Executive Director of Product Management and Advanced Analytics, [Providence Saint Joseph Health](#)

**Use cases: Improving surgical assessment and performance using AI**

Moderator: Professor [Shafi Ahmed](#) PhD, FRCS, FRCS (Gen. Surg), Consultant General, Laparoscopic and Colorectal Surgeon, Associate Dean, [Barts and the London Medical School](#), Honorary Professor, [University of Bradford](#), Member of Council, [Royal College of Surgeons of England](#)

[Brian Pridgen](#), MD, Hand and Microsurgery; Plastic and Reconstructive Surgery, [The Buncke Clinic, San Francisco](#)

[Amin Madani](#), MD, PhD, Endocrine/Acute Care Surgeon, [University Health Network](#)

**Use cases: Overcoming the barriers to deployment of AI in the ICU**

Moderator: Dr [Tom Lawton](#) MBE, Intensive Care Consultant (ICU) and Anaesthetist, Clinical Head for Artificial Intelligence, [Bradford Teaching Hospitals NHS Foundation Trust](#)

[Asem Kasem](#) PhD, Assistant Professor, School of Computing and Informatics, [Universiti Teknologi Brunei](#)

[Bart Geerts](#), MD, PhD, MSc, MBA, Consultant (Cardiac) Anaesthetist and Principal Investigator (PI), [AMC - Academic Medical Center](#)

**Use cases: AI for GI in clinical practice**

Moderator: [Tassos Koulaouzidis](#) MD, DM, PhD, FASGE, Affiliate Professor, [Pomeranian Medical University](#)

Dr [Omer Ahmad](#) BSc, MBBS, MRCP, Senior Clinical Research Fellow, Wellcome / EPSRC Centre for Interventional and Surgical Sciences, [University College London](#)

[Ian Arnott](#) MD, FRCP, Consultant Gastroenterologist, [NHS Lothian](#)

**Use cases: Augmented machine learning for safer labor and delivery**

Moderator: [Annabelle Painter](#), MD, GP Registrar, NMSMelissa Wong, MD, Staff Physician, Maternal-Fetal Medicine, [Cedars-Sinai](#)

[Emre Kayaalp](#), MD, PhD, Chief of Obstetrics, Director of Labor and Delivery, Patient Safety and Quality Officer, [Hackensack University Medical Center](#)

**Use cases: Utilizing AI to understand brain tumor metrics**

Moderator: [Leila Entezam](#), LMFT, MBA, Human Behavior & Emotional Intelligence Thought Leader, Speaker, Adjunct Professor, [LEZAM](#)

[Aly Abayazeed](#), MD, Assistant Professor of Radiology, [University of Massachusetts Medical School](#)

[Máté E. Maros](#), MD, MSc, Neuroradiologist, Department of Biomedical Informatics, [Mannheim Medical University](#)

13:00

13:40

**Roundtable networking break**

Engage with your peers in our gently moderated networking sessions. There will be six roundtables aligned with the event tracks.

**SELECT TRACK**

13:40

14:20

**HEALTHCARE EXECUTIVES**

**Real time applications of AI in healthcare administration**

Moderator: [Shervin Majid](#), PhD, Executive Director of Product Management and Advanced Analytics, [Providence Saint Joseph Health](#)

[William W. Feaster](#), MD, MBA, VP and Chief Health Information Officer, [CHOC Children's Hospital](#)

[Alfonso Limon](#), PhD, Chief Liaison of R&D, [OneRx](#)

**SURGERY**

**Real time applications of AI in surgery**

Moderator: Professor [Shafi Ahmed](#), PhD, FRCS, FRCS (Gen. Surg), Consultant General, Laparoscopic and Colorectal Surgeon, Associate Dean, [Barts and the London Medical School](#), Honorary Professor, University of Bradford, Member of Council, [Royal College of Surgeons of England](#)

[Thomas Ward](#), Artificial Intelligence and Innovation Fellow, Surgical Artificial Intelligence and Innovation Laboratory, [Massachusetts General Hospital](#)

[Vidha Sharma](#), Clinical Research Fellow in Health Informatics, Division of Informatics, Imaging and Data Science, Faculty of Biology, Medicine and Health, [University of Manchester](#)

[Robert Hoyt](#) MD, FACP, FAMIA, ABPM-CI, Associate Clinical Professor, in Department of Internal Medicine, [Virginia Commonwealth University](#)

**ICU / ANESTHESIA / ER / PULMONOLOGY**

**Real time applications of AI in critical care**

Moderator: [Mjave Mazwi](#), Director of Translational Engineering, Critical Care Medicine, [The Hospital for Sick Children](#)

[Matthieu Komorowski](#), MD PhD, Consultant in Intensive Care, [Charing Cross Hospital](#) Clinical Senior Lecturer, Faculty of Medicine, [Imperial College London](#)

[Ammar Ghaibeh](#) PhD, Senior Assistant Professor, School of Computing and Informatics, [Universiti Teknologi Brunei](#)

[Yan Jia](#), Research Associate, [York University](#)

**GASTROENTEROLOGY**

**Real time applications of AI in gastroenterology**

Moderator: [Raj Mummadi](#), MD, Chief Quality and Population Health Officer, Consultant Gastroenterologist, [Northwest Permanente PC](#)

[Michael Riegler](#), PhD, Chief Research Scientist, [Simula Metropolitan Center for Digital Engineering](#)

[Gursimran Singh Kochhar](#) MD FACP CNSC, Assistant Professor of Medicine, [Drexel University](#) and [Interventional IBD & Therapeutic Endoscopy](#), Division of Gastroenterology, Hepatology & Nutrition, [Allegheny Health Network](#)

**OB-GYN**

**Real time applications of AI in OB-GYN**

Moderator: [Emre Kayaalp](#), MD, PhD, Chief of Obstetrics, Director of Labor and Delivery, Patient Safety and Quality Officer, [Hackensack University Medical Center](#)

[Lior Drukker](#), MD, Clinical Research Fellow, Maternal-Fetal Medicine, [Oxford Maternal and Perinatal Health Institute](#)

[Matthew Wells](#), Senior Data Scientist, Enterprise Data Intelligence, [Cedars-Sinai](#)

[Luca Zammataro](#), MD, PhD, Associate Research Scientist, Department of Obstetrics, Gynecology, and Reproductive Sciences, [Yale University School of Medicine](#)

[Tavpritesh Sethi](#), PhD, Assistant Professor, [IIT-Delhi](#)

**NEUROSCIENCES / PSYCHIATRY**

**Real time applications of AI in neurosciences**

Moderator: [Sharief Taraman](#), MD, DABPN, DABPM, FAAP, Division Chief of General Pediatric Neurology, [Children's Hospital of Orange County \(CHOC\)](#)

Dr [Amy Nelson](#), Senior Research Associate, [UCL Institute of Neurology](#)

[M Jorge Cardoso](#), Senior Lecturer in Artificial Intelligence, [King's College London](#); CTO, [London Medical Imaging and AI Centre for Value-based Healthcare](#)

[Jeremy Slater](#) MD, Professor of Neurology, [University of Texas Health Science Center](#) and Chief Medical Officer, [Stratus Neuro](#)

## DAY 2 - 31ST MARCH 2021

14:20

14:50

### Key takeaways and open forum discussion

Bringing together the moderators from each track to share the outcomes from their sessions in one minute before opening up to the audience for questions.

Moderator: Dr Anthony Chang, Founder, AIMed and Chief Intelligence and Innovation Officer, Children's Hospital of Orange County (CHOC)

Arlen Meyers, MD, MBA, Emeritus Professor, University of Colorado School of Medicine, Faculty, University of Colorado Denver Business School, President and CEO, Society of Physician Entrepreneurs (SoPE)

Professor Shafi Ahmed, PhD, FRCS, FRCS (Gen. Surg), Consultant General, Laparoscopic and Colorectal Surgeon, Associate Dean, Barts and the London Medical School, Honorary Professor, University of Bradford, Member of Council, Royal College of Surgeons of England

Piyush Mathur, MD, FCCM, Staff Anesthesiologist and Critical Care Physician, Cleveland Clinic

Prateek Sharma, MD, FACC, FACP, FASGE, Professor of Medicine, Director of Fellowship Training, Division of Gastroenterology and Hepatology, University of Kansas School of Medicine

Emre Kayaalp, MD, PhD, Chief of Obstetrics, Director of Labor and Delivery, Patient Safety and Quality Officer, Hackensack University Medical Center

Terence Sanger, MD, PhD, Vice President and Chief Scientific Officer, Children's Hospital of Orange County (CHOC)

14:50

15:00

### Chair's closing remarks

Dr Anthony Chang, Founder, AIMed and Chief Intelligence and Innovation Officer, Children's Hospital of Orange County (CHOC)

15:00

16:00

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