

Mayo Clinic Robotics and Advanced Surgical Technologies

April 14-16, 2023

JW Marriott Bonnet Creek Orlando, Florida

All Times in Eastern Time (ET)

Friday, April 14, 2023

Start	End	Description	Faculty
6:30 AM	5:00 PM	Registration	
6:30 AM	7:30 AM	Breakfast	
7:50 AM	8:00 AM	Welcome and Introductions	Mathew Thomas, M.B.B.S., M.D., Mayo Clinic Jacksonville Enrique F. Elli, M.D., Mayo Clinic Jacksonville
8:00 AM	8:30 AM	OR of the Future	Pier Cristoforo Giulianotti, M.D., University of Illinois at Chicago
8:30 AM	9:00 AM	Cloud and Big Data in Healthcare	John D. Halamka, M.D., M.S., President of Mayo Clinic Platform (virtual)
9:00 AM	9:30 AM	AI in Surgery	Andrew J. Hung, M.D., University of Southern California Health Sciences Campus
9:30 AM	10:00 AM	Q&A Session	
10:00 AM	10:05 AM	Short Talk from Abstract	
10:05 AM	10:30 AM	Coffee Break and Exhibit Hall	

Concurrent Breakout Sessions

FRIDAY	CONT	General Surgery – Bariatrics	Orthopedics Technology Session	Thoracic Surgery Session	Gynecology Session	Admin/OR Session
10:30 AM	12:20 PM	Rationale of robotic roux n y gastric bypass Carlos Galvani, M.D., Tulane University School of Medicine	TKA Technologies Introduction Cameron K. Ledford, M.D., Mayo Clinic Jacksonville Stryker MAKO Cedric J. Ortuera, M.D., Mayo Clinic Jacksonville Imageless Robotic Assisted Primary TKA Kelly Hendricks, M.D., HCA Healthcare (virtual) Imageless Robotic TKA John M. Redmond, M.D., Southeast Orthopedic, Jacksonville, FL (virtual)	Robotic Bronchoscopy and Confocal Laser Endomicroscopy Sebastian Fernandez-Bussy, M.D., Mayo Clinic Jacksonville	Tackling Deep Infiltrating Endometriosis without wanting to DIE (25 min) Megan N. Wasson, D.O., FACOG, Mayo Clinic Arizona	0 to 10,000: How We Did It (15 min) Melissa D. Rado, M.S.N., R.N., CNOR, Mayo Clinic Jacksonville Rebecca L. Holochwost, R.N., CNOR, Mayo Clinic Jacksonville
		Are there any advantages for robotic sleeve gastrectomy? Michael A. Edwards, M.D., Mayo Clinic Jacksonville	3D mapping for Total Knee Arthroplasty (TKA) Jaime Carvajal-Alba, M.D., University of Miami Augmented Reality Surgical Navigation in Total Joint Arthroplasty. Michael J. Taunton, M.D., Mayo Clinic Rochester (virtual) Discussion/Questions	Robotic Bronchoscopy: How I do it Jon – Erik Folch, M.D., Massachusetts General Hospital Auris – Kenneth K. Sakata, M.D., Mayo Clinic Arizona	Training Robotic Surgeons, how to teach ourselves and others (25 min) Mateo G. Leon, M.D., UT Health Houston	Scaling a Robotic Practice (20 min) Weston S. Gray, M.S., M.B.A., Mayo Clinic Jacksonville Michael P. Martenson, M.B.A., Mayo Clinic Arizona Tiffany M. Horton, M.A., Mayo Clinic Rochester
		Robotic Duodenal Switch and SADI Enrique F. Elli, M.D., Mayo Clinic Jacksonville	THA Technologies Stryker MAKO for THA Cynthia A. Kahlenberg, M.D., MPH, Hospital for Special Surgery, Stamford, CT (virtual) ZB ROSA Luke S. Spencer Gardner, M.D., Mayo Clinic Jacksonville	Developing a robotic bronch program: Lessons learned Sebastian Fernandez-Bussy, M.D., Mayo Clinic Jacksonville Kenneth K. Sakata, M.D., Mayo Clinic Arizona	How to Create Wonderful Videos to Teach Gynecologic Surgery (25 min) Jeffrey Woo, M.D., Eastern Virginia Medical School	Managing a Robotics Practice Through the Pandemic (20 min) Weston S. Gray, M.S., M.B.A., Mayo Clinic Jacksonville Michael P. Martenson, M.B.A., Mayo Clinic Arizona Tiffany M. Horton, M.A., Mayo Clinic Rochester
		Revisional Bariatric Surgery Maher M. El Chaar, M.D., St. Luke's Weight Management Center, Allentown, PA	DJO ARVUS Kevin Wang, M.D., Holly Cross Health, Oakland Park, Florida (virtual) Discussion/Questions (Con't next page)	Localization of lung nodules: How I do it Mathew Thomas, M.B.B.S., M.D., Mayo Clinic Jacksonville Luis J. Herrera, M.D., Orlando Health	Robotic Training Network (25 min) Marty Martino, M.D., Ascension Health, Jacksonville Florida	Automation in Supply Chain (15 min) Mark M. Muraco, M.B.A., Mayo Clinic Arizona (virtual) Todd E. Brandt, Mayo Clinic Rochester (virtual)
		New techniques and approaches to robotic bariatric Surgery Carlos Galvani, M.D., Tulane University School of Medicine	Advanced Surgical Technologies Navigation for TSA Bradley S. Schoch, M.D., Mayo Clinic Jacksonville (virtual) Patient Specific Instrumentation for Total Ankle Replacement Edward T. Haupt, M.D., Mayo Clinic Jacksonville 3D Printed Guides in Oncology Benjamin K. Wilke, M.D., Mayo Clinic Jacksonville Discussion/Questions	Uniportal Robotic Thoracic Surgery: A New Era Joel Dunning, FRCS, Ph.D., James Cook University Hospital, United Kingdom (virtual)	Urogynecology- is robotics helpful? (25 min) Olivia O. Cardenas-Trowers, M.D., Mayo Clinic Jacksonville	Safety during Robotic Surgery (15 min) Ingrid L. Rodgers, APRN, CRNA, D.N.P., Mayo Clinic Jacksonville Danielle B. Hickman, APRN, CRNA, D.N.P., Mayo Clinic Jacksonville
		Robotic endoluminal techniques Enrique F. Elli, M.D., Mayo Clinic Jacksonville	Artificial Intelligence and Predictive Modeling in Orthopedics Patient Engagement Platforms AI/Predictive Modeling for Hip/Knee Outcomes Cody C. Wyles, M.D., Mayo Clinic Rochester (virtual) AI/Predictive Modeling for Shoulder Outcomes Bradley S. Schoch, M.D., Mayo Clinic Jacksonville (virtual)	Robotic Tracheobronchoplasty: How I do it Mathew Thomas, M.B.B.S., M.D., Mayo Clinic Jacksonville Richard Lazzaro, M.D., Barnabas Health	Panel Discussion (25 min) Marty Martino, M.D., Ascension Health, Jacksonville, FL	Robotics Program Support: Roles and Values (15 min) Emily Thomson, MHA, Barnes-Jewish Hospital

12:20 PM 1:30 PM Lunch

Concurrent Breakout Sessions

FRIDAY	CONT	General Surgery – HPB	Neurosurgery Session	Thoracic Surgery Session	Gynecology Session	Admin/OR Session
1:30 PM	2:45 PM	Growth of Robotics in Surgery: Pathway to Excellence and Overcoming the Ceiling Effect of Laparoscopy John B. Martinie, M.D., Atrium Health Levine Cancer Institute	Overview of robotics in neurosurgery Ian A. Buchanan, M.D., Mayo Clinic Jacksonville (virtual)	Robotic Segmentectomy I Right Upper Lobe Right Lower Lobe Ian A. Makey, M.D., Mayo Clinic Jacksonville	Robotic Debulking Surgery (25 min) Peter C. Lim, M.D., Venter of Hope, Reno, NV	Advanced Care at Home (30 min) Gregory R. Beliles, Jr. M.B.A., Mayo Clinic Jacksonville Ellen A. Love, M.H.A., Mayo Clinic Jacksonville

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		<p>Advanced Simulation Based Training Program for Robotic Surgery; Robotic Pancreaticoduodenectomy Melissa Ellen Hogg, M.D., Northshore University</p>	<p>Robotically assisted awake spinal surgery Kingsley O. Abode-Iyamah, M.D., Mayo Clinic Jacksonville</p>	<p>Luis J. Herrera, M.D., Orlando Health</p>	<p>Robotic Segmentectomy II Left Upper Lobe Left Lower Lobe Staci E. Beamer, M.D., Mayo Clinic Arizona Luis Tapias, M.D., Mayo Clinic Rochester</p>	<p>How I incorporated the robot into my interval debulking surgery + HIPEC (25 min) Tri A. Dinh, M.D., Mayo Clinic Jacksonville</p>	<p>Tele-Medicine: Past, Present and Future, Lessons from Trenches – Panel Discussion (45 min) Ami A. Grek, APRN, D.N.P., Mayo Clinic Jacksonville Rithvi Melanta, Mayo Clinic Jacksonville Devang K. Sanghavi, M.B.B.S., M.D., Mayo Clinic Jacksonville Vitaly Herasevich, M.D., Ph.D., Mayo Clinic Rochester</p>
		<p>Robotic Liver Resection for Treatment of Liver Tumors. Training, Learning Curve, and Program Implementation Iswanto Sucandy, M.D., Advent Health</p>	<p>Robotics in spinal deformity Ian A. Buchanan, M.D., Mayo Clinic Jacksonville (virtual)</p>	<p>3D printing in Thoracic Surgery Mathew Thomas, M.B.B.S., M.D., Mayo Clinic Jacksonville</p>		<p>Robotic Infrarenal Para-aortic Lymphadenectomy for endometrial cancer, why do we still teach it? (25 min) Robert Holloway, M.D., Advent Health, Orlando, Florida</p>	
2:45 PM	3:05 PM	Coffee Break, Exhibit Hall and Abstracts					
Concurrent Breakout Sessions							
FRIDAY	CONT	General Surgery – Hernia	Neurosurgery Session	CT Surgery (Thoracic)	Gynecology	Admin/OR	
3:05 PM	4:45 PM	<p>Robotic Inguinal Hernia Repair Maria Linnaus, M.D., Mayo Clinic Health System</p>	<p>Next generation of robotic platforms Jon J.W. Yoon, M.D., MSc, Penn Medicine</p>	<p>Robotic first rib resection Andrew T. Arndt, M.D., Northwestern Medicine</p> <p>AR/VR in Thoracic Surgery Mathew Thomas, M.B.B.S., M.D., Mayo Clinic Jacksonville</p>	<p>Casual Conversations in Management of Vascular Injuries From a Gynecologic Standpoint. (25 min) Paul M. Magtibay, M.D., Mayo Clinic Arizona</p>	<p>Staff Engagement and Program Support – How We Do It – Panel Discussion (45 min) Emily Thomson, MHA, Barnes-Jewish Hospital Rebecca L. Holochwest, R.N., CNOR, Mayo Clinic Jacksonville Melissa D. Rado, M.S.N., R.N., CNOR, Mayo Clinic Jacksonville</p>	
		<p>rTAPP Ventral Hernia Repair – Indications and Tips for Success Anthony L. Murante, M.D., University of Nebraska Medical Center</p>	<p>Differences between Robotic Spine Surgery and Image-guided Spine Surgery? Eric W. Nottmeier, M.D., Mayo Clinic Jacksonville (virtual)</p>	<p>State of robotic Surgery in Latin America Ricardo Mingarini Terra, MD, MPH, PhD, University of Sao Paulo Medical School - Sao Paulo Cancer Institute</p>	<p>Fistulas - Management of This Complication Using The Robotic Platform (25 min) Sherif A. El Nashar, M.B., B.Ch., M.D., Mayo Clinic Jacksonville</p>		
		<p>Robotic Retrorectus Ventral Hernia Repair Michael Wes Love, M.D., Prisma Health</p>		<p>Robotic Diaphragm Plication Ian A. Makey, M.D., Mayo Clinic Jacksonville Staci E. Beamer, M.D., Mayo Clinic Arizona</p>	<p>Robotic Myomectomy: Advantages, Setup, and Procedure (25 min) Aakriti R. Carrubba, M.D., Mayo Clinic Jacksonville</p>		<p>Overcoming the Cost and Value Proposition of Robotic Surgery (30 min) David D. Thiel, M.D., Mayo Clinic Jacksonville</p>
		<p>Robotic Transversus Abdominis Release in Abdominal Wall Reconstruction David G. Pearson, M.D., Mayo Clinic Arizona</p> <p>Videos on robotic TARS and complex hernias Michael A. Edwards, M.D., Mayo Clinic Jacksonville</p>		<p>My most challenging robotic case Ricardo Mingarini Terra, MD, MPH, PhD, University of Sao Paulo Medical School - Sao Paulo Cancer Institute</p> <p>Luis J. Herrera, M.D., Orlando Health</p>	<p>Surgical Planning for Robotic Myomectomy Success (25 min) Traci E. Ito, MD, UCSF Health, San Francisco, CA</p>		
4:45 PM	5:15 PM	Abstract Session					
5:00 PM	6:30 PM	Welcome Reception and Networking					

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Saturday, April 15, 2023						
Start	End	Description			Faculty	
6:30 AM	5:00 PM	Registration				
6:45 AM	7:45 AM	Breakfast				
7:45 AM	7:50 AM	Welcome			Mathew Thomas, M.B.B.S., M.D., Mayo Clinic Jacksonville Enrique F. Elli, M.D., Mayo Clinic Jacksonville	
7:50 AM	8:00 AM	3D printing for clinical use (10 min)			Robert A. Pooley, Ph.D., Mayo Clinic Jacksonville	
8:00 AM	8:10 AM	3D Printing in simulation-based training (10 min)			William Clifton, M.D., Cleveland Clinic (virtual)	
8:10 AM	8:15 AM	Q&A Session (5 min)				
8:15 AM	8:25 AM	STR-X fellowship (10 min)			William D. Freeman, M.D., Mayo Clinic Jacksonville	
8:25 AM	8:35 AM	Military Medical VR haptics training (10 min)			Madison Quinn, Engineering & Computer Simulations	
8:35 AM	8:45 AM	Web-based surgical training (10 min)			Joep Knol, M.D., Ph.D., WebSurg, Belgium	
8:45 AM	8:55 AM	State of Robotics in Pediatric Surgery (10 min)			Patrick Thomas, M.D., FACS, University of Nebraska Medical Center	
8:55 AM	9:05 AM	Q&A Session (10 min)				
9:05 AM	9:15 AM	Digital and 3D printing in Pathology (10 min)			Joseph J. Maleszewski, M.D., Mayo Clinic Rochester (virtual)	
9:15 AM	9:25 AM	Intraoperative molecular imaging (10 min)			Jarrod D. Predina, M.D., University of Pennsylvania (virtual)	
9:25 AM	9:30 AM	Q&A Session (5 min)				
9:30 AM	9:40 AM	Short Talk				
9:40 AM	10:00 AM	Coffee Break, Exhibit Hall and Abstracts				
Concurrent Breakout Sessions						
SATURDAY	CONT	General Surgery – Foregut	Urology Session	CT Surgery (Cardiac) Session	Gynecology Session	ENT Session
10:00 AM	12:20 PM	Robotic Heller Myotomy Enrique F. Elli, M.D., Mayo Clinic Jacksonville	Session I Adoption of new technology in Urology Current Landscape of New Robotic Technologies in Urologic Surgery Duke Herrell M.D., Vanderbilt University Medical Center (virtual) Rapid Adoption of SP Robotic Technology: Best Use in Urology Matthew K. Tollefson, M.D., Mayo Clinic Rochester	Robotic Mitral Valve Repair Selection and Setup (20 min) A. Marc Gillinov, M.D., Cleveland Clinic, Ohio To Balloon or Not to Balloon (20 min) Arnar Geirsson, M.D., FACS, FAHA, Yale School of Medicine	Robotic Assisted Isthmocele Repair (25 min) Jeffrey Woo, M.D., Eastern Virginia Medical School	TORS role in De-escalation Therapy for HPV+ Disease (20 min) Mihir R. Patel, M.D., Emory University Hospital
		Robotic paraesophageal hernia Carlos Galvani, M.D., Tulane University School of Medicine	Partnering with Industry to Launch New Technologies Mitchell R. Humphreys, M.D., Mayo Clinic Arizona (virtual) Panel Discussion: How Do We Convince Hospitals to Invest in New Technologies?	Simple Robotic Mitral Valve Repair Techniques (20 min) Phillip G. Rowse, M.D., Mayo Clinic Rochester Complex Robotic Mitral Valve Repair Techniques (20 min) Joseph A. Dearani, M.D., Mayo Clinic Rochester (virtual)	Abdominal Wall Endometriosis- tips and tricks for complete excision (25 min) Megan N. Wasson, D.O., Mayo Clinic Arizona	TORS: Update for 2023 (20 min) Jeffrey Janus, M.D., Mayo Clinic Jacksonville
		Esophageal Diverticulectomy Mathew Thomas, M.B.B.S., M.D., Mayo Clinic Jacksonville	Session II Impact on Training and Practice Training the Robotic Urologist of Tomorrow: Simulation, Validation and Metrics Andrew J. Hung, M.D., University of Southern California Health Sciences Campus Adopting New Techniques in Practice: The Holmium Laser Enucleation Learning Curve Chandler Dora, M.D., Mayo Clinic Jacksonville (virtual) Investing in New Technologies in Private Practice Ali Kasraeian, M.D., F.A.C.S., Kasraeian Urology	Robotic Mid CAB (20 min) Dominic Emerson, M.D., Cedars Sinai, Los Angeles, California Total Endoscopic Robotic Coronary Artery Bypass (20 min) Husam H. Balkhy, M.D., The University of Chicago, Chicago, Illinois How to Avoid Complications and When to Convert (20 min) Richard C. Daly, M.D., Mayo Clinic Rochester	Tips and Tricks: My Favorite Tips for Robotic Success – West Coast Style (25 min) Afshin Bahador, M.D., Scripps Affiliated Medical Group, San Diego, CA	TORS and the Unknown Primary (20 min) John de Almeida, M.D., FRCSC, MSc, University of Toronto
		Robotic Surgery from an Open/Lap Surgeon's: Standpoint – the Struggle! John A. Stauffer, M.D., Mayo Clinic Jacksonville			Tips and Tricks from the East Coast (25 min) Marty Martino, M.D., Ascension Health, Jacksonville, FL	3D Printing in Facial Plastic Reconstructive Surgery (20 min) Robert A. Pooley, Ph.D., Mayo Clinic Jacksonville
		New endoluminal techniques Steven Bowers, M.D., Mayo Clinic Jacksonville			Presentation Tile TBA (25 min) Paul M. Magtibay, M.D., Mayo Clinic Arizona	Advances and Innovation in Microsurgery (50 min) Ralph Gilbert, M.D., FRCSC, BSc, University of Toronto
		Robotic gastric bypass without assistant port: The Robotic caddy device Steven Bowers, M.D., Mayo Clinic Jacksonville		Panel Discussion: Learning Curve of New Technology	Unedited Video Presentation of Difficult Case (25 min) Peter C. Lim, MD, Center of Hope, Reno, NV	Q&A Sessions
12:20 PM	1:30 PM	Lunch				
Concurrent Breakout Sessions						
SATURDAY	CONT	General Surgery	Urology Session	Cardiac Session	Colorectal Session	ENT Session
1:30 PM	2:45 PM	Revisional Foregut Enrique F. Elli, M.D., Mayo Clinic Jacksonville	Session III Robotics in Oncologic Urologic Surgery Evolution of Robotic Radical Prostatectomy: Anterior, Posterior, Retzius-Sparing, Hood Technique Vipul Patel M.D., Celebration Hospital, Global Robotics Institute	How to Start a Robotic Cardiac Surgery Program (20 min) T. Sloane Guy, M.D., MBA, Georgia Heart Institute Robotic AVR (20 min) Vinay Badhwar, M.D., West Virginia University Medicine	Robotic recurrent rectal cancer Amit Merchea, M.D., Mayo Clinic Jacksonville Lap/robotic TaTME Joep Knol, M.D., Ph.D., Belgium	New Tech in in Facial Reanimation Surgery (20 min) Matthew Q. Miller, M.D., University of North Carolina
		General Surgery – Single Port Robotics Session Single Port hernia Francesco M. Bianco, M.D., University of Illinois at Chicago Utilization of ICG in robotic cholecystectomy Francesco M. Bianco, M.D., University of Illinois at Chicago	Tips and Tricks for Partial Nephrectomy: Lessons Learned from MAP and Beyond David D. Thiel, M.D., Mayo Clinic Jacksonville Robotic Radical Cystectomy: Intra Versus Extra Corporeal Diversion Timothy D. Lyon, M.D., Mayo Clinic Jacksonville	Other Robotic Procedures and Future Directions (20 min) Joanna Chikwe, M.D., Cedars Sinai, Los Angeles, California Evidence about Robotic Cardiac Surgery (20 min) Arman Arghami, M.D., M.P.H., Mayo Clinic Rochester	Robotic VRAM and others for pelvic reconstruction Alanna M. Rebecca, M.D., Mayo Clinic Arizona Novel Endoluminal robotics Sam Atallah, M.D., FASCRS, FACS, Advent Health Cancer Institute, Orlando, FL	Value in ENT Innovation (20 min) Adam Zanation, M.D., Carolina ENT, Sinus and Allergy Center
			Panel Discussion: Impact of Technology on Oncologic Outcomes			Virtual Surgical Planning for Head and Neck Reconstruction (20 min) Philip Pargousis, M.D., D.M.D., Mayo Clinic Jacksonville
2:45 PM	3:10 PM	Coffee Break, Exhibit Hall and Abstracts				

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Concurrent Breakout Sessions						
SATURDAY	CONT	General Surgery – Endocrine	Urology Session	Cardiac Session	Colorectal Session	ENT Session
3:10 PM	4:25 PM	Robotic Adrenalectomy John R. Porterfield, M.D., University of Alabama New robotic platforms for general surgery Francesco M. Bianco, M.D., University of Illinois at Chicago Abstracts/Video – General Surgery Abstracts/Video – General Surgery	Session IV New Technologies for Endourology Innovations for stone surgery: Lasers and beyond Kevin M. Wymer, M.D., Mayo Clinic Arizona New Robotic Technology for Endoscopic Surgery Raymond W. Pak, M.D., M.B.A., Mayo Clinic Jacksonville Session V Image Guidance & Artificial Intelligence Image Guided Robotic Surgery: The role of ICG in benign and malignant urology Ram A. Pathak, M.D., Mayo Clinic Jacksonville The Role of Artificial Intelligence in Video Based Minimally Invasive Surgery Abhinav Khanna, M.D., M.P.H., Mayo Clinic Rochester Panel Discussion: Will Technology Replace the Surgeon?	My most challenging robotic case	Robotic right colectomy - SMV first Amit Merchea, M.D., Mayo Clinic Jacksonville Robotics for complicated diverticulitis Michelle F. DeLeon, M.D., Mayo Clinic Jacksonville Robotics tips/tricks for the difficult pelvis Kevin T. Behm, M.D., Mayo Clinic Rochester Robotic approaches to the splenic flexure Michelle F. DeLeon, M.D., Mayo Clinic Jacksonville Early experience with DaVinci SP Colorectal surgery Kevin T. Behm, M.D., Mayo Clinic Rochester	How I do it: Free Flap Monitoring – Tricks and Techniques (20 min) Saral Mehra, M.D., MBA, FACS, Yale New Haven Hospital TORS/Robotic Panel – Management of HPV+ Oropharynx Cancer in 2023 (25 min) Moderator: Samip Patel, M.D., FACS, Mayo Clinic Jacksonville Reconstruction Panel – Recon Rounds (25 min) Moderator: Samip Patel, M.D., FACS, Mayo Clinic Jacksonville
4:25PM		Leisure				

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Sunday, April 16, 2023			
Start	End	Description	Faculty
6:30 AM	1:00 PM	Registration	
7:00 AM	8:00 AM	Continental Breakfast	
8:00 AM	8:05 AM	Welcome	
		Value of Innovation Session	
8:05 AM	8:50 AM	Keynote Lecture: Landscape of innovation in healthcare – AR, AI, 3D, robotics	Mark B. Wehde, M.S., M.B.A., Mayo Clinic Rochester
8:50 AM	9:10 AM	Assessing the value of Innovation in healthcare 20 min	Anantha Santhanam, Ph.D., M.B.A., Mayo Clinic Rochester
9:10 AM	9:55 AM	Panel Discussion: Assessing the value of robotics as an innovation	John R. Porterfield, M.D., University of Alabama Richard Lazzaro, M.D., Barnabas Health Matthew K. Tollefson, Mayo Clinic Rochester
9:55 AM	10:15 AM	Value of a Robotics Steering committee – Navigating a multisite robotics practice	Michael Awad, M.D., Washington University, Barnes Jewish Hospital (virtual)
10:15 AM	10:20 AM	Short Talk from Abstract - Humera Batool, presented by Anek Jena Harnessing the Power of Technology to Transform Delirium Severity Measurement in the ICU	
10:20 AM	10:40 AM	Coffee Break, Exhibit Hall and Abstracts	
SUNDAY	CONT	Value of Innovation Session	
10:40 AM	11:00 AM	Mayo Clinic Innovation Exchange	Charles Bruce, M.D., Mayo Clinic Florida
11:00 AM	11:15 AM	Ergonomics for the Robotic Surgeon	Susan Hallbeck, Ph.D., Mayo Clinic Rochester
11:15 AM	11:30 AM	ICU of the future	Devang K. Sanghavi, M.B.B.S., M.D., Mayo Clinic Jacksonville
11:30 AM	12:15 PM	Center for Digital Health Panel	Bradley C. Leibovich, M.D., Mayo Clinic Rochester (virtual) Shanda Blackmon, M.D., M.P.H., Mayo Clinic Rochester (virtual) Antonio J. Forte, M.D., Ph.D., Mayo Clinic Jacksonville (virtual)
12:15 PM	12:30 PM	Microrobotics	Hakan Ceylan, Ph.D., Mayo Clinic Arizona
12:30 PM	1:00 PM	Panel Discussion: Non-clinical robotics in healthcare	Mark M. Muraco, M.B.A., Mayo Clinic Arizona (virtual) Stephen M. Fischer, M.H.S.A., Mayo Clinic Rochester (virtual) Todd E. Brandt, Mayo Clinic Rochester (virtual)
1:00 PM	1:15 PM	Closing Remarks	Mathew Thomas, M.B.B.S., M.D., Mayo Clinic Jacksonville