THURSDAY, JUNE 20 • PLUMERIA C & D

CO-CHAIRS: Vipul Patel, Rick Satava and Mischa Dohler

9:00am - 12:00pm	**CLOSED GROUP SESSION OF THE KEY STAKEHOLDERS - INVITE ONLY** Moderators: Vipul Patel, Mischa Dohler, P. Das Gupta, Rick Satava, A. Sachdeva Panelists: M. Anvari, D. Diamond
9:00am - 9:30am	**Telesurgery Overview: Recap of the Telesurgery Landscape** *Vipul Patel and Mischa Dohler*
9:30am - 9:45am	**Finding of the Telesurgery Collaborative Community: Delphi Consensus Questionnaire** *J. Collins*
9:45am - 12:30pm	**In Depth Discussion Points for the Telesurgery Collaborative Community Working Group** **9:45am - 10:30am - Medical Workstream Discussion Points** *Moderators: Vipul Patel and P. DasGupta* *Panelists: A. Siddiqui, Martin Martino, K. Hakamada, L. Kavoussi, S. Horgan, T. Heniford, M. Roche, A. Mottrie* • From the medical viewpoint what steps are necessary to ensure the seamless adoption and integration of telesurgical technologies in clinical settings? *L. Kavoussi* • What strategies can be implemented to develop short, mid, and long-term medical use cases for telesurgery? *M. Roche* • How can we effectively upskill and reskill medical professionals for telesurgery? *A. Mottrie* • What are the key discussion points that need to be addressed for cross boarder telesurgery between nations? *K. Hakamada* • What criteria should be established for selecting patients suitable for telesurgery? *S. Horgan* • Do you think AI will have a role in telesurgery? *T. Heniford* • What best practices should be adopted to ensure successful telesurgical procedures? *M. Martino* **10:30am - 11:15am - Technology Workstream Discussion Points** *Moderators: Mischa Dohler and Jayweera Sudharman (NSF)* *Panelists: Y Wang, D Oleynikov (VI), M Toloui (NVIDIA), M Toland (MMI), S Srivastava (SSI), M Martino, Rich Mahoney (Intuitive), Monika Hagen (JJ), E Parra Davila, A Ghazi, S Nathan, S Nathan, M Trumbore (FDA), E Fonseca (Xcath), Alex He (Microport), G D'Ippolito (IVIS), Roger Billings (Cradlepoint), M Moschovas, Manuel Bedoya (Verizon), Philip Arthur (AdventHealth), Ryan Winn (AdventHealth)* • What needs to be done to make robots compatible for telesurgery? • What measures are required to establish acceptable surgical latency for safe telesurgery? • How can we determine and achieve the maximum safe distance for telesurgery? • What strategies should be implemented to manage different networks (cellular, Wi-Fi, cable) for long- distance telesurgery? • What actions are necessary to build a reliable and secure telecom network for telesurgery? • What steps must be taken to ensure robust cybersecurity for telesurgical systems? • How can we secure funding for innovation and deployments of telesurgical technologies? **11:15am - 12:00pm - Compliance Workstream Discussion Points** *Moderators: D. Diamond and Rick Satava* *Panelists: R. Clayman, S. Ross, A. Sachdeva, T. Costello, S. Magnuson, B. Rocco, B. Ashar (FDA), V. Hicks, S Nathan, A. Ramadorai (Medtronic), Chad Dunn* • What standards and certifications need to be established for telesurgery? • What business models are most effective for the adoption and sustainability of telesurgical practices? • What policies and regulations, including net neutrality, must be addressed to facilitate telesurgery? • How should legal, insurance, and liability issues be managed in telesurgery? • What ethical guidelines should be developed to ensure integrity, accessibility, and equity in telesurgery? • What strategies can be implemented for effective patient outreach and maintaining the patient-physician relationship in telesurgery? • What is required to align state laws and licensure for telesurgery across borders?
12:00pm - 12:05pm	**Telesurgery with Xu Zhang**
12:05pm - 12:30pm	**Recap and Panel QS**

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1:30pm - 5:30pm — **SRS PLENARY (OPEN TO ALL ATTENDEES FOR THE CONGRESS)**

SESSION 1: Introduction to Telesurgery
Moderators: Vipul Patel, Mischa Dohler
Panelists: P. Das Gupta, S. Ross, M. Anvari, L. Kavoussi, M. Moschovas, M. Toloui (NVIDIA), M. Zarrouk (NVIDIA)

Time	Session
1:30pm - 1:45pm	**Telesurgery: A Humanitarian Pathway to the Democratization of Access to Surgery and Surgical Education** *Vipul Patel*
1:45pm - 2:00pm	**Telesurgery Collaborative Community Working Group Meeting in Orlando, Feb 2024 - Review of Delphi Consensus and Transpacific Telesurgery Trial Over 13,000km** *M. Moschovas*
2:00pm - 2:15pm	**Basics of Telesurgery 101: Setting the Stage: An Overview of Key Concepts and Definitions** *P. Das Gupta*
2:15pm - 2:30pm	**The Challenge: Technical Barriers to the Clinical Application of Real-time Telesurgery Understanding the Nuances of Reliable Connectivity: 5G, 6G, Fiber and Satellite** *Mischa Dohler and Manuel Bedoya*
2:30pm - 2:40pm	**Panel Discussion**

SESSION 2

Time	Session
2:40pm - 3:20pm	**Update on Progress of Telesurgery** *Moderators: Rick Satava and F. Moll* *Panelists: V. Pansadoro, B. Rocco, J. Porter, R. Clayman, P. DasGupta* - **Telerobotic Connectivity to Space. The NASA Mission** *S. Farritor* - **Intercontinental Telesurgery (Italy to Dubai) for the Remote Treatment of Optical Diseases** *Giuseppe D'Ippolito* - **Telesurgery with the SSI Mantra** *S. Srivastava* - **3 Console Telerobotics for Surgical Education (pre-recorded)** *L. Cui* - **The Canadian Experience of Telesurgery** *M. Anvari* - **Telerobotic Thrombectomy from Abu Dhabi to S Korea (xCath)** *Eduardo Fonseca*
3:20pm - 3:30pm	**Panel Discussion**
3:30pm - 3:45pm	**Academic/Society Based Approach to the Evolution of Telesurgery** *K. Hakamada*

SESSION 3
Moderators: Mischa Dohler, D. Diamond, J. Sudharman (NSF)
Panelists: Y. Wang, R. Madder, A. Siddiqui, S. Nathan, A. Sachdeva, F. Moll, I. Gill

Time	Session
3:45pm - 4:00pm	**Ensuring End-to-End Cybersecurity for a Safe Telesurgery Systems** *Roger Billings (Cradlepoint)*
4:00pm - 4:15pm	**Current Clinical Needs for Telesurgery: Cardiac and Neurovascular Stenting and Clot Removal** *R. Madder and A. Siddiqui*
4:15pm - 4:30pm	**A State Licensing Board Perspective on Telesurgery** *David Diamond*
4:30pm - 4:45pm	**Telesurgery FDA Sandpit Environment: Evaluating Challenges, Knowledge Gaps, and Acceleration of Regulatory Approvals** *Mischa Dohler and M. Trumbore*
4:45pm - 5:15pm	**Panel Discussion: Making Telesurgery a Reality: The Epitome of a Collaborative Community Project. Why All the Stakeholders Play a Critical Role** *M. Anvari*
5:15pm - 5:30pm	**Possible Solutions to the Robot Connectivity, Telecom Latency and Security Issues Around Telesurgery** *Mostafa Toloui (NVIDIA)*
5:30pm	**Summary** *Vipul Patel and Mischa Dohler*