

# COURSE 2: ARTIFICIAL INTELLIGENCE IN SURGERY

HOW AI COULD IMPACT OUR LIVES AS HEALTHCARE PROFESSIONALS



SRS 2023  
ANNUAL MEETING

TUESDAY, JULY 25, 2023

Australian Eastern Standard Time (AEST)

Course Director: *Dr. Vipul Patel*

Co-Chairs: *Tony Jarc (Intuitive Surgical), Dr. Andrew Hung (Cedars Sinai), Dr. Todd Heniford (Atrium Health)*

Course Faculty: *Pegha Khosravi, Anthony Fernando (Asensus), George Murgatroyd (Medtronic), Dr Tamir Wolf (Theator), Shan Jegatheeswaran (J&J), Brian Miller (Intuitive Surgical), Teodor Grantcharov (Surgical Safety Technologies), Manisha Shah Bugaj (Activ Surgical), Alan Kersey (Cytoveris), and Sham Shibliq (Procept)*

This course is led by experts in healthcare artificial intelligence and by surgeon leaders with an interest in incorporating AI into the surgical world to improve surgical education and maximize benefit in patient outcomes. This team will present the current advances in surgical AI and the current and future applications in the OR that will shape the evolution of surgical training.

4:00 PM - 4:30 PM	<b>SESSION I: WHAT IS AI?</b> <ul style="list-style-type: none"><li>a. Primer to define AI, ML, etc.</li><li>b. Q&amp;A Panel Discussion<ul style="list-style-type: none"><li>i. How do you define AI for surgery?</li><li>ii. What data are required to develop and deploy AI applications?</li><li>iii. How do you validate AI algorithms?</li><li>iv. What are the barriers to extracting value from AI?</li><li>v. How can we ensure that patient safety and data privacy being addressed?</li></ul></li></ul>
4:30 PM - 5:00 PM	<b>SESSION II: HOW DO YOU USE AI TODAY?</b> <ul style="list-style-type: none"><li>a. Primer to show a few example AI use cases</li><li>b. Q&amp;A Panel Discussion<ul style="list-style-type: none"><li>i. Can you share an example of how your org and/or customers are leveraging AI to day? Explain the measurable impact to patients, surgeons, hospitals?</li><li>ii. Where do you see AI adding the most value to robotic-assisted surgery?</li><li>iii. What is the complete set of technologies needed to deploy AI technologies into surgery?</li></ul></li></ul>
5:00 PM - 5:30 PM	<b>SESSION III: GENERATIVE AI</b> <ul style="list-style-type: none"><li>a. Primer to define generative AI</li><li>b. Q&amp;A Panel Discussion<ul style="list-style-type: none"><li>i. Given the emergence of generative AI, how do you feel it will impact surgery?</li><li>ii. How is your org leveraging generative AI?</li></ul></li></ul>
5:30 PM - 6:00 PM	<b>SESSION III: GENERATIVE AI</b> <ul style="list-style-type: none"><li>a. Primer to showcase recent publications</li><li>b. Q&amp;A Panel Discussion<ul style="list-style-type: none"><li>i. In the future, how do you see AI impacting surgery and surgical training?</li><li>ii. How should industry, surgeons, and academia collaborate most effectively to realize the promise of AI? Give examples of how you collaborate today?</li></ul></li></ul>

Agenda is subject to change.