### Stanford Surgery Playlist

**SATURDAY, OCT. 23, 2021**

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
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<tbody>
<tr>
<td><strong>SF112. Breast I</strong></td>
<td>9:00 AM - 9:55 AM</td>
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<td>Channel 2</td>
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<tr>
<td>Presentation <strong>Utilizing Breast MRI Blood Flow Data To Improve Clinical Outcomes Following Skin Sparing Mastectomy And Nipple Sparing Mastectomy</strong></td>
<td>9:34 AM - 9:37 AM</td>
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<tr>
<td>Mardi R. Karin, MD FACS, Robin Wu, MD, Cara K. Black, MD and Arash Momeni, MD FACS. Stanford University Department of Surgery, Palo Alto, CA</td>
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<tr>
<td>Presentation <strong>Novel Technique Of Breast Reconstruction With Omental Fat-augmented Free Flap Improves Donor Site Morbidity And Reduces Postoperative Narcotic Use.</strong></td>
<td>9:37 AM - 9:40 AM</td>
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<tr>
<td>Peter L. Deptula, MD, Yulia Zak, MD FACS, Monica Makiko. Dua, MD FACS, Irene Leonor. Wapnir, MD FACS and Dung Nguyen, MD, PharmD. Stanford University, Palo Alto, CA</td>
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<tr>
<td><strong>SF124. Pediatric Surgery I: Basic Science</strong></td>
<td>10:00 AM - 10:55 AM</td>
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<td>Channel 4</td>
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<tr>
<td>Presentation <strong>🥇 RAS Inhibition Delays Neuroblastoma Tumor Growth and Genes Upregulated in Tumors with High RAS Expression Can Be Identified Using Gene Set Enrichment Analysis</strong></td>
<td>10:08 AM - 10:14 AM</td>
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<tr>
<td>Modupeola Diyaolu, MD, Vinodh Rajagopalan, Ph.D., D.V.M, Min Huang, MD, PhD, Jasmine C. Zeki, BA, Rachel Greathouse, BA, John O'Bryan, PhD and Bill Chiu, MD FACS. Stanford Medical Center, Stanford, CA, Medical University of South Carolina, Charleston, SC</td>
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<tr>
<td><strong>SF121. Bariatric/Foregut II</strong></td>
<td>10:00 AM - 10:55 AM</td>
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<td>Presentation <strong>Enhanced Recovery After Bariatric Surgery: Further Reduction In Opioid Use With The Introduction Of Dexmedetomidine And Transversus Abdominis Plane Block</strong></td>
<td>10:25 AM - 10:31 AM</td>
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<tr>
<td>Yewande Rukayat. Alimi, MD, Erin Crawford, MD, Salome Hoorzuk, MSN, Nathalie Cheng, MD, Amy Lu, MD MPH, Lindsay Kennedy, PA-C, Tasnim Ahmed, BA, Micela Equivel, MD, Dan Elison. Azagury, MD FACS and Yulia Zak, MD FACS. Stanford University School of Medicine, Stanford, CA, Stanford Healthcare, Stanford, CA, Stanford University School of Medicine, Stanford, CA</td>
<td>Stanford University School of Medicine, Stanford, CA, Stanford Healthcare, Stanford, CA, Stanford University School of Medicine, Stanford, CA</td>
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<td><strong>SF122. Breast II</strong></td>
<td>10:00 AM - 10:55 AM</td>
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<tr>
<td>Presentation <strong>Prevention Of Post-op Lymphedema For Breast Cancer Surgery With Axillary Lymph Node Dissection Combined With Lympha And Lymphatic Preservation: Patient Selection And Outcomes</strong></td>
<td>10:34 AM - 10:37 AM</td>
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<tr>
<td>Mardi R. Karin, MD FACS, Hui He, PA-C, MS, Victoria R. Posternak, RN, MS, AOCNS, Audrey Bowler, AA and Dung Nguyen, MD, PharmD. Stanford University Department of Surgery, Palo Alto, CA, Stanford Cancer Center Southbay, San Jose, CA</td>
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<tr>
<td><strong>SF141. Colon and Rectal Surgery I</strong></td>
<td><strong>Presentation</strong> Where There Is Fat There Is Fibrosis: Elucidating The Mechanisms Of Creeping Fat-driven Stricture Formation.</td>
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<td><strong>SF144. Plastic and Maxillofacial Surgery I</strong></td>
<td><strong>Presentation</strong> Denervation During Mandibular Distraction Osteogenesis Results In Impaired Osteogenesis</td>
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<td><strong>Presentation</strong> Single Cell Rna Sequencing Reveals Fibroblast Heterogeneity Across Mouse And Human Embryonic Origins</td>
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<td><strong>Presentation</strong> Topical Deferoxamine Patch Is Superior To Direct Injection For The Treatment Of Radiation Induced Skin Fibrosis</td>
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<td><strong>Presentation</strong> Effects Of Beta-3 Adrenergic Receptor Agonist Treatment In Murine Full Thickness Dorsal Cutaneous Wounds</td>
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<td><strong>Presentation</strong> Local Vitamin E Administration Improves Fat Graft Retention And Radiation-induced Fibrosis In A Mouse Model</td>
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<td><strong>Presentation</strong> Adipose Precursor Cell-embedded Collagen Gels Attenuate Inflammation And Improve Tissue Perfusion In Cutaneous Wounds</td>
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<tr>
<td><strong>SF154. Surgical Education I</strong></td>
<td><strong>Presentation</strong> ENTRUST: A Serious Game-based Virtual Patient Platform To Assess Entrustable Professional Activities (EPAs) In Surgical Education</td>
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</tbody>
</table>
### SF162. Health Services Research II

**Presentation** *Sex Differences In Postoperative Complications And Mortality*

Qi Yan, MD, JEONGSOO KIM, PhD, Katherine M. Reitz, MD, Daniel E. Hall, MD, MDiv, MHSc, Myrick C. Shinall, Jr, MD, PhD, Karyn B. Stitzenberg, MD, MPH, Lillian S. Kao, MD, Elizabeth George, MD, MS, Chen-Pin Wang, PhD and Paula K. Shireman, MD, MS, MBA. University of Texas Health San Antonio, South Texas Veterans Health Care System, University Health System, San Antonio, TX, University of Texas Health San Antonio, San Antonio, TX, University of Pittsburgh, Pittsburgh, PA, Veterans Affairs Pittsburgh Healthcare, University of Pittsburgh, UPMC, Pittsburgh, PA, Vanderbilt University Medical Center, Nashville, TN, University of North Carolina, Chapel Hill, NC, University of Texas Health Science Center Houston, Houston, TX, Stanford University School of Medicine, VA Palo Alto Healthcare System, Stanford, CA

**Presentation** *Disparities In Outcomes After Emergency Surgery In The Rio Grande Valley Of Texas*

Janelle C. Chavez, BSA, Sherry M. Wren, MD, FACS and Lisa M. Knowlton, MD, FACS. Stanford University School of Medicine, Stanford, CA

**Presentation** *The Environmental Impact Of Surgery*

Maia Shoham, BS, Natalie Baker, MS, Meagan Peterson, MPH and Paige Fox, MD, PhD. Stanford University School of Medicine, Stanford, CA

**Presentation** *Traumatic Injury And Death Among Law Enforcement Officers*

Advait Patil, none, Lakshika Tennakoon, MD, MPhil, Jeff Choi, MD, Nicholas Hakes, BA, David Alan. Spain, MD, FACS and Jamie Tung, MD. Department of General Surgery, Stanford, CA

### SF183. Surgical Oncology II

**Presentation** *Cancer Associated Fibroblasts Share Highly-Conserved Phenotypes And Functions Across Tumor Types And Species*

Deshka S. Foster, MD, PhD, Michael Januszky, MD, PhD, Kathryn Elizabeth. Yost, BS, Malini Chinta, BA, Ashley L. Titan, MD, Irene L. Wapnir, MD FACS, Geoffrey C. Gurtner, MD FACS, Howard Y.. Chang, MD, PhD, Jeffrey Allen. Norton, MD FACS and Michael T.. Longaker, MD MBA FACS. Stanford University, Stanford, CA

### SF214. Surgical Oncology III

**Presentation** *Single Cell Transcriptomic Analysis Of A Patient With Metastatic Appendiceal Adenocarcinoma: A Stem Or Crypt Cell Like Neoplasm?*

Carlos Ayala, MD, PhD, Susan M. Grimes, BSc, Byrne Lee, MD FACS and Hanlee Ji, MD, PhD. Stanford University, Stanford, CA

### SF234. Vascular Surgery III

**Presentation** *Vascular1: Evaluation Of A Virtual Reality Ultrasound Guided Femoral Artery Access Training Module*

Suleman I. Khan, BA, Vishal Shenoy, BA, Elizabeth Nguyen, BS, Nabeel Farooqui, BS, William Caraccio, BS and Oliver Oppers. Aalami, MD. Stanford University School of Medicine, Palo Alto, CA

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*SUNDAY, OCT. 24, 2021*
### SF232. Otolaryngology - Head and Neck Surgery
Channel 2

**Presentation** Associations Of Hearing Loss And Hearing Aid Use With Hospitalization In The Elderly  
11:46 AM - 11:49 AM

Anthony Thai, BS, Suleman I. Khan, BA, Jeff Choi, MD and Uchechukwu C. Megwali, MD, MPH. Stanford University School of Medicine, Stanford, CA

### SF233. Trauma/Burn/Critical Care VII
Channel 3

**Presentation** Reducing Mortality And Delirium In Injured Older Adults: Results From The Development Of A Multidisciplinary Clinical Pathway  
11:13 AM - 11:19 AM

Caroline Park, MD, PhD, Ankur Bharija, MD and Kristan Lea. Staudenmayer, MD, MS, FACS. Stanford, Stanford, CA

### SF243. Plastic and Maxillofacial Surgery II
Channel 3

**Presentation** Analysis Of Online Educational Materials Relating To Craniosynostosis  
12:46 PM - 12:49 PM

Christopher V. Lavin, MS, Evan J. Fahy, MD, Darren B. Abbas, MD, Nestor M. Diaz Deleon, BS, Daniel K. Lee, MD, michelle griffin, MBChB, PhD, megan EW. king, BS, Nicholas Guardino, BS and Derrick C. Wan, MD FACS. Stanford University - Hagey Laboratory, Stanford, CA

### SF242. Health Services Research III
Channel 2

**Presentation** Introduction  
12:00 PM - 12:01 PM

Shipra Arya, MD, SM, FACS, Stanford, California

### SF244. Surgical Oncology V
Channel 4

**Presentation** Predictors Of Desmoid Recurrence After Surgical Management From The US. Sarcoma Collaborative  
12:19 PM - 12:25 PM

Konstantinos Chouliaras, MD, Cecilia Grace. Ethun, MD, MS, George A., Poultsides, MD FACS, J. Harrison, Howard, MD, Callisias N. Clarke, MD, MS, FACS, FSSO, Kevin King, Roggin, MD FACS, Ryan Courtney. Fields, MD, FACS, Edward A. Levine, MD, KENNETH CARDONA, MD FACS and Konstantinos I. Votanopoulos, MD FACS, Roswell Park Cancer Center, Buffalo, NY, Memorial Sloan Kettering, New York, NY, Stanford University, Palo Alto, CA, University of South Alabama, Mobile, AL, Medical College of Wisconsin, Milwaukee, WI, University of Chicago, Chicago, IL, Washington University School of Medicine, St. Louis, MO, Wake Forest University, Winston-Salem, NC, Emory University, Atlanta, GA

### SF254. Plastic and Maxillofacial Surgery III
Channel 4

**Presentation** The Impact Of Plastic Surgeons’ Attire On Patients' Perceptions  
1:43 PM - 1:46 PM

Fara Dayani, BS, Kometh Thawanyarat, BA and Rahim Nazerali, MD FACS. UCSF School of Medicine, San Francisco, CA, Augusta University, Athens, GA, Stanford University, Stanford, CA

### SF264. Pediatric Surgery III: Basic Science
Channel 4

**Presentation** The Effect Of Spring Diameter On Porcine Distraction Enterogenesis  
2:07 PM - 2:10 PM
Presentation Generation Of Porcine Ileum Through Spring-mediated Mechanical Distraction

Modupeola Diyaolu, MD, Anne-Laure Angele. Thomas, BS, Lauren Wood, MD and James C. Y. Dunn, MD FACS. Stanford Medical Center, Stanford, CA

SF274. Plastic and Maxillofacial Surgery IV

Presentation Acellular Dermal Matrix Modulation Of The Peri-Prosthetic Breast Microenvironment During Breast Reconstruction

Ruth Tevlin, MB BAO BCh, MRCSI, MD, Michael Januszuk, MD PhD, Michelle Griffin, MB ChB, MRCS, PhD, Kerry Shefren, NP, Charles K.F. Chan, PhD, Arash Momeni, MD FACS, Derrick C. Wan, MD FACS and Michael T. Longaker, MD MBA FACS. Stanford Hospital and Clinics, Stanford, CA, Stanford University, Stanford, CA, Stanford Hospital and Clinics, Palo Alto, CA

Presentation Autologous And Implant-based Breast Reconstruction Outcomes In Patients With Autoimmune Connective Tissue Diseases

Suleman I. Khan, BA, Pooja Suguna. Yesantharao, MS, Mallory Rowley, BS, Jennifer K. Shah, BS, Abu B. Rogers, BS and Rahim Nazerali, MD FACS. Division of Plastic Surgery, Stanford University School of Medicine, Palo Alto, CA, Department of Plastic & Reconstructive Surgery, Johns Hopkins Hospital, Baltimore, MD, State University of New York Upstate Medical University, Syracuse, NY

Presentation Preoperative β-lactam Antibiotic Prophylaxis Is Superior To Bacteriostatic Agents In Immediate Breast Reconstruction With Acellular Dermal Matrix

Travis J. Miller, MD, Austin C. Remington, MD, Dung H. Nguyen, MD, Geoffrey C. Gurtner, MD FACS and Arash Momeni, MD FACS. Stanford School of Medicine, Palo Alto, CA, University of Michigan, Ann Arbor, MI

Presentation The Impact Of Reconstructive Modality On The Severity Of Postoperative Complications In Breast Reconstruction

Rachel Pedreira, MD, Ruth Tevlin, MB BAO BCh MRCSI MD, Michelle Griffin, MB ChB MRCS PhD, Derrick Wan, MD and Arash Momeni, MD FACS. Stanford University Division of Plastic and Reconstructive Surgery, Stanford, CA, Stanford University Division of Plastic and Reconstructive Surgery, Palo Alto, CA

SF273. Pediatric Surgery IV: Clinical Outcomes

Presentation Relationship Between Comorbidities And Child Abuse: A National Trauma Data Bank Study

Modupeola Diyaolu, MD, Chaonan Ye, BA, MS and Stephanie D.. Chao, MD FACS. Stanford Medical Center, Stanford, CA

MONDAY, OCT. 25, 2021

PS325. Surgical Innovation: Taking an Idea All the Way

Presentation Protecting Your Ideas and Patents

Dan E. Azagury, MD, FACS, Stanford, California

Presentation Involving Your Academic Institutions

Carla M. Pugh, MD, PhD, FACS, Stanford, California

PS374. The Role of Artificial Intelligence in Surgery: Future or Fantasy?
## Channel 4

**Presentation The Promise of Artificial Intelligence**

Elsie G. Ross, MD, Stanford, California

3:01 PM - 3:14 PM

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## TUESDAY, OCT. 26, 2021

**PS425. Decreasing Health Care Disparities Through Addressing Cultural Competence**

Channel 5

**Presentation How Do You Design a Program Addressing the Needs of Faculty**

Sherry M. Wren, MD FACS, Palo Alto, California

10:24 AM - 10:36 AM

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## WEDNESDAY, OCT. 27, 2021


Channel 6

**Presentation Introduction**

Derrick C. Wan, MD FACS, Stanford, California
Venita Chandra, MD FACS, Belmont, California

2:00 PM - 2:02 PM

**Presentation Selection of Appropriate Biologies/Matrics/Colloids for Chronic Wounds**

Matthew Murphy, Palo Alto, California

2:11 PM - 2:20 PM

**Presentation Selection of Definitive Therapy for Wounds with Vascular Etiology**

Eri Fukaya, MD PhD, Palo Alto, California

2:20 PM - 2:29 PM

**Presentation Appropriate Use of Prophylactic/Therapeutic Antibiotics in Wound Care**

Jenny R. Aronson, MD, Palo Alto, California

2:29 PM - 2:38 PM

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## THURSDAY, OCT. 28, 2021

**SP100. e-Posters of Exceptional Merit**

5:00 PM - 5:30 PM

**Presentation Dermal Iron Chelation Reduces Indirect Radiation Injury**

Christopher V. Lavin, MS, Evan J. Fahy, MD, Darren B. Abbas, MD, Michelle Griffin, MBChB, Ph.D., Daniel K. Lee, MD, Nestor M. Diaz Deleon, BS, Nicholas Guardino, BS, Geoffrey C. Gurtner, MD FACS, Michael T. Longaker, MD MBA FACS and Derrick C. Wan, MD FACS. Stanford University - Hagey Laboratory, Stanford, CA

5:00 PM - 5:00 PM

**Presentation Outcome-specific Injury Scores (OSIS): Development And Validation Of Tailored Prediction Tools For Injured Older Adults**

Jeff Choi, MD MSc, Lakshika Tennakoon, MD MPhil, David Alan. Spain, MD, FACS and Kristan Lea. Staudenmayer, MD MSc FACS. Stanford University, Stanford, CA

5:00 PM - 5:00 PM

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**SP110. Health Services Research**

5:00 PM - 5:30 PM
**Presentation** A National Evaluation Of Ambulatory Surgery Utilization Among Emergency General Surgery And Trauma Patients

Lakshika D. Tennakoon, MD, MPhil, Nicholas Alexander. Hakes, BA, David Alan. Spain, MD, FACS and Lisa M. Knowlton, MD, MPH, FACS. Department of General Surgery, Stanford, CA

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**SP115. Ophthalmic Surgery**

**Presentation** Readability And Content Analysis Of Online Resources For Pediatric Ophthalmology

Suleman I. Khan, BA, Adem Idrizi, BS, Rida I. Khan, BA, Thinzar S. Htwe, BS and Euna Koo, MD. Byers Eye Institute at Stanford University, Palo Alto, CA

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**SP119. Plastic/Maxillofacial Surgery**

**Presentation** Suprazygomatic Maxillary Nerve Blocking Reduces Postoperative Pain And Opioid Use Following Bimaxillary Osteotomy

Christopher V. Lavin, MS, Daniel K. Lee, MD, Evan J. Fahy, MD, Darren B. Abbas, MD, Michelle Griffin, MBChB, PhD, Megan E. King, BS, Arash Momeni, MD FACS, Michael T. Longaker, MD MBA FACS and Derrick C. Wan, MD FACS. Stanford University - Hagey Laboratory, Stanford, CA, Stanford University, Stanford, CA

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**Presentation** Optimizing Cutometer Mpa 580 Calculated Parameters To Determine In-vivo Elasticity Of Human Skin

Darren B. Abbas, MD, Christopher V. Lavin, M.S., Evan Fahy, MB Bch BAO, MCh, Michelle Griffin, MBChB, Ph.D, Nicholas Guardino, B.S., Daniel Lee, M.D., Geoffrey C. Gurtner, MD FACS, Michael T. Longaker, MD MBA FACS and Derrick C. Wan, MD FACS. Stanford University School of Medicine, Stanford, CA

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**Presentation** Transdermal Deferoxamine In A Porcine Model Is A Safe Treatment To Improve Elasticity Secondary To Radiation-induced Fibrosis

Darren B. Abbas, MD, Evan J. Fahy, MB Bch BAO, MCh, Christopher V. Lavin, M.S., Michelle Griffin, MBChB, PhD, Nestor Manuel Diaz Deleon, B.S., Megan EW. King, B.S., Geoffrey C. Gurtner, MD FACS, Michael T. Longaker, MD MBA FACS and Derrick C. Wan, MD FACS. Stanford University School of Medicine, Stanford, CA

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**Presentation** A Novel Murine Model Of Chronic Ischemic Cutaneous Wound Healing

Evan James. Fahy, MB Bch BAO, MCh, Darren Abbas, MD, Christopher V. Lavin, MS, Michelle Griffin, MBBS, PhD, Megan E. King, BS, Michael T. Longaker, MD MBA FACS and Derrick C. Wan, MD FACS. Stanford, Stanford, CA, Stanford, Atherton, CA, Stanford, Daly City, CA

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**Presentation** Temperature Influence On Scanning Laser Doppler Flowmetry In Anesthetized Mice

Evan James. Fahy, MB Bch BAO, MCh, Christopher V. Lavin, MS, Darren Abbas, MD, Michelle Griffin, MBBS, PhD, Megan E. King, BS, Michael T. Longaker, MD MBA FACS and Derrick C. Wan, MD FACS. Stanford, Stanford, CA

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**Presentation** Comparative Cytokine Profiling Of Wound Tissue Homogenate From Irradiated And Non-irradiated Skin

Evan James. Fahy, MB Bch BAO, MCh, Darren Abbas, MD, Christopher V. Lavin, MS, Michelle Griffin, MBBS, PhD, Michael T. Longaker, MD MBA FACS and Derrick C. Wan, MD FACS. Stanford, Stanford, CA

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**Presentation** Dorsal Skin Fibrosis Secondary To Radiation Is Mitigated By Fat Grafting In Engrailed-1 Mice

Darren B. Abbas, MD, Evan J. Fahy, MB Bch BAO, MCh, Michelle Griffin, MBChB, PhD, Christopher V. Lavin, M.S., Nestor Manuel Diaz Deleon, B.S., Megan EW. King, B.S., Daniel Lee, M.D., Michael T. Longaker, MD MBA FACS and Derrick C. Wan, MD FACS. Stanford University School of Medicine, Stanford, CA

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**SP120. Surgical Education**

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<tr>
<th><strong>Presentation</strong></th>
<th><strong>Barriers For Medical Students With Underrepresented Identities Considering Orthopedic Surgery Careers: A Qualitative Investigation</strong></th>
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<tr>
<td><strong>Speaker</strong></td>
<td>Katherine M. Gerull, MD, Priyanka Parameswaran, BA, Taylor Cogsil, BS, Donna Jeffe, PhD, Arghavan Salles, MD, PhD, FACS, and Cara A. Cipriano, MD</td>
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<tr>
<th><strong>Presentation</strong></th>
<th><strong>Pilot Testing Of A Fit-for-purpose Surgical Headlight In Ethiopia</strong></th>
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<tr>
<td><strong>Speaker</strong></td>
<td>Muaad Hussien, Medical student, Nichole Starr, MD, MPH, Tihitena Negussie, MD, Senait Bitew, RN, MPH, Elizabeth Johansen, BS, Belachew Dejene, MD, Abebe Alemayehu, MD, Seyoum Kassa, MD, Carmen Mesas. Burgos, MD, PhD and Thomas G. Weiser, MD, MPH, FACS, FCS(ECSA), FRCSEd (ad hom). Karolinska Institute, Stockholm, Sweden, Department of Surgery, University of California San Francisco, San Francisco, CA, Lifebox Foundation, Boston, MA, Department of Surgery, Black Lion Hospital, Addis Ababa University, Addis Ababa, Ethiopia, Spark Health Design, Hanover, MA, Department of Surgery, Menelik II Hospital, Addis Ababa, Ethiopia, Addis Ababa, Ethiopia, Department of Pediatric Surgery, Karolinska University Hospital, Stockholm, Sweden, Department of Surgery, Stanford University, Stanford, CA, Department of Clinical Surgery, Royal Infirmary of Edinburgh, University of Edinburgh, Edinburgh, United Kingdom</td>
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<tr>
<th><strong>Presentation</strong></th>
<th><strong>Surgical Lighting In Liberian Ors: Using Human-centered Design To Close A Critical Patient Safety Gap</strong></th>
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<tr>
<td><strong>Speaker</strong></td>
<td>Nina F. Capo-Chichi, MD, Muaad Hussein, Medical Student, Nichole Starr, MD MPH, Natnael Gebeyehu,, MD, Jared A. Forrester, MD, Paul T.. Whesseh, MD, Teyah S.. Moore, MD, Ansumana Camara, MD and Thomas G Weiser, MD MPH. CNHU Chirurgie Pediatrique Cotonou Benin, Cotonou, Benin, Karolinska Institute, Stockholm, Sweden, Stockholm, Sweden, University of California, San Francisco, SAN FRANCISCO, CA, Lifebox Foundation, New York, NY, St. Peter's Specialized Hospital, Ethiopia, Addis Ababa, Ethiopia, Stanford University, Stanford, CA, Redemption Hospital, Liberia, Monrovia, Liberia, C.B. Dunbar Hospital, Monrovia, Liberia, Redemption Hospital, Monrovia, Liberia, University of Edinburgh Department of Clinical Surgery, Edinburgh, United Kingdom</td>
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