Comprehensive Hair Transplant Course: LSE & FUE Hands-on Course

Two Parallel Courses for Physicians & Staff

Sign Up Your Staff for The Intensive Hands-On Assistant Course!

- Extensive, Hands-on Cadaver Workshop with Low Student-to-Faculty Ratio
- Unique Training Models

- Hairline Design
- Donor Harvest/Closure
- Recipient Site Creation
- Graft Dissection
- Graft Placement
- PRP, Laser, Etc.
- Crown Design
- Female Hairline Design
- Temporal Point Design
- Graft Calculation
- Marketing
- Consulting
- Medical Treatment
- Critical Thinking
- Quality Control
- FUE & LSE

Course Director:
Samuel M. Lam, MD, FACS, FISHRS
Course Co-Director:
Steven Gabel, MD, FACS, FISHRS
Assistant Course Director:
Aileen Ullrich
Honored Guest Speakers:
Jennifer Krejci, MD, FAAD
Marc Dauer, MD
Robert T. Leonard, Jr., DO, FISHRS, FAACS

International World-Class Faculty

In collaboration with

An offering through:
Practical Anatomy & Surgical Education
Department of Surgery
Saint Louis University School of Medicine

slu.edu/medicine/pase
Welcome!

Dr. Sam Lam

I truly hope that when this course happens in July, 2022 that Covid is a thing of the past. We were able to successfully run the first in-person hair transplant meeting in 2021 since the inception of the pandemic using very rigorous safety measures that still allowed excellent faculty-student interactions in the hands-on laboratory. As I have always said, it is not as important that you watch me do surgery, as it is for me to watch you do surgery. It still amazes me that in minutes of correcting student errors in the lab I see significant improvement in their technique. It reinforces to me the absolute value that a hands-on laboratory experience offers you. I would also like to welcome my new co-director Steve Gabel MD, who will help me develop and run the program in 2022 and beyond. He brings a deep passion for hair surgery and has been part of the course already for many years. Aileen Ullrich, who has also been a valuable part of the assistant program for many years, now takes the helm as the course director for the Assistant's Program from Emina Vance, who will continue to serve as a senior advisor and faculty member. I give them a warm-hearted welcome and I cannot wait to see you at SLU in 2022!

(Of note, we sold out last year very early with a long waiting list. I encourage you to book your space as soon as you can!)

Dr. Steven Gabel

I am honored to be serving as the new co-director for the Hair Transplant 360 Workshop. This course is an amazing opportunity for new and experienced physicians and their staff to learn from some of the leading experts in the field of hair restoration from around the world. The days are packed with several hours of lectures covering many essential topics in both medical and surgical hair restoration. This is followed in the afternoon with the small group, hands-on laboratory sessions where attendees learn FUE donor harvesting techniques with various motorized and non-motorized devices, linear strip harvesting, graft preparation, hairline and crown design with recipient site creation, and graft placement. The 2022 workshop has been designed to provide one of the most comprehensive, hands-on programs for attendees to build their knowledge base in all aspects of hair restoration surgery.

Aileen Ullrich

Welcome to the 2022 hands-on Assistants' Workshop. We had another amazing group of novice to highly experienced students in 2021, and yet everyone left the course feeling more confident in their skills and inspired towards quality improvement. I have been working alongside Emina Vance at this workshop since 2013, and I am honored to be able to continue this course that she has spent years tirelessly refining. She is an amazing teacher and shares my passion for inspiring excellence in hair-transplant surgery.
For those new to hair restoration surgery, it is highly encouraged that you view this online lecture series prior to the Workshop. It is an excellent primer and will enable you to get the most out of Workshop. It was developed by the CME Committee of the International Society of Hair Restoration Surgery and includes pre-recorded, comprehensive lectures covering medical and surgical hair restoration. In addition, you may earn CME credit from the successful completion of this enduring material via the ISHRS.

The fee is $300 for members of the ISHRS, $350 for member-applicants, and $450 for non-member physicians.

For the list of lectures, viewing requirements, and to order, go to: http://www.ishrs.org/content/basics-lecture-series

The International Society of Hair Restoration Surgery (ISHRS) is the preeminent medical association in the hair restoration field composed of more than 1,200 members throughout 70 countries. The ISHRS is dedicated to achieving excellence in patient outcomes by promoting the highest standards of medical practice, medical ethics, and research in the medical hair restoration industry. The ISHRS provides continuing medical education to physicians specializing in hair transplant surgery. Among its CME Program, the annual ISHRS World Congress is a highlight of the year in which the latest techniques, treatments, and outcomes are shared, discussed and debated. It is not to be missed!
St. Louis Attractions
St. Louis offers lively attractions throughout the city for visitors of any age. Forest Park is less than 4 miles from Practical Anatomy and Surgical Education and offers the Art Museum, Science Center, Zoo, Jewel Box greenhouse, History Museum, 7.5-mile biking, jogging and skating path and lakes all for FREE. The downtown riverfront is a short cab ride from the hotels and offers attractions including the Old Cathedral, Gateway Arch and the Jefferson National Expansion Memorial and Museum.

Register Online at http://slu.edu/medicine/pase

ACCREDITATION:
Saint Louis University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CREDIT DESIGNATION:
Saint Louis University School of Medicine designates this live activity for a maximum of: 19.5 AMA PRA Category 1 Credits™ for Physicians. Physicians should only claim credit commensurate with the extent of their participation in the activity. A certificate of attendance will be issued for Surgical Assistants. The certificate will reflect the activity was approved for 19.5 AMA PRA Category 1 Credits™. It is the responsibility of the participant to understand their boards CE approval process.

The education the participant gains through our CME activities does not satisfy training requirements to perform the surgery.

Course Director:
Samuel M. Lam, MD, FACS, FISHRS

Course Co-Director:
Steven Gabel, MD, FACS, FISHRS

Honored Guests:
Marc Dauer, MD
Jennifer Krejci, MD, FAAD
Robert T. Leonard, Jr., DO, FISHRS, FAACS

Live International Lecturer:
Shady El-Maghraby, MD, MSc, FISHRS

Faculty:
Ken Buchwach, MD, FACS
Vance Elliott, MD, FISHRS
Nicole E. Rogers, MD, FAAD, FISHRS
Paul T. Rose, MD, FAAD, FISHRS, JD
Lawrence Samuels, MD, FISHRS
Marie Schambach, MD, FISHRS
Kenneth L. Williams, Jr., DO, FISHRS

Video Faculty:
David Josephitis, DO, FISHRS
Sara Wasserbauer, MD, FISHRS

Assistant Course Director:
Aileen Ullrich

Surgical Assistants Faculty:
Susana Andrade
Laura Burdine
Rita Kordon, RN
Tina Lardner
Al Romero
Darla Stewart
Emina Vance, MD

Faculty subject to change, for updates, please go to http://slu.edu/medicine/pase

Practical Anatomy and Surgical Education
Attn: Course Coordinator
3839 Lindell Blvd., St. Louis, MO 63108 USA
Phone: (314) 977-7400
Fax: (314) 977-7345
E-mail: pa@slu.edu
Website: http://slu.edu/medicine/pase
**Friday, July 22, 2022**

### LECTURES

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>6:45 am</td>
<td>SIGN-IN and BREAKFAST</td>
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<tr>
<td>7:00 am</td>
<td>Laboratory Guidelines &amp; Safety/ISHRS Introduction</td>
<td>S. Lam</td>
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<tr>
<td>7:15 am</td>
<td><strong>HAIR BASICS</strong> Scalp Anatomy Relevant for Every Hair Surgeon</td>
<td>S. Gabel</td>
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<tr>
<td>7:35 am</td>
<td><strong>HAIR BASICS</strong> Principles of Hair Transplantation</td>
<td>S. Gabel</td>
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<tr>
<td>7:55 am</td>
<td><strong>HAIRLINE DESIGN</strong> Simplified Macro Male Hairline Design: A Focus on Shape and Position</td>
<td>V. Elliott</td>
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<tr>
<td>8:10 am</td>
<td><strong>HAIRLINE DESIGN</strong> Live Demo of Male Hairline Design</td>
<td>V. Elliott</td>
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<tr>
<td>8:25 am</td>
<td><strong>DONOR ANESTHESIA</strong> Linear-Strip Excision (LSE) Scalp Anesthesia</td>
<td>S. Lam</td>
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<tr>
<td>8:40 am</td>
<td><strong>DONOR ANESTHESIA</strong> FUE Scalp Anesthesia</td>
<td>S. Lam</td>
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<tr>
<td>9:00 am</td>
<td>BREAK &amp; EXHIBITS</td>
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<tr>
<td>9:30 am</td>
<td><strong>DONOR REGION</strong> FUE vs. LSE Selection &amp; Critical Thinking</td>
<td>M. Schambach</td>
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<tr>
<td>9:45 am</td>
<td><strong>DONOR REGION</strong> Graft Calculation &amp; Planning</td>
<td>S. Gabel</td>
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<tr>
<td>10:00 am</td>
<td><strong>DONOR REGION</strong> LSE Donor Preparation, Tumesence, Harvesting &amp; Closure</td>
<td>V. Elliott</td>
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<tr>
<td>10:30 am</td>
<td><strong>DONOR REGION</strong> FUE Donor Harvesting: Principles &amp; Techniques</td>
<td>M. Schambach</td>
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<tr>
<td>10:45 am</td>
<td><strong>RECIPIENT REGION</strong> How Hair Grows (Live Demo)</td>
<td>S. Lam</td>
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<tr>
<td>10:55 am</td>
<td><strong>RECIPIENT REGION</strong> Recipient-Site Creation Instrumentation &amp; Design</td>
<td>S. Lam</td>
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<tr>
<td>11:10 am</td>
<td><strong>RECIPIENT REGION</strong> Recipient-Site Planning &amp; Distribution</td>
<td>V. Elliott</td>
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<tr>
<td>11:35 am</td>
<td><strong>GRAFT MANAGEMENT</strong> LSE Slivering &amp; Dissection (Video)</td>
<td>A. Ullrich</td>
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<tr>
<td>11:40 am</td>
<td><strong>GRAFT MANAGEMENT</strong> Graft Placement &amp; FUE Graft Inspection (Video)</td>
<td>T. Lardner</td>
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<tr>
<td>11:50 am</td>
<td><strong>GRAFT MANAGEMENT</strong> Graft Quality &amp; Survival (Video)</td>
<td>E. Vance</td>
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<tr>
<td>12:00 pm</td>
<td>PRACTICE: Information about the International Society of Hair Restoration Surgery (ISHRS)</td>
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<td></td>
<td>PRACTICE: Preparing for the ABHRS Exam &amp; Ethics for the Hair Surgeon</td>
<td>K. Williams</td>
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<tr>
<td>12:15 pm</td>
<td>LUNCH &amp; EXHIBITS</td>
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### HANDS-ON CADAVER LAB

**Physician Faculty**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>1:00 pm</td>
<td>Hairline Design</td>
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<tr>
<td>2:00 pm</td>
<td>Recipient-Site Creation</td>
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<tr>
<td>3:00 pm</td>
<td>Break &amp; Exhibits</td>
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<tr>
<td>3:30 pm</td>
<td><strong>GROUP 1: LSE Donor Harvesting</strong></td>
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<td></td>
<td><strong>GROUP 2: FUE Donor Harvesting</strong></td>
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<tr>
<td>4:30 pm</td>
<td><strong>GROUP 1: LSE Donor Harvesting</strong></td>
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<tr>
<td></td>
<td><strong>GROUP 2: LSE Donor Harvesting</strong></td>
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<tbody>
<tr>
<td>5:30 pm</td>
<td>Patient Consultation (Live Demo)</td>
<td>V. Elliott</td>
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<tr>
<td>5:40 pm</td>
<td><strong>MEDICAL MANAGEMENT</strong> Medical Management for Male and Female Hair Loss</td>
<td>J. Krejci</td>
</tr>
<tr>
<td>6:00 pm</td>
<td><strong>DERMATOLOGY</strong> Scalp Pathologies: Scarring &amp; Non-Scarring Alopecias: What Every Surgeon Must Know</td>
<td>N. Rogers</td>
</tr>
<tr>
<td>6:15 pm</td>
<td><strong>DERMATOLOGY</strong> Dermoscopy Fundamentals &amp; How I Use It</td>
<td>N. Rogers</td>
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<tr>
<td>6:30 pm</td>
<td>Adjourn – Shuttles to Hotels</td>
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**NOTE:**

Please go to: slu.edu/medicine/pase

for new safety guidelines to be implemented during workshops.
Saturday, July 23, 2022

6:45 am  SIGN-IN & BREAKFAST

LIVE INTERNATIONAL LECTURES

7:00 am  FUE Disasters & Repairs (Live from Egypt) ................................................................. S. El-Maghraby

LECTURES

7:40 am  DONOR MANAGEMENT Age and Norwood Specific Transplant Planning: Principles of Safety & Long-Range Decision Making . S. Gabel
7:55 am  DONOR MANAGEMENT FUE vs. LSE Decision-Making ......................................................... S. Lam
8:10 am  DONOR MANAGEMENT FUE vs. LSE Donor Availability & Calculations .................................... P. Rose
8:30 am  DONOR MANAGEMENT FUE Donor Management: Planning for Future Sessions ........................................................................... M. Schambach
8:45 am  SPECIAL SURGICAL TOPICS Temporal Hairline & Lateral Hump Reconstruction: Planning, Design, & Pitfalls ........................................ S. Lam
9:00 am  SPECIAL SURGICAL TOPICS Female Hair Loss & Hair Restoration ............................................................................................. S. Lam
9:15 am  SPECIAL SURGICAL TOPICS Crown Hair Transplant .............................................................................................. S. Lam
9:30 am  SPECIAL SURGICAL TOPICS Eyebrow Hair Transplant ........................................................................................................ M. Dauer
9:45 am  SPECIAL SURGICAL TOPICS FUE Skin-Type Challenges, Complications, and Difficult Situations ............................................. M. Schambach
10:00 am  BREAK & EXHIBITS

LECTURES

10:30 am  PRACTICE FUE Operative Set Up and Time Flow (Video) ........................................................ D. Josephitis
10:40 am  PRACTICE LSE Operative Set Up and Time Flow (Video) ............................................................ K. Williams
10:50 am  PRACTICE Postoperative Care ................................................................................................. S. Gabel
11:00 am  SPECIAL SURGICAL TOPICS Beard & Body Hair FUE Pearls, Pitfalls, Techniques .............................................................. M. Schambach
11:15 am  SPECIAL SURGICAL TOPICS Difficult Cases ................................................................................. S. Lam & Physician Faculty
11:30 am  ANCILLARY MEASURES Storage Solutions & Graft Survival Studies ........................................... S. Lam
11:45 am  GRAFT MANAGEMENT Critical Thinking During Graft Preparation and Placement ........................................................ E. Vance
12:05 pm  PRACTICE Camouflaging Products & Procedures: What You Need to Know .............................................................. E. Vance
12:10 pm  PRACTICE General Office Setup: How to Select Instruments & Staff .............................................. E. Vance
12:15 pm  LUNCH & EXHIBITS
HANDS-ON CADAVER LAB  Physician  & Assistant Faculty

Graft Placement: With Forceps & Implanters.

4:00 pm  Break & ExhibitS

LECTURES

4:30 pm  SPECIAL SURGICAL TOPICS  FUE Instrumentation & Punch Characteristics ................................................................. K. Williams
4:40 pm  SPECIAL SURGICAL TOPICS  Difficult Situations ........................................................................................................ N. Rogers
5:00 pm  GRAFT MANAGEMENT  Critical Thinking “What Went Wrong?” ................................................................................ E. Vance
5:15 pm  ANCILLARY MEASURES  Low-Level Laser Therapy (Video) .................................................................................... S. Wasserbauer
5:25 pm  ANCILLARY MEASURES  Frontiers of Regenerative Medicine (PRP, Acellular Matrix, ATP, Stem Cells) ......................... S. Lam
5:40 pm  PRACTICE  Practice Management & Leadership ........................................................................................................ S. Lam
5:50 pm  PRACTICE  Small Cases: How to Start Small but Think Big .......................................................................................... N. Rogers
6:00 pm  PRACTICE  The Fundamentals of Building a Hair Transplant Business ......................................................................... R. Leonard
6:10 pm  PRACTICE  How I Do It Physician Faculty Panel .......................................................................................................... S. Lam & Physician Faculty
6:30 pm  Closing Remarks & ADJOURN .............................................................................................................................................. S. Lam
**Friday, July 22, 2022**

6:45 am  Sign-In & Breakfast

7:00 am  Welcome .................................................. S. Lam

**LECTURES**

7:15 am  Faculty Introduction, Course and Handout Overview ................................................................. A. Ullrich

7:30 am  **HAIR BASICS**  Hair Loss & Hair Anatomy ............................................................................ E. Vance

7:45 am  **HAIR BASICS**  Principles of Hair Restoration & Graft Survival ............................................. E. Vance

8:00 am  **PRACTICE & SETUP**  Clean Procedure & Lab Etiquette ......................................................... A. Ullrich

8:10 am  **TECHNIQUE**  Principle of Slivering & Graft Dissection ........................................................... A. Ullrich

8:15 am  **TECHNIQUE**  Trimming & Sorting ............................................................................................ A. Ullrich

8:20 am  **TECHNIQUE**  Magnification & Instrumentation ........................................................................ T. Lardner

8:25 am  **TECHNIQUE**  Principle of Graft Placement ................................................................................... T. Lardner

8:35 am  **TECHNIQUE**  Placing Strategy .................................................................................................... T. Lardner

8:40 am  **TECHNIQUE**  Magnification & Instrumentation ........................................................................ T. Lardner

8:50 am  **TECHNIQUE**  Principle of Graft Removal in FUE ................................................................. T. Lardner

9:00 am  **TECHNIQUE**  FUE Graft Evaluation ......................................................................................... T. Lardner

9:10 am  **TECHNIQUE**  Magnification & Instrumentation ........................................................................ T. Lardner

9:15 am  **TECHNIQUE**  Principle of Graft Placement Using Implanters .................................................. T. Lardner

9:25 am  **LAB OBJECTIVES**  Overview

- Work Under the Microscope
- Graft Preparation
  - Trimming and Sorting, Slivering (Optional)
  - Keep Intact Follicular Units, Keep Tissue Moist
- Graft Placement (Forceps and Implanters)
  - Proper Graft Handling & Correct Hair-Curl Orientation
  - Proper Body Position: Place on Both Sides of the Head
- Loading Implanters ............................................................................................................................... E. Vance

9:30 am  Break & Exhibits

**HANDS-ON CADAVER LAB**  Assistant Faculty

9:45 am  Demonstration: Microscope Adjustments, Dissection, Slivering

10:00 am Adjust Microscopes

10:10 am Hand-and-Eye Coordination (Inanimate Model)

10:20 am Graft Dissection, Trimming and Sorting, Slivering

12:15 pm Lunch & Exhibits

12:45 pm Demonstration: Graft Placement

1:00 pm Graft Placement

3:00 am Break & Exhibits

**HANDS-ON CADAVER LAB**  Assistant Faculty

3:30 pm Demonstration:
  - Graft Removal in FUE
  - Loading & Emptying Implanters

4:00 pm Graft Removal in FUE & Loading Implanters (Rotations)

5:00 pm Catchup Stations: Slivering, Dissection, Graft Placement, FUE Graft Removal, Implanters

6:30 pm Adjourn
Saturday, July 23, 2022

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<tr>
<th>Time</th>
<th>Session</th>
<th>Details</th>
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<tbody>
<tr>
<td>6:45 am</td>
<td>Sign-In and Breakfast</td>
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**LECTURES**

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:00 am</td>
<td>Critical Thinking</td>
<td>Quality Control in Graft Preparation &amp; Placement</td>
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<tr>
<td>7:30 am</td>
<td>Critical Thinking</td>
<td>Graft Trimming &amp; Sorting</td>
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<td>7:40 am</td>
<td>Critical Thinking</td>
<td>Graft Placement</td>
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<tr>
<td>7:50 am</td>
<td>Critical Thinking</td>
<td>Round Table Discussion</td>
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<tr>
<td>8:30 am</td>
<td>Hands-on Cadaver Lab</td>
<td>Assistant Faculty</td>
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<td>9:30 am</td>
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<td>Break &amp; Exhibits</td>
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<td>Catchup Stations: Slivering, Dissection, Graft Placement, FUE Graft Removal, Implanters</td>
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<td>12:15 pm</td>
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<td>Lunch &amp; Exhibits</td>
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<tr>
<td>1:00 pm</td>
<td>Practice &amp; Setup</td>
<td>SA Role</td>
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<tr>
<td>1:15 pm</td>
<td>Practice &amp; Setup</td>
<td>Postoperative Healing &amp; Care</td>
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<td>1:30 pm</td>
<td>Practice &amp; Setup</td>
<td>Patient Positioning for Placement: Chair and Pillows</td>
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<td>1:45 pm</td>
<td>Practice &amp; Setup</td>
<td>Surgical Flow Chart: Who Does What in Surgery</td>
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<tr>
<td>2:00 pm</td>
<td>Practice &amp; Setup</td>
<td>Office Setup Equipment and Instruments</td>
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<tr>
<td>2:15 pm</td>
<td>Practice &amp; Setup</td>
<td>Setting Up the Office: What We Like and Why</td>
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<tr>
<td>2:30 pm</td>
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<td>Break &amp; Exhibits</td>
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<tr>
<td>3:00 pm</td>
<td>Hands-on Cadaver Lab</td>
<td>Assistant Faculty</td>
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**INTERNATIONAL VIDEO LECTURES**

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<td>Practice &amp; Setup</td>
<td>FUE Surgical Flow</td>
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<tr>
<td>5:10 pm</td>
<td>Technique</td>
<td>Graft Implantation: Forceps or Implanters, When and Why</td>
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<tr>
<td>5:30 pm</td>
<td>Practice &amp; Setup</td>
<td>Virtual Visit: Australia &amp; Belgium</td>
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<tr>
<td>5:50 pm</td>
<td>Tips &amp; Tricks</td>
<td>Eyebrow Restoration</td>
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<tr>
<td>6:00 pm</td>
<td>Tips &amp; Tricks</td>
<td>Velcro for Long Hair FUE</td>
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<td>6:15 pm</td>
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<td>Round Table Discussion &amp; Closing Remarks</td>
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<tr>
<td>6:30 pm</td>
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<td>Adjourn</td>
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