



In collaboration with  
**AMERICAN SOCIETY OF  
INTERVENTIONAL PAIN PHYSICIANS**  
THE VOICE OF INTERVENTIONAL PAIN MANAGEMENT

**EARN UP TO  
31.5 CME CREDITS!**



# AGENDA

## 16TH ANNUAL TOBI ORTHOBIOLOGIC SYMPOSIUM

**EARN UP TO 31.5 CME CREDITS &  
MEET THE CRITERIA FOR ABIPP CERTIFICATION**



### ELEVATE YOUR PRACTICE: LEARN FROM THE EXPERTS

**DIDACTICS:**  
**AUG. 16, 2025**  
ONLINE WEBINAR  
(7.5 CME CREDITS)

**FULL-DAY LAB:**  
**AUG. 21, 2025**  
VITICUS CENTER, LAS VEGAS  
(8.5 CME CREDITS)

**SYMPOSIUM:**  
**AUG. 22-23, 2025**  
CAESARS PALACE, LAS VEGAS  
(15.5 CME CREDITS)

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# 16TH ANNUAL TOBI ORTHOBIOLOGIC SYMPOSIUM IN COLLABORATION WITH ASIPP



In collaboration with  
**AMERICAN SOCIETY OF  
INTERVENTIONAL PAIN PHYSICIANS**  
THE VOICE OF INTERVENTIONAL PAIN MANAGEMENT

## IMPORTANT MESSAGE FROM THE COURSE DIRECTORS

Dear Colleague,

We very much look forward to your participation in our upcoming conference!

This CME activity is provided as a service to physicians by The American Society of Interventional Pain Physicians (ASIPP) together with The Orthobiologic Institute (TOBI).

This CME activity will feature highly credentialed expert speakers presenting the latest science-based information in the rapidly evolving field of orthobiologic and regenerative medicine.

We appreciate your investment in the TOBI meeting and work to increase the value each year. We are pleased to inform you that we have extended the hands-on cadaver lab to a full-day session. To facilitate your preparation for the lab, we've introduced a comprehensive live virtual review course on August 16. As an added benefit, a non-CME recording will be provided at no cost to lab registrants and offered as an optional add-on for 2-day symposium registrants.

Please note that the CME activity is for continuing medical education purposes only, and is intended to assist the practitioner in visualizing and understanding

the procedures presented. This CME activity is designed to act as an adjunct to other instructional information and one-on-one training and certification that the practitioner may receive.

Importantly, please understand that this CME activity does not constitute training or certification to engage in or practice any such practices, techniques, services, or processes, or otherwise utilize the information provided. The information provided in the course should be incorporated into practice only after thorough analysis by the practitioner and receiving one-on-one training. This CME activity is not intended to dictate physician and/or nurse practices.

We would also like to remind you that the CMEs you earn at the TOBI webinar, lab, and symposium meet the 30 AMA PRA Category 1 Credits™ in regenerative medicine for ABIPP Competency Certification in Regenerative Medicine.

We hope to see you in Las Vegas in August!

Sincerely,

Laxmaiah Manchikanti, MD; Steven Sampson, DO, *Course Directors*

## CME AND GENERAL INFORMATION

### CME ACTIVITY NEED, GOAL, AND LIMITATIONS

As evidenced by the establishment of departments of regenerative medicine within major academic medical centers, and by the evolution of regulatory positions, the field of orthobiologics and regenerative medicine is rapidly growing. In order to have an understanding of possible future directions in healthcare, physicians have a need to update their knowledge of this field and how it may affect their patients and their practices. The overall goal this CME activity is to present physicians and mid-level practitioners with an in-depth review of multiple areas of orthobiologic and regenerative medicine. All listed faculty are invited and subject to change.

### OBJECTIVES

Upon completion of this CME activity, participants should be better able to

1. Discuss established and rapidly evolving concepts in regenerative medicine and orthobiologics.
2. Describe evolving regenerative medicine treatment options so as to be better prepared to answer patients' questions about these practices and procedures.

### IMPORTANT LIMITATION OF THIS CME ACTIVITY

This CME activity is for continuing medical education purposes only, and is intended only to assist the practitioner in visualizing and understanding the procedures presented. This CME activity is designed to act as an adjunct to other instructional information and one-on-one training and certification that the practitioner may receive.

Importantly, participation in this CME activity does not constitute training or certification to engage in or practice any techniques, services, or processes presented in the CME activity. Any information provided in this CME activity should be incorporated into practice only after thorough analysis by the practitioner and receiving one-on-one training. This CME activity is not intended to dictate physician and/or nurse practices, nor to promote adoption of any practices presented. Each practicing physician is responsible for the techniques he or she may choose to practice with respect to any procedures discussed or presented in this CME activity.

### ACCREDITATION AND CME CREDIT

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of The Institute for Medical Studies and The American Society of Interventional Pain Physicians. The Institute for Medical Studies is accredited by the ACCME to provide continuing medical education for physicians.

ASIPP® is now an ABA Registered CME Provider.

### CATEGORY 1 CREDIT

The Institute for Medical Studies designates this live activity for a maximum of 31.5 AMA PRA Category 1 Credits™. Please note that 7.5 AMA PRA Category 1 Credits™ are designated for the didactics webinar, 8.5 AMA PRA Category 1 Credits™ are designated for the cadaver lab, and 15.5 AMA PRA Category 1 Credits™ are designated for the symposium.

Physicians of Osteopathic Medicine — the American Osteopathic Association (AOA) accepts AMA PRA Category 1 Credits™ as AOA Category 2-B credit.

### PA, NP, AND RN CREDIT

**Physician Assistants:** The American Academy of Physician Assistants (AAPA) accepts AMA PRA Category 1 Credits™ from organizations accredited by the ACCME.

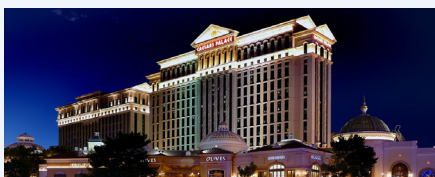
**Nurse Practitioners:** The American Academy of Nurse Practitioners (AANP) accepts AMA PRA Category 1 Credits™ from organizations accredited by the ACCME.

**APNs/RNs:** Most State Nursing Boards accept CE activities designated for AMA PRA Category 1 Credits™ towards re-licensure requirements. Check with your board to determine whether they will accept this CME activity towards your re-licensure. This activity is designated for up to 31.5 AMA PRA Category 1 Credit(s)™

### AMERICANS WITH DISABILITIES ACT AND SPECIAL SERVICES

Organizers fully comply with the legal requirements of the Americans with Disabilities Act and the rules and regulations thereof. If any participant in this educational activity is in need of accommodations, please contact the organizers at 270.554.9412 at least 10 days prior to the conference.

ASIPP® does not permit duplication or distribution of materials, or recording of lectures associated with this conference without the express written consent of the American Society of Interventional Pain Physicians. All rights reserved.



## ACCOMMODATIONS

Caesars Palace | 3570 Las Vegas Blvd, Las Vegas, NV 89109 | Phone: 702-862-3519 | <https://www.caesars.com/caesars-palace>

Online Reservations: <https://book.passkey.com/go/SCTOB5>

Phone Reservations: 866-227-5944 (Group Code: SCTOB5)

Note: Caesars Palace charges a processing fee for phone reservations

Single or Double Occupancy: \$199-\$279 (Wed. & Thurs.), \$259 (Fri. & Sat.) | \$30 charged per night for each additional guest. |

Maximum of four people per room. Room block rate ends July 28, 2025

# THE ORTHOBIOLOGIC INSTITUTE IN COLLABORATION WITH THE AMERICAN SOCIETY OF INTERVENTIONAL PAIN PHYSICIANS REGENERATIVE MEDICINE VIRTUAL REVIEW COURSE

Course Directors: Laxmaiah Manchikanti, MD; Steve Sampson, DO; and John Ferrell, MD

**SATURDAY, AUGUST 16, 2025** (All times listed in Central Time) | Topics and speakers are subject to change

## 8:00 am – 10:20 am

### SESSION I

- 8:00 am – 8:05 am Introduction to Technical Aspects of Webinar—**Webinar Staff**
- 8:05 am – 8:15 am Introduction to ASIPP, TOBI, and the Review Course  
**Michael Khadavi, MD**
- 8:15 am – 8:30 am ABIPP Board and Competency Certification:  
Can Competency Certification in Regenerative Medicine Enhance Your Practice?  
**Laxmaiah Manchikanti, MD**
- 8:30 am – 9:00 am PRP Basic Science  
**Walter I. Sussman, DO**
- 9:00 am – 9:35 am PRP Literature Review of Tendon and Cartilage  
**Paul Tortland, MD**
- 9:35 am – 10:05 am MSK Ultrasound Guided Injection Protocols and Techniques  
**Ariana DeMers, DO**
- 10:05 am – 10:20 am Panel Discussion: **Walter I. Sussman, DO; Paul Tortland, MD; Ariana DeMers, DO**

## 10:20 am – 10:35 am

### BREAK

## 10:35 am – 12:15 pm

### SESSION II

- 10:35 am – 11:05 am Bone Marrow Concentrate: Basic Science, BMA Technique, Literature Review  
**Don Buford, MD**
- 11:05 am – 11:30 am Intraosseous Injections: Basic Science Literature Review, and Techniques and Protocols  
**Brice Blatz, MD**
- 11:30 am – 12:00 pm Adipose Tissue: Basic Science Literature Review, Techniques, and Protocols  
**John Ferrell, MD**
- 12:00 pm – 12:15 pm Panel Discussion: **Don Buford, MD; Brice Blatz, MD; John Ferrell, MD**

## 12:15 pm – 1:00 pm

### LUNCH BREAK

## 1:00 pm – 3:00 pm

### SESSION III

- 1:00 pm – 1:25 pm Spine Anatomy and Pathophysiology  
**Annu Navani, MD**
- 1:25 pm – 1:50 pm Intradiscal PRP & BMC  
**Annu Navani, MD**
- 1:50 pm – 2:20 pm Spine Imaging and Decision Making  
**Mairin Jerome, MD**
- 2:20 pm – 2:45 pm Ultrasound and Fluoroscopy for Interventional Spine Biologics  
**Sean Mulvaney, MD**
- 2:45 pm – 3:00 pm Panel Discussion: **Annu Navani, MD; Mairin Jerome, MD; Sean Mulvaney, MD**

## 3:00 pm – 3:15 pm

### BREAK

## 3:15 pm – 5:30 pm

### SESSION IV

- 3:15 pm – 3:45 pm Understanding the Basics of Shockwave  
**John Knab, MD**
- 3:45 pm – 4:15 pm Orthobiologic Cases  
**Michael Khadavi, MD, Tammy J. Penhollow, DO; Rikin J. Patel, DO, Dr. Rowan V. Paul, MD; Danielle C. Aufiero, MD**
- 4:15 pm – 4:30 pm Panel Discussion  
Panelists: **Michael Khadavi, MD, Tammy J. Penhollow, DO; Rikin J. Patel, DO, Dr. Rowan V. Paul, MD; Danielle C. Aufiero, MD**
- 4:30 pm – 5:00 pm “Putting it all together” Panel  
Co-Chairs: **Laxmaiah Manchikanti, MD; Steve Sampson, DO; John Ferrell, MD**  
Panelists: **All Faculty**

## THE ORTHOBIOLOGIC INSTITUTE IN COLLABORATION WITH THE AMERICAN SOCIETY OF INTERVENTIONAL PAIN PHYSICIANS 16<sup>TH</sup> ANNUAL TOBI HANDS-ON CADAVER LAB SCHEDULE

Program Directors: Laxmaiah Manchikanti, MD; Steven Sampson, DO; and John Ferrell, MD

### THURSDAY, AUGUST 21, 2025 *Topics and speakers are subject to change*

8:00 AM – 5:30 PM (All times listed in Pacific Time) | Viticus Center, Oquendo Campus, 2425 E Oquendo Rd Las Vegas, NV 89120

Participants will select one of three hands-on procedural tracks based on their interest and training level. Each track includes a full day of expert-guided cadaver lab training, advanced techniques, and regenerative medicine applications.

#### Daily Schedule (All Tracks):

8:00 am – 9:00 am	Welcome & Orientation — <b>Laxmaiah Manchikanti, MD</b> and <b>John Ferrell, MD</b>
9:00 am – 12:00 pm	Morning Hands-On Training
12:00 pm – 1:00 pm	Lunch (Provided)
1:00 pm – 5:30 pm	Afternoon Hands-On Rotations

#### TRACK 1: MSK ULTRASOUND + PRP FUNDAMENTALS

**Ideal for: Beginner to intermediate clinicians seeking foundational skills.**

##### Morning Session:

9:00 am – 11:55 am	MSK Ultrasound: Anatomy, Identification, and Needle Guidance Instructors: <b>Paul Tortland, DO; Walter Sussman, DO</b>
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##### Afternoon Session:

1:00 pm – 1:55 pm	PRP & BMAC Processing + Shockwave & Laser Demo Instructors: <b>John Knab, MD; Rowan Paul, MD</b>
2:00 pm – 2:55 pm	Ultrasound-Guided Tenotomy Techniques Instructor: <b>Walter Sussman, DO</b>
3:00 pm – 3:55 pm	Shoulder Injection Techniques (US-Guided) Instructors: <b>Don Buford, MD; Ariana DeMers, DO</b>
4:00 pm – 4:55 pm	Elective - BMAC or MFAT Cadaver Procedure Instructors: <b>Don Buford, MD; Ariana DeMers, DO</b>
5:00 pm – 5:30 pm	Open Lab & Faculty Q&A Instructors: <b>All Lab Faculty</b>

#### TRACK 2: BMAC, MFAT, AND INTRAOSSEOUS (IO) TECHNIQUES

**Ideal for Intermediate providers focused on regenerative medicine procedures.**

##### Morning Session:

9:00 am – 9:55 am	Bone Marrow Aspiration Technique & Processing Instructors: <b>Don Buford, MD; Sean Mulvaney, MD</b>
10:00 am – 10:55 am	MFAT Harvest and Injections Instructors: <b>Ariana DeMers, DO; Sean Mulvaney, MD</b>
11:00 am – 11:55 am	Intraosseous (IO) Knee Techniques Instructors: <b>Brice Blatz, MD; Walter Sussman, DO</b>

##### Afternoon Session:

1:00 pm – 1:55 pm	Intraosseous (IO) Hip Techniques Instructors: <b>Brice Blatz, MD; Paul Tortland, MD</b>
2:00 pm – 2:55 pm	Elective: Intraosseous (IO) Hand/Foot Techniques Instructors: <b>Brice Blatz, MD; Michael Khadavi, DO</b>
3:00 pm – 3:55 pm	Shockwave & Laser for Bone/Joint Applications Instructors: <b>John Knab, MD; Rowan Paul, MD</b>
4:00 pm – 4:55 pm	Ultrasound-Guided Spine Injections (SI Joint, Iliolumbar, Sacrotuberous, etc.) Instructor: <b>Sean Mulvaney, MD</b>
5:00 pm – 5:30 pm	Open Lab & Faculty Q&A Instructors: <b>All Lab Faculty</b>



THE ORTHOBIOLOGIC INSTITUTE IN COLLABORATION WITH THE AMERICAN SOCIETY OF INTERVENTIONAL PAIN PHYSICIANS  
**16<sup>TH</sup> ANNUAL TOBI HANDS-ON CADAVER LAB SCHEDULE**

**THURSDAY, AUGUST 21, 2025** *Topics and speakers are subject to change*

**TRACK 3: SPINE INTERVENTIONS (INTERMEDIATE/ADVANCED)**

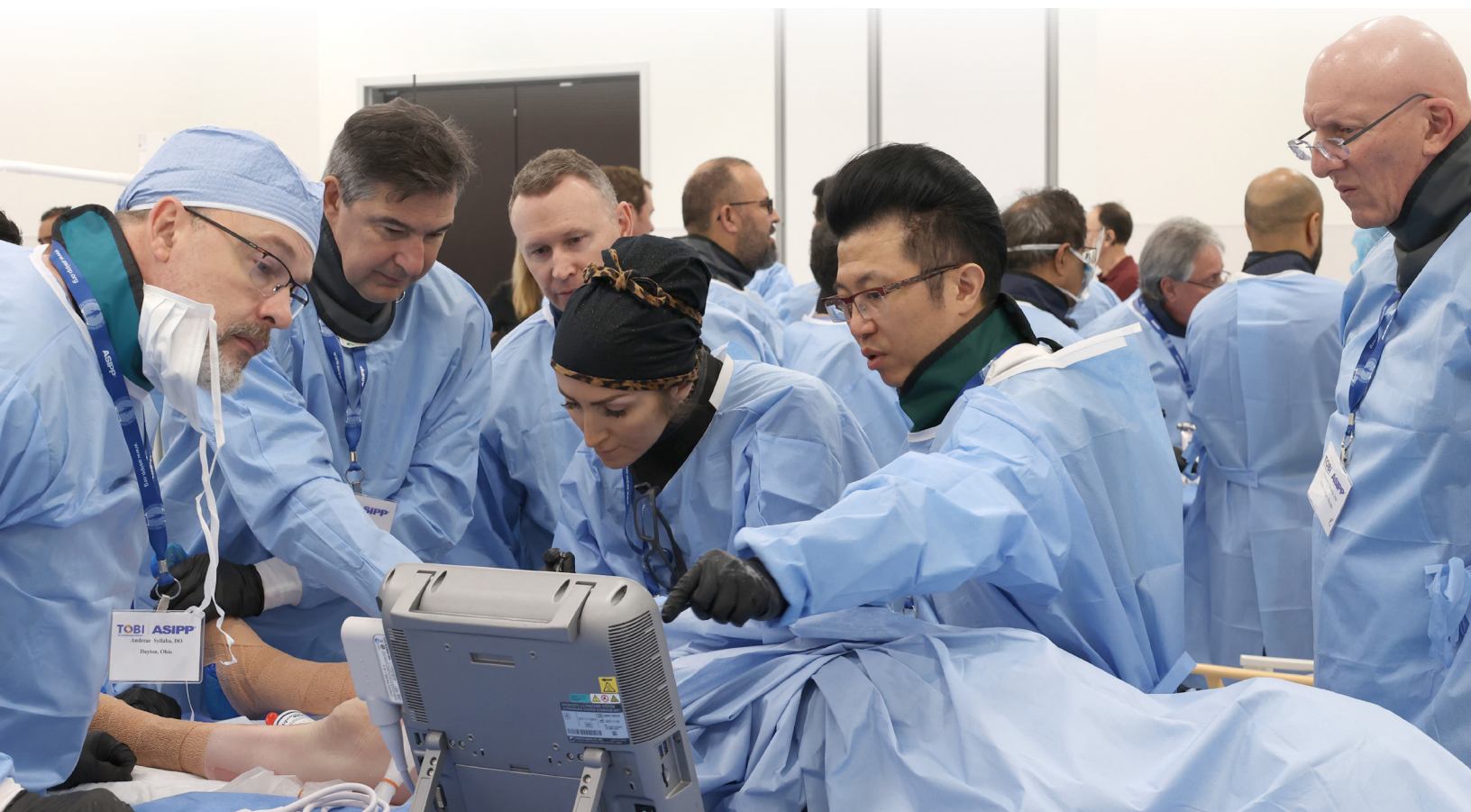
**Ideal for:** Advanced clinicians with spine injection experience.

**Morning Session:**

9:00 am – 9:55 am	Lumbar Epidurals – Interlaminar & Transforaminal Instructors: <b>Mairin Jerome, MD; Tammy Penhollow, MD</b>
10:00 am – 10:55 am	SI Joint Injections & Facet Joint Injections Instructors: <b>Mairin Jerome, MD; Rikin Patel, DO</b>
11:00 am – 11:55 am	Intradiscal Lumbar Techniques Instructors: <b>Sheri Albers, DO; Tammy Penhollow, DO</b>

**Afternoon Session:**

1:00 pm – 1:55 pm	Bone Marrow Aspirate Concentrate Instructors: <b>Don Buford, MD; Sean Mulvaney, MD</b>
2:00 pm – 2:55 pm	Shockwave & Laser Integration in Spine Instructors: <b>John Knab, MD; Rowan Paul, MD</b>
3:00 pm – 3:55 pm	Intraosseous (IO) Knee & Hip Applications Instructors: <b>Brice Blatz, MD; Paul Tortland, MD</b>
4:00 pm – 4:55 pm	Elective: MFAT Applications Instructors: <b>Randy Miller, MD; Paul Tortland, DO</b>
5:00 pm – 5:30 pm	Open Lab & Faculty Q&A Instructors: <b>All Lab Faculty</b>



## THE ORTHOBIOLOGIC INSTITUTE IN COLLABORATION WITH THE AMERICAN SOCIETY OF INTERVENTIONAL PAIN PHYSICIANS 16<sup>TH</sup> ANNUAL TOBI ORTHOBIOLOGIC SYMPOSIUM SCHEDULE

Course Directors: Laxmaiah Manchikanti, MD; Steven Sampson, DO; and John Knab, MD

**FRIDAY, AUGUST 22, 2025** (All times listed in Pacific Time) *Topics and speakers are subject to change*

<b>6:30 am – 4:00 pm</b>	<b>REGISTRATION</b>
<b>7:00 am – 7:55 am</b>	<b>BREAKFAST INSIDE THE EXHIBIT HALL</b>
<b>8:00 am – 12:00 pm</b>	<b>GENERAL SESSION</b>
8:00 am – 8:10 am	Future Role of Regenerative Medicine: TOBI-ASIPP Collaboration <b>Laxmaiah, Manchikanti, MD</b>
8:10 am – 8:25 am	TOBI Founder's Welcome <b>Steve Sampson, DO</b>
<b>8:25 am – 9:00 am</b>	<b>SAMPSON DISTINGUISHED LECTURE SERIES</b>
8:25 am – 8:30 am	Introduction to Sampson Distinguished Lecture Series <b>Michael Khadavi, MD</b>
8:30 am – 9:00 am	Orthobiologic Injections for Knee OA. Translating Research into Practice: A Challenging Journey <b>Giuseppe Filardo, MD, PhD</b>
<b>9:00 am – 10:45 am</b>	<b>PLATELET-RICH PLASMA (PRP)</b> <b>Don Buford, MD   Session Chair</b>
9:00 am – 9:15 am	Precision PRP: Navigating AAPM&R's 2025 Clinical Guidelines for Knee OA <b>Michael Khadavi, MD</b>
9:15 am – 9:30 am	Choosing the Right PRP Kit: Unlocking the Secret to Optimal Protocols and Outcomes <b>Don Buford, MD</b>
9:30 am – 9:45 am	Intraosseous PRP: Effects of WBCs, RBCs, and Platelet Concentration for Severe Knee Osteoarthritis <b>Jose Miguel Catalan, MD</b>
9:45 am – 10:00 am	PRP for Hip Labral Tears: Exploring Safety and Early Efficacy <b>Walter Sussman, DO</b>
10:00 am – 10:15 am	More Platelets, More Problems? Identifying populations that may benefit from multiple lower doses <b>Alberto Panero, DO</b>
10:15 am – 10:45 am	Ask the Experts Panel Discussion <b>Don Buford, MD   Panel Chair</b> <b>Michael Khadavi, MD; Jose Miguel Catalan, MD; Alberto Panero, DO; Walter Sussman, DO</b>
<b>10:45 am – 11:15 am</b>	<b>EXHIBIT HALL INTERMISSION</b> (Not Part of the CME Program, No CME Credit)
<b>11:15 am – 12:30 pm</b>	<b>BONE MARROW CONCENTRATE (BMC)</b> <b>Luga Podesta, MD   Session Chair</b>
11:15 am – 11:30 am	Bone Marrow Concentrate in UCL Tears: A New Pitch for Elbow Repair? Preliminary Data. <b>Luga Podesta, MD</b>
11:30 am – 11:45 am	The Art and Science of the Harvest: Clinical Pearls for Maximizing Cell Yield and Patient Comfort <b>Tammy Penhollow, DO</b>
11:45 am – 12:00 pm	BMC for MSK Disease: What Registry Data Reveals About Outcomes <b>Rowan Paul, MD</b>
12:00 pm – 12:30 pm	Interactive Panel Discussion with Q/A <b>Rowan Paul, MD   Panel Chair</b> <b>Tammy Penhollow, DO; Luga Podesta, MD</b>
<b>12:30 pm – 1:30 pm</b>	<b>LUNCH SYMPOSIUM</b> (Not Part of the CME Program, No CME Credit)

THE ORTHOBIOLOGIC INSTITUTE IN COLLABORATION WITH THE AMERICAN SOCIETY OF INTERVENTIONAL PAIN PHYSICIANS

# 16<sup>TH</sup> ANNUAL TOBI ORTHOBIOLOGIC SYMPOSIUM SCHEDULE

## FRIDAY, AUGUST 22, 2025 (CONTINUED) *Topics and speakers are subject to change*

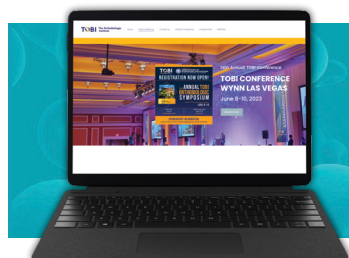
1:30 pm – 6:00 pm	<b>GENERAL SESSION</b>
1:30 pm – 2:00 pm	<b>COMMUNITY</b> <b>Scott Bruder, MD, PhD   Session Chair</b>
1:30 pm – 1:45 pm	Good Docs Gone Bad: Navigating Compliance in Medicine and Industry <b>Scott Bruder, MD, PhD</b>
1:45 pm – 2:00 pm	Beyond the Game: Regenerative Medicine Perspectives and Challenges from the National Football League (NFL) <b>Jaime Garza, MD, DDS, FACS; Kyle Richardson</b>
2:00 pm – 2:40 pm	<b>LONGEVITY</b> <b>Allan Mishra, MD   Session Chair</b>
2:00 pm – 2:20 pm	Thriving Together: Boosting Vitality for Patients and Providers in Regenerative Medicine <b>Allan Mishra, MD</b>
2:20 pm – 2:40 pm	Breath of Fresh Air: Ozone and Hyperbaric Oxygen as Potential Adjuncts in Regenerative Medicine <b>Jonathann Kuo, MD</b>
2:40 pm – 3:30 pm	<b>PRACTICE GROWTH</b> <b>Anne Truong, MD   Session Chair</b>
2:40 pm – 2:55 pm	Scaling Up: The Blueprint for a Thriving Regenerative Medicine Practice <b>John Ferrell, DO</b>
2:55 pm – 3:30 pm	Clash of the Titans: Beat Your Drum on Social Media vs. Avoid Social Media Land Mines <b>Allan Mishra, MD   Panel Chair</b> <b>Team 1: Rikin Patel, DO; Anne Truong, MD</b> <b>Team 2: Scott Bruder, MD, PhD; Don Buford, MD</b>
3:30 pm – 4:00 pm	<b>EXHIBIT HALL INTERMISSION</b> <i>(Not Part of the CME Program, No CME Credit)</i>
4:00 pm – 5:15 pm	<b>ADIPOSE</b> <b>Rowan Paul, MD   Session Chair</b>
4:00 pm – 4:15 pm	Argentine Insights on MFAT for Knee Osteoarthritis: Safety and Feasibility <b>Matias Fernandez, MD, PhD</b>
4:15 pm – 4:30 pm	From Fat to Function: 2-year MFAT Outcomes from India <b>Sharmila Tulpule, MBBS, MS, Mch</b>
4:30 pm – 4:45 pm	By the Numbers: MFAT Therapy Real World Data <b>Rowan Paul, MD</b>
4:45 pm – 5:15 pm	Ask Anything: Adipose Panel Discussion with Q/A <b>Sharmila Tulpule, MBBS, MS, Mch   Panel Chair</b> <b>Matias Fernandez, MD, PhD &amp; Rowan Paul, MD</b>
5:15 pm – 6:00 pm	<b>MESENCHYMAL STEM CELLS (MSC's)</b> <b>Desiree Cox, MD, PhD   Session Chair</b>
5:15 pm – 5:30 pm	World's Largest Orthopedics Culture Expanded MSC Treatment Dataset <b>Christopher Centeno, MD</b>
5:30 pm – 5:45 pm	Bridging-the-Valley of Death: Global Access to Regenerative Therapies <b>Desiree Cox, MD, PhD</b>
5:45 pm – 6:00 pm	Marrow for Movement: Advancing MSK Care with Allogenic MSCs, a Clinical Trial <b>Rikin Patel, DO</b>
6:00 pm – 7:00 pm	<b>NETWORKING COCKTAIL RECEPTION IN EXHIBIT HALL</b> <i>(Not Part of the CME Program, No CME Credit)</i>



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**SATURDAY, AUGUST 23, 2025** (All times listed in Pacific Time) *Topics and speakers are subject to change*

6:30 am – 2:00 pm	<b>REGISTRATION</b>
7:00 am – 7:55 am	<b>BREAKFAST SYMPOSIUM</b> (Not Part of the CME Program, No CME Credit)
8:00 am – 12:00 pm	<b>GENERAL SESSION</b>
8:00 am – 8:05 am	Opening Remarks <b>Michael Khadavi, MD</b>
8:05 am – 9:30 am	<b>SPINE</b>
	<b>Christopher Centeno, MD   Session Chair</b>
8:05 am – 8:20 am	Juicing the Platelets: Lysate Innovations and Prep for Lumbar Disc Herniations <b>Ben Rawson, DO</b>
8:20 am – 8:35 am	To Protect and Perfect: Utilizing POCUS in the Cervical Spine <b>Guilherme Ferreira Dos Santos, MD</b>
8:35 am – 8:50 am	Intradiscal Intel: What Does the Literature Say? Emerging Techniques <b>Christopher Kyriakides, DO</b>
8:50 am – 9:05 am	Gut Instincts: How the Microbiome Impacts the Spine <b>Mairin Jerome, MD</b>
9:05 am – 9:30 am	Clash of the Titans: Go Intradiscal or Go Home! vs. Respect the Disc and You'll Sleep Easy <b>Christopher Kyriakides, DO   Panel Chair</b> <b>Team 1: Annu Navani, MD; Ben Rawson, DO</b> <b>Team 2: Christopher Centeno, MD; Mairin Jerome, MD</b>
9:30 am – 10:00 am	<b>AWARDS PRESENTATION</b> <b>Sheri Albers, DO   Master of Ceremonies</b>
10:00 am – 10:30 am	<b>EXHIBIT HALL INTERMISSION</b> (Not Part of the CME Program, No CME Credit)
10:30 am – 12:00 pm	<b>INTRAOSSEOUS (IO) AND SUBCHONDRAL BONE THERAPIES</b>
	<b>Paul Tortland, DO   Session Chair</b>
10:30 am – 10:50 am	Augmented IO Injections: A Novel Technique <b>Paul Tortland, DO</b>
10:50 am – 11:10 am	Tackling Chondral and Subchondral Challenges with PRP <b>Ramon Cugat, MD</b>
11:10 am – 11:30 am	Small Needle, Big Impact: A Novel IO Technique <b>Stanley Lam, MBBS, MScSEM, MScSMHS</b>
11:30 am – 12:00 pm	Bone vs. Joint: IO, IO, It's Into Bone We Go vs. Hey, Hey, Hey, IA Only Is Okay. <b>Ramon Cugat, MD   Panel Chair</b> <b>Team 1: Stanley Lam, MBBS, MScSEM, MScSMHS; Paul Tortland, DO</b> <b>Team 2: Don Buford, MD; Ariana DeMers, DO</b>
12:00 pm – 1:00 pm	<b>LUNCH SYMPOSIUM</b> (Not Part of the CME Program, No CME Credit)



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THE ORTHOBIOLOGIC INSTITUTE IN COLLABORATION WITH THE AMERICAN SOCIETY OF INTERVENTIONAL PAIN PHYSICIANS

# 16<sup>TH</sup> ANNUAL TOBI ORTHOBIOLOGIC SYMPOSIUM SCHEDULE

## SATURDAY, AUGUST 23, 2025 (CONTINUED) *Topics and speakers are subject to change*

1:00 pm – 5:30 pm

### GENERAL SESSION

1:00 pm – 3:00 pm

### EMERGING CONCEPTS IN REGENERATIVE MEDICINE

**Sean Mulvaney, MD | Session Chair**

1:00 pm – 1:15 pm

Fueling Recovery: Nutritional Optimization for Orthobiologic Success

**Don Buford, MD**

1:15 pm – 1:30 pm

Hyaluronic Acid for Rotator Cuff Tendinosis: Hope or Hype?

**Michael Khadavi, MD**

1:30 pm – 1:45 pm

Exosomes 101: Unlocking Their Healing Potential

**Preston Wolfe, PhD**

1:45 pm – 2:00 pm

Going for Gold: Cytokine Injections for Knee OA with Two-Year Outcomes

**Sharmila Tulpule, MBBS, MS, Mch**

2:00 pm – 2:15 pm

From Scalpel to Cells: My Journey From Insurance-Based Orthopedics to Cash-Based Biologics

**Ariana DeMers, DO**

2:15 pm – 2:30 pm

Stellate Ganglion Blocks for Healing Mind and Body

**Sean Mulvaney, MD**

2:30 pm – 2:45 pm

Transforming Spine Care: The Latest in Biologic Advancements

**Annu Navani, MD**

2:45 pm – 3:00 pm

Stabilizing the Spine:

A Fresh Orthobiologic Approach and Nomenclature for Craniocervical Instability

**Christopher Centeno, MD**

3:00 pm – 3:30 pm

**EXHIBIT HALL INTERMISSION** *(Not Part of the CME Program, No CME Credit)*

3:30 pm – 4:55 pm

### MECHANOTHERAPY

**Adam Tenforde, MD | Session Chair**

3:30 pm – 3:50 pm

Shockwaves in the Octagon: Healing Combat Athletes Faster

**Heather Linden, DPT**

3:50 pm – 4:10 pm

Shockwave – Science and Applied Practice

**Adam Tenforde, MD**

4:10 pm – 4:30 pm

Shockwave in Action: Real Data, Real Results

**Brice Blatz, MD**

4:30 pm – 4:55 pm

Ask Anything: Panel Discussion with Q/A

**Adam Tenforde, MD | Panel Chair**

**Brice Blatz, MD; Heather Linden, DPT**

4:55pm – 5:20pm

### TOBI TAKEAWAYS

**Melanie Worley, DO**

5:20 pm – 5:30 pm

### CLOSING REMARKS

**Michael Khadavi, MD**



In collaboration with

**AMERICAN SOCIETY OF  
INTERVENTIONAL PAIN PHYSICIANS**  
THE VOICE OF INTERVENTIONAL PAIN MANAGEMENT

16<sup>TH</sup> ANNUAL TOBI ORTHOBIOLOGIC SYMPOSIUM

## REGISTRATION FORM

## PAYMENT METHOD

## CREDIT CARD

- ☐ MasterCard      ☐ VISA  
☐ American Express      ☐ Discover  
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270.554.5394

## CANCELLATION POLICY:

TOBI and ASIPP reserve the right to cancel this course upon reasonable notice and will assume no financial obligation to registrants for cancellation for reasons beyond its control. Registration fees may be refunded minus a 3.5% processing fee up until July 20, 2025. Costs incurred by the registrants, such as airline or hotel fees or penalties, are the responsibility of the registrants. TOBI and ASIPP require a 30-day written notice of cancellation. Cancellations must be submitted in writing to [kavery@asipp.org](mailto:kavery@asipp.org) by July 20, 2025. Cancellations after July 20, 2025 but prior to July 31, 2025 will forfeit 50% of their registration fee + a 3.5% processing fee. No refunds after July 31, 2025.

## REGISTRATION FEES

16<sup>TH</sup> ANNUAL TOBI ORTHOBIOLOGIC SYMPOSIUM: (Check the fee that applies)

- ☐ 2-Day Symposium Only ..... \$1,995  
☐ 2-Day Symposium + Hands-On Cadaver Workshop and Live Webinar\* ..... \$4,995  
☐ Hands-On Cadaver Workshop and Live Webinar Only\* ..... \$3,500  
☐ 2-Day Symposium (Fellows, Residents, Medical Students Pricing)<sup>†</sup> ..... \$500  
☐ 2-Day Symposium + Cadaver Workshop (Fellows and Residents Pricing)<sup>†\*</sup> ..... \$750  
☐ Add-on: Recording of Live Webinar (Non-CME)<sup>†</sup> ..... \$200  
☐ Industry Representative (Non-Exhibitor) Individual (Non-CME) ..... \$2,700

Total Fees: \$ \_\_\_\_\_

\*Cadaver Workshop attendees must select one of the following tracks:

- ☐ PRP, MSK Ultrasound, and Shockwave (Beginner)  
☐ BMC, Adipose, Intraosseous, and Shockwave (Intermediate)  
☐ Spine Orthobiologics and Shockwave (Advanced)

If you selected a cadaver lab registration, you must complete the qualifying form to ensure your placement in the lab: <https://form.jotform.com/250225328711954>

<sup>†</sup> If registering as a fellow, resident or medical student, please list name of fellowship program, university or hospital. Discount cannot be given without this information.

NAME OF SCHOOL OR HOSPITAL

‡ Add-on is for 2-Day Symposium Registrants only.

## REGISTRANT INFORMATION

FIRST NAME

LAST NAME

CREDENTIALS

Please print exactly as you wish your name to appear

ORGANIZATION

ADDRESS

CITY

STATE

ZIP COUNTRY

PHONE

CELL

FAX

E-MAIL

Registration fee includes all sessions, breakfasts, lunches, coffee breaks, and electronic materials for the conference.

## REGISTRANT INFORMATION FOR CADAVER WORKSHOP ONLY (AVAILABLE ONLY TO PHYSICIANS)

Lab fee covers the June 20 on-site cadaver lab, the June 15 virtual lab prep course, and recording of the live virtual course.

## MEDICAL DEGREE:

☐ OMD   ☐ ODO   ☐ PhD   ☐ DPM   ☐ DND

## PRIMARY SPECIALTY CERTIFICATION:

☐ Anesthesiology   ☐ Physiatry   ☐ Neurosurgery   ☐ Other: \_\_\_\_\_

## PAIN MEDICINE SUBSPECIALTY CERTIFICATION:

- ☐ American Board of Anesthesiology  
☐ American Board of Interventional Pain Physicians  
☐ Fellow of Interventional Pain Practice  
☐ American Board of Pain Medicine  
☐ Competency in Regenerative Medicine  
☐ Competency in Interventional Pain Management  
☐ Other: \_\_\_\_\_

## FELLOWSHIP TRAINING:

☐ Pain Medicine Spine Surgery   ☐ Sports Medicine   ☐ Other: \_\_\_\_\_

## YEARS IN INTERVENTIONAL PAIN MANAGEMENT PRACTICE:

☐ 0   ☐ 1-5   ☐ 6-10   ☐ 10

## NUMBER OF YEARS EXPERIENCE IN REGENERATIVE MEDICINE:

☐ 0   ☐ 1-5   ☐ 6-10   ☐ 10

## INDICATE THE TOTAL NUMBER OF PROCEDURES PERFORMED THE PAST YEAR:

Soft Tissue and Ligament Injections \_\_\_\_\_

Shoulder Injections \_\_\_\_\_ Elbow Injections \_\_\_\_\_

Wrist Injections \_\_\_\_\_ Hip Injections \_\_\_\_\_

Knee Injections \_\_\_\_\_ Ankle Injections \_\_\_\_\_

Sacroiliac Joint Injections \_\_\_\_\_

Caudal Epidural Injections \_\_\_\_\_

Lumbar Interlaminar Epidural Injections \_\_\_\_\_

Lumbar/Sacral Transforaminal Epidural Injections \_\_\_\_\_

Lumbar/Sacral Facet Joint Nerve Blocks \_\_\_\_\_

Lumbar Facet Joint Intraarticular Injections \_\_\_\_\_

Lumbar Discography \_\_\_\_\_ Pudendal Nerve Blocks \_\_\_\_\_

Ultrasound Guided Injections \_\_\_\_\_

# Qualify for ABIPP Competency Certification in Regenerative Medicine

***The 31.5 CMEs you earn at the TOBI Webinar, Lab, and Symposium meet the certification requirements!***

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2. Fulfill unrestricted licensure requirements to practice medicine in the United States.
3. Successfully complete written examination for competency in Regenerative Medicine.
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# 16TH ANNUAL TOBI ORTHOBIOLGIC SYMPOSIUM

## MEETING VENUE:

Caesars Palace  
3570 Las Vegas Blvd, Las Vegas, NV 89109  
Phone: 702-862-3519 | <https://www.caesars.com/caesars-palace>

## MEETING INFORMATION:

<https://www.tobiconference.com>  
Karen Avery. 270.554.9412 ext: 4210 or [kavery@asipp.org](mailto:kavery@asipp.org)



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# 16TH ANNUAL TOBI ORTHOBIOLGIC SYMPOSIUM

**DIDACTICS:**  
**AUG. 16, 2025**  
ONLINE WEBINAR

**FULL-DAY LAB:**  
**AUG. 21, 2025**  
VITICUS CENTER, LAS VEGAS

**SYMPOSIUM:**  
**AUG. 22-23, 2025**  
CAESARS PALACE, LAS VEGAS