

SUBCORTICAL SURGERY GROUP  
12<sup>TH</sup> ANNUAL MEETING

SUBCORTICAL  
SURGERY GROUP



2025

# Subcortical Surgery Evolution

IDEATION • FIRST IN MAN • CONTINUOUS INNOVATION



St Julien Hotel  
Boulder, Colorado

**Hands-on MIPS  
Workshop**

July 17

**General Session**

July 18 - 19

► Special Section on AI & BCI



REGISTER NOW



Dear Friends and Colleagues:

It is my pleasure to welcome you to the 12th Annual Meeting of the Subcortical Surgery Group (SSG), returning to the St. Julien Hotel in Boulder, Colorado, from July 17-19. We are thrilled to host this engaging and interactive event, designed to foster collaboration among professionals dedicated to optimizing minimally invasive surgery (MIS) in the subcortical space and beyond. This meeting promises to inspire, connect, and challenge thought-leaders in the field of cranial neurosurgery with cutting-edge insights and innovative ideas.

This year's theme, **Subcortical Surgery Evolution – Ideation | First in Man | Continuous Innovation**, will guide a dynamic, 1½-day didactic agenda. More than 25 distinguished neurosurgery experts will present their clinical experiences, share key research findings, and explore the latest advancements in MIPS and other state-of-the-art surgical technologies. The program will feature “MedTech talk” presentations, highlighting forward-thinking topics like brain-computer interfaces (BCI), artificial intelligence (AI), augmented reality (AR), and robotics, providing both immediate relevance and a glimpse into the future of neurosurgery.

In addition to the main session, we are excited to offer a pre-meeting, hands-on MIPS workshop on Thursday, July 17.

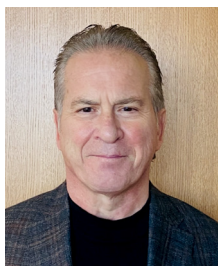
**Minimally Invasive Parafascicular Surgery (MIPS) for Tumor and ICH (12:30pm – 5:00pm)**

Managing subcortical abnormalities has historically posed a difficult challenge for neurosurgeons as non-disruptive access has been limited. However, advancements in neurosurgery over the past decade may now allow for more surgically appropriate opportunities than previously existed. This session will delve into evidence-based benefits and personal physician experience how MIPS may impact both patients and physicians. Attendees will have the chance to engage with the latest innovations.

The picturesque Flatirons of Boulder will serve as the stunning backdrop for this gathering. The St. Julien Hotel, with its world-class amenities and family-friendly atmosphere, is located just steps from Pearl Street Mall, a vibrant pedestrian area full of shops, restaurants, and street performers.

I would like to express my deepest gratitude to the leadership team of the SSG, our dedicated presenters, and our generous vendors. Without their unwavering support, this event would not be possible. I am truly honored to serve as your President, and I look forward to seeing you at the meeting. I am confident it will exceed your expectations and be a memorable and enriching experience for all.

Regards,



**Julian E. Bailes, Jr., MD**

President, Subcortical Surgery Group  
System Physician Executive, Endeavor Health Neurosurgery  
Bennett-Tarkington Chair of Neurosurgery, NorthShore Hospitals  
Clinical Professor of Neurosurgery  
University of Chicago Pritzker School of Medicine





Dear Attendees,

With the historical success of our BCI conference, we have now created the **World BCI Forum (WBF)**. The WBF conference is the first event of its kind in the BCI space, celebrating global progress and looking forward to the next generation of BCI technology.

This year, we have brought together leaders in the industry from around the world who are pioneering this technology forward to make a profound impact at the intersection of engineering and medicine. All within our virtual platform, labs and companies from around the world are showcasing their work for global attendees to interact with. Thank you to everyone who made this event possible, as many talented people came together to put on this event to make it what it is. From the speakers, labs, virtual platform developers, conference coordinators, and ultimately the attendees.

Regards,



**Neilank K. Jha, M.D., M.Sc., M.B.A., FRCSC**

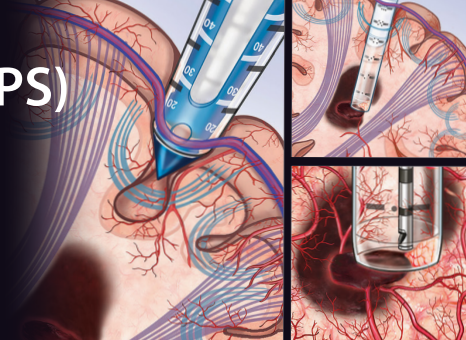
Chairman, World BCI Forum  
Neurosurgeon  
Distinguished Professor,  
Northwestern State University



# Minimally Invasive Parafascicular Surgery (MIPS) for Tumor and ICH

## Pre-Meeting Workshop

Thursday, July 17 | 12:30pm – 5pm



## Target Audience

Practicing neurosurgeons who have **NOT** attended a MIPS education program

## Workshop Description

Managing subcortical abnormalities has historically posed a difficult challenge for neurosurgeons as non-disruptive access has been limited. However, advancements in neurosurgery over the past decade may now allow for more surgically appropriate opportunities than previously existed. This course describes through evidence-based medicine and personal physician experience how MIPS may impact both patients and physicians.

## Faculty



### Julian Bailes, MD

Endeavor Health  
Chairman of Neurosurgery  
SSG President



### Juan Alzate, MD

The American Center  
for Spine & Neurosurgery



### Jason Cormier, MD

Acadiana Neurosurgery



### Amin Kassam, MD

Northwest Community Healthcare



### Analiz Rodriguez, MD, PhD

UAMS Health



### Mitesh Shah, MD

Indiana University Health



### Brad Zacharia, MD

Penn State Health

## Agenda

- 12:30 pm Workshop Registration & Lunch
- 1:00 pm Principles of MIPS
  - ACCESS, REMOVAL & COLLECTION
- 3:00 pm Hands-on Skills Lab Demonstration
- 3:15 pm Hands-on Skills Lab Rotations
- 5:00 pm Workshop Concludes





## Friday, July 18

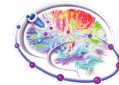
- 7:00 am **REGISTRATION, EXHIBIT VIEWING, & BREAKFAST**
- 7:30 am **Welcome, Mission, & Subcortical Surgery Evolution**  
Julian Bailes, MD: Endeavor Health Neurosurgery & SSG President and Chairman
- 7:35 am **Fireside Chat: The Challenges of Medical Innovation from a Capital Perspective in Early-Stage Companies**  
Yassaman Salas, MBA: Goldman Sachs  
Moderator: Neilank Jha, MD, MSc, MBA, FRCS(C): Deep Brain BCI
- 8:20 am **ICH MANAGEMENT POST-ENRICH: WHERE DO WE GO NEXT?**  
**Post-ENRICH Clinical Pathways & Future Development**  
Shakeel Chowdhry, MD: Endeavor Health Neurosurgery  
**Critical Care for ICH Patients**  
Emily Sieg, MD: University of Louisville Health  
**Endoscopic Removal of ICH**  
Christopher Kellner, MD: Icahn School of Medicine at Mount Sinai  
**Real-time Surgical Intelligence – AI Assistance in Neurosurgery**  
Andre Cesarski, Viz.ai  
**Economics of Surgical Treatment of ICH**  
Mitesh Shah, MD: Indiana University Health
- 9:35 am **BREAK WITH EXHIBITORS**
- 9:55 am **NEUROSURGICAL ONCOLOGY**  
**Predictive Modeling for Brain Tumor Management**  
Analiz Rodriguez, MD, PhD: UAMS Health  
**MIPS in Pediatric Neurosurgery**  
Angela Richardson, MD, PhD: Indiana University Health  
**Intraoperative Adjuncts**  
Zachary Litvack, MD, MBA, FAANS, FACS: Swedish Neuroscience  
**Gliomas in Adolescent & Young Adults**  
Sunit Das, MD, PhD: University of Toronto  
**Advances in Skull-Base Surgery Applied to Intra-Axial Subcortical Tumors**  
Amin Kassam, MD: Northwest Community Healthcare  
**Genomics & The Subventricular Zone in GBM Surgery**  
Gary Gallia, MD, PhD: Johns Hopkins Medicine
- 11:55 am **LUNCH WITH EXHIBITORS**
- 12:35 pm **SURGICAL ADJUVANT THERAPEUTICS ADVANCES IN MIPS**  
**Gamma Tile Advances in Therapeutics**  
Michael McDermott, MD: Baptist Health Medical Group  
**Functional Preservation in Glioma Surgery – Techniques on Cortical & Subcortical Mapping**  
David Jason McCracken, MD: Piedmont  
**Cranial Ultrasound – Diagnosis & Therapeutics**  
Brad Zacharia, MD: Penn State Health  
**LITT for Post-SRS Radiation Necrosis**  
Gene Barnett, MD: Cleveland Clinic
- 1:35 pm **JUSTIN SINGER LECTURE**  
**Success, Failure, Creativity, and the Secret to a Balanced “Fun” Life in Neurosurgery**  
Joseph Maroon, MD, FACS: Tri-State Neurosurgical Associates



- 2:20 pm **Panel Discussion: Complication Avoidance & Management in MIPS**  
**Moderator:** Zachary Litvack, MD, MBA, FAANS, FACS: Swedish Neuroscience  
**Panelists:** Juan Alzate, MD: The American Center for Spine & Neurosurgery  
 Jason Cormier, MD: Acadiana Neurosurgery  
 Carolyn Quinsey, MD: University of Missouri Health Care
- 3:10 pm **BREAK WITH EXHIBITORS**
- 3:30 pm **BCI, AI, & VR**  
**Welcome to the WBF – BCI/AI/VR Section**  
 Neilank Jha, MD, MSc, MBA, FRCS(C): Deep Brain BCI  
**Innovating Communication: Leveraging AI and VR in BCIs to Empower Individuals with Paralysis**  
 Sam Hosovsky, MSc: uCat  
**Restoring Capital Markets for Innovation – The Next Frontier in Access and Accelerating Biomedical Breakthroughs**  
 David Weild IV, MBA: Former Vice Chairman of the NASDAQ  
**Pioneering Neurotechnology – Innovations in Spinal Cord Injury Therapies and the Future of Medical Engineering**  
 Dave Marver, MBA: ONWARD Medical
- 4:55 pm **Closing Remarks & Day 1 Wrap-Up**  
 Julian Bailes, MD: Endeavor Health Neurosurgery & SSG President and Chairman  
 Neilank Jha, MD, MSc, MBA, FRCS(C): Deep Brain BCI
- 5:00 pm **NETWORKING RECEPTION**  
 Red Garden Terrace, St Julien Hotel

## Saturday, July 19

- 7:00 am **EXHIBIT VIEWING & BREAKFAST**
- 7:30 am **Welcome Day 2 – Mission & Advancing Innovation in Brain Computer Interface**  
 Neilank Jha, MD, MSc, MBA, FRCS(C): Deep Brain BCI  
**Bridging the Gap Between Traditional Neurosurgery, Deep Brain Neurosurgery, and Now BCI**  
 Andres Lozano, MD, PhD: University of Toronto  
**Investing in the Future of Brain Health – The Intersection of NeuroTech and Venture Capital**  
 Jordi Parramon, PhD: Nexus NeuroTech  
**Q&A – Investing in the Future: Capital Market Perspectives on the \$400 Billion BCI Industry**  
 Kallum Titchmarsh: Morgan Stanley  
**Softening the Interface: Advancements in Flexible Neural Implants for Enhanced Brain Connectivity**  
 Nicolas Vachicouras, PhD: Neurosoft Biotechnologies
- 9:15 am **BREAK WITH EXHIBITORS**
- 9:45 am **Keynote Presentation – Frontiers in Neurosurgery: The Role of BCIs in Modulating Brain Activity for Therapeutic Outcomes**  
 Andres Lozano, MD, PhD: University of Toronto  
**Integrating BCI Innovations: Bridging Neural Technology & Healthcare Solutions in China**  
 Zhao Zhengtuo, PhD: Chinese Academy of Sciences  
**Revolutionizing Cognitive Health in India: Harnessing BCI for Mental Wellness**  
 Kumaar Bagrodia, MBA, MSc: NeuroLeap  
**Bringing BCI to Market – Lessons from Commercializing AI in Healthcare**  
 Jayme Strauss, RN, MSN, MBA, SCRNP: Precision Neuroscience  
**Restoring Function through Implantable BCIs – Blackrock Neurotech’s Path from Lab to Patient**  
 Rob Franklin, PhD: Blackrock Neurotech
- 11:50 am **Awards Presentation**  
 Neilank Jha, MD, MSc, MBA, FRCS(C): Deep Brain BCI
- 11:55 am **Closing Remarks & Day 2 Wrap-Up**  
 Neilank Jha, MD, MSc, MBA, FRCS(C): Deep Brain BCI



**SUBCORTICAL  
SURGERY GROUP**

Click the button or scan the  
QR code to register

- No cost for neurosurgeons to attend
- MIPS workshop limited to 36 attendees

**REGISTER NOW**



For questions, contact:  
Monica Goff  
MG Connect, LLC  
Info@subcorticalsurgery.com  
317.908.9581 (cell)

## Accommodations



St Julien Hotel  
900 Walnut St.  
Boulder, CO 80302



The SSG has reserved a limited number of rooms at the St Julien Hotel at \$319/night. Rooms are available on a first-come, first-served basis.

Use this QR code to reserve your room before the block expires on Thursday, June 26.

