

SUBCORTICAL SURGERY GROUP
12TH 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.

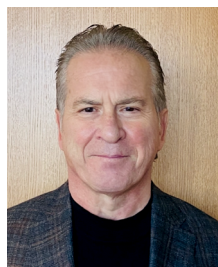
Minimally Invasive Parafascicular Surgery (MIPS) for Tumor and ICH (12:30pm – 5:00pm)

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.

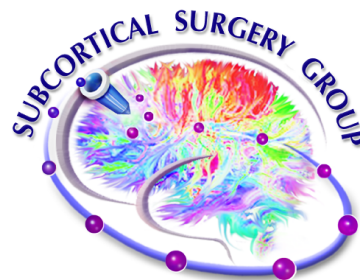
I would like to express my deepest gratitude to the leadership team of the SSG, our dedicated presenters, and our generous vendors. Without their unwavering support, this event would not be possible. I am truly honored to serve as your President, and I look forward to seeing you at the meeting. I am 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

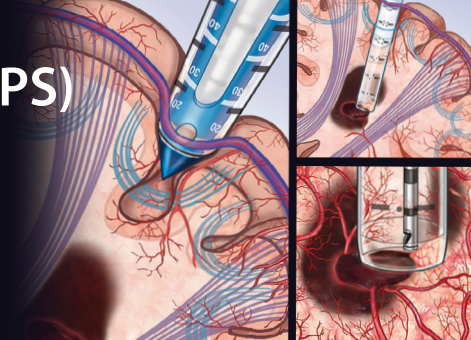
Chairman, World BCI Forum
Neurosurgeon
Distinguished Professor,
Northwestern State University



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



Kaisorn Chaichana, MD

Mayo Clinic



Shakeel Chowdhry, MD

Endeavor Health



Jason Cormier, MD

Acadiana Neurosurgery



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



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Friday, July 18

7:00 am **REGISTRATION, EXHIBIT VIEWING, & BREAKFAST**

7:30 am **Welcome, Mission, & Subcortical Surgery Evolution**

Julian Bailes, MD: Endeavor Health, Chairman of Neurosurgery & SSG President

7:45 am **ICH MANAGEMENT POST-ENRICH: WHERE DO WE GO NEXT?**

Keynote Presentation - Basal Ganglia & Deep ICH: REACH Trial

Mark Bain, MD: Cleveland Clinic

Endoscopic ICH - SCUBA

Christopher Kellner, MD: Icahn School of Medicine at Mount Sinai

ICH Patient Multidisciplinary Management: New Findings & Recommendations

Andrew Demchuk, MD, FRCPC: University of Calgary

Economics of Surgical Treatment of ICH

Mitesh Shah, MD: Indiana University Health

Current Management of ICH Post-ENRICH

Shakeel Chowdhry, MD: Endeavor Health

9:40 am **BREAK WITH EXHIBITORS**

NEUROSURGICAL ONCOLOGY

Predictive Modeling for Brain Tumor Management

Analiz Rodriguez, MD, PhD: UAMS Health

Use of MIPS for Resection of Deep-Seated Tumors Previously Only Biopsy

Kaisorn Chaichana, MD, FACS: Mayo Clinic

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

11:40 am **LUNCH WITH EXHIBITORS**

12:20 pm **SURGICAL ADJUVANT THERAPEUTICS ADVANCES IN MIPS**

Fluorescence

Costas Hadjipanayis, MD, PhD: University of Pittsburgh School of Medicine

GammaTile

Michael McDermott, MD: Baptist Health Medical Group

Ultrasound - Diagnosis & Therapeutics

Brad Zacharia, MD: Penn State Health

LITT for Post-SRS Radiation Necrosis

Gene Barnett, MD: Cleveland Clinic

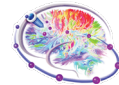
1:25 pm **JUSTIN SINGER LECTURE**

Joseph Maroon, MD, FACS: Tri-State Neurosurgical Associates

- 1:55 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
Investing in the Future of Brain Health: The intersection of NeuroTech and Venture Capital
 Jordi Parramon, PhD: Nexus NeuroTech
Advancing AI: Bridging the Digital & Physical Realms
 Fei-Fei Li, PhD: Stanford Human-Centered AI Institute
- 4:55 pm **Closing Remarks & Day 1 Wrap-Up**
 Julian Bailes, MD: Endeavor Health, Chairman of Neurosurgery & SSG President
 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
Softening the Interface: Advancements in Flexible Neural Implants for Enhanced Brain Connectivity
 Nicolas Vachicouras, PhD: Neurosoft Biotechnologies
Graphene-Based Neural Interfaces: Revolutionizing BCI Technology with Advanced Materials
 Carolina Aguilar, MSc, MBA: INBRAIN Neuroelectronics
Q&A - Investing in the Future: Capital Market Perspectives on the \$400 Billion BCI Industry
 Kallum Titchmarsh: Morgan Stanley
- 9:05 am **BREAK WITH EXHIBITORS**
- 9:35 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
 Kumar Bagrodia, MBA, MSc: NeuroLeap
Pioneering Neurotechnology: Innovations in Spinal Cord Injury Therapies & the Future of Medical Engineering
 Erika Ross Ellison, PhD, MS: Institute of Electrical and Electronics Engineers
AI-Driven Neurorehabilitation: Enhancing Motor Recovery through Intelligent BCI Applications
 Konstantin Sonkin, PhD, MBA: i-BrainTech
Awards Presentation
 Julian Bailes, MD: Endeavor Health, Chairman of Neurosurgery & SSG President
 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



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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.

