

74th Southern Neurosurgical Society Annual Meeting
March 6-9, 2024 | The Conrad Orlando | Orlando, FL
PROGRAM

Wednesday, March 6

2:00–5:00 pm Executive Council Meeting

3:00–5:00 pm Registration Opens

Thursday, March 7

7:00 am Registration, Continental Breakfast and Exhibit Viewing

Session I Sustainability: Sustaining a Career in Neurosurgery

Moderators: A. Kim and P. Fecci

7:30 am Welcome *K. Riley, MD*

7:40 am Sustaining an Academic Career *J. Markert, MD, PhD*

7:55 am Sustaining a Career in Private Practice *A. Brown, MD*

8:10 am Sustaining Education in Neurosurgery *J. Osbun, MD*

8:25 am Discussion

8:37 am Sustaining Neurosurgery Globally *C. Bonfield, MD*

8:49 am Sustaining Women in Neurosurgery *B. Grunch, MD*

9:01 am Sustaining Innovation in Neurosurgery *E. Leuthardt, MD*

9:13 am Sustaining a Career through Adversity and Adapting *K. New, MD*

9:28 am Discussion

9:40 am Refreshment Break with Exhibitors

Session II Abstracts, Invited Talks, & Downing Lecture

Moderators: E. Nottmeier, MD, V. Rossi, MD

10:00 am Abstracts & Discussion Part A

10:00 am	Abstract 1: Combined Mastoidectomy and Middle Fossa Craniotomy for Tegmen Defect Repair: Long-term Outcomes of a Multidisciplinary Approach Kara A. Parikh, MD ; Jordan Roach; Emal Lesha, MD; Jon H. Robertson, MD; and L. Madison Michael, MD
10:06 am	Abstract 2: Critical Neighbors: Reading and Naming Representations in Ventral Occipitotemporal Cortex Oscar Woolnough; Nitin Tandon
10:12 am	Abstract 3: Primary CNS Lymphoma in Elderly Patients: A Critical Investigation of Radiosurgery and Chemotherapy Outcomes in A Prospective, Comparative, Clinical Study. Andres M. Alvarez-Pinzon, MD, PhD ; Maria P. Fernandez Gomez, MD; Penelope Mantilla Farfan, MD; and Jose Valerio, MD, MBA

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10:18 am	Discussion
10:22 am	Abstract 4: Remission Recipe for Prolactinomas: Mixing Dopamine, Gender, And A Dash of Scalpels (A Multicenter Production) Harshvardhan Iyer, M.B.B.S; Ogechukwu Ariwodo; Chase Mckevitt, D.O; Juan Medina Colon; Saurav Das; and Kaisorn Chaichana, M.D.
10:28 am	Abstract 5: McCravey Clinical Science Award Winner: Identifying Risk Factors for Adverse Surgical Outcomes Following Lumbar Disc Arthroplasty: A Multi-institutional Analysis Of 473 Patients James Mooney, MD; Karim Nathani, MBBS; Giorgos Michalopoulos, MD; Anil Mahavadi, MD; Rick Sasso, MD; Jonathan Parish, MD; Sheetal Vinayek; Ousman Jallow, BS Mia Mazer; Todd Lanman, MD; Hyun Bae, MD; Michael Kropf, MD; Jason Cuellar, MD; Patrick Johnson, MD; Mohamad Bydon, MD; and Corey Walker, MD
10:34 am	Abstract 6: Optimal Timing of Cervical Fracture Fixation After Trauma in The United States Christian Joel Quinones, MD and Darwin Ang, MDHCA
10:40 am	Discussion

10:45 am **Invited Talk: “Navigated Prone / Lateral Spine Surgery”**

P. Park, MD

10:57 am Abstracts & Discussion Part B

10:57 am	Abstract 7: Clopidogrel Is Associated with Reduced Likelihood of Aneurysmal Subarachnoid Hemorrhage: A Multi-center Matched Retrospective Analysis Brandon Lucke-Wold, MD, PhD
11:00 am	Abstract 8: Motor Outcomes Among Patients with Ballistic Neurologic Injuries Managed Expectantly: A 13-year Single Institution Retrospective Review Tyler X. Giles; Nicholas P. Derrico; Rebekah J. Kimball; Benjamin W. Carroll; Katherine E. Baker; Evan Bowen; John H. Wilkinson; Gregory R. Vance; Zachary S. Smalley; and Jared J. Marks
11:03 am	Abstract 9: Dysembryoplastic Neuroepithelial Tumor Outcomes After Surgical Resection, A Multi-center Mayo Clinic Experience Jesus Emiliano Sanchez-Garavito, MD; Harshvardhan Iyer; Ariwodo Ogechukwu, MD; Saurav Das, MD; Chase McKevitt, MD; Siddarth Chitta; Juan Pablo Navarro Garcia de Llano, MD; Alfredo Quinones-Hinojosa; and Sanjeet Grewal, MD
11:06 am	Abstract 10: Mechanisms Of BBB Permeability Changes Triggered by Laser Interstitial Thermal Therapy Ryan Cleary, MD; Alicia Yang; Rowland Han, MD; Timothy Woodiwiss, MD; and Albert H. Kim, MD, PhD
11:09 am	Abstract 11: Predicting Anastomosis Occlusion in Moyamoya Disease: The Bypass Angiographic Scoring System (BASS) Jorge Rios Zermeno, MD; Iman Ahrari, MD; Jeyan S. Kumar, MD; and Rabih G. Tawk, MD

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11:12 am	Discussion
11:16 am	Abstract 12: Does Pelvic Incidence Incline Towards Adjacent Segment Disease in Standalone Lateral Lumbar Interbody Fusion? Bryan Clampitt, BS ; Molly Monsour, BS; Richard Rivera, BS; Maryam Kazelka, BS; Samantha Schimmel, BS; Leila Azari, BS; John Kim, MS; Nicholas Alford, BS; Kelly Gassie, MD; Adolfo Viloria Hidalgo, MD; and Puya Alikhani, MD, FAANSUSF
11:19 am	Abstract 13: Skull Base Registries: Building Consensus Kara A. Parikh, MD ; Mustafa Motiwala, MD; Furlan A. Beer, MD; Dhruv S. Khotari, MD; Garret W. Choby, MD; Varun R. Kshetry, MD; Debraj Mukherjee, MD; Corinna G. Levine, MD, MPH; Donato R. Pacione, MD; Claudia Kirsch, MD; Erin McKean, MD; Sanjeet V. Rangarajan, MD; L. Madison Michael, MD; and Jeffrey M. Sorenson, MD
11:22 am	Abstract 14: Parity in Functional Outcomes Following Laser Interstitial Thermal Therapy Versus Resection for Primary Motor Cortex Brain Metastases Aden P. Haskell-Mendoza, MS ; Ethan S. Srinivasan, MD; Emily C. Lerner, MHS; Ann Marie Flusche, BS; Ariel T. Gonzalez, BS; Ellery Hepburn Reason, BS; Ryan Edwards, MD; Joshua D. Jackson, MD, PhD; David Huie, MD, MS; and Peter E. Fecci, MD, PhD
11:25 am	Abstract 15: Probing Cerebral Metabolism Change With In Vivo Magnetic Resonance Spectroscopy After Experimental Traumatic Brain Injury Yujiao Lu, PhD ; Asamoah Bosomtwi, PhD; Nicholas Moore; Abbas Jarrahi, MD; Roxan Ara; Fengchong Kong; John Vender, MD; Fernando Vale, MD; and Krishnan Dhandapani, PhD
11:28 am	Abstract 16: Antigen Presentation by Tumor-Associated Macrophages Mediates Progenitor to Terminal Exhaustion Transition in GBM And Other Solid Tumors Jessica Waibl-Polania; Xanne Hoyt-Miggelbrink; Luke Wachsmuth; Selena Lorrey; Daniel Wilkinson; Emily Lerner; Karolina Woroniecka; Peter E. Fecci
11:31 am	Discussion

11:35 am Introduction to Ned Downing Lecture

P. Fecci, MD, PhD

11:40 am **Ned Downing Lecture**

Haley Fortier

12:05 pm Adjourn

12:15 – 1:15 Resident, Fellow, and Young Surgeon Workshop & Lunch

Chairs: S. Pirris, MD

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Friday, March 8

Session III Sustainability: Using Technology to Sustain Patient and Surgeon (CME + Non-CME Session)

Moderators: W. Gump, MD, A. Patel, MD, G. Grant, MD

7:30 am VISUALIZE

7:30 am	Visualize Networks: Applying Connectomics to Intracranial Surgery	<i>M. Sughrue, MD</i>
7:38 am	Novel uses of endoscopy for spinal decompression and motion preservation.	<i>D. Bhowmick, MD</i>
7:46 am	Visualize the Tumor: 5-ALA (Non CME - Medexus)	<i>R. D'Amico, MD</i>
7:54 am	Visualization - Discussion	

8:06 am MINIMIZE

8:06 am	Minimize Surgeon and Patient Exposures in the OR	<i>R. Isaacs, MD</i>
8:14 am	Minimize Surgical Exposure: Robotic Spine Surgery	<i>M. Abd-el-Barr, MD</i>
8:22 am	Minimize the Surgeon: Fully Autonomous Robots	<i>P. Codd, MD</i>
8:30 am	Minimize - Discussion	

8:42 am ZAP

8:42 am	Zap: Laser (LITT) and Nanotechnologies (Non-CME - Monteris)	<i>A. Kim, MD, PhD</i>
8:50 am	Zap: Ultrasonic Bone Aspiration	<i>S. Pirris, MD</i>
8:58 am	Zap: Focused ultrasound	<i>S. Harward, MD, PhD</i>
9:06 am	Zap: Sonobiopsy – Using ultrasound to obtain molecular diagnoses	<i>E. Leuthardt, MD</i>
9:14 am	Zap - Discussion	

9:30 am	Introduction to Presidential Address	<i>N. Bentley, MD</i>
9:35 am	Presidential Address	<i>K. Riley, MD</i>

10:05 am Break with Exhibitors

Session IV Abstracts, Invited Talks, & Hudson Lecture

Moderators: Steve Harward, Min Park

10:35 am Abstracts & Discussion Part A

10:35 am	Abstract 17: Multi-center Prospective Cohort of Intractable Chronic Low Back Pain Patients Treated with Restorative Neurostimulation - Outcomes From 5-year Data Christopher Shaffrey, MD
10:41 am	Abstract 18: Radiographic Predictors of Spinal Column Instability After Gunshot Wounds: A Pragmatic Score Nicholas P. Derrico ; Tyler X. Giles; Benjamin W. Carroll; Katherine E. Baker; Evan Bowen; John Henley W. Wilkinson; Gregory R. Vance; Chad W. Washington; Zachary S. Smalley; and Jared J. Marks
10:47 am	Abstract 19: Targeted Neuromodulation for Chronic Pain Via Patient-specific Lead Localization and Programming of a Motor Cortex Stimulator Andreas Seas , BS; Grace Futch, BS; Pranav I. Warman, BS; Vishal Venkatraman, MS; Blake Parente, PA-C; Stephen Harward, MD PhD; and Shivanand P. Lad, MD PhD

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10:53 am	Discussion
10:57 am	Abstract 20: Comparative Analysis of Anterior Temporal Lobectomy Versus Laser Ablation for Temporal Lobe Epilepsy - Long Term Cognitive and Seizure Outcomes Ellery Wheeler; Kathryn Snyder; Oscar Woolnough; Yosefa Modiano; Nitin Tandon
11:03 am	Abstract 21: Implementing Regional Criteria for Neurosurgical Triage of Traumatic Brain Injury and Intracerebral Hemorrhage: Three Year Experience of a Large Tertiary Care Center Trent VanHorn, MD ; Daniel Zetouni, MD; and Joe Bernard, MD
11:09 am	Abstract 22: Is Screw Loosening an Issue with Facet Replacement in The Treatment of Degenerative Lumbar Spondylolisthesis. Results of a Randomized FDA Trial Stephen Pirris, MD ; Domagoj Coric; William C. Welch; Ali Chahlavi; Mark Gerber; and Michael Steinmetz
11:15 am	Discussion

11:20 am **Invited Talk:** “A novel wearable ear-mounted
vagal nerve stimulator for vasospasm in SAH”

E. Leuthardt, MD

11:32 am Abstracts & Discussion Part B

11:32 am	Abstract 23: Summary Findings of a Surgical Window-of-opportunity Clinical Trial Evaluating the Pcsk9 Inhibitor Evolocumab in Patients with Glioma Kirit Singh, MBBS ; Matthew Foster, PhD; Kelly Hotchkiss, PhD; Chelsea Railton; Emily Blandford; David Ashley, MBBS, PhD; Annick Desjardins, MD; Henry Friedman, MD; Margaret O. Johnson, MD; Allan Friedman, MD; Allan Friedman, MD; Stephen Keir, PhD; James E. Herndon, PhD; John Sampson, MD, PhD; Chuan Yuan-Li, DSc; Anoop Patel, MD; Peter E. Fecci, MD, PhD; and Mustafa Khasraw, MD
11:35 am	Abstract 24: Risk of Kyphoplasty Failure in the Treatment of Cancer Associated Compression Fractures: A Retrospective Analysis. Bassel El Sayed, BS ; Vishnu V. Iyer, BS; Samantha Schimmel, BA; Amber Valeri, DO; and Nam D. Tran, MD, PhD
11:38 am	Abstract 25: The Tipping Point in Middle Meningeal Artery Embolization: A Cost Effectiveness Analysis Luca Debs, MD ; Scott Rahimi, MD; and Fernando Vale, MD
11:41 am	Abstract 26: Racial Disparities in Overall Survival for Newly Diagnosed IDH-Wildtype Glioblastoma Patients During the Covid Pandemic Stephen Garrett Whipple, MD ; Sungho Lee, MD, PhD; and Charles Ronkon, MD
11:44 am	Discussion

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11:48 am	Abstract 27: Metabolomic Profiling of Human Meningioma Before and After Radiation Hashim S. Syed, MD ; Mark Dougherty, MD; Jeremy Greenlee, MD; Eric Taylor, PhD; and Marlan Hansen, MD
11:51 am	Abstract 28: Combined Gpi+vim Deep Brain Stimulation for Tremor-predominant Parkinson's Disease Anshit Goyal, MBBS, MS ; Nirea Martin Del-Campo; Luis M. Perez-Martinez; Philip Tipton, MD; Ryan Uitti, MD; Erik Middlebrooks, MD; and Sanjeet Grewal, MD
11:53 am	Abstract 29: Connectomics of Chronic Vim Vs Rescue Vim/Vo Deep Brain Stimulation in Essential Tremor Vyshak Chandra, MD ; Anna Fusco; Yusuf Mehkri; Joshua Wong; Justin Hilliard; and Kelly Foote
11:56 am	Discussion

12:00 pm	Washington Update	<i>K. Orrico, JD</i>
12:10 pm	Business Meeting	<i>K. Riley, MD & C. Adamson, MD</i>
12:15 pm	Introduction to the Hudson Lecture	<i>P. Fecci, MD, PhD & P. Grossi, MD</i>
12:20 pm	Hudson Lecture	<i>J. Sampson, MD, PhD</i>
12:55 pm	Adjourn	

Saturday, March 9

Session V Sustaining the Argument: Showdowns

Moderators: M. Abd-el-Barr, MD (spine), C. David, MD (vascular/skull base), S. Blackburn, MD (vascular/skull base), N. Au Yong, MD (functional), D. Higgins, MD (tumor), H. Akbari, MD (peds)

7:30 am Tumor Showdown: "To Tile or Not to Tile: The Role of Gamma Tile in Brain Tumor Treatment"

7:30 "Tile the Tumor!" *K. Hoang, MD*
7:35 "Save the Tile for the Bathroom Wall" *C. Deibert, MD*
7:40 Debate

7:48 am Spine Showdown: "How Long is Your Fuse?: Elderly Patient with Lumbar Kyphosis and Neurogenic Claudication"

7:48 "Minimally Invasive Decompression is Good Enough" *N. Chaudry, MD*
7:53 "Short Segment Fusion is All You Need" *N. Kazemi, MD*
7:58 "Fix the Whole #\$@%# Thing!" *C. Shaffrey, MD*
8:03 Debate

8:12 am Vascular Showdown: "How Big is Big Enough?: Treatment of Unruptured Aneurysms Less than 7mm"

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	8:12 <i>"Don't Poke the Bear"</i>	<i>T. Lau, MD</i>
	8:17 <i>"Everyone Deserves a Treat!"</i>	<i>C. Ogilvy, MD</i>
	8:22 Debate	
8:30 am	Functional Showdown: <u>"Probing the Depths:</u> Neurostimulation for Epilepsy: Where Do We Go Beyond VNS?"	
	8:30 <i>"No Need to Respond – just DBS"</i>	<i>J. Gerrard, MD</i>
	8:35 <i>"Staying Responsive with RNS"</i>	<i>D. Southwell, MD</i>
	8:40 Debate	
8:48 am	Skull-base Showdown: <u>"Looking for an Angle:</u> Unilateral vs. Bilateral Approach for Planum, Olfactory Groove, and Tuberculum Meningiomas"	
	8:48 <i>"A One-sided Argument"</i>	<i>A. Patel, MD</i>
	8:53 <i>"Two Sides to Every Story"</i>	<i>T. Garzon-Muvdi, MD</i>
	8:58 Debate	
9:06 am	Pediatrics Showdown: <u>"Closing Time:</u> Postnatal vs. Prenatal Myelomeningocele Repair"	
	9:06 <i>"A Womb with a View"</i>	<i>J. Strahle, MD</i>
	9:11 <i>"Awaiting Delivery"</i>	<i>B. Rocque, MD</i>
	9:16 Debate	
9:24 am	Introduction to Distinguished Practitioner Lecture	<i>J. Wilson, MD</i>
9:20 am	Distinguished Practitioner Lecture	<i>D. Coric, MD</i>
9:50 am	Final Refreshment Break with Exhibitors	
Session VI	Abstracts, Invited Talks, & Semmes Lecture <i>Moderators: Ryan Jafrani, W. Gump</i>	
10:10 am	Abstracts & Discussion Part A	

10:10 am	Abstract 30: McCravey Basic Science Award Winner: Impact Of Aspirin on Decreasing Aneurysm Formation and Rupture in Male Mice Compared to Female Mice Via the Effect of 15-PGDH And EP Samantha Spellicy, MD, PhD; Basel Musmar; Kendall Reitz, BS; Jihad Abdelgadir, MD; Brian Mace; Eduardo Chaparro, MD, PhD; Ali Zomorodi, MD; and David Hasan, MD
10:16 am	Abstract 31: IL12-secreting Car-t Cells Eradicate Heterogeneous Brain Tumors and Promote Epitope Spreading Via Local Antigen Presenting Cells Without Host Lymphodepletion Steven Hacohen Shen, Ph.D.; Aditya Mohan; Anoop Patel, MD
10:22 am	Abstract 32: A Transcriptome-wide Association Study of Meningioma Using Joint Tissue Imputation and Mendelian Randomization Robert J. Dambrino, MD, MPH; Phillip Lin, BA; Xavier Bledsoe, BA; Campbell Liles, MD; Lola B. Chambless, MD; Reid C. Thompson, MD; and Eric R. Gamazon, PhD, MS

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10:28 am	Discussion
10:32 am	Abstract 33: Adropin Protects Against Subarachnoid Hemorrhage-associated Brain Injury Through Activation of Endothelial Nitric Oxide Synthase Brandon Lucke-Wold, MD, PhD
10:38 am	Abstract 34: Type I Interferon Signaling Within Glioblastoma Tumor Cells Promotes T Cell Exhaustion and Resistance to Checkpoint Inhibitors Joshua Jackson, MD, PhD ; Xiuyu Cui, PhD; and Peter Fecci, MD, PhD
10:44 am	Abstract 35: Adoptive Lymphocyte Transfer Increases Intra-tumoral T Cell Counts During Lymphocytic Sequestration and Augments Immunostimulatory Therapy in The Cns of Mice with Established Glioma Kirit Singh, MBBS ; Bhairavy Puvindran, MBBS; Shannon Wallace; Pamela Noldner; Ying Zhou; Mustafa Khasraw, MD; John Sampson, MD PhD; and Peter E. Fecci, MD PhD
10:50 am	Discussion

10:55 am **Invited Talk:** Window of Opportunity Trials in Neuro-Oncology

M. Vogelbaum, MD, PhD

11:07 am Abstracts & Discussion Part B

11:07 am	Abstract 36: Analysis of Penetrating Cerebrovascular Injuries with Computed Tomographic Angiography at a Singe Institution Tyler Warner, MD ; Alec Clark, MD; Nicholas P. Derrico, MD; Tyler X. Giles, MD; Benjamin W. Carroll, MD; Katherine E. Baker, MD; Evan Bowan, MD; John Wilkinson, MD; Gregory Vance, MD; Zachary S. Smalley, MD; and Jared J. Marks, MD
11:10 am	Abstract 37: Refractory Primary CNS T-cell Lymphomas: Evaluation of Stereotactic Radiosurgery as A Second Line Treatment Jose Valerio, MD, MBA ; Maria P. Fernandez Gomez, MD; Penelope Mantilla Farfan, MD; and Andres M. Alvarez-Pinzon, MD, PhD
11:13 am	Abstract 38: Approach, Complications, and Outcomes for 37 Consecutive pediatric Patients Undergoing Laser Ablation for Medically Refractory Epilepsy Gerald Grant, MD
11:16 am	Abstract 39: Awake Robotic Minimally invasive Transforaminal Lumbar Interbody Fusion Under Spinal Anesthesia: A Prospective Study With 1-year Follow-up Gaetano De Biase, MD ; Oluwaseun Akinduro, MD; Ian Buchanan, MD; Elird Bojaxhi, MD; Shaun Gruenbaum, MD; Teodoro Forcht Dag, MD, MPH; Alfredo Quinones-Hinojosa, MD; and Kingsley Abode-Iyamah, MD
11:19 am	Discussion
11:23 am	Abstract 40: Multicenter Study of Prolactinoma Patients with Prior Dopamine Agonist Therapy and Subsequent Transsphenoidal Surgery: Insights into Demographics, Treatment, And Outcomes Ogechukwu Ariwodo ; Harshvardhan Iyer, M.B.B.S; Chase McKeivitt; Saurav Das; Juan Medina Colon; and Kaisorn Chaichana, M.D.

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11:26 am	Abstract 41: Social Determinants and Adjuvant Radiotherapy After Resection of Atypical Meningioma Zvipo Mutsa Chisango ; Obiadada Ugochukwu; Xiaojie J. Zhi; Jim Zhong, MD; Bree Eaton, MD; Hui-Kuo Shu, MD PhD; Arman Jahangiri, MD PhD; David Bray, MD; and Kimberly Hoang, MD
11:29 am	Abstract 42: Minimally Invasive Parafascicular Surgical Approaches Versus Traditional Techniques for Supratentorial Intraventricular Tumors Wade Pingel, B.A. ; Gabrielle Gray, B.S.; Timothy Woodiwiss, M.D.; Juan Vivanco Suarez, MD; and Jeremy Greenlee, MD
11:32 am	Abstract 43: Intracranial Tumors Elicit Systemic Sympathetic Hyperactivity That Limits Immunotherapeutic Responses Selena Lorrey; Luke Wachsmuth; Jessica Waibl-Polania; Alexandra Hoyt-Mlggelbrink; Xiuyu Cui; Emily Lerner; Daniel Wilkinson; Kyle Walsh; Quinn Ostrom; Peter E. Fecci, MD, PhD
11:35 am	Discussion

11:40 am Introduction to the Semmes Lecture

E. Leuthardt, MD

11:45 am **Semmes Lecture**

D. Limbrick, MD

12:20 pm Raffle Drawing & Closing Comments

12:25 pm **Meeting Adjourns**