

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Medical Society of Virginia. The Winchester Medical Center's CME Program is accredited by The Medical Society of Virginia to provide continuing medical education for physicians and designates this live activity for a maximum of 11.00 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The meeting planners, speakers and those in charge of content report no conflicts relevant to this educational activity.

A Brief History

The organization of the Neurosurgical Society of Virginia began in 1965. At that time there was no structure within the State Medical Society peculiar to the affairs of neurological surgery nor a forum for the dissemination of scientific and educational information of the neurosurgical sciences. Neurological surgeons were moving from the traditional medical centers of the Universities to the larger communities of the state. Neurosurgeons from Roanoke, the eastern shore of Virginia and Lynchburg as well as Richmond met at the John Marshall Hotel in Richmond to develop plans for an independent organization to meet these challenges.

The founders set forth qualifications for membership. They were basic. The member must be a physician lawfully licensed for the practice of medicine in the Commonwealth of Virginia and a neurological surgeon in good standing. The objectives of the Society were to support the continuing education of its members, to provide a forum for expression and dissemination of scientific information, to have a recognized organization to speak for neurosurgical interests in social and economic affairs and to promote a collegial atmosphere for neurosurgeons in the Commonwealth. As well, it was the consensus of the founders that the annual meeting be held not at one of the universities but rather at one of the resort areas of Virginia.

With these objectives this nucleus of neurosurgeons established during 1966 a more formal organization. Those who were eligible were invited to join and officers were selected. The first annual meeting was held January 1967 at The Homestead. Dr. Gayle Crutchfield, professor of neurosurgery at the University of Virginia, and Dr. James L. Poppen of the Lahey Clinic were invited as honored guests for this meeting.

The proximity of West Virginia and the level of communication among neurosurgeons of the two states prompted a change in the by-laws in 1967 admitting the Society neurosurgeons of West Virginia. The name was changed in 1968 to the Neurosurgical Society of the Virginias. In 1969 a motion was passed to invite scientific papers from neurosurgical residents to be presented at the annual meeting and to award an honorarium to the resident presenting the best paper. This was endorsed and supported by the program chairman of the University of Virginia, Medical College of Virginia and West Virginia University. In 1973, it was voted to name and award the "Crutchfield-Gage Award" to honor Dr. Crutchfield and Dr. Lyle Gage, Sr., the pioneer neurosurgeons of Virginia and West Virginia respectfully. In 1974 the name of "Thomson" was added to honor the recently deceased Dr. James Thomson, who was a founding member and first president of the Society.

Currently, the Society sends elected representatives to the Council of State Neurosurgical Societies for dealing with social, economic and political matters and, when called upon provides council for the Medical Society of the State of Virginia and for national organizations such as the American College of Surgeons. However, the basic principles of the annual meeting remain the same as those of the founders, i.e. continuing education, disseminating scientific information, maintaining a cohesive relationship amongst neurosurgeons and acting as a representative of organized neurosurgery in the Virginias.

Contributed by Stacy L. Rollins, Jr., M.D., January 1992

FORMER GUESTS OF THE SOCIETY

1967	W. Gayle Crutchfield, M.D.	2006	Volker Sonntag, M.D.
	James L. Poppen, M.D.	2007	Vincent Traynelis, M.D.
1968	J. Lawrence Poole, M.D.	2008	Leon Moores, M.D.
1969	Guy L. Odom, M.D.	2009	Ossama Al-Mefty, M.D.
1970	E.S. Gurdjian, M.D.	2010	Neal Kassell, M.D.
1971	A. Earl Walker, M.D.	2011	Edward Oldfield, M.D.
1972	J. Garber Galbraith, M.D.	2012	Howard Eisenberg, M.D.
1973	Richard C. Schneider, M.D.	2013	Richard Ellenbogen, M.D.
1974	Eben Alexander, Jr., M.D.	2014	Andres Lozano, M.D.
1975	William B. Scoville, M.D.	2015	Madjid Samii, M.D.
1976	Frank H. Mayfield, M.D.	2016	Alex Valadka, M.D.
1977	Kenneth Earle, M.D.	2017	Matthew Howard, M.D.
1978	Joseph Ransohoff, II, M.D.	2018	Daniel M Prevedello, MD
1979	John M. Tew, Jr., M.D.		
1980	William Collins, M.D.	1966-1968	James L. Thomson, M.D.
1981	Frank E. Nulsen, M.D.	1968-1970	Edgar N. Weaver, M.D.
1982	Hugo Rizzoli, M.D.	1970-1972	William M. Eagles, M.D.
1983	William F. Meacham, M.D.	1972-1974	Frank B. Clare, M.D.
1984	Ross H. Miller, M.D.	1974-1976	G. Robert Nugent, M.D.
1985	Charles G. Drake, M.D.	1976-1978	Stacy L. Rollins, Jr., M.D.
1986	Peter J. Jannetta, M.D.	1978-1980	Joseph F. Kell, Jr., M.D.
1987	Paul C. Bucy, M.D.	1980-1982	Albert G. Loew, Jr., M.D.
1988	George T. Tindall, M.D.	1982-1984	Italo Rinaldi, M.D.
1989	G. Robert Nugent, M.D.	1984-1986	Darwin J. Ferry, Jr., M.D.
1990	Martin H. Weiss, M.D.	1986-1988	Robert P. Singer, M.D.
1991	John A. Jane, M.D.	1988-1990	Lyle Gage, Jr., M.D.
1992	Donlin A. Long, M.D.	1990-1992	Robert G. Hennessy, M.D.
1993	David L. Kelly, Jr., M.D.	1992-1994	Jacques E. Botton, M.D.
1994	Donald P. Becker, M.D.	1994-1996	George W. Johnson, M.D.
1995	Harold F. Young, M.D.	1996-1998	Benjamin R. Allen, Jr., M.D.
1996	H. Richard Winn, J.D.	1998-2000	George Hurt, M.D.
1997	Edward R. Laws, Jr., M.D.	2000-2002	Anthony J. Caputy, M.D.
1998	Charles B. Wilson, M.D.	2002-2004	Harold F. Young, M.D.
1999	James I. Ausman, M.D.	2004-2006	Julian Bailes, M.D.
2000	Ralph G. Dacey, Jr., M.D.	2006-2008	John Feldenzer, M.D.
2001	Donald O. Quest, M.D.	2008-2010	Morris McCrary, M.D.
2002	Johnny B. Delashaw, Jr., M.D.	2010-2012	Charles Rosen, M.D.
2003	Julian T Hoff, M.D.	2012-2014	William Broaddus, M.D.
2004	M. Sean Grady,	2014-2015	John Jane, Sr, M.D.
2005	Regis Haid, M.D.	2016-2018	John Jane, Jr, M.D.

PAST PRESIDENTS

OFFICERS

President
Secretary
Treasurer

Lee Selznick, M. D.
Jonathan Sherman, M.D.
Mark Witcher, M.D.

Raymond Sawaya, MD



Honored Guest

Dr. Raymond Sawaya was the founding chair of Neurosurgery at The University of Texas MD Anderson Cancer Center, as well as an advisor to the leaders of the Glioblastoma Multiforme (GBM) Moon Shot™. He also served as director of the Brain Tumor Center and is currently holder of the Anne C. Brooks & Anthony D. Bullock, III Distinguished Chair in Neurosurgery.

Dr. Sawaya earned his medical degree from St. Joseph University of Beirut, Lebanon, and completed a surgical internship at Beekman Downtown Hospital in New York City. Multiple residencies followed: in general surgery at Upstate

Medical Center State University of New York, in pediatric neurosurgery at Children's Hospital Medical Center in Cincinnati and in neurosurgery at the University of Cincinnati College of Medicine. In 1980, he accepted the position of chief resident in neurosurgery at Johns Hopkins Hospital and then held a fellowship at the National Institutes of Health (NIH) as a Fogarty International fellow. At NIH, he found his career focus: brain tumors and, in particular, glioblastomas. He was recruited back to the University of Cincinnati in 1982, where he spent eight years building that institution's brain tumor program.

Dr. Sawaya has influenced the field of neurosurgical oncology in several major ways. Ever since he was recruited in 1990 to establish a newly formed Department of Neurosurgery at MD Anderson, he has built the most comprehensive and best recognized neurosurgical oncology program in the country (*Neurosurgery* 56: 841-50, 2005).

Dr. Sawaya is an internationally recognized leader in neurosurgery, with particular expertise in primary and metastatic brain tumors. His laboratory work helped identify molecular determinates of brain tumor invasiveness, and in particular, the role of serine proteases and their roles in glioma oncogenesis (over 60 publications). On the clinical side he has helped identify brain metastases as a major threat to the well-being of cancer patients, and was the first to promote the treatment of patients with multiple brain metastases (*J Neurosurg* 79: 210-6, 1993; 368 citations). Dr. Sawaya is renowned for his great strides in enhancing the accessibility and safety of brain tumor surgery. This can best be demonstrated in his landmark paper on the importance of extent of resection on the survival of glioblastoma patients (*J Neurosurg* 95: 190-8, 2001; 1440 citations). He has also conducted the first prospective trial on the use of intraoperative MRI to maximize the extent of resection (*Neurosurgery* 64: 1073-81, 2009; 105 citations).

Dr. Sawaya has published more than 300 articles and book chapters and has served as both reviewer and editor for a number of peer-reviewed journals. He is the past president of the American Radium Society, the past president of the Houston Neurological Society and past chair of the American Association of Neurological Surgeons/Congress of Neurological Surgeons Section on Tumors. He is in demand as a lecturer across the nation and around the world and has received a number of awards in recognition of his expertise.

In a 2016 article, the American Association of Neurological Surgeons' online journal *Neurosurgeon* referred to Dr. Sawaya as a "triple threat" who has excelled as a surgeon, researcher and teacher and noted that he was very successful as a leader and an advocate for the field. Dr. Sawaya considers his greatest achievement the building and maintaining of MD Anderson's comprehensive brain tumor program, which has allowed him to touch the lives of many patients.

THE NEUROSURGICAL SOCIETY OF THE VIRGINIAS

**THE GREENBRIER
WHITE SULFUR SPRINGS, WEST VIRGINIA**

FIFTY FOURTH MEETING

January 23-25, 2020

THURSDAY, JANUARY 23, 2020

3:00 – 4:00PM	Registration	Mezzanine
6:00 – 7:00PM	Reception	North Parlor
7:30PM	Dinner	Main Dining Room Individuals or Groups

FRIDAY, JANUARY 24, 2020

6:15AM - 8:15AM	Continental Breakfast	West Virginia Room
7:00AM - 1:00PM	Exhibits	West Virginia Room
7:00AM - 1:40PM	Scientific Sessions	Filmore/Van Buren Room
7:00AM	Introduction - Opening Remarks Lee Selznick, MD	
7:05AM	<i>Mutant IDH-induced LDH-A Expression in Peritumoral Cortex as a Mechanism for Tumor Related Epilepsy*</i> Presenting Author: Islam Fayed, MD Georgetown	

7:20AM *Repetitive Diffuse Mild Traumatic Brain Injury
Causes an Atypical Astrocyte Response and
Spontaneous Recurrent Seizures**
Presenting Author: Michael Benko, DO
Virginia Tech

7:35AM *Whole-Brain Visualization of Active Neuronal
Populations in a Rodent Model of Neuropathic
Pain**
Presenting Author: Shayan Moosa
UVA

7:50AM *Mild Traumatic Brain Injury Results In Diffuse
Interneuron Axotomy And Network Dysfunction**
Presenting Author: John Greer, MD
VCU

8:05AM *Understanding Recovery Of Function In The Visual
Axis Following Mild TBI Using A Mouse Model.**
Presenting Author: Vishal Patel, MD
VCU

8:20AM *Stimulation of the Nucleus Basalis of Meynert
Induces Neurogenesis and Improved Learning in
Demented Rats: Preliminary Finding **
Presenting Author: Jaime Toms, MD
VCU

8:35AM *Arachnoid Granulations Poised for a Role in
Immune Surveillance**
Presenting Author: Jennifer Sokolowski, MD
UVA

8:50AM Coffee Break West Virginia Room

9:10AM *Use of Automated Migration Analysis to Detect
Changes in Cellular Invasion for Study of Tyrosine
Kinase Inhibitor (TKI) Treated Human
Glioblastoma**
Presenting Author: Danielle Dang, MD

9:25AM	Inova <i>The Utility of Prolonged Prophylactic Systemic Antibiotics (PPSA) for Subfascial Drains after Posterior Spinal Surgery for Degenerative Disease *</i> Presenting Author: Gnel Pivaxyan, MD GT	11:20-11:25	GT <i>Clinical presentation and treatment of pituitary apoplexy: Not a true surgical emergency</i> Presenting Author: Alexander Tai, MD GT
9:40AM	<i>Cavernous Sinus Exploration in Cushing's Disease: Indications and Outcomes*</i> Presenting Author: Elizabeth Hogan, MD GWU	11:25-11:30	<i>Early experience with electric scooter injuries requiring neurosurgical evaluation in the District of Columbia: a case series</i> Presenting Author: Kenneth Sack, MD GWU
9:55AM	<i>Neurosurgical Management in Left Ventricular Assist Device Patients with Intracranial Hemorrhage*</i> Presenting Author: David Zhao, MD GT	11:30-11:35	<i>Surgical Trends and Outcomes of Adult Patients with Craniopharyngioma in the National Cancer Database</i> Presenting Author: Charles Opalak, MD VCU
10:10AM	<i>Pediatric Anoxic Brain Injury - A Possible Locked-in Syndrome*</i> Presenting Author: Miriam Ishaque, MD UVA	11:35-11:40	<i>Residency Recruitment Scoring Inter-rater Reliability</i> Presenting Author: Kevin Waits, MD VCU
10:25AM	<i>Single Center Analysis of Clinical Vasospasm Risk after Hydrogel vs Bare Metal Coil Embolization of Ruptured Cerebral Aneurysms*</i> Presenting Author: Evan Guilliams, DO VT	11:45-11:50	<i>Virginia Tech - Factors Affecting R01 Grant Funding Among Academic Neurosurgeons Over the Last Decade: A Quantitative Description</i> Presenting Author: Joshua Cuoco, DO VT
10:40AM	<i>Vorinostat for Hemangioblastomas in Germline Missense von Hippel-Lindau Disease: A Phase 0 Clinical Trial*</i> Presenting Author: Panagiotis Mastorakos, MD UVA	11:50-11:55	<i>Analysis of Traumatic Spinal Cord Injury in Patients with Pre-existing Cervical Spondylosis: Information to Guide Patient Education</i> Presenting Author: Brendan Klein, DO VT
10:55	Coffee Break West Virginia Room	11:55-12:00	<i>Impact of distance traveled to radiosurgery center on time to initiation of gamma knife treatment for brain metastases in a rural patient population</i> Presenting Author: Azeem Rehman, MD WVU
<i>Abbreviated Talks Session</i>			
11:15-11:20	<i>First Flight of Neurosurgery: Report of a Decompressive Craniectomy in 1908</i> Presenting Author: Nirali Patel, MD	12:00PM	Lunch

12:35PM Introduction of Honored Guest
Lee Selznick, Jr, MD

12:40PM Honored Guest – Raymond Sawaya, MD
Extent of Resection for Glioblastoma: Where to draw the line?

1:30PM Annual Business Meeting

6:00PM - 7:30PM Reception West Virginia Room
Presentation of Crutchfield,
Gage and Thomson Award and Jane and Nugent Awards

SATURDAY, JANUARY 25, 2020

6:30AM - 7:30AM Continental Breakfast West Virginia Room

7:00AM - 1:00PM Exhibits

7:00AM - 1:00PM Scientific Sessions Filmore/Van Buren Room

7:00 *Management of Spine Fractures in Patients with Ankylosing Spondylitis*
Author: John Hamilton, MD
Inova

7:30 *Single-Neuron Correlates Of Visual Attention And Face Processing In The Human Brain*
Author: Nicholas Brandmeir, MD
WVU

8:00 *Kambin's Triangle: Definition And New Classification Schema*
Author: Andrew Fanous, MD
Inova

8:20 Coffee Break West Virginia Room

8:50 *The Evolution of BeSafe: A Lean Management System To Transform Healthcare Outcomes*
Author: Mark Shaffrey, MD

UVA

9:20 *The Origins And Significance Of Evidence-Based Practice Guidelines*
Author: Mateo Ziu, MD
Inova

9:50 Coffee Break West Virginia Room

10:10 *The Safety Of Cytokine Microdialysis For Immune Monitoring In Recurrent Glioblastoma Patients*
Author: Edjah Nduom, MD
NIH

10:40 *The Role Of Supratotal Resections In Primary Glioblastoma*
Author: Raj Mukherjee, MD
Johns Hopkins

11:10 Coffee Break West Virginia Room

11:30 *Resident Physician Burnout: A Global Neurosurgery Pilot Study*
Author: Walter Jean, MD
GWU

12:00 *Two Steps Forward, One Step Back” An Incremental, Multi-Pronged Strategy to Improve Value Based Spine Care*
Author: Nathan Nair, MD
Georgetown

12:30PM Introduction of Honored Guest
Lee Selznick, Jr, MD

12:35PM Honored Guest – Raymond Sawaya, MD
Current and Future Trends in the management of Brain Metastases

1:30PM Closing Remarks and Evaluation

*Asterisk denotes papers eligible for Crutchfield, Gage and Thomson Award and Jane and Nugent Award

DIRECTORY OF MEMBERS

Nevan Baldwin, MD
34679 Atoka Chase Lane
Middleburg, VA 20117
Phone: 806-438-4445
Fax: 571-636-6010
baldwin@virginia.edu

William C. Broaddus, M.D., PhD.
PO Box 980631
Richmond, VA. 23220
Phone: 804-827-4059
Fax: 804-828-4493
Wbroaddus@mcvh-vcu.edu

Anthony Caputy, M.D.
Neurosurgery
George Washington University Medical Center
2150 Pennsylvania Avenue NW 7#7-420
Washington DC 20037
Phone: 202-986-2981
Acaputy@mfa.gwu.edu

Christopher P. Cifarelli MD, PhD
Department of Neurosurgery
West Virginia University
PO Box 9183
Morgantown, WV 26506-9183
cpcifarelli@gmail.com

James Ecklund, MD
Inova Fairfax Hospital
3300 Gallows Road, Falls Church, VA 22042-3300
Phone: 703-776-6383
Fax :703-776-4018
James.ecklund@inova.org

Zev Elias, M.D.
Carilion Clinic
3 Riverside Circle
Roanoke, VA 24016
Phone: 540-224-5170
Fax: 540-985-9612
ZXELias@carilionclinic.org

DIRECTORY OF MEMBERS

Andrew Fanous, MD
Inova Fairfax Hospital.
Dept of Neurosurgery
3300 Gallows Road
Falls Church, 22042
Phone: 703-776-8310
Fax: 703-776-4018
Andrew.fanous@inova.org

John A. Feldenzer M.D.
811 Scott Circle
Salem, VA 24153
Phone: 540-520-5539
zugbug3@comcast.net

Abdi Ghodsi, MD
5201 Grand Central Ave
Vienna, WV 26105
abdighodsi@hotmail.com

George A. Hurt, MD
2138 Langhorne Road
Lynchburg, Va. 24501
Phone: 434-947-3920
Fax : 434-947-3924
cavalr@lynchbur.net

Patrick Ireland, MD
Virginia Brain and Spine
1818 Amherst Street
Winchester, VA 22601
pireland@vabrainandspine.com

John A. Jane, Jr., MD
UVA Neurosurgery
PO Box 800212
Charlottesville, VA 22908
Phone : 434-243-5749
Fax : 434-243-9656
Jaj2k@virginia.edu

DIRECTORY OF MEMBERS

Neal Kassell, MD
UVA Neurosurgery
Box 800212
Charlottesville, VA 22903
Phone: 434-924-2735
Fax: 434-924-9656
nkassell@fusfoundation.org

Sander W. Leivy, MD
608 Kensington Court
Roanoke, Va. 24014
Phone: 540-342-4737
sleivy@cox.net

Morris E. McCrary, III, MD
2138 Langhorne Road
Lynchburg, Va. 24501
Phone : 434-947-3920
Fax : 434-947-3924
maxneuro@aol.com

Nathan Nail, MD
3620 Reservoir Road N
Washington, DC 20007
Nair.nathan@gmail.com

Edjah K. Nduom, MD
10 Center Drive
10/3D20
MSC1414
Bethesda, MD 20892
Phone: 301-496-2921
Edjah.nduom@nih.gov

John Orphanos, MD
415 Morris St, Suite 400
Charleston, WV 25301
Phone: 304-344-3551
Fax: 304-342-6927
jorphanos@wvneuro.com

DIRECTORY OF MEMBERS

Nicholas Phan, MD
1600 Medical Center Drive
Suite B500
Huntington, WV 25701
Phone: 304-638-0434
phann@marshall.edu

Dwight Saulle, MD
St. Mary's Neurosurgery
2860 Third Ave, Suite 10
Huntington, WV 25702
Phone: 304-525-6825
Fax: 304-525-0300
Dwight.saulle@st-marys.com

Lee Selznick, MD
1818 Amherst Street
Winchester, VA 22601
Phone: 540-450-0072
Fax: 540-450-0074
lselznick@vabrainandspine.com

Mark Shaffrey, MD
UVA Neurosurgery
PO Box 800212
Charlottesville, VA 22908
Phone: 434-982-3244
Kes4a@hacmail.mcc.virginia.edu

Jason Sheehan, MD
Box 800212, HSC
Charlottesville, VA 22908
Phone : 434-924-8129
Fax : 434-243-6726
Jps2f@virginia.edu

Jonathan Sherman, MD
2150 Pennsylvania Avenue NW
Suite 7-420
Washington, DC 20037
Phone: 434-227-9512
Fax: 202-741-2753
jsherman@mfa.gwu.edu

DIRECTORY OF MEMBERS

Gary Simonds, MD
3 Riverside Circle
Roanoke, VA 24016
Phone: 540-224-5170
gsimonds@carilion.com

Joseph Watson, MD
8230 Boone BLVD
Suite 360
Vienna, VA 22182
Phone: 703-748-1000
www.cerebrumMD.com

Matthew Werthammer
St. Mary's Neurosurgery
2860 3rd Avenue Suite 10
Huntington, WV 25702
304-525-6825
m.werthammer@hotmail.com

Mateo Ziu, MD
Inova Fairfax Hospital.
Dept of Neurosurgery
3300 Gallows Road
Falls Church, 22042
Phone: 703-776-8310
Fax: 703-776-4018
Mateo.ziu@inova.org

**NEUROSURGICAL SOCIETY OF THE VIRGINIAS
MEMBER INFORMATION UPDATE REQUEST FORM**

- Request for change of mailing address
- Request for correction of mailing address
- Request for change of membership status
- Deceased

Member Name: _____

Spouse Name: _____

Office Address: _____

Phone: _____ Fax: _____

Email: _____

Home Address: _____

Phone: _____ Fax: _____

Email: _____

Member Name: _____

Change of Status: From: _____ To: _____

If deceased, please provide date if available: _____

Please return form to: Neurosurgical Society of the Virginias
C/o Julie Henderson, NP-C