Original Candidate Resume

Nathan Selden

July 27, 2026

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Russell Reynolds ASSOCIATES

CURRICULUM VITAE
OREGON HEALTH & SCIENCE UNIVERSITY

NAME **Nathan R. Selden, MD, PhD, FACS, FAAP**

DATE **July 16, 2026**

I. PRESENT POSITION AND ADDRESS

Position: **Dean, School of Medicine**
President, OHSU Practice Plan
Executive Vice President

Academic Rank: **Campagna Chair in Pediatric Neurosurgery (Tenured)**

Department/Division: **Office of the Dean, School of Medicine**

Professional Address: [redacted]

E-Mail Address: [redacted]

II. EDUCATION

Undergraduate and Graduate:

1993 Doctor of Medicine, Cum Laude, Harvard Medical School

- John E. Thayer Scholarship, Harvard University, 1993. Presented annually to one graduate of Harvard Medical School for academic excellence.
- Aesculapian Honors Society, Harvard Medical School, 1993.

1990 Doctor of Philosophy, Departments of Experimental Psychology and Anatomy, University of Cambridge

- Marshall Scholar, United Kingdom, 1986 to 1989.
- President, Jesus College Middle Combination Room (Graduate Society), University of Cambridge, 1987–88.
- Tutor, Natural Sciences (Biology B), Queen's College, University of Cambridge, 1987-1989.

1986 Bachelor of Arts, With Distinction, Human Biology, Stanford University

- Dinkelspiel Award, the Stanford University Commencement Prize, 1986.
- Dean's Award for Service, Stanford University, 1986.
- E.C. Converse Honors Scholarship, Stanford University, 1985–86.
- Phi Beta Kappa, Stanford University, 1985.
- Legislative Intern for U.S. Senator Max Baucus, Washington, D.C., 1981. Wrote "An Intern's Views of the Hill," *The Washington Post*, June 7, 1981.

Postgraduate:

1999-2000 Fellow, Pediatric Neurological Surgery, Children's Memorial Hospital, Northwestern University Medical School, July to March

1998-1999 Chief Resident, Neurological Surgery
University of Michigan Medical Center

- Award of the American Academy of Neurological Surgery, 1998.
- Resident Award, Galens Medical Society, University of Michigan Medical School, for dedication to medical student teaching, 1999.

1993-1998 Intern and Resident, Neurological Surgery
University of Michigan Medical Center

1997-1998 Postdoctoral Fellow, Neuroanatomy, Department of Neurology, Northwestern University Medical School, July to March

Certification:

American Board of Neurological Surgery #24032 (CC)	May 20, 2004, to Dec. 31, 2034
ABNS Recognition of Focused Practice – Pediatrics	June 12, 2021, to Dec. 31, 2031
American Board of Pediatric Neurological Surgery	June 4, 2011, to Dec. 31, 2031
Controlled Substance Certificate (DEA)	1999
Advanced Cardiac Life Support Certificate	1997
Diplomate of the American Board of Medical Examiners	1994

Licenses:

Oregon	2000	Active	MD22319	Renewal date: 12/31/2027
Illinois	1999	Inactive	036-099800	Renewal date: NA
Michigan	1998	Inactive	430-106-1835	Renewal date: NA

III. PROFESSIONAL EXPERIENCE

Academic:

Mario and Edith Campagna Chair in Pediatric Neurosurgery, July 2012 to present.

Mario and Edith Campagna Professor in Pediatric Neurosurgery, July 2009 to 2012.

Mario and Edith Campagna Associate Professor in Pediatric Neurosurgery, October 2005 to June 2009.

Assistant Professor of Neurological Surgery, Oregon Health & Science University, May 2000 to June 2005.

Professor by courtesy, Department of Pediatrics, Oregon Health & Science University.

Professor by courtesy, Department of Behavioral Neuroscience, Oregon Health & Science University.

Administrative:

Dean, School of Medicine, Oregon Health & Science University, June 2024 to present. Interim February to June 2024.

Executive Vice President, Oregon Health & Science University, June 2024 to present. Interim February to June 2024.

President and Chair, Board of Directors, OHSU Practice Plan, February 2024 to present.

Co-Executive Sponsor, MOU and definitive agreement stages, OHSU acquisition of Legacy Healthcare (did not close), April 2024 to July 2025.

Interim Senior Associate Dean for Education, School of Medicine, Oregon Health & Science University, February to July 2024.

Chair, Department of Neurological Surgery, School of Medicine, Oregon Health & Science University, January 2016 to March 2024.

- OHSU Golden Rose Award, January 2018.

Program Director, Neurological Surgery Residency, Oregon Health & Science University, February 2005 to January 2017, and July 2021 to June 2022.

- ACGME Parker J. Palmer Courage to Teach Award, 2013.
- ACGME site visit, 5-year full accreditation with commendation, complement increase from 14 to 18 residents, 'notable practice' designation, 2012.
- ACGME site visit, 5-year full accreditation, 2005.

Vice-Chair for Education, Department of Neurological Surgery, Oregon Health & Science University, September 2003 to December 2015.

Head, Division of Pediatric Neurological Surgery, Department of Neurological Surgery, Oregon Health & Science University, August 2000, to December 2015.

Director, Pediatric Neurological Surgery, Doernbecher Children's Hospital, July 2002 to December, 2015.

- Member, *Gold Humanism Honor Society*, The Arnold P. Gold Foundation, 2013 to present.

- Best Oregon Doctors. *Portland Monthly* Magazine, December 2004, 2005, 2006, 2007, 2008, 2009, 2011, 2013, 2014, 2017, 2018, 2020, 2021, 2022, 2023, 2024.
- Best Doctors in America, 2005-2006, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-12, 2012-2013, 2013-2014, 2014-2015, 2015-16, 2019-20, 2020-21 at www.bestdoctors.com.
- Guide to America's Top Surgeons, Consumers' Research Council of America, 2008, 2009, 2010, 2011, 2012, 2013 at www.consumersresearchcncl.org.
- America's Top Doctors, Castle Connolly Medical, Ltd., 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023 (20th edition), at www.castleconnolly.com (listed nationally and in Portland Monthly best doctors edition).
- America's Best Physicians, National Consumer Advisory Board, www.todaysbestphysicians.com, 2016, 2017, 2018, 2019, 2020, 2021.
- U.S. News & World Report Top Doctors, 2011, 2012, 2013, 2014.
- 40 Rose Award Medal, Oregon Health & Science University, May 2006.
- 'Exceptional Mentor' designation, OHSU School of Medicine Class of 2014.

Director, Pediatric Neurotrauma, Oregon Health & Science University, June 2000 to July 2002; October 2004 to November 2008; and January 2012 to December 2015.

Co-founder and co-director, Comprehensive Pediatric Brain Tumor Clinic, Doernbecher Children's Hospital, September 2000 to July 2007.

Director, Resident Education, Neurological Surgery Residency, Oregon Health & Science University, September 2002 to September 2003.

Clinical:

Attending Surgeon, Doernbecher Children's and OHSU Hospitals, May 2000 to present.

Staff Surgeon, Randall Children's Hospital, Legacy Emmanuel Medical Center, October 2020 to August 2025.

Neurosurgical Director, Doernbecher Level IV Epilepsy Program, July 2004 to February 2024.

Neurosurgical Director, Doernbecher Accredited Craniofacial Disorders Program, June 2000 to February 2024.

Consultant Neurosurgeon, Doernbecher Interdisciplinary Brain Tumor Clinic and Program, July 2011 to February 2024 (Neurosurgical Director, June 2000 to June 2011).

Consultant Surgeon, Shriners Hospital for Children, Portland, Oregon, September, 2002, to February 2024.

Attending Surgeon, Veteran's Affairs Medical Center, Portland, Oregon, June 2000 to September, 2007.

Associate Consultant Surgeon, Shriners Hospital for Children, Portland, Oregon, June, 2000, to August, 2002.

Courtesy Staff Surgeon, Department of Neurological Surgery, St. Vincent's Medical Center, Portland, Oregon, October, 2000 to 2013.

Associate Attending Surgeon, Children's Memorial Hospital, Chicago, Ill., July 1999 to March 2000.

Other:

Public Meetings Law training, Oregon Government Ethics Commission, January 2026.

AAMC Council of Deans Fellow, 2023-24.

AAMC Virtual Leadership Development Seminar for Associate Deans and Department Chairs in Medicine and Science, March 2nd through 4th, 2021.

OHSU Clinician Peer Support Training, November 14th, 2019.

Greeley Physician and Hospital Leadership Seminar – Medical Executive Committee Institute, January 25th to 28th, 2018.

Program for Chiefs of Clinical Services, Harvard School of Public Health, Division of Continuing and Professional Education, January 15th to 27th, 2017.

OHSU Performance Excellence (OPEx) Leadership Training, February 2016.

Accreditation Council for Continuing Medical Education (ACCME) Training Course, Chicago, Ill., December 2006.

OHSU Physician Leadership Academy, The Advisory Board Company, June to October, 2006.

IV. SCHOLARSHIP

Areas of Research and Scholarly Interest:

1. *Medical evidence in pediatric neurological surgery*. Diagnostic criteria, patho-anatomy, indications, and outcome for tethered cord syndrome and Chiari malformation; Co-author of guidelines for the medical management of severe traumatic brain injury in infants, children and adolescents (three editions).
2. *Novel educational methods in neurological surgery*. Extensive funded, prospective curricular development and published research related to the neurosurgical 'boot camp' courses, the ACGME neurosurgical milestones, simulation, surgical pedagogy, and outcomes assessment.
3. *History of medicine*. Using scholarship of ancient Greek medicine to examine problems and pose solutions for modern medical practice, treating topics of professional identity, ethics, mentorship, conception of the body, and wellness. A collaboration with classicist Dr. Nigel Nicholson.
4. *Cellular therapy for neurodegenerative disease in children*. Surgeon and Co-Principal Investigator for the first trial of neuronal stem cell therapy in humans, undertaken to treat neuronal ceroid lipofuscinosis, a uniformly fatal inherited metabolic condition.
5. *Behavioral neuropharmacology of transmitter-specific brainstem modulatory systems*. Utilizing animal models of coordinated attentional, hormonal, and nociceptive-modulatory responses to severe environment stress to investigate circuits centered in the nucleus locus ceruleus and rostral ventromedial medulla and their projections to the hypothalamus, limbic forebrain, and spinal cord.

Grants and Contracts:

Federal/National

Eliminating radiation-induced cancer risk for pediatric TBI: Accuracy of rapid brain MRI and implementation at a community level. NCI R21 (David Sheridan, MD, PI), *submitted*.

Posterior Fossa Decompression for Type I Chiari Malformation with Syringomyelia, Site PI, PCORI CER-1503-29700, (National PI Bermans Iskandar, Univ. of Wisconsin), November 2016 to 2022.

Park-Reeves Outcomes Registry in Chiari I malformation, Washington University St. Louis Chiari Outcomes Project, site PI (National PI Tae Sung Park, Washington University St. Louis), 2015 to 2024.

Outcomes in patients undergoing surgical intervention for Chiari type I malformation and syringomyelia, Syringomyelia and Chiari Alliance Project, site PI (National PI Bermans Iskandar, Univ. of Wisconsin), 2013 to 2015.

Fundamental skills and knowledge training for neurological surgery PGY1 residents, National Courses Director, $1,890,000 (2011-15), grant from Stryker education to the Society of Neurological Surgeons and Congress of Neurological Surgeons.

DIPG biopsy and targeted therapeutics, Pacific pediatric neuro-oncology consortium, Site PI (National PI Nalin Gupta, UCSF), January 2011 to 2013.

Long term follow-up of patients transplanted with purified neural stem cells, Co-I, 0.05 FTE, Stem Cells, Incorporated, Palo Alto, CA, January 2008 to 2014.

Phase Ib testing of purified neural stem cells in patients with infantile neuronal ceroid lipofuscinosis, PI, 0.05 FTE, Stem Cells, Incorporated, Palo Alto, CA, November 2010 to June 2011.

Phase I testing of purified neural stem cells in patients with infantile neuronal ceroid lipofuscinosis (Batten disease), Co-PI, 0.05 FTE, Stem Cells, Incorporated, Palo Alto, CA, March 2006 to January 2009.

2010 Society of Neurological Surgeons National PGY1 Bootcamp Courses. 6 direct unrestricted educational grants to regional course centers totaling $150,000.

Purinergic control of medullary pain modulation. NIH KO8 Career Development Award, PI – Nathan Selden, $726,000 direct costs, October 2002 to September 2007.

Purinergic control of medullary pain modulation. Child Health Research Center/NICHD award (3 years), Junior investigator – Nathan Selden, $75,000 direct costs, July 2002 to June 2005.

Student Research Award, American Geriatrics Society, $3000, 1992.

British Marshall Scholar, United Kingdom, 1986-1989.

State and Local

Immune profiling of metastatic glioblastoma, OHSU School of Medicine Exploratory Research Seed Grant, $5,000, 2022.

Quick Brain MR Imaging: Prospective Study in Pediatric Neurotrauma, Friends of Doernbecher, Co-investigator (PI David Pederson), $51,188, 2017.

Feed and Swaddle (natural sedation for infant brain imaging), Co-investigator (PI Dr. Anna Kuang), Doernbecher Impact Award, $10,000, 2014.

Bioabsorbable intrafascial stent for 3rd Ventriculostomy, device engineering development. Cameron Family Foundation, Principal investigator, $50,000, November 2009 and $50,000 November 2010.

Amygdala and stress induced analgesia. Miller Family Foundation, Principal investigator, $40,000, November 2008.

Bioabsorbable intrafascial stent for 3rd ventriculostomy, pre-clinical testing in sheep. Bioscience Innovation Fund, OHSU/State of Oregon, Principal investigator, $80,000, 2007-2009.

Amygdala and stress induced analgesia. Cameron Family Foundation, Principal investigator, $100,000, December 2006.

Molecular markers in tumors and cerebrospinal fluid as prognostic factors in pediatric and adolescent central nervous system tumors. Co-investigator, Dickenson Foundation of California, $36,405, 1998.

Cholinergic anatomy in the human cerebral hemisphere. Brownell Fund/University of Michigan Neurological Surgery, Principal investigator, $6000, 1997.

Human cerebral cortical anatomy. Lake Odessa Seizure Awareness Association, Principal investigator, $2800, 1997.

Neurochemistry of the human basal ganglia. Hartford Foundation/American Federation for Aging Research Fellowship, Mentor: M.-Marsel Mesulam, Director, Behavioral Neurology Unit, Beth Israel Hospital and Harvard Medical School, Boston, Massachusetts. $10,000, 1992.

Cerebral cortical neurochemistry. Harvard Medical School/National Institutes of Health Research Fellowship, Fellow, Mentor: M.-Marsel Mesulam, Director, Behavioral Neurology Unit, Beth Israel Hospital and Harvard Medical School, Boston, Massachusetts. $2,500, 1990.

Comparative biology of immunological hormone regulation. American Heart Association/Oregon Affiliate Research Fellowship. Fellow, Mentor: Laurens Ruben, Director, Immunology Laboratory, Reed College, Portland, Oregon, $3000, 1985.

Murine interleukins. University of California at Los Angeles/Associated Western Universities Undergraduate Research Fellowship. Fellow, Mentor: Takashi Makinodan, Director, Geriatric Research and Education Center, West Los Angeles VA Medical Center, Los Angeles, California, $3000, 1983.

<u>Other Support</u>

ECOG of human temporal lobe for hearing-language analysis, OHSU Tartar Foundation, Mentor to Dr. Erik Brown, MD, $2500, 2018.

Frameless navigation in pediatric intracranial surgery, GCRC Medical Student Clinical Research Award, Mentor to Ms. Jennifer Haser, OHSU, July 2005-June 2006, $25,000.

Pain modulatory neurons in the pedunculopontine nucleus, OHSU Tarter Foundation, Co-mentor to Dr. Jonathan Carlson, MD, PhD, $2000, 2004.

Publications/Creative Work:

Peer-reviewed

1. Limbrick, D.D.; Shannon, C.; Bayman, E.O.; Kallem, M.; Ackerman, L.L.; Adelson, P.D.; Ahmed, R.; Albert, G.; Aldana, P.R.; Alden T.D.; Anderson, R.C.; Baird, L.C.; Bauer, D.; Bethel-Anderson, T.; Bierbrauer, K.; Brockmeyer, D.L.; Chern, J.J.; Couture, D.E.; Daniels, D.J.; Dauser, R.C.; Dlouhy, B.J.; Durham, S.R.; Ellenbogen, R.G.; Eskandari, R.; Gannon, S.; Grant, G.A.; Graupman, P.C.; Greenberg, J.K.; Greene, S.; Greenfield, J.P.; Gross, N.L.; Guillaume, D.J.; Hankinson, T.C.; Hueur, G.; Iantosca, M.; Iskandar, B.J.; Jackson, E.M.; Jallo, G.I.; Johnston, J.M.; Keating, R.F.; Kelly, M.P.; Kennedy, E.; Krieger M.D.; Labuda, R.; Leonard, J.R.; Maher, C.O.; Mangano, F.T.; McComb, J.G.; McEvoy, S.D.; McKinstry, R.C.; Meehan, T.; Menezes, A.H.; Niazi, T.N.; Oakes, J.; Olivarria, J.; O'Neill, B.R.; Poppe, D.; Ragheb, J.; Reeves, S.; Reynolds, L.; Selden, N.R.; Shah, M.N.; Shimony, J.S.; Smyth, M.D.; Spears, S.; Stone, S.S.D.; Strahle, J.S.; Tamber, M.; Tramelli, G.; Tuite, G.F.; Tyler-Kabara, E.C.; Vance, H.; Wait, S.; Wellons, J.C.; Whitehead, W.E.; Yahanda, A.T.; Dacey Jr, R.G.; Park, T.S.; Torner, J.C. (2026) Posterior fossa decompression with or without duraplasty for children with Chiari type I with syringomyelia. *New England Journal of Medicine*, May 27, 2026, DOI: 10.1056/NEJMoa2402821.
2. O'Neill, B.; Elsawaf, Y.; Godil, J.; Bowden, S.; McIntyre, M.; Liu, J.; Sayama, C.; Selden, N.R. (2025) Applying lean principles to pediatric neurosurgery: assessing residents' perception of complexity of common procedures and concomitant effect on operating room efficiency. *Journal of Neurosurgery: Pediatrics, June 5, 2026, DOI:* 10.3171/2026.1.PEDS25550.
3. Altshuler, M., Chen, D., Healy, M., Petrusa, E., Phitayakorn, R., Selden, N. (2025) Evaluating Neurosurgery Resident Competency: A Comparative Study of Milestones 1.0 and 2.0 Across Ten Years, *Neurosurgery*, doi.org/10.1227/neu.0000000000003638.
4. Daly, GE, McIntyre, MM, Wong, TE, Gries, H, Stricker, PA, Selden, NR, Wolfswinkel, EM, Consortium (2024) Predictors of Transfusion Outcomes for Patients Undergoing Surgical Correction of Craniosynostosis: A Multicenter Retrospective Analysis, *The Cleft Palate Craniofacial Journal, September 2025,* 10.1177/10556656251379006.
5. Fettig, A., Stefanik, F., Gwendolyn, D., Ferry, A., Balumuka, D., Rdesinski, R., Howell, L., Selden, N., and Wolfswinkle, E. (2024) Evaluating relapse following fronto-orbital advancement for metopic and unilateral coronal synostosis: The lateral brow projection angle. *FACE: The Journal of the American Society of Maxillofacial Surgeons*, 10.1177/27325016251354929.
6. DeVane, K.; Lin, A.; Nouboussi, N.; Petterson, D.; Sheridan, D.; Andrews, W.; Selden, N.; Jaffri, M.; and Burns, B. (2025) Increasing use of rapid magnetic resonance imaging for children with blunt head injury. *Journal of Pediatrics,* 10.1016/j.jpeds.2024.114099.
7. Agarwal, P., Zaki, M.M., Kumar, R.P., Eckmann, M.A., Adogwa, O., Zalatimo, O., Schirmer, C., Zipfel, G.J., Selden, N., Ratliff, J., Lonser, R., Orrico, K., Chiocca, E.A. (2025) Neurosurgical faculty and resident perspectives on collective bargaining efforts by resident physicians in the United States, *Journal of Neurosurgery,* 10.3171/2025.3.JNS243068.

8. Ferry, AM, Marx-Albuquerque, L., Burch, S., Meza-Rochin, A., Balumuka, D., Howell, L.K., Selden, N.R., and Wolfswinkle, E.M. (2025) Managing late onset ERF-related craniosynostosis with cranial vault distraction osteogenesis. *FACE*, January 2025, doi.org/10.1177/27325016241313390.

9. Shahin, M., Fecker, A.L., Gale, M., Ahluwalia, I., Selden, N.R., Wood, M.D., Halfpenny, A., Nesbit, G., Miller, M., Skalet, A.H., and Collins, K.L. (2024) Concurrent unilateral retinoblastoma and giant suprasellar pilomyxoid astrocytoma, *Pediatric Blood & Cancer, February, 2025,* DOI: 10.1002/pbc.31455.

10. Stippler, M., Quinsey, C., Zipfel, G., Limbrick, D., Byrne, R., and Selden, N. (2024) Active teaching techniques using virtual didactics: Novel experience from a national neurosurgery resident course. *Journal of Surgical Education, February, 2024,* DOI: 10.1016/j.jsurg.2023.11.006.

11. Unger, R., Schreiner, B., Pang, B.W., Obayashi, O., McCartney, S., Dingman, J., Selden, N.R., Dogan, A., and Ciporen, J. (2024) Innovative growth and development of a neurological surgery residency cadaveric spine-simulation training program: A single institution experience. *Journal of Neurosurgery: Spine*, January 12, 2024, DOI: 10.3171/2023.10.SPINE23273.

12. Yahanda, A.T., Koueik, J., Ackerman, L.L., Adelson, P.D., Albert, G.W., Aldana, P.R., Alden, T.D., Anderson, R.C.E., Bauer, D.F., Bethel-Anderson, T., Bierbrauer, K., Brockmeyer, D.L., Chern, J.J., Couture, D.E., Daniels, D.J., Dlouhy, B.J., Durham, S.R., Ellenbogen, R.G., Eskandari, R., Fuchs, H.E., Grant, G.A., Graupman, P.D., Greene, S., Greenfield, J.P., Gross, N.L., Guillaume, D.J., Hankinson, T.C., Heuer, G.G., Iantosca, M., Iskandar, B.J., Jackson, E.M., Jallo, G.I., Johnston, J.M., Kaufman, B.A., Keating, R.F., Khan, N.R., Krieger M.D., Leonard, J.R., Maher, C.O., Mangano, F.T., Martin, J., McComb, J.G., McEvoy, S.D., Meehan, T., Menezes, A.H., Muhlbauer, M.S., O'Neill, B.R., Olavarria, G., Ragheb, J., Selden, N.R., Shah, M.N., Shannon, C.N., Shimony, J.S., Smyth, M.D., Stone, S.S.D., Strahle, J., Tamber, M., Torner, J.C., Tuite, G.F., Tyler-Kabara, E.C., Wait, S.D., Wellons, J.C., Whitehead, W.E., Park, T.S., Limbrick, D.D., Ahmed, R. (2024) The role of occipital condyle and atlas anomalies on occipital-cervical fusion outcomes in Chiari-1 malformation with syringomyelia: A study from the Park-Reeves Syringomyelia Research Consortium. *Journal of Neurosurgery: Pediatrics,* April 2024, 10.3171/2024.1.PEDS23229.

13. Limbrick, D.D., Shannon, C.N., Bayman, E.O., Kallem, M., Ackerman, L.L., Adelson, P.D., Ahmed, R., Albert, G., Aldana, P.R., Alden, T.D., Anderson, C.E., Baird, L.C., Bauer, D., Bethel-Anderson, R.C.E., Bierbrauer, K., Brockmeyer, D.L., Chern, J.J., Couture, D.E., Daniels, D.D., Dauser, R.C., Dlouhy, B.J., Durham, S.R., Ellenbogen, R.G., Eskandari, R., Gannon, S. Grant, G.A., Graupman, P.C., Greenberg, J.K., Greene, S., Greenfield, J.P., Gross, N.L., Guillaume, D.J., Hankinson, T.C., Hueur, G., Iantosca, M., Iskandar, B.J., Jackson, E.M., Jallo, G.I., Johnston, J.M., Keating, R.F., Kelly, M.P., Kennedy, E., Krieger, M.D., Labuda, R., Leonard, J.R., Maher, C.O., Mangano, F.T., McComb, G., McEvoy, S.D., McKinstry, R.C., Meehan, T., Menezes, A.H., Niazi, T.N., Oakes, J., Olivarria, G., O'Neill, B.R., Poppe, D., Ragheb, J., Reeves, S., Reynolds, L., Selden, N.R., Shah, M.N., Shimony, J.S., Smyth, M.D., Spears, S., Stone, S.S.D., Strahle, J.M., Tamber, M., Tramelli, G., Tuite, G.F., Tyler-Kabera, E.C., Vance, H., Wait, S.D., Wellons, J.C., Whitehead, W.E., Yahanda, A.T., Dacey, R.G., Park, T.S., Torner, J.C. (2024) Comparing surgery with and without duraplasty for youth with Chiari malformation type 1 and syringomyelia, Patient-Centered Outcomes Research Institute (PCORI), DOI: 10.25302/03.2024.CER.150329700.

14. Garavatti, E.; Yamamoto, E.; Collins, K.; Selden, N.; Bushlin, I. (2023) Surgical resection of focal cortical dysplasia in a neonate with novel TSC1 mutation leading to resolution of refractory seizures: case report. *Child Neurology Open*, December, doi.org/10.1177/2329048X231219223.

15. Bowden, S., Tan, H., Siler, D., O'Neill, B., Shahin, M., Fecker, A., Fleming-Sheffels, S., Han, S., Selden, N.R., Winer, J. and Orina, J. (2023) On-call workload differences in neurosurgery: Resident call "weather" and a departure from colored cloud labels. *Neurosurgery* doi: 10.1227/neu.0000000000002740.

16. Kaur, S., Selden, N.R.*, Aballay, A.* (2023) Anti-inflammatory effects of vagus nerve stimulation in patients with epilepsy. *Frontiers in Immunology,* 10.3389/fimmu.2023.1093574 (*equal contribution).

17. Bowden, S.G., Tan, H., Rothbaum, M., Cook, S., Hanft, S., Heth, J., Morgenstern, P.F., Mullin, J.B., Orina, J.N., Wilson, J.L., Winer, J.L., Wolfe, S.Q., Chambless, L.B., and Selden, N.R. (2023) Milestones for neurosurgery sub-interns: A pilot study of a novel evaluation tool that quantitatively differentiates residency applicants. *Journal of Neurosurgery*, May 5th, DOI: 10.3171/2023.3.JNS23259.

18. Pilitsis, J., Harland, T., Selden, N.R., and Benzil, D. (2023) An assessment of the long-term impacts of the COVID-19 pandemic on academic neurosurgery. *Journal of Neurosurgery, May 5th*, https://doi.org/10.3171/2023.4.JNS23368.

19. Johnson, G.W., Greenberg, J.K., Hale, A.T., Ranbir, A., Hill, M., Belal, A., Baygani, S., Foraker R.E., Carpenter C.R., Yan, Y., Ackerman, A.L., Noje, C., Jackson E., Burns, E., Sayama, C.M., Selden, N.R., Vachhrajani, S., Shannon, C.N., Kuppermann, N., Limbrick, D.D. (2022) Towards Rational Use of Repeat Imaging in Children with Mild Traumatic Brain Injury and Intracranial Injury on Initial Imaging, *Journal of Neurosurgery: Pediatrics DOI:* 10.3171/2023.2.PEDS22393.

20. Pang, B.W., Obayashi, O., Schreiner, B., Unger, R., McCartney, S., Dingman, J., Selden, N.R., Cetas, J., Dogan, A., and Ciporen, J. (2021) Innovative growth and development of a neurological surgery residency cadaveric skull base simulation training program: A single institution experience. *Clinical Neurology and Neurosurgery, DOI: 10.1016/j.clineuro.2023.107585*.

21. Ross, M., Larson, E., Shahin, M., Yaghi, N., Mazur-Hart, D., Mitchell, E., Mulcahey, L., Collins, K., Selden, N., and Raslan, A. (2021) A novel method of intra-operative registration verification prevents trajectory errors in robot-assisted stereotactic electroencephalography electrode placement. *World Neurosurgery* 10.1016/j.wneu.2022.12.075.

22. Siler, D, Cleary, DR, Tonsfeldt, KJ, Wali, A, Khalessi, AA, and Selden, NR (2023) Physiological responses and training satisfaction during national rollout of a neurosurgical intraoperative catastrophe simulator for resident training. *Operative Neurosurgery, 24:80-87.*

23. Bowden, S.G., Siler, D.A., Shahin, M.N., Mazur-Hart, D.J., Munger, D.N., Ross, M.N., O'Neill, B.E., Nerison, C.A., Rothbaum, M., Han, S.J., Wright, J.M., Orina, J., Winer, J., Selden, N.R., Effects of 24-hour versus night-float call schedules on the volume of clinical and operative experiences in PGY-2 and -3 neurosurgical residents. *Journal of Neurosurgery: Neurosurgical Focus, August 1st, 2022,* 10.3171/2022.5.FOCUS22181.

24. Brown, E.C., Stedelin, B., Raslan, A.M., and Selden, N.R. (2021) Speech-related auditory salience detection in the posterior superior temporal region. *Pre-print at Biorxiv 4-14-21. NeuroImage, December 2021,* 10.1016/j.neuroimage.2021.118840.

25. Akbari, SHA, Yahanda, AT, Ackerman, LL, Adelson, PD, Ahmed, R, Albert, GW, Aldana, PR, Alden, TD, Anderson, RCE, Bauer, DF, Bethel-Anderson, T, Bierbrauer, K, Brockmeyer, DL, Chern, JJ, Couture, DE, Daniels, DJ, Dlouhy, BJ, Durham, SR, Ellenbogen, RJ, Eskandari, R, Fuchs, HE, Grant, GA, Graupman, PC, Greene, S, Greenfield, JP, Gross, NL, Guillaume, DJ, Hankinson, TC, Heuer, GG, Iantosca, M, Iskandar, BJ, Jackson, EM, Jallo, GI, Johnston, JM, Kaufman, BA, Keating, RF, Khan, NR, Krieger, MD, Leonard, JR, Maher, CO, Mangano, FT, McComb, JG, McEvoy, SD, Meehan, T, Menezes, AH, Muhlbauer, MS, O'Neill, BR, Olavarria, G, Ragheb, J, Selden, NR, Shah, MN, Shannon, CN, Shimony, JS, Smyth, MD, Stone, SSD, Strahle, J, Tamber, M, Torner, JC, Tuite, GF, Tyler-Kabara, EC, Wait, SD, Wellons, JC, Whitehead, WE, Park, TS, Limbrick, DD. (2021) Complications and outcomes of posterior fossa decompression with duraplasty versus without duraplasty for pediatric patients with Chiari I malformation and syringomyelia: a study from the Park-Reeves Syringomyelia Research Consortium, *April 15, 2022, Journal of Neurosurgery:Pediatrics*, DOI: 10.3171/2022.2.PEDS21446.

26. Mukherjee, R., Romano, R., Michael, M., Huang, J., Snyder, M.H., Reddy, V.P., Guzman, K., Lane, P., Johnson, J., Selden, N., and Wolfe, S.Q. (2022) Optimizing the residency application process: Insights from neurological surgery during the pandemic virtual application cycle. *Journal of Neurosurgery, January 21, 2022,* DOI: 10.3171/2021.11.JNS211851.

27. Greenberg, JK, Ahluwalia, R, Hill, M, Johnson, G, Hale, AT, Belal, A, Baygani, S, Olsen, MA, Foraker, RE, Carpenter, CR, Yan, Y, Ackerman, L, Noje, C, Jackson, E, Burns, E, Sayama, C, Selden, NR, Vachhrajani, S, Shannon, C, Kuppermann, N, Limbrick, DD (2021) Measures of injury size do not improve clinical decision-making for children with mild traumatic brain injuries and intracranial injuries. *March 16, 2022*, *Neurosurgery*, doi: 10.1227/NEU.0000000000001895.

28. Hubbard, M.E., Yaghi, N.K., Selden, N.R. (2022) Technical challenges to anterior temporal lobectomy after laser interstitial thermal therapy: technical note. *Journal of Neurosurgery: Pediatrics, April 1, 2022*. doi.org/10.3171/2022.2.PEDS21564.

29. Mulligan, KM, Pan, X, Gerges, C, Rabah, BS, Selden, NR, Wolfe, SQ, Wright, CH, Wright, JM (2021) The 2021 neurosurgery match: An analysis of the impact of virtual interviewing and other COVID-19 related changes, *World Neurosurgery*. doi.org/10.1016/j.wneu.2021.11.109.

30. Akbari, S.H.A., Limbrick, D., Selden, et. al. (2021) Socioeconomic and demographic factors in the diagnosis and treatment of Chiari I malformation and syringomyelia. *Journal of Neurosurgery: Pediatrics*, *December 3rd, 2021,* DOI: 10.3171/2021.9.PEDS2185.

31. Snyder, M.H., Reddy, V.P., Iyer, A.M., Ganju, A., Selden, N.R., Johnson, J., Wolfe, S.Q. (2021) Applying to residency: Survey of neurosurgical residency applicants on virtual recruitment during COVID-19, *Journal of Neurosurgery, November 26, 2021,* DOI: 10.3171/2021.8.JNS211600.

32. Selden, NR, Barbaro, NM, Barrow, DL, Batjer, H, Branch, CL, Burchiel, KJ, Byrne, RW, Dacey, RG, Day, AL, Dempsey, RJ, Derstine, P, Friedman, AH, Giannotta, SL, Grady, MS, Harsh, GR, Harbaugh, RE, Mapstone, TB, Muraszko, KM, Origitano, TC, Orrico, K, Popp, AJ, Sagher, O, Selman, WR, and Zipfel, GJ (2021) Neurosurgery residency and fellowship education in the United States: two decades of system development by the One Neurosurgery Summit organizations. *Journal of Neurosurgery, August 2021*. DOI: 10.3171/2020.10.JNS203125.

33. Selden, NR, Barrow, DL, Byrne, KJ, Grady, MS, Muraszko, KM, and Selman, WR (2021) Editorial Response. *Journal of Neurosurgery, August 2021*. DOI: 10.3171/2020.10.JNS203125.

34. Yaghi, NK, Mazur-Hart, D, Bodor, R, Rai, K, Amjadi, D, Pollock, JM, Selden, NR, and Ross, DR (2020) Tethered spinal cord due to thoracic spinal cord lipoma: Minimally invasive surgical management and literature review. *Minimally Invasive Spine Surgery and Technique*, 10.21182/jmisst.2020.00248.

35. Kessler, B.A., Goh, J.L., Pajer, H., Asher, A., Northam, W., Hung, S.C., Selden, N.R., and Quinsey, C.S. (2020) Rapid Sequence Magnetic Resonance Imaging Protocols for Evaluation of Pediatric Head Trauma: A Systematic Review. *Journal of Neurosurgery: Pediatrics*, 25:1-9, doi: 10.3171/2021.2.PEDS20852.

36. Greenberg, JK, Ahluwalia, R, Hill, M, Johnson, G, Hale, AT, Belal, A, Baygani, S, Olsen, MA, Foraker, RE, Carpenter, CR, Yan, Y, Lipsey, K, Ackerman, L, Noje, C, Jackson, E, Burns, E, Sayama, C, Selden, NR, Vachhrajani, S, Shannon, C, Kuppermann, N, Limbrick, DD (2021) Development and external validation of the KIIDS-TBI tool for managing children with minor traumatic brain injury and intracranial injuries. *Academic Emergency Medicine, June 2021*. DOI: 10.1111/acem.14333.

37. Sadler, B, Skidmore, A, Gewirtz, J, Anderson, RCE, Haller, G, Ackerman, LL, Adelson, D, Ahmed, DR, Albert, GW, Aldana, PR, Alden, TD, Baird, L, Bauer, DF, Bethel-Anderson, T, Bierbrauer, KS, Bonfield, CM, Brockmeyer, DL, Chern, JJ, Couture, DE, Daniels, DJ, Dauser, RD, Dlouhy, BJ, Durham, SR, Ellenbogen, RG, Eskandari, R, Fuchs, HE, George, TE, Grant, GA, Graupman, PC, Greene, S, Greenfield, JP, Gross, NL, Guillaume, DJ, Hankinson, TC, Heuer, GG, Iantosca, M, Iskandar, BJ, Jackson, EM, Jea, AH, Johnston, JJ, Keating, RF, Khan, N, Krieger, MD, Leonard, JR, Maher, CO, Mangano, FT, Mapstone, TB, McComb, JG, McEvoy, SD, Meehan, T, Menezes, AH, Muhlbauer, M, Oakes, WJ, Olavarria, G, O'Neill, BR, Ragheb, J, Selden, NR, Shah, MN, Shannon, C, Smith, J, Smyth, MD, Stone, SSD, Tuite, GF, Wait, SD, Wellons, JC, Whitehead, WE, Park, TS, Limbrick, DD Jr., and Strahle, J, for the Park-Reeves Syringomyelia Research Consortium (2020) Extradural decompression vs. duraplasty in Chiari I malformation with syrinx: Outcomes on scoliosis from the Park-Reeves syringomyelia research consortium. *Journal of Neurosurgery: Pediatrics,* DOI: 10.3171/2020.12.PEDS20552.

38. Gerges, C, Wijesekera, O, Wright, J et al. (2021) Evaluation of risk of gastrostomy and ventriculoperitoneal shunt placement in pediatric patients: A systematic review of the literature. *Online ahead of print, World Neurosurgery* doi: 10.1016/j.wneu.2021.05.044

39. Yahanda, A.T., Limbrick, D. et al. (2020) Dural augmentation techniques and complication rates after posterior fossa decompression for Chiari-1 malformation and syringomyelia: A Park-Reeves Syringomyelia Consortium study. *Journal of Neurosurgery: Pediatrics*, *Published online February 12, 2021,* 10.3171/2020.8.PEDS2087.

40. CreveCoeur TS, Yahanda AT, Maher CO, Johnson G, Ackerman LL, Adelson D, Ahmed R, Albert GW, Aldana PR, Alden TD, Anderson RCE, Baird L, Bauer DF, Bierbrauer KF, Brockmeyer DL, Chern JJ, Couture DE, Daniels DJ, Dauser RC, Durham SR, Ellenbogen RG, Eskandari R, Fuchs HE, George TM, Grant GA, Graupman PC, Greene S,. Greenfield JP, Gross NL, Guillaume DJ, Haller G, Hankinson TC, Heuer GG, Iantosca M, Iskandar BJ, Jackson EM, Jea AH,

Johnston JM, Keating RF, Kelly MP, Khan M, Krieger MD, Leonard JR, Mangano FT, Mapstone TB, McComb JG, Menezes AH, Muhlbauer M, Oakes WJ, Olavarria G, O'Neill BR, Park TS, Ragheb J, Selden NR, Shah MN, Shannon C, Shimony JS, Smith J, Smyth MD, Stone SSD, Strahle JM, Tamber MS, Torner JC, Tuite JF, Wait SD, Wellons JC, Whitehead WE, and Limbrick DD (2020) Occipital-cervical fusion and ventral decompression in the surgical management of Chiari 1 malformation and syringomyelia: Analysis of data from the Park-Reeves Syringomyelia research consortium. *Neurosurgery*, 2021;88(2):332-41. doi:10.1093/neuros/nyaa460.

41. Wang MC, Boop F, Schneider JG, Resnick DK, Kondziolka D, Kalkanis SN, Heilman CB, Valadka, A, Orrico KO, Cockcroft K, Knightly JJ, Levy EI, Wilson JA, Camarata PJ, Lonser R, Selden NR, Byrne R, Huang J, Ellenbogen R, Connolly ES, Meyer F, and Liau LM (2020) Continuous Improvement in Patient Safety and Quality in Neurological Surgery: The American Board of Neurological Surgery, Past, Present and Future. *Journal of Neurological Surgery, Oct. 16th, pp 1-7.*

42. Sheridan, D., Petterson, D., Newgard, C., Selden, N.R., Jafri, M., Lin, A., Rowell, S., and Hansen, M. (2020) Can QuickBrain MRI replace CT as first-line imaging for select pediatric head trauma? *JACEP Open*, June 2020, pp. 1-9, doi.org/10.1002/emp2.12113.

43. Andrew T. Hale, MS, P. David Adelson, MD, Gregory W. Albert, MD, PhD, Phillip R. Aldana, MD, Tord D. Alden, MD, Richard C.E. Anderson, MD, David F. Bauer, MD, Christopher M. Bonfield, MD, Douglas L. Brockmeyer, MD, Joshua J. Chern, MD, PhD, Daniel E. Couture, MD, David J. Daniels, MD, PhD, Susan R. Durham, MD, MS, Richard G. Ellenbogen, MD, Ramin Eskandari, MD, Timothy M. George, MD, Gerald A. Grant, MD, Patrick C. Graupman, MD, Stephanie Greene, MD, Jeffrey P. Greenfield, MD, PhD, Naina L. Gross, MD, Daniel J. Guillaume, MD, MS, Gregory G. Heuer, MD, PhD, Mark Iantosca, MD, Bermans J. Iskandar, MD, Eric M. Jackson, MD, James M. Johnston, MD, Robert F. Keating, MD, Jeffrey R. Leonard, MD, Cormac O. Maher, MD, Francesco T. Mangano, DO, J. Gordon McComb, MD, Thanda Meehan, RN, Arnold H. Menezes, MD, Brent O'Neill, MD, Greg Olavarria, MD, Tae Sung Park, MD, John Ragheb, MD, Nathan R. Selden, MD, PhD, Manish N. Shah, MD, Matthew D. Smyth, MD, Scellig S.D. Stone, MD, PhD, Jennifer M. Strahle, MD, Scott D. Wait, MD, John C. Wellons, MD, MSPH, William E. Whitehead, MD, MSc, Chevis N. Shannon, DrPH, MBA, MPH, and David D. Limbrick Jr., MD, PhD for the Park-Reeves Syringomyelia Research Consortium Investigators (2020) Factors associated with syrinx size in pediatric patients treated for Chiari type I malformation and syringomyelia: a study from the Park-Reeves Syringomyelia Research Consortium. *Journal of Neurosurgery: Pediatrics*, epub ahead of print, March 6, 2020, pp 1-6. doi: 10.3171/2020.1.PEDS19493.

44. Saladik, M., Selden, N., and Sheridan, D. (2021) QuickBrain MRI in a tertiary pediatric Emergency Department: A retrospective study on use patterns and accuracy. Pediatric Emergency Care, January 14, 2020. http://pediatric-emergency-care.imedpub.com.

45. Joyce Koueik, Carolina Sandoval-Garcia, John R Kestle, Brandon G Rocque, David M Frim, Gerald F Grant, Robert F Keating, Carrie R Muh, W Jerry Oakes, Ian F Pollack, Nathan R Selden, R Shane Tubbs, Gerald F Tuite, Benjamin Warf, Victoria Rajamanickam, Victor Haughton, Susan Rebsamen, Timothy M George, and Bermans J Iskandar (2019) Outcomes in Patients Undergoing Posterior Fossa Decompression and Duraplasty with and without Tonsillar Reduction for Chiari Type 1 Malformation and Syringomyelia: A Pilot Prospective Multi-Center

Cohort Study, *Journal of Neurosurgery: Pediatrics, e-publish ahead of print, October 18, 2019*, doi.org/10.3171/2019.8.PEDS19154.

46. Halfpenny, A., Ferris, S., Grafe, M., Woltjer, R., Selden, N., Nazemi, K., Perry, A., Solomon, D., Moore, S., Lawce, H., Lucas, L., Corless, C., and Wood, M. (2019) An unusual case of recurrent epilepsy associated rosette-forming glioneuronal tumor with anaplastic transformation in the absence of therapy, *Neuropathology*, DOI: 10.1111/neup.12586, 39:389-393.

47. Jennifer M Strahle, MD, Rukayat Taiwo BA, Christine Averill, James Torner MS, PhD, Chevis N. Shannon MBA MPH PhD,[5] Christopher M. Bonfield C[5], Gerald F. Tuite MD, Douglas L. Brockmeyer MD, Jay C. Wellons 3rd MD, Jeffrey R. Leonard MD, Francesco T. Mangano DO, James M. Johnston MD, Manish N. Shah MD, Bermans J. Iskandar MD, Elizabeth C. Tyler-Kabara MD, PhD, David J. Daniels MD, PhD, Eric M. Jackson MD, Gerald A. Grant MD, Daniel E. Couture MD, P. David Adelson MD, Tord D. Alden MD, Philipp R. Aldana MD, Richard C.E. Anderson MD, Nathan R. Selden MD PhD, Lissa C. Baird MD, Karin Bierbrauer MD, Joshua J. Chern MD PhD, William E. Whitehead MD, Robert C. Dauser MD, Richard G. Ellenbogen MD, Herbert E. Fuchs MD PhD, Daniel J. Guillaume MD, Todd C. Hankinson MD MBA, Mark Iantosca MD, Jerry Oakes MD, Robert F. Keating MD, Nickalus R. Khan MD, Michael S. Muhlbauer MD, J. Gordon McComb MD, Arnold H. Menezes MD, John Ragheb MD, Jodi L Smith MD PhD, Cormac O. Maher MD, Stephanie Greene MD, Prithvi Narayan MD, Michael Kelly, MD, Brent O'Neill, MD, Mark Krieger, MD, Mandeep Tamber MD PhD, Susan R. Durham MD, Greg Olavarria MD, Scellig S.D. Stone MD, PhD, Bruce A. Kaufman MD, Gregory Heuer MD PhD, David F. Bauer MD, Gregory Albert MD, MPH, Jeffery P. Greenfield MD, PhD, Scott D. Wait MD, Mark D. Van Poppel MD, Ramin Eskandari MD, Timothy Mapstone MD, Joshua S. Shimony MD PhD, Matthew D. Smyth, Ralph G. Dacey Jr MD, Tae Sung Park MD, David D. Limbrick Jr MD, PhD (2019) Radiologic and clinical predictors of the incidence and severity of scoliosis in patients with Chiari malformation type I and spinal cord syrinx from the Park-Reeves Syringomyelia Research Consortium. *Journal of Neurosurgery: Pediatrics, August 2019, 16:1-8,* doi: 10.3171/2019.5.PEDS18527

48. Selden, N.R. (2019) Right brain? Hemispheric dominance and the United States presidency. *Journal of Neurosurgery (Broca's Area), e-publish ahead of print 4-26-19, pp 1-4,* doi.org/10.3171/2019.3.JNS19510

49. Esmonde, N., Jedrzejewski, B., Fitzpatrick, B., Koh, J., Bardo, D., Urbinelli, L., Crupi, L., Oliverio, M., Selden, N., and Kuang, A. (2019) Feed and swaddle: An alternative to infant sedation for craniofacial imaging. *The Cleft Palate-Craniofacial Journal,* DOI: 10.1177/1055665619857651, June 2019, Vol 56(10):1373-1376.

50. Ross, M., Pang, P.S., Raslan, A.M., Selden, N.R., and Cetas, J.S. (2019) External retrospective validation of Brain Injury Guidelines criteria and modified guidelines for improved care value in the management of patients with low-risk neurotrauma. *Journal of Neurosurgery, Journal of Neurosurgery, e-pub ahead of print, November 8, 2019,* 10.3171/2019.6.JNS19584

51. AlBakry, A., Mousavi, S.H., Obayashi, J., Ozturk, G., Hamzaoglu, V., Magown, P., Selden, N.R., Burchiel, K.J., and Raslan, A.M. (2017) Natural history of neuromodulation devices and therapies: A single institution patient-centered survival analysis. *Journal of Neurological Surgery*, 2019 Apr 19:1-7. doi: 10.3171/2019.2.JNS182450.

52. Kochanek, P.M., Tasker, R.C., Carney, N., Totten, A.M., Adelson, D.A., Selden, N.R., Davis-O'Reilly, C., Hart, E.L., Bell, M.J., Bratton, S.L., Grant, G.A.,

Kissoon, N., Reuter-Rice, K.E., Vavilala, M.S., Wainwright, M.S. (2019) Guidelines for the management of pediatric severe traumatic brain injury, third edition: Update of the Brain Trauma Foundation Guidelines. *Pediatric Critical Care Medicine*, DOI: 10.1097/PCC.0000000000001735

53. Kochanek, P.M., Tasker, R.C., Carney, N., Totten, A.M., Adelson, D.A., Selden, N.R., Davis-O'Reilly, C., Hart, E.L., Bell, M.J., Bratton, S.L., Grant, G.A., Kissoon, N., Reuter-Rice, K.E., Vavilala, M.S., Wainwright, M.S. (2019) Guidelines for the management of pediatric severe traumatic brain injury, third edition: Update of the Brain Trauma Foundation Guidelines, Executive Summary. *Pediatric Critical Care Medicine*, DOI: 10.1097/PCC.0000000000001736
54. Kochanek, P.M., Tasker, R.C., Bell, M.J., Adelson, P.D., Carney, N., Vavilala, M.S., Selden, N.R., Bratton, S.L., Grant, G.A., Kissoon, N., Reuter-Rice, K.E., and Wainwright, M.S. (2019) Management of pediatric severe traumatic brain injury: 2019 consensus-based algorithm for first and second tier therapies. *Pediatric Critical Care Medicine*, DOI: 10.1097/PCC.0000000000001737
55. Kochanek, P.M., Tasker, R.C., Bell, M.J., Adelson, P.D., Carney, N., Vavilala, M.S., Selden, N.R., Bratton, S.L., Grant, G.A., Kissoon, N., Reuter-Rice, K.E., and Wainwright, M.S. Guidelines for the management of pediatric severe traumatic brain injury, third edition: Update of the Brain Trauma Foundation guidelines, executive summary. *Neurosurgery*. 2019, DOI: 10/1093/neuros/nyz051
56. Oh, K., Gibson, T., Pinter, J., Pettersson, D., Shaffer, B.L., Selden, N.R. and Sohaey, R. (2018) Clinical outcomes following prenatal diagnosis of asymmetric ventriculomegaly, interhemispheric cyst, and callosal dysgenesis (AVID). *Prenatal Diagnosis*, DOI: 10.1002/pd.5393.
57. Rocque, B.G., Auguste, K., Baird, L., Bragg, T., Frim, D., Grant, G., Greene, S., Gupta, N., Hankinson, T., Iskandar, B., Lew, S., Muh, C., Nikas, D., Selden, N., Thompson, E., Vassilyadi, M., Wetjen, N., Lam, S.K. (2018) Complications following pediatric cranioplasty after decompressive craniectomy: A multicenter retrospective study. *Journal of Neurosurgery: Pediatrics*, 22(3):225-232.
58. Quinsey, C., Krause, K., Baird, L., Sayama, C., Selden, N.R. (2017) The incidence of symptomatic tethered spinal cord in pediatric patients with neurofibromatosis type 1 and 2, *Journal of Neurosurgery: Pediatrics,* 10.3171/2017.12.PEDS17306.
59. Conforti, L.N., Yaghmour, N.A., Hamstra, S.J., Holmboe, E.S., Kennedy, B., Liu, J., Waldo, H., and Selden, N.R. (2018) The effect and use of milestones in the assessment of neurological surgery residents and residency programs, *Journal of Surgical Education*, January 2018, doi.org/10.1016/j.jsurg. 2017.06.001
60. Selden, N.R. (2017) Invited editorial on 'MR imaging in the prone position in the diagnosis of tethered cord', *Journal of Neurosurgery*, 2017, *DOI* 10.3171/2017.3.PEDS17126.
61. Cleary, D.R., Siler, D., Whitney, N., and Selden, N.R. (2017) A micro-controller-based simulation of dural venous sinus injury for neurosurgical training. *Journal of Neurosurgery, June 2017*. DOI: 10.3171/2016.12.JNS162165.
62. Pines, A.R., Alghoul, M.S., Hamade, Y.J., Sattur, Aoun, R.J.N., M., Halasa, T.K., Zammar, S.G., Aoun, R.J.N., Zammar, S.G., Tecle, N.E., Abmadieh, T.Y., Aoun, S.G., Byrne, R.W., Harrop, J.S., Ragel, B.T., Resnick, D.K., Lonser, R.R., Selden, N.R., and Bendok, B.R. (2017) Assessment of inter-rater reliability of a Congress

of Neurological Surgeons microanastamosis assessment scale. *Operative Neurosurgery, 13(1):108-112*.

63. Sheridan, D.C., Newgard, C., Selden, N.R., Knight, J., Prescott, J., Jafri, M., and Hansen, M.L. (2016) Clinical utility of QuickBrain MRI for Pediatric Traumatic Brain Injury, *Journal of Neurosurgery:Pediatrics*, DOI: 10.3171/2016.7.PEDS16204.

64. Tomei, K.L. (Selden, N.R.) (2016) Mentorship: Service, Education, Progress: An Interview with the Congress of Neurological Surgeons President Dr. Nathan R. Selden. Clinical Neurosurgery, 63(1):27-30.

65. Selden, N.R. (2016) Mentorship: Service, education, progress – The 2015 CNS presidential address. *Journal of Neurosurgery*, DOI: 10.3171/2016.2.JNS152606.

66. Martin, D.T, Gries, H., Esmonde, N., Diggs, B., Koh, J., Selden, N.R., Schreiber, M., and Kuang, A.K. (2016) Implementation of tranexamic acid protocol to reduce blood loss during cranial vault remodeling for craniosynostosis. *Journal of Craniofacial Surgery*, 27:1527-1531, 2016. 10.1097/SCS.0000000000002835

67. Svalina, M.N., Kikuchi, K., Abraham, J., Lal, S., Davare, M., Young, M.C., Peckham, J.L., Cho, Y.-J., Michalek, J.E., Hernandez, B.S., Jackson, M., Guillaume, D.J., Selden, N.R., Bigner, D.D., Nazemi, Green, S..C., Corless, C.L., Gultekin, S., Rubin, B.P., Woltjer, R., and Keller, C. (2016) IGF1R as a key target in high risk, metastatic medulloblastoma. *Scientific Reports (Nature publishing group)*. DOI: 10.1038/srep27012

68. Berquist, C., Selden, N.R., Nauta, A., and Kuang, A.A. (2016) Age at time of surgery and maintenance of head size in nonsyndromic sagittal synostosis. Plast. Reconstr. Surg. 137(5):1557-65. doi: 10.1097/PRS.0000000000002049

69. Pool, G.M., Didier, R., Bardo, D. Selden, N.R. and Kuang, A.K. (2016) Computed tomography-generated anthropometric measurements of orbital relationships in normal infants and children. DOI: 10.3171/2016.2.PEDS15475.

70. Bergquist, C.S., Nauta, A.C., Selden, N.R., and Kuang, A.K. (2016) Age at the time of surgery and maintenance of head size in nonsyndromic sagittal synostosis. *Plastic and Reconstructive Surgery*, DOI: 10.1097/PRS.0000000000002049.

71. Zarella, C., Bergquist, C.S., Didier, R., Bardo, D., Selden, N.R., and Kuang, A.A. (2016) A reduction in radiation exposure during pediatric craniofacial computed tomography. *Journal of Craniofacial Surgery*, March 2016, DOI: 10.1097/SCS.0000000000002374.

72. Maire, J.J., Close, L.N., Heinricher, M.M. and Selden, N.R. (2015). Distinct pathway for opioid and norepinephrine-triggered antinociception from the Amygdala. *European Journal of Pain*, doi:10.1002/ejp.708.

73. Taylor, D.R., Venable, G.T., Jones, G.M., Lepard, J.R., Roberts, M.L., Saleh, N., Sidiqi, S.K., Moore, A., Khan, N., Michael, L.M., Selden, N.R., and Klimo, P. (2015) Five-year institutional bibliometric profiles for 103 U.S. neurosurgical residency programs. *Journal of Neurosurgery*, June 2015, DOI: 10.3171/2015.2.JNS142977

74. Hoh, B.L., Curran, J., Rokicki, J., Ullman, J.S., Bendok, B.R., Rao, G., Selden, N.R., Resnick, D.K., and Ghogawala, Z. (2015) The comparative effectiveness of specific professional educational tools for correcting knowledge gaps among practicing neurosurgeons. *Clinical Neurosurgery*, Vol 62(1):133-136.

75. Ghobrial, G.M., Balsara, K., Maulucci, C.M., Berg, D., Hodge, H., Resnick, D.K.,

Bendok, B.B., Selden, N.R., Sharan, A.D., and Harrop, J.S. (2015) Simulation training curricula for neurosurgical residents: Cervical foraminotomy and durotomy repair modules. *World Neurosurgery*, Sep;84(3):751-5.e1-7. http://dx.doi.org/10.1016/j.wneu.2015.04.056

76. Kuang, A., and Selden, N.R. (2015) Secondary cranial vault remodeling for restenosis after primary sagittal synostosis repair, Case report. *Pediatric Neurosurgery*, March 2015, DOI: 10.1159/000380768

77. Selden, NR (2015) Professionalism includes personal accountability and independence (ethical point-counterpoint on duty hours exceptions). *American Medical Association Journal of Ethics* (formerly *Virtual Mentor).* With Michael Haglund. January 2015, Volume 17, Number 1: 23-32. http://virtualmentor.ama-assn.org/2015/01/ecas3-1501.html

78. Strong, M.J., Thompson, E.M., Roundy, N., and Selden, N.R. (2015) Use of lumbar laminoplasty vs. laminotomy for transection of the filum terminale does not affect complication rates or post-operative course. *Child's Nervous System*, DOI 10.1007/s00381-015-2615-8

79. Yue, E.L., Meckler, G.D., Fleischman, R., Selden, N.R., Bardo, D.M.E., Chu, A.K., Vu, E.T., Rongwei, F., and Spiro, D.M. (2015) Test characteristics of Quick-brain MRI for shunt evaluation in children: A new modality to avoid unnecessary radiation. *Journal of Neurosurgery: Pediatrics*. *Accompanied by podcast*, DOI: 10.3171/2014.9.PEDS14207.

80. Zammar SG, Hamade YJ, Aoun RN, El Tecle NE, El Ahmadieh TY, Adelson PD, Kurpad SN, Harrop JS, Hodge H, Mishra RC, Rajshekar V, Rezai AR, Sankhla S, Sattur MG, Selden NR, Sharan A, Resnick DK, Bendok BR. (2015) The Cognitive and Technical Skills Impact of the Congress of Neurological Surgeons Simulation Curriculum on Neurosurgical Trainees at the 2013 Neurological Society of India Meeting. *World Neurosurgery*. 12/2014; DOI: 10.1016/j.wneu.2014.12.006.

81. Parker, S.L., McGirt, M.J., Asher, A.L., and Selden, N.R. (2015) Quality improvement in neurological surgery graduate medical education. *Neurosurgery Clinics of North America, April 2015.* http://dx.doi.org/10.1016/j.nec.2014.11.012

82. Asher, A.L., Parker, S.L., Rolston, J., Selden, N.R., and McGirt, M.J. (2014) Using clinical registries to improve the quality of neurosurgical care. *Neurosurgery Clinics of North America, April 2015.* http://dx.doi.org/10.1016/j.nec.2014.11.010

83. Asher, A.L., Speroff, T., Dittus, R.S., Parker, S.L., Davies, J., Selden, N.R., Nian, H., Glassman, S., Mummaneni, P., Shaffrey, C. Watridge, C., Cheng, J., and McGirt, M.J. (2014) The national neurosurgery quality and outcomes database (N2QOD): A collaborative north American outcomes registry to advance value-based spine care. *Spine* 10.1097/BRS.0000000000000579.

84. Klimo, P., Venable, G.T., Khan, N.R., Taylor, D.R., Shepherd, B.A., Thompson, C.J., and Selden, N.R., (2014) Bibliometric evaluation of pediatric neurosurgery in North America. *Journal of Neurosurgery:Pediatrics,* October DOI:10.3171/2014.8.PEDS1488.

85. Thompson, E.M., Wagner, K., Kronfeld, K., and Selden, N.R. (2014) Using a two variable method in radionucleide shuntography to predict shunt patency.

Journal of Neurosurgery, Sept 26:1-4 (epub ahead of print), accompanied by podcast.

86. Fontes, R.B.V., Selden, N.R., and Byrne, R.W. (2014) Fostering and assessing professionalism and communications skills in neurosurgical education. *Journal of Surgical Education*, October (epub ahead of print), doi: 10.1016/j.jsurg.2014.06.016

87. Thompson, E.M., Baird, L.C., and Selden, N.R. (2014) Results of a North American survey of quick brain MRI utilization to evaluate cerebral ventricles in children. *Journal of Neurosurgery:Pediatrics*, June, DOI: 10.3171/2014.2PEDS13567

88. Thompson, E.M., Strong, M.J., Warren, G., Woltjer, R.L. and Selden, N.R. (2014) The clinical significance of filum terminale MRI and histological characteristics in tethered cord syndrome, *Journal of Neurosurgery:Pediatrics, 13:255-259* (accompanied by podcast).

89. Curry, M., Whitney, N., Roundy, N., and Selden, N.R. (2014) Acute subdural hematoma in a child with previous bilateral encephaloduroarteriosynangioses. *Child's Nervous System*, 30(4):699-702, DOI 10.1007/s00381-013-2285-3

90. Ragel, B.T., Piedra, M.D., Klimo, P., Burchiel, K.J., Waldo, H., McCartney, S. and Selden, N.R. (2014) An ACGME duty hour compliant three-person night float system for neurosurgical residency programs, *Journal of Graduate Medical Education*, June 2014, DOI: http://dx.doi.org/10.4300/JGME-D-13-00172.1

91. Selden, N.R., Origitano, T.C., Hadjipanayis, C., and Byrne, R. (2013) Model based simulation for early neurosurgical learners, *Neurosurgery* (with accompanying podcast), October 2013, 73:S15-24.

92. Litvack, Z.N., Lindsay, R., and Selden, N.R. (2013). Dural splitting craniocervical decompression for Chiari I malformation in pediatric patients: Clinical outcomes, healthcare costs and resource utilization. *Neurosurgery,* doi: 10.1227/NEU.0b013e31828ca1ed.

93. Kuang, A.A., Bergquist, C., Crupi, L., Oliverio, M., and Selden, N.R. (2013) Effectiveness and safety of independent pediatric nurse practitioners in evaluating plagiocephaly. Plastic and Reconstructive Surgery, *Plastic and Reconstructive Surgery, August, 132:414-18, PRS-D-13-00072*.

94. Kuang, A.A., Jenq, T., Didier, R., Moneta, L., Bardo, D., and Selden, N.R. (2013). Benign radiographic coronal synostosis after sagittal synostosis repair. *Journal of Craniofacial Surgery*, 24(3): 981-984.

95. Cetas, J., Nasseri, M., Saedi, T., Kuang, A.K., McCartney, S. and Selden, N.R. (2013) Delayed intracranial hypertension after cranial vault remodeling for single suture synostosis. *Journal of Neurosurgery: Pediatrics, April 2013,* DOI: 10.3171/2013.3.PEDS12525.

96. Selden, N.R., Anderson, V.C., McCartney, S., Origitano, T.C., Burchiel, K.J., and Barbaro, N.M. (2013) Society of Neurological Surgeons boot camp courses: Knowledge retention and relevance of hands on learning after 6 months of postgraduate year 1 training. *Journal of Neurosurgery*, April 2013, DOI: 10.3171/2013.3.JNS122114 (Accompanied by podcast, editorial, and editorial response).

97. Selden, N.R., Al-Uzri, A.A., Koch, T., Sikora, D.M., Nguyen-Driver, M.D., Guillaume, D.J., Koh, J.L, Gultekin, S.H., Anderson, J.C., Vogel, H., Sutcliffe,

T.L., Huhn, S.L., and Steiner, R.D. (2013) Transplantation of Human Central Nervous System Stem Cells for Infantile and Late Infantile Neuronal Ceroid Lipofuscinosis. *Journal of Neurosurgery*, DOI: 10.3171/2013.3.PEDS12397 (Accompanied by podcast).

98. Selden, N.R., Abosch, A., Byrne, R., Harbaugh, R., Krauss, W., Mapstone, T., Sagher, O., Zipfel, G., Derstine, P., and Edgar, L. (2013) Neurosurgery Milestones, *Journal of Graduate Medical Education, March, 2013, supplement, 24-35. DOI:* http://dx.doi.org/10.4300/JGME-05-01s1-04

99. Swing, S.R., Beeson, M.S., Carraccio, C., Coburn, M., Iobst, W., Selden, N.R., Stern, P., and Vydareny, K. (2013) Educational milestone development in 7 specialties entering the Next Accreditation System. *Journal of Graduate Medical Education, March 2013, 98-106*. DOI: http://dx.doi.org/10.4300/JGME-05-01-33.

100. Selden, N.R., Ghogawala, Z., Harbaugh, R.E., Litvack, Z.N., McGirt, M.J. and Asher, A.L. (2013) The future of practice science: Challenges and opportunities for neurosurgery. *Journal of Neurosurgery: Focus, 34(1):E8*.

101. McGirt, M.J., Speroff, T., Godil, S.S., Cheng, J., Selden, N.R., and Asher, A.L. (2013) Outcomes science in practice: An overview and initial experience at the Vanderbilt spine center. *Journal of Neurosurgery: Focus,34(1):E7*.

102. Asher, A.L., McCormick, P., Selden, N.R., Ghogowala, Z., and McGirt, M.J. (2013) The National Neurosurgery Quality and Outcomes Database and NeuroPoint Alliance: Rationale, development, and implementation. *Journal of Neurosurgery: Focus, 34(1):E2*.

103. Thompson, E.M., Wozniak, S.E., Roberts, C.M., Kao, A., Anderson, V.C., and Selden, N.R.* (2012) Vagal nerve stimulation for partial and generalized epilepsy from infancy to adolescence. *Journal of Neurosurgery:Pediatrics*, 10:200-205. 10.3171/2012.5.PEDS11489.

104. Piedra, M., Thompson, E., Selden, N.R., Ragel, B., and Guillaume, D (2012) Optimal timing of autologous cranioplasty after decompressive craniectomy in children. *Journal of Neurosurgery:Pediatrics*, 10:268-272, 10.3171/2012.6.PEDS1268.

105. Whitney, N.L., and Selden, N.R. (2012) Pullout proofing external ventricular drains: Technical note. *Journal of Neurosurgery: Pediatrics,* 10:320-323, 10.3171/2012.7.PEDS1280.

106. Oh, K.H., Kennedy, A., Selden, N.R., Mclean, L. and Sohaey, R. (2011) Asymmetric ventriculomegaly, interhemispheric cyst, dysgenesis of the corpus callosum (AVID): An imaging triad. *Journal of Ultrasound in Medicine*, 31:1811-1820.

107. Selden, NR, Origitano, TC, Burchiel, KJ, Getch, CC, Anderson, VC, McCartney, S, Abdulrauf, SI, Barrow, DL, Ehni, BL, Grady, MS, Hadjipanayis, CG, Heilman, CB, Popp, AJ, Sawaya, R, Schuster, JM, Wu, JK, and Barbaro, NM (2012) A national fundamentals curriculum for incoming neurosurgery PGY1 residents: The 2010 Society of Neurological Surgeons Boot Camp courses. *Neurosurgery, 70(4):971-981*. DOI: 10.1097/PCC.0b013e31823f435c.

108. Roberts, C.M., Thompson, E., and Selden, N.R.* (2011) Transendoscopic recording of gelastic seizures from a hypothalamic hamartoma: Technical note. *Pediatric Neurosurgery*, 47(2)L147-51.

109. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S,

Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 1. Introduction. Pediatric Critical Care Medicine 13:S3-S6 10.1097/PCC.1090b1013e31823f31437e.

110. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 2. Methods. Pediatric Critical Care Medicine 13:S7-S10 10.1097/PCC.1090b1013e31823f31843df.

111. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 3. Indications for intracranial pressure monitoring. Pediatric Critical Care Medicine 13:S11-S17 10.1097/PCC.1090b1013e31823f31440c.

112. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 4. Threshold for treatment of intracranial hypertension. Pediatric Critical Care Medicine 13:S18-S23 10.1097/PCC.1090b1013e31823f34424.

113. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 5. Cerebral perfusion pressure thresholds. Pediatric Critical Care Medicine 13:S24-S29 10.1097/PCC.1090b1013e31823f34450.

114. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 6. Advanced neuromonitoring. Pediatric Critical Care Medicine 13:S30-S32 10.1097/PCC.1090b1013e31823f31659a.

115. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 7. Neuroimaging. Pediatric Critical Care Medicine 13:S33-S35 10.1097/PCC.1090b1013e31823f31865e31822.

116. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 8. Hyperosmolar therapy. Pediatric Critical Care Medicine 13:S36-S41 10.1097/PCC.1090b1013e31823f36621.

117. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 9. Temperature control. Pediatric Critical Care Medicine 13:S42-S45 10.1097/PCC.1090b1013e31823f31664b.

118. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 10. Cerebrospinal fluid drainage. Pediatric Critical Care Medicine 13:S46-S48 10.1097/PCC.1090b1013e31823f31665f.

119. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 11. Barbiturates. Pediatric Critical Care Medicine 13:S49-S52 10.1097/PCC.1090b1013e31823f36696.

120. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 12. Decompressive craniectomy for the treatment of intracranial hypertension. Pediatric Critical Care Medicine 13:S53-S57 10.1097/PCC.1090b1013e31823f31672e.

121. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 13. Hyperventilation. Pediatric Critical Care Medicine 13:S58-S60 10.1097/PCC.1090b1013e31823f36765.

122. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 14. Corticosteroids. Pediatric Critical Care Medicine 13:S61-S63 10.1097/PCC.1090b1013e31823f31867d31820.

123. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 15. Analgesics, sedatives, and neuromuscular blockade. Pediatric Critical Care Medicine 13:S64-S67 10.1097/PCC.1090b1013e31823f31867e31823.

124. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 16. Glucose and nutrition. Pediatric Critical Care Medicine 13:S68-S71 10.1097/PCC.1090b1013e31823f31867fc.

125. Kochanek PM, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR (2012) Chapter 17. Antiseizure prophylaxis. Pediatric Critical Care Medicine 13:S72-S82 10.1097/PCC.1090b1013e31823f31681d.

126. Wozniak, SE, Thompson, EM, and Selden, NR (2011) Vagal nerve stimulator infection: Lead salvage protocol. *Journal of Neurosurgery:Pediatrics, 7:671-675*.

127. Duty, B.S., Wozniak, S., and Selden, N.R. (2011) Vagal nerve stimulation in conjunction with phrenic nerve pacing in a child with congenital central hypoventilation syndrome. *Journal of Neurosurgery:Pediatrics. 7:413-415.*

128. Thompson, E.M., Anderson, G.J., Roberts, C.R., Hunt, M.A., and Selden, N.R. (2011). Skull fixated fiducial markers in staged frameless stereotactic epilepsy surgery in children. *Journal of Neurosurgery: Pediatrics*, 7:116-119.

129. Byrne, R.W., Bagan, B.T., Bingaman, W., Anderson, V.C. and Selden, N.R. (2011) Emergency neurosurgical care solutions: Acute care surgery,

regionalization, and the neurosurgeon. Results of the 2008 CNS Consensus Session. *Neurosurgery, 68(4):1063-1068*.

130. Selden, N.R., Barbaro, N., Origitano, T.C., and Burchiel, K.J. (2011) Fundamental skills for entering neurosurgery residents: Report of a Pacific region 'Boot Camp' pilot course, 2009. *Neurosurgery, 68(3):759-764*. DOI: 10.1227/NEU.0b013e3182077969

131. Didier, R.A., Kuang, A.A., Schwartz, D.L., Selden, N.R., Stevens, D.M., and Bardo, M.E. (2010) Decreasing the effective radiation dose in pediatric craniofacial CT by changing head position. *Pediatric Radiology, DOI 10.1007/s00247-010-1788-2.*

132. Connolly, E.S., Hoh, B.L., Selden, N.R., Asher, A.L., Kondziolka, D., Boulis, N., and Barker, F.G. (2010) Clipping versus coiling for ruptured intracranial aneurysms: Integrated medical learning at CNS 2007. *Neurosurgery 66:19-34.*

133. Oliveria, S.F., Thompson, E.M. and Selden, N.R. (2010) Lumbar lipomyelomeningocele and sacrococcygeal teratoma in two siblings: Support for the dysembryogenic theory of spinal teratoma formation. *Journal of Neurosurgery: Pediatrics*, 5:626-629.

134. Panczykowski, B.S., Nemecek, N., and Selden, N.R. (2010) Traumatic type III odontoid fracture and severe rotatory subluxation in a 3-year-old child. *Journal of Neurosurgery: Pediatrics 5(2):200-203 (with Cover illustration).*

135. Golshani, K.J., Lalwani, K., Delashaw, J.B. and Selden, N.R. (2009) Modified orbitozygomatic craniotomy for radical resection of craniopharyngioma in children. *Journal of Neurosurgery: Pediatrics 4(4):345-352 (with Cover illustration).*

136. Scarrow, A.M., Linskey, M., Asher, A.L., Anderson, V.C., and Selden, N.R. (2009) Neurosurgeon transition to retirement: Results of the 2007 CNS Consensus Conference. *Neurosurgery 65(2):231-236.*

137. Asher, A.L., Kondziolka, D., and Selden, N.R. (2009) Addressing deficiencies in American healthcare education: A call for informed instructional design. *Neurosurgery, 65(2)223-230.*

138. Vogelbaum, M.A., Asher, A.L., Kondziolka, D., Boulis, N.M., Selden, N.R., Hoh, B.L., and Barker, F.G. (2008) Modern treatment of cerebral metastases: Integrated medical learning at CNS 2007, *Journal of Neuro-Oncology 93:89-105.* DOI 10.1007/s11060-009-9833-4

139. Sohaey, R., Oh, K., Kennedy, A., Ameli, J., and Selden, N. (2009) Prenatal diagnosis of tethered spinal cord: A pictorial essay. *Ultrasound Quarterly, 25(2):83-87*.

140. Nevrekar, D., Abdu, E., and Selden, N.R. (2009) Craniectomy for a bilobed dermoid cyst in the temporal fossa and greater wing of the sphenoid bone: Case report. *Pediatric Neurosurgery 45:46-48.* DOI: 10.1159/000204902.

141. Ortiz, J.P., Close, L.N., Heinricher, M.M. and Selden, N.R. (2008) Alpha2-noradrenergic antagonist administration into the central nucleus of the amygdala blocks stress-induced hypoalgesia in awake behaving rats. *Neuroscience* 157:223-228. 10.1016/j.neuroscience.2008.08.051

142. Close, L., Cetas, J., Heinricher, M.M. and Selden, N.R. (2009) Purinergic receptor immunoreactivity in the rostral ventromedial medulla. *Neuroscience,* 158:915-921. 10.1016/j.neuroscience.2008.08.044

143. Nicholson, N. and Selden, N.R. (2009) Poets, doctors and the rhetoric of money. *Neurosurgery*, January, 2009.

144. Hedges, J.R., Newgard, C.D., Veum-Stone, J., Selden, N.R., Adams, A.L., Lenfesty, B., Diggs, B.S., Arthur, M. and Mullins, R.J. (2008) Early Neurosurgical Procedures Enhance Survival in Significant Blunt Head Injury – Observational Analysis Using Propensity Score Adjustment for Procedural Intervention, *Journal of Emergency Medicine.* doi:10.1016/j.jemermed.2008.07.001

145. Guillaume, D.J., Huhn, S.L., Selden, N.R., and Steiner, R.D. (2008) Cellular therapy for neurodegenerative disease in children. Part I: Rationale and preclinical studies. *Journal of Neurosurgery: Neurosurgery Focus*, 24(3&4):E21,1-6. (DOI: 10.3171/FOC/2008/24/3-4/E21)

146. Selden, N.R., Guillaume, D.J., Steiner, R.D., and Huhn, S.L. (2008) Cellular therapy for neurodegenerative disease in children. Part II. Clinical trial design and implementation. *Journal of Neurosurgery: Neurosurgery Focus,* 24(3&4):E22,1-6. (DOI: 10.3171/FOC/2008/24/3-4/E22).

147. Hauser, J., Nesbit, G., Scott, M., Boulis, N., and Selden, N.R. (2008) Family matters: A CPC case study. *Neurosurgery, 62(1)195-201*.

148. Saedi, T, Cetas, J, Chang, R, Krol, A, and Selden, NR. (2008) Newborn with nevus sebaceous of Jadassohn presenting as exophytic scalp lesion. *Pediatric Neurosurgery, 44:144-147.* DOI: 10.1159/000113118.

149. Ortiz, J., Heinricher, M.M., and Selden, N.R. (2007) Noradrenergic agonist administration into the central nucleus of the amygdala increases the tailflick latency in lightly anesthetized rats. *Neuroscience,* 148:737-43, 10.1016/j.neuroscience.2007.07.003.

150. Selden, N.R., Carlson, J.D., Cetas, J., Close, L.N. and Heinricher, M.M. (2007). Purinergic actions on neurons that modulate nociception in the rostral ventromedial medulla. *Neuroscience,* 146:1808-1816.

151. Iliff, J.J., Close, L.N., Selden, N.R., and Alkayed, N.J. (2007) A novel role for P450 eicosanoids in the neurogenic control of cerebral blood flow. *Exp. Physiology 92(4):653-658.*

152. Selden, N.R. (2007) Occult tethered cord syndrome, what is necessary to justify a new surgical indication? *Neurosurgery Focus,* 23(2)E1:1-5. DOI: 10.3171/FOC-07/08/E1

153. Yu, JA, Sohaey, R, Kennedy, A, and Selden, NR. (2007) Giant terminal myelocystocele and sacrococcygeal teratoma: a comparison of fetal ultrasound presentation and perinatal risk. *AJNR,* 28:1058-1060.

154. Gubbels, SP, Selden, NR, Delashaw, JB, and McMenomey, SO (2007). Spontaneous middle fossa encephalocele and cerebrospinal fluid leakage: Diagnosis and management. *Otology & Neurotology*, 28(8):1131-9

155. Selden, N.R. (2007) The competencies and safety. *Clinical Neurosurgery*, Vol. 53., 180-184.

156. Durham, SR, Liu, KC, and Selden, NR. (2006) Utility of serial CT imaging in pediatric head trauma. *Journal of Neurosurgery:Pediatrics:* October, 2006.

157. Ragel, B, Asher, T, Selden, N, and MacDonald, J (2006). Self-Assessment in Neurological Surgery (SANS): The SANSwired white paper. *Neurosurgery, October 2006.*

158. Selden, NR, Skoog, S, Lashley, D, and Nixon, R (2006) Minimal tethered cord syndrome is associated with thickening of the filum terminale. *Journal of Neurosurgery: 105(3):214-218 (with Cover illustration).*

159. Selden, NR (2006) Minimal tethered cord syndrome: The case for surgery. *Journal of Neurosurgery.* 104:302-304.

160. Carlson, J.D., Selden, N.R. and Heinricher, M.M. (2005) Nocifensive reflex-related on- and off-cells in the pedunculopontine tegmental nucleus, cuneiform nucleus, and lateral dorsal tegmental nucleus. *Brain Research.* 30:1063(2)187-94.

161. Selden, N.R., Durham, S.R., Anderson, G. and Braner, D. (2005) Intracranial navigation using a novel device for endoscope fixation and targeting. *Pediatric Neurosurgery,* 41:233-236.

162. Stephan, M.J., Nesbit, G.M., Behrens, M.L., Whitaker, M.A., Barnwell, S.L. and Selden, N.R. (2005) Endovascular treatment of spinal arteriovenous fistula in a young child with hereditary hemorrhagic telangiectasia. *Journal of Neurosurgery*, 103:462-465.

163. Limonadi, F. and *Selden, N.R. (2004) Dural splitting craniocervical decompression: Reduced operative time, hospital stay and cost, with equivalent early outcome. *J. Neurosurgery,* 101:184-188.

164. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 1: Introduction, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S2-4.

165. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 2: Trauma systems, pediatric trauma centers, and the neurosurgeon, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S5-8.

166. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 3: Prehospital airway management, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S9-11.

167. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 4: Resuscitation of blood pressure and oxygenation and pre-hospital brain-specific therapies for the severe pediatric traumatic brain injury patient, Guidelines for the Acute

Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S12-18.

168. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 5: Indications for intracranial pressure monitoring in pediatric patients with severe traumatic brain injury, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S19-24.

169. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 6: Threshold for treatment of intracranial hypertension, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S25-27.

170. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 7: Intracranial pressure monitoring, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S28-30.

171. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 8: Cerebral perfusion pressure, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S31-33.

172. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 9: Use of sedation and neuromuscular blockade in the treatment of severe pediatric traumatic brain injury, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S34-37.

173. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 10: The role of cerebrospinal fluid drainage in the treatment of severe pediatric traumatic brain injury, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S38-39.

174. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 11: Use of hyperosmolar therapy in the management of severe pediatric traumatic brain injury, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S40-44.

175. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR,

Warden, CR, and Wright, DW (2003) Chapter 12: Use of hyperventilation in the acute management of severe pediatric traumatic brain injury, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S45-48.

176. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 13: The use of barbiturates in the control of intracranial hypertension in severe pediatric traumatic brain injury, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S49-52.

177. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 14: The role of temperature control following severe pediatric traumatic brain injury, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S53-55.

178. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 15: Surgical treatment of pediatric intracranial hypertension, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S56-59.

179. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 16: The use of corticosteroids in the treatment of severe pediatric traumatic brain injury, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S60-64.

180. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 17: Critical pathway for the treatment of established intracranial hypertension in pediatric traumatic brain injury, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S65-67.

181. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 18: Nutritional support, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S68-71.

182. Adelson, PD, Bratton, SL, Carney, NC, Chesnut, RM, du Coudray, HEM, Goldstein, B, Kochanek, PM, Miller, HC, Partington, MD, Selden, NR, Warden, CR, and Wright, DW (2003) Chapter 19: The role of anti-seizure prophylaxis following severe pediatric traumatic brain injury, Guidelines for the Acute Medical Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents. *Journal of Trauma,* 54(6Suppl):S72-75.

183. Sandquist, M.A., and Selden, N.R. (2003) A single pass tunneling technique for CSF shunting procedures. *Pediatric Neurosurgery* 39(5):254-257.

184. Allen, R., Sandquist, M., Piatt, J.H. and Selden, N.R.W. (2003) Strawberry nevi are a poor indicator of occult dysraphism. *Journal of Neurosurgery*, 98:247-250.

185. Papadopoulos SM. Selden NR. Quint DJ. Patel N. Gillespie B. Grube S. (2002) Immediate spinal cord decompression for cervical spinal cord injury: feasibility and outcome. *Journal of Trauma,* 52(2):323-32.

186. Selden, N.R., Quint, D.J., Patel, N., d'Arcy, H.S. and Papadopoulos, S.M. (1999) Emergent MR imaging in cervical spinal cord injury: Clinical correlation and prognosis. *Neurosurgery*, 44(4):785-793.

187. Selden, N.R., Gitelman, D.R., Salamon-Murayama, N., Parrish, T.B. and Mesulam, M.-M. (1998) Trajectories of cholinergic pathways within the cerebral hemispheres of the human brain. *Brain*, 121:2249-2257.

188. Selden, N., Geula, C., Hersh, L., and Mesulam, M.-M. (1994) Human striatum: chemoarchitecture of the caudate nucleus, putamen and ventral striatum in health and Alzheimer's disease. *Neuroscience*, 60(3):621-636.

189. Selden, N., Mesulam, M.-M., and Geula, C. (1994) Human striatum: the distribution of neurofibrillary tangles in Alzheimer's disease. *Brain Research*, 648:327-331.

190. Selden, N.R.W., Robbins, T.W. and Everitt, B.J. (1992) Diencephalic noradrenaline depletion impairs the corticosterone response to footshock but does not affect conditioned fear. *Journal of Neuroendocrinology*, 4(6):773-779.

191. Selden, N.R.W., Everitt, B.J., Jarrard, L.E. and Robbins, T.W. (1991) Complementary roles for the amygdala and hippocampus in aversive conditioning to explicit and contextual cues. *Neuroscience*, 42(2):335-350.

192. Selden, N.R.W., Everitt, B.J. and Robbins, T.W. (1991) Telencephalic but not diencephalic noradrenaline depletion enhances behavioural but not endocrine measures of fear conditioning to contextual stimuli. *Behavioural Brain Research*, 43:139-154.

193. Selden, N.R.W., Robbins, T.W. and Everitt, B.J. (1990) Enhanced behavioral conditioning to context and impaired behavioral and neuroendocrine responses to conditioned stimuli following ceruleo-cortical noradrenergic lesions: support for an attentional hypothesis of central noradrenergic function. *Journal of Neuroscience*, 10(2):531-539.

194. Selden, N.R.W., Cole, B.J., Everitt, B.J. and Robbins, T.W. (1990) Damage to ceruleo-cortical noradrenergic projections impairs locally cued but enhances spatially cued water maze acquisition. *Behavioural Brain Research*, 39:29-51.

195. Ruben, L.N., Beadling, C., Langeberg, L., Shiigi, S. and Selden, N. (1988) The substitution of carrier priming of helper function in the Common American Newt, *Notophthalmus Viridescens* by lectins and human lymphokines. *Thymus*, 11:77-87.

Peer-review, consortia

1. Jennifer M Strahle, MD, Rukayat Taiwo BA, Christine Averill, James Torner MS, PhD, Gewirtz, J.I., Chevis N. Shannon MBA MPH PhD, Christopher M. Bonfield MD, Gerald F. Tuite MD, Tammy Bethel-Anderson, Anderson, R.C.E., Kelly, M.P., Joshua S. Shimony MD PhD, Ralph G. Dacey Jr MD, Matthew D. Smyth MD, Tae Sung Park MD, David D. Limbrick Jr MD, PhD, for the Park-Reeves Syringomyelia Research Consortium (2019) Radiological and clinical associations with scoliosis outcomes after posterior fossa decompression in patients with Chiari malformation and syrinx from the Park-Reeves syringomyelia research consortium. *Journal of Neurosurgery: Pediatrics, April 10, 2020,* 10.3171/2020.1.PEDS18755.

Books

1. Nicholson, N.N. and Selden, N.R. (2019) The Rhetoric of Medicine: Lessons on Professionalism from Ancient Greece. *Oxford University Press, New York, NY, May 2019*.
2. Selden, N.R. and Baird, L.C. *Editors* (2019) Neurosurgery by Example: Pediatric Neurosurgery. *Oxford University Press, New York, NY, February 2019.*
3. Selden, N.R. Series Editor (2018-19) Neurosurgery by Example. 8 volume series covering each specialty area of neurological surgery: Tumor, Vascular, Spine, Trauma, Pediatric, Functional, Peripheral Nerve, Pain. *Oxford University Press*.
4. Origitano, T.C., Selden, N.R., Barbaro, N.M., Getch, C.C., Connolly, E.S., Mapstone, T.B., and Burchiel, K.J., Society of Neurological Surgeons PGY1 Boot Camp Course Reference Guide, Society of Neurological Surgeons and Congress of Neurological Surgeons, 2011.
5. Selden, N.R. (Editor), Stem Cells and Central Nervous System Therapeutics, *Neurosurgery Focus*, at www.thejns.org March/April, 2008.
6. Dissertation for the M.D. degree with honors in a special subject (neuroanatomy): "Chemoarchitecture of the human striatum in health and Alzheimer's disease." Harvard Medical School, Boston, Massachusetts, 1993.
7. Dissertation for the Ph.D. degree: "Attentional functions of the locus ceruleus noradrenergic system." University of Cambridge, Cambridge, United Kingdom, 1989.

Chapters and Reviews

1. Edgar, L., Brigham, T., Selden, N.R. (2025) Ecosystems of professionalism: Moving from student to professional. in Merlo, G. and Harter, T. (eds.) *Medical Professionalism: Theory, Education, and Practice, February 2025,* Oxford University Press, 195-210.
2. Raskin, J., Litvack, Z. and Selden, N.R. (2021) Split spinal cord. In Winn, H.R., (ed): *Youmans and Winn Textbook of Neurological Surgery*, 8th Edition, Elsevier, N.Y., New York, Section VII *(including surgical video and illustrative PowerPoint presentation).*
3. Jea, A., Robinson, S., Hayward, R.D., Rutka, J.T., Selden, N.R., Goodrich, J.T., Avellino, A.M., Krieger, M.D., and Grant, G.A. (2021) Overview and controversies in pediatric neurosurgery, *Youmans and Winn Textbook of Neurological Surgery*, 8th Edition, Elsevier, N.Y., New York, Section VII.

4. Baird, L.C. and Selden, N.R. (2020) Pediatric Meningioma. In DiRocco C., Pang, D., and Rutka, J.T. (eds.) Textbook of Pediatric Neurosurgery, Springer, Cham. doi.org/10.1007/978-3-319-31512-6_93-1
5. Selden, N.R. (2019) Focal cortical dysplasia and epilepsy resection. In Raslan, ed., Neurosurgery by Example: Functional Neurosurgery, Oxford University Press.
6. Selden, N.R. (2019) Corpus Callosotomy. In Raslan, ed., Neurosurgery by Example: Functional Neurosurgery, Oxford University Press.
7. Selden, N.R. (2019) Vagal nerve stimulation. In Raslan, ed., Neurosurgery by Example: Functional Neurosurgery, Oxford University Press.
8. Gupta, K. and Selden, N.R. (2019) Delivery methods for treatment of genetic disorders. In Nervous System Drug Delivery: Principles and Practice, Lonser, R., Sarntinoranont, M., and Bankiewicz, K. (eds.) Cambridge, MA: Elsevier, *pp 447-462*.
9. Selden, N.R. (2018) Filum spinal tethering. In Selden and Baird, eds., Neurosurgery by Example: Pediatric Neurosurgery. Oxford University Press, New York, *pp. 31-40*.
10. Selden, N.R. (2018) Nasal dermal sinus tract. In Selden and Baird, eds., Neurosurgery by Example: Pediatric Neurosurgery. Oxford University Press, New York, *pp. 47-56*.
11. Pang, P, Raslan, A. and Selden, N. (2017) Improving Performance by Improving Education. In: Guillaume, DJ, and Hunt, MA (Eds.) Quality and Safety in Neurosurgery. San Diego: Academic Press, *pp. 213-224*.
12. Gupta, K., and Selden, N.R. (2019) Cortical dysplasia and extratemporal resections in epilepsy, In Functional Neurosurgery and Neuromodulation, Burchiel and Raslan (Eds.), Elsevier, *St. Louis, pp. 129-138*.
13. Raskin, J., Litvack, Z. and Selden, N.R. (2016) Split spinal cord. In Winn, H.R., (ed): *Youman's Textbook of Neurological Surgery*, 7th Edition, Elsevier, N.Y., New York, Section VII, 1842-1849 *(including surgical video)*.
14. Farrell, B. and Selden, N.R., (2015) Traumatic Brain Injury, in Pediatric Neurosurgery: Tricks of the Trade (Cohen, A.R. ed.), Section 5, Chapter 44, p 17-24.
15. Thompson, E. and Selden, N.R. (2014) Cellular therapy for pediatric neurological disease. In Principles and Practice of Pediatric Neurosurgery. Albright, A.L., Pollock, I.F., and Adelson, P.D. (Thieme).
16. Selden, N.R. (2014) Paradigm shift in US residency training: Education science and outcomes. Progress in Clinical Neurosciences, Volume 29, Chpt 27 (Ed. Singh, V.P. and Nair, M.D.) Thieme.
17. Carlson, J.D., Selden, N.R. and Burchiel, K.J. (2013) Vagus Nerve Stimulation. In Berta and Levy (Eds.) Neurosurgery: Tricks of the Trade. Thieme, Nader, Gragnaniello, Berta, Sabbah and Levy (Eds), Chpt 127, pp 595-7.
18. Strong, M.J. and Selden, N.R. (2012) Simulation in neurosurgical education: Present and future considerations. *Contemporary Neurosurgery*, 34(18)September 15, 2012.
19. Litvack, Z. and Selden, N.R. (2011) Split spinal cord. In Winn, H.R., (ed): *Youman's Textbook of Neurological Surgery*, 6th Edition, Elsevier, N.Y., New York, Section VII, Chpt. 216, *2219-2226*.

20. Selden, N.R., Hudson, G., and Skoog, S.R. (2009) Spinal dysraphism and neurogenic bladder dysfunction. In *Pediatric Neurosciences for Primary Care*, Piatt, JHP (Editor) AAP Press, pp 495-542.
21. Litvack, Z.N. and Selden, N.R. (2008) Pediatric Traumatic Brain Injury. In *Acute Management of Brain and Spinal Cord Injury: Evolving Paradigms*, A. Bhardwaj, D. Ellegala and J. Kirsch, eds., Informa, New York, N.Y.
22. Selden, N.R. (2006) Pediatric neurotrauma. In *Pediatric Neurosurgery*, D. Frim and N. Gupta, ed., Landes Bioscience, Georgetown, Texas, pp 67-95.
23. Carlson, J.C., Selden, N.R., Burchiel, K.J. and Heinricher, M.M. (2005). Nociceptive on- and off-cells in the mesopontine tegmentum. *Clinical Neurosurgery*, Vol 52, Chpt. 48.
24. Everitt, B.J., Robbins, T.W. and Selden, N.R.W. (1990) Functions of the locus ceruleus noradrenergic system: a neurobiological and behavioural synthesis. In *The Pharmacology of Noradrenaline in the Central Nervous System*, D.J. Heal and C.A. Marsden, eds., Oxford University Press, Oxford. Chapter 11, pp. 349-378.

Non-peer-reviewed

1. Selden, N. (2025) Message from the President. *Society of Neurological Surgeons Newsletter, February, 2025*.
2. Selden, N. (2024) Message from the President. *Society of Neurological Surgeons Newsletter, October, 2024*.
3. Selden, N. (2023) Looking ahead (President-elect column). *Society of Neurological Surgeons Newsletter, February, 2024*.
4. Selden, N. and Ratliff, J. (2023) Expanding the SNS Mission and Community with a Positional Membership Category. *Society of Neurological Surgeons Newsletter, February, 2024*.
5. Suarez, A., Haglund, M., Selden, N.R., and Selman, W. (2023) Letter: neurosurgical educators, *Neurosurgery*, July 19th, DOI: 10.1227/neu.0000000000002616, epub ahead of print; 93(4):E102-104, October, 2023.
6. Selden, N.R. (2022) Commentary on *Standardized interview scoring methodology for neurosurgical residency applicant selection, Neurosurgery, DOI:* 10.1227/neu.0000000000002141.
7. Selden, N.R. (2022) M3 Task Force Update, *SNS Newsletter, Volume 3, Number 2, December, 2022*.
8. Selden, N.R. (2022) Secretary's Report, *SNS Newsletter, Volume 3, Number 1, June 2022*.
9. Orrico, K., Selden, N.R. and Batjer, H. (2022) One Neurosurgery Summit recommends ACGME adopt COI standards, *SNS Newsletter, Volume 3, Number 1, June 2022*.
10. Selden, N.R. (2021) Secretary's Report, *SNS Newsletter, Volume 2, Number 2, December 2021*.
11. Selden, N. (2021) SNS Update, *CNS Quarterly, Summer 2021*.
12. Selden, N. (2021) Commentary on Elizabeth Crosby: Titan of Neuroanatomy and Friend of Neurosurgery, *Neurosurgery, 90(2):February 2022*.

13. Selden, N.R. (2021) Secretary's Report, *SNS Newsletter, Volume 2, Number 1, June 2021*.
14. Selden, N.R. (2020) Secretary's Report, *SNS Newsletter, Volume 1, Number 2, December 2020*.
15. Wolfe, S.Q. and Selden, N.R. (2020) Neurosurgery response to resident application challenges during the 2020-2021 cycle. *AANS Neurosurgeon, Volume 29, Number 1, June 2020*.
16. Selden, N.R. (2020) Secretary's Report, *SNS Newsletter, Volume 1, Number 1, June 2020*.
17. Wolfe, S.Q. and Selden, N.R. (2020) SNS residency application policy for the 2020-2021 cycle. *SNS Newsletter, Volume 1, Number 1, June 2020*.
18. Selden, N.R. (2020) Memorial: Molly Hubbard (2020) AANS-CNS Section of Pediatric Neurological Surgery Short Cuts, *April, 2020*.
19. Kochanek, P.M., Tasker, R.C., Carney, N., Totten, A.M., Adelson, P.D., Selden, N.R., Davis-O'Reilly, C., Hart, E.L., Bell, M.J., Bratton, S.L., Grant. G.A., Kissoon, N., Reuter-Rice, K.E., Vavilala, M.S., and Wainwright, M.S. (2019) The authors reply (response to Mindermann, T., The relevance of differential ICP values in the management of TBI), *Pediatric Critical Care Medicine,* DOI: 10.1097/PCC.0000000000002095
20. Selden, N.R. (2018) Commentary on An analysis of the on-call clinical experience of a junior neurosurgical resident. *Neurosurgery*, June, 2018, DOI:10.1093/neuros/nyy248
21. Selden, N.R. (2018) The changing face of pediatric epilepsy. *Neurosurgery Blog*, American Association of Neurological Surgeons, at www.neurosurgeryblog.org
22. Selden, N.R. (2018) What's different about Human Biology? Department of Human Biology Newsletter, Stanford University, Winter 2018, at *https://humanbiology.stanford.edu/newsletters*
23. Choo E., Englander, H., Hersh, B., Bangsberg, D., Selden, N., Powers, M., Prasad, V., and Moghaddam, B. (2018) Why is my physician on Twitter? *OHSU News, July 11th*.
24. Selden, N.R. (2017) Commentary on Kim et al. Neurosurgical education in a changing healthcare and regulatory environment: A consensus statement from 6 programs. *Neurosurgery*, 80(4):S82.
25. Selden, N.R. (2017) Commentary on *App-assisted external ventricular catheter insertion with display casting*, operative technique video in *Operative Neurosurgery*, Volume 14, Issue 4, April 2018, Page 461.
26. Selden, N.R. (2017) Commentary on *Academic productivity of US neurosurgery residents as measured by H-index: Program ranking with correlation to faculty productivity*. Neurosurgery, 80(6):984.
27. Selden, N.R. (2017) Social Media Connections, *AANS Neurosurgeon*, *Volume 26, Number 4*.
28. Marmaduke, P., Marmaduke, S., Breitenstein, M., Selden, N., and Burchiel, K.J. (2018) Mary Ellen Marmaduke: A Tribute (letter to the Editor), *Neurosurgery* 82(2)250-2.

29. Selden, N.R. (2016) Commentary on Neurosurgical education in a changing healthcare and regulatory environment: A consensus statement from six programs. *Neurosurgery, v. 80(4):S82.*
30. Selden, N.R. (2016) 'Boot Camps' lead the way in modern neurosurgical GME, March 18th 2016, *Neurosurgery Blog*, American Association of Neurological Surgeons, at www.neurosurgeryblog.org
31. Amadio, J. and Selden, N.R. (2016) Why Neurosurgeons Tweet. CNS Quarterly, April, 2016, pp 26-27. (Cross post at *www.neurosurgeryblog.org*, July 31st 2016.
32. Selden, N.R. (2016) CNS President's Annual Report: Strategic Focus on Collaboration. CNS Quarterly, Winter (January) 2016, pp 2-3.
33. Selden, N.R. (2015) Presidential Message (on recruiting for neurological surgery residency and women in the profession), CNS Quarterly, October 2015.
34. Selden, N.R. (2015) Walter E. Dandy, MD: A Personal Biography by Mary Ellen Marmaduke, CNS Quarterly, October 2015.
35. Selden, N.R. (2015) Introduction to Walter E. Dandy, MD: A Biography (2nd edition), Wolters Kluwer.
36. Selden, N.R. (2015) Presidential Message (on the CNS Annual Meeting and Controversy), CNS Quarterly, July 2015.
37. Zammar, S.G., Aoun, R.J.N., Awad, I.A., Bendok, B.R., Berg, D., Fogelson, M., Hamade, Y.J., Harrop, J., Heaphy, M., Kalkanis, S.N., Kurpad, S., Lengerman, M., Martin, A., Shupak, R., and Selden, N.R. (2015) Emerging neurosurgery education: From passive learning to dynamic interaction: "The flipped classroom" approach to the 2015 Annual Meeting luncheon seminars. CNS Quarterly, July 2015, p 7.
38. Selden, N.R., Woltjer, R.L., Thompson, E.M., Strong, M.J., and Warren, G. (2016) Response to letter to the Editor by Dr. Shokei Yamada, commentary on "Clinical significance of imaging and histological characteristics of filum terminale in tethered cord syndrome", *Journal of Neurosurgery: Pediatrics, Vol 17(5)634-36*.
39. Selden, N.R. (2015) Commentary on Albert and Glasier 'Strategies for Computed Tomography Dose Reduction in Pediatric Neuroimaging' *Neurosurgery, August 77(2):232*.
40. Selden, N.R. (2015) Commentary on 'A Practical Methodological Approach Towards Identifying Core Competencies in Medical Education Based On Literature Trends: A Feasibility Study Based On Vestibular Schwannoma Science, *Neurosurgery, October, 77(4):603*.
41. Selden, N.R. (2015) Commentary on 'Development, organization, and implementation of a surgical skills 'boot camp' – SIMweek', World Journal of Surgery, *39:1661-2,* DOI: 10.1007/s00268-015-2955-2.
42. Selden, N.R. (2015) Presidential Message (on Neurosurgical societies coordination), CNS Quarterly, April 2015.
43. Harbaugh, R.E. and Selden, N.R. (2015) Senate finance health subcommittee holds critical hearing on medical device tax. *Neurosurgery Blog, April 23rd 2015, at www.neurosurgeryblog.org.*
44. Selden, N.R. (2015) Presidential Message (on Graduate medical education funding), CNS Quarterly, January 2015.

45. Zipfel, G., Takeyama, R., Waldo, H., and Selden, N. (2014) Neurosurgery experience with implementing the milestones and clinical competency committees. Association for Hospital Medical Education Newsletter, *Spring 2014, pp 4-5.*
46. Selden, N.R., Anderson, V., McCartney, S., Origitano, T.C., Burchiel, K.J., and Barbaro, N. (2013) Response to Editorial (SNS Boot Camp Courses: Knowledge retention and relevance of hands on learning after 6 months of PGY1 training). Journal of Neurosurgery, *Journal of Neurosurgery*, August 2013, V119, pp 534-5.
47. Selden, N.R. (2013) CNS Secretary's Report, 2013. *CNS Quarterly, Winter, 2013*.
48. Selden, N.R. (2012) Letter re: 'Impact of compliance with the American College of Surgeons trauma center verification requirements on organ donation-related outcomes' (Malinoski et al, *J Am Coll Surg*:215-186-192), doi.org/10.1016/j.jamcollsurg.2012.10.006.
49. Selden, N.R. (2012) Commentary on 'Chiari I malformation: Analysis of intraoperative findings, complications and outcome for 371 foramen magnum decompressions'. Neurosurgery, *Neurosurgery, 71(2):380*.
50. Selden, N.R. (2012) CNS Secretary's Report, 2011. *CNS Quarterly, Winter 2012*.
51. Kochanek PM, Carney, N, Adelson PD, Ashwal S, Bell MJ, Bratton S, Carson S, Chesnut RM, Ghahar J, Goldstein B, Grant GA, Kissoon N, Peterson K, Selden NR, Tong KA, Tasker RC, Vavilala MS, Wainwright MS, Warden CR, 2012. (Authors' response) Comments about the revised guidelines for the acute medical management of severe traumatic brain injury in infants, children and adolescents. *Pediatric Critical Care Medicine, 13(4):496-97, doi:* 10.1097/PCC.0b013e318259ee85.
52. Selden, N.R. (2011) Invited commentary on 'Decompressive hemicraniectomy for pediatric traumatic brain injury: Long-term outcome based on quality of life' by A. Jacob et al. *Pediatric Neurosurgery,* (DOI: 10.1159/000330885).
53. Selden, N.R., Hadjipanayis, C.G., Origitano, T.C., Getch, C.C., Burchiel, K.J. and Barbaro, N.M. (2011) Bootcamp courses for incoming PGY1 neurosurgery residents utilize simulation to improve training and safety. With sidebar: The CNS partners with the Society of Neurological Surgeons to Support Resident Education. *CNS Quarterly, Summer 2011, 21-22.*
54. Selden, N.R. (2011) CNS Secretary's Report, 2010. *CNS Quarterly, Winter 2011, pp 30-31.*
55. Dacey, R.G. Burchiel, K.J., Barbaro, N., and Selden, N.R. (2011) ACGME Duty Hours Proposal: One Size Does Not Fit All. *CNS Quarterly, Winter 2011, pp 25-26*.
56. Selden, N.R. (2010) Commentary on Efficacy of Neurosurgery Resident Education in the New Millennium: The 2008 Council of State Neurosurgical Societies Post-Residency Survey Results. *Neurosurgery, 67(2):233*.
57. Rezai, A., Selden, N., Lonser, R., and Adelson, P.D. (2010) The CNS 2009 Annual Meeting. *CNS Quarterly*, Spring 2010, 22-25.
58. Berger, M.S., Couldwell, W.T., Rutka, J.T. and Selden, N.R. (2010) Introduction: neurogenomics and neuroproteomics. *Journal of Neurosurgery: Focus 28(1):E1.*
59. Selden, N.R. (2009) Book Review: Focus on NeuroImaging (PS Espinosa and CD Smith, LW&W, 2008), *Journal of Neurosurgery*, 111:1110-1111.
60. Selden, N.R. (2009) CNS consensus sessions: Putting the annual meeting to work. *Congress Quarterly,* Fall 2009, p 22.

61. Ullman, J.S., Selden, N.R. (2009) CNS Education Committee. *Congress Quarterly*, Fall 2009, pp 43-44.

62. Rezai, A.R., Selden, N.R. and Lonser, R.R. (2009). A culture of excellence: the 2009 CNS annual meeting. *Congress Quarterly,* Fall 2009, pp 6-9.

63. Selden, N.R., Rezai, A., Rodts, G.R. and Asher, T.A. (2009) A Community of Learning, 2008 Annual Meeting, Orlando. *Congress Quarterly,* Winter 2009, 10(1):13-14.

64. Selden, N.R. and Burchiel, K.J. (2008) Competency and other support resources: the "Senior Society" website and Program Director's Toolkit, *RRC News: Neurological Surgery*, Fall, 2008.

65. Selden, N.R. (2008) Commentary on 'Does adherence to treatment targets in children with severe traumatic brain injury avoid brain hypoxia? A brain oxygenation study.' *Neurosurgery*, 63(1):92.

66. Selden, N.R., Rezai, A., Rodts, G.R. and Asher, T.A. (2008) CNS Consensus Sessions: We are listening. *Congress Quarterly*, Fall 2008, *9(4)10-11*.

67. Selden, N.R., Rezai, A. and Rodts, G.R. (2008) 2008 CNS Annual Meeting, Creating a Community of Neurosurgery. *Congress Quarterly*, Fall 2008, *9(4)8-9*.

68. Boulis, N.M., Asthagiri, A., Lonser, R., and Selden, N.R. (2008) Integrated Medical Learning: Expansion of a Concept. *Congress Quarterly*, Fall 2008, *9(4)16-18*.

69. Selden, N.R. (2008) Spinal dysraphism: Hidden meanings and cutaneous markers. Editorial Board Commentary on 'Correlation of cutaneous lesions with clinical radiological and urodynamic findings in the prognosis of underlying spinal dysraphism disorders', and 'Non-neural congenital abnormalities occurring with myelomeningocele: Report of 17 cases and review of current theories', *Pediatric Neurosurgery,44:371-372*. (DOI: 10.1159/000149902)

70. Selden, N.R. (2008) Introduction, in *Stem Cells and Central Nervous System Therapeutics*. *Journal of Neurosurgery: Neurosurgery Focus,* 24(3&4):E1,1-2. (DOI: 10.3171/FOC/2008/24/3-4/E1)

71. Rodts, G.E., Asher, T.A., Selden, N.R. and Kondziolka, D. (2008) The 2007 CNS Annual Meeting: Navigating Change. *Congress Quarterly*, Winter, 2008, 14-18.

72. Sheehan, J.P. and Selden, N.R. (2008) SANS Lifelong Learning: Residency Education to Maintenance of Certification. *Congress Quarterly*, Winter, 2008, 26.

73. Selden, N.R., Rodts, G.E. and Asher, T.A. (2007) Scientific planning for the CNS Annual Meeting: How does it work? *Congress Quarterly, Fall, 2007, pp 15-17*.

74. Selden, N.R. (2007) SANS Lifelong Learning: Competencies Module, *Congress Quarterly, Summer, 2007: 37.*

75. Selden, N.R., Asher, T.A. and Muraszko, K.M. (2007) Julian "Buz" Hoff, *Neurosurgery 61(1):51*.

76. Selden, N.R. (2007) Commentary on 'Comparison of section of the filum terminale and non-surgical management for urinary incontinence in patients with normal conus position and possible occult tethered cord syndrome', *Neurosurgery,* 61(3)555.

77. Selden, N.R. (2007) Commentary on Brainstem lesions in neurofibromatosis type I, *Neurosurgery, 61(4)767.*

78. Selden, N.R., Steinbok, P., Gupta, N., Drake, J. and Garton, H.J.L. (2007) Response to Yamada. *Journal of Neurosurgery:Pediatrics*,106(5):411-414.
79. Selden, N.R. (2007) Neurosurgical residency programs: Surviving in a new accreditation era, *Congress Quarterly*, April, 2007.
80. Selden, N.R. and Burchiel, K.J. (2007) Don't abandon professional neurosurgical education, *Congress Quarterly*, April, 2007
81. Selden, N.R. (2007) Donald Johanson on The Origins of Humankind: The View from Africa, *Congress Quarterly*, 7(3):18.
82. Selden, N.R. (2006) SANS Lifelong Learning. *Neurosurgery News*, 7(2):9.
83. Selden, N.R. (2006) Non-clinical core competencies for the neurosurgeon. *Neurosurgery News*, 7(1):12.
84. Selden, N.R. (2004) CPP or ICP? *Journal of Neurosurgery (Pediatrics).* 102(1): 134-135.
85. Selden, N.R., Burchiel, K.J. (2002) Commentary on Cholinergic dysfunction in subarachnoid hemorrhage, *Neurosurgery*, 51(4):947-48.
86. Selden, N.R. (2001) Commentary on Midline Myelotomy. In *Pain Surgery*, K.J. Burchiel, ed., Thieme Medical Publishing, New York, N.Y.
87. Burchiel, K.J. and Selden, N.R. (2001) Commentary on Comparison of frameless systems, *Neurosurgery*, 49(6):1415.
88. Selden, N. (2000) Alobar Holoprosencephaly. *Pediatric Neurosurgery*, 33(2):112.
89. Quint, D.J., Selden, N.R. and Papadopoulos, S.M. (1999) Response to Larson et al. *Neurosurgery*, 45(4):957.

Electronic Publications

1. OHSU training program in neurological surgery, AANS Neurosurgery Podcast, November 2nd, 2021. https://soundcloud.com/user-838542034
2. Selden, N. (2020) COVID-19 and the neurosurgical residency match. AANS Neurosurgery Podcast (hosted by Drs. Mike Wang and JP Colson), April 2020, at https://soundcloud.com/user-838542034
3. Raskin, J., Litvack, Z., and Selden, N.R. (2020) Split cord malformation. PowerPoint presentation to accompany chapter, In Winn, H.R., (ed): *Youman's Textbook of Neurological Surgery*, 8th Edition, Elsevier, N.Y., New York, Section VII.
4. Selden, N.R., chair, and the ACGME neurosurgery milestones working group, ACGME Neurological Surgery Milestones 2.0, March 2018, ACGME website. http://www.acgme.org/Specialties/Milestones/pfcatid/10/Neurological%20Surgery
5. Raskin, J., Litvack, Z., and Selden, N.R. (2016) Split cord malformation. Surgical video to accompany chapter, In Winn, H.R., (ed): *Youman's Textbook of Neurological Surgery*, 7th Edition, Elsevier, N.Y., New York, Section VII.
6. Selden, N.R. (2015) Mentorship: Service, education, progress – the 2015 CNS Presidential Address. Video address, at www.cns.org.
7. Farrell, B. and Selden, N.R. (2015) Video of EVD placement (accompanying "Traumatic Brain Injury" Chapter 44 in Pediatric Neurosurgery: Tricks of the Trade).

8. Selden, N.R. (2014) Milestones Pilot Group: Update and Data Collection Automation, Powerpoint Lecture Set from SNS PD-PC Symposium, May 2014, at ACGME website.
9. Selden, N.R., Abosch, A., Byrne, R., Derstine, P., Edgar, L., Harbaugh, R., Krauss, W., Mapstone, T.B., Sagher, O., and Zipfel, G. (2013) Milestones compatible evaluation system for neurological surgery (12 evaluations, key, milestones listing, additional elements document, and explanatory Powerpoint lecture set), at ACGME, at http://www.acgme-nas.org/, and at SNS, at www.societyns.org, July 2013.
10. Selden, N.R. (2013) The Clinical Competency Committee: Data Driven Education and Assessment (Powerpoint lecture set for Program Director and Coordinator 2014 SNS meeting workshop) at ACGME (http://acgme.org/acgmeweb/tabid/135/ProgramandInstitutionalAccreditation/SurgicalSpecialties/NeurologicalSurgery.aspx) and SNS websites, June, 2013.
11. Selden, N.R., Abosch, A., Byrne, R., Derstine, P., Edgar, L., Harbaugh, R., Krauss, W., Mapstone, T.B., Sagher, O., and Zipfel, G. (2013) Neurological Surgery Milestones, ACGME, at http://www.acgme-nas.org/
12. Extradural Chiari Decompression, NEUROSURGERY Video Gallery, http://journals.lww.com/neurosurgery/pages/videogallery.aspx?videoId=320&autoPlay=true, May 2013.
13. Neurosurgery Milestones, a Neurosurgery Program Director Workshop. Neurological Surgery RRC Educational Presentation, ACGME, at http://acgme.org/acgmeweb/ProgramandInstitutionalGuidelines/SurgicalAccreditation/NeurologicalSurgery.aspx, October, 2012.
14. 'Night float' duty schedule for neurosurgery. Notable educational practice designation, ACGME, at http://www.acgme.org/acWebsite/notablepractices/default.asp, February, 2012.
15. Selden, OHSU healthcare and education blog, May 2012 to present, occasional.
16. Komotar, R., Coppa, N., Connolly, S. and Selden, N.R. (2012) PGY1 Boot Camp Operative Skills Stations Video Modules (Six 5 minute video modules), at www.societyns.org.
17. Komotar, R., Connolly, S., Selden, N.R. and the Subcommittee on PGY1 Boot Camp Courses, Society of Neurological Surgeons (2011) PGY1 Boot Camp Lecture Video Modules (Nine 30 minute lectures), at www.societyns.org.
18. Stem Cells and Central Nervous System Therapeutics, March/April 2008, Podcast, Interview by Dr. Nathan Selden, topic editor, of Dr. Ole Isacson, Director of the Center for Neuroregeneration Research, Harvard University, at www.thejns.org *Neurosurgery Focus*.
19. Selden, N.R. (2008) Patient Research: Your Obligation to the Patient. Society of Neurological Surgeons-American Association of Neurological Surgeons, Neurosurgical Online Educational Sessions, at www.aans.org
20. Selden, N.R. (2008) Evaluation of CSF Shunt Malfunction. Society of Neurological Surgeons-American Association of Neurological Surgeons, Neurosurgical Online Educational Sessions, at www.aans.org
21. Selden, N.R. (2007) Editor, SANS: Lifelong Learning, Competencies (Module editor: Alan Scarrow).

22. Selden, N.R. (2007) Editor, Program Director's Toolkit, Society of Neurological Surgeons website at www.societyns.org.
23. Selden, N.R. (2006) SANS*: Lifelong Learning* (Self Assessment in Neurological Surgery, and Lifelong Learning and Self-Assessment requirement of the American Board of Neurological Surgery, Maintenance of Certification). Editor; Section Editor: Core Competencies; Co-Section Editor: Pediatrics.
24. Selden, N.R. (2004) SANS*Wired* (Self-Assessment in Neurological Surgery, 7th Ed.), Associate Editor, Pediatric section Editor, Pediatric and Neuroscience Section Contributor; at www.sanswired.com.
25. Novel device for endoscope targeting. Digital video, accompanying *Selden et al. Intracranial navigation using a novel device for endoscope fixation and targeting: technical innovation*. At www.karger.com. *(Pediatric Neurosurgery)*.

Other

Published articles in:

- *Washington Post* (Washington, D.C.)
- *Willamette Week* (Portland, Oregon)
- *Stanford Daily* (Stanford, California)

Invited Lectures, Conference Presentations, or Professorships:

International and National

1. Visiting Professor, Department of Neurological Surgery, Wake Forrest University, *The Rhetoric of Medicine: Ancient Greece and the Modern World*. Winston Salem, NC, May 19th, 2026.
2. Neurosurgical Deans and CEOs, Panel member, Society of Neurological Surgeons Annual Meeting, May 16th, 2026, Birmingham, Alabama.
3. Introduction of President Richard Byrne, Society of Neurological Surgeons Annual Meeting, May 16th, 2026, Birmingham, Alabama.
4. A critical appraisal of the ACGME neurosurgical milestones 13 years on, Society of Neurological Surgeons Annual Meeting, May 15th, 2026, Birmingham, Alabama
5. Challenging Case Debate: Chiari Malformation (with Dr. Cormac Maher), *American Society of Pediatric Neurosurgeons Annual Meeting, Kona, Hawaii, January 2026*.
6. Inaugural Justin S. Cetas Lecturer, *The Rhetoric of Medicine: What Mentorship Really Means*. Department of Neurological Surgery, Tuscon, AZ, November 7th, 2025.
7. Tethered Spinal Cord, Visiting Professor, *Samitivej Children's Hospital, Bangkok, Thailand, October 2025*.
8. Presidential address, *Society of Neurological Surgeons Annual Meeting, Cleveland, Ohio, May 19th, 2025.*
9. Neurosurgical deans, history and opportunity (and panel moderation), *Society of Neurological Surgeons Annual Meeting, Cleveland, Ohio, May 19th, 2025.*

10. A history of collaboration, *Association of Residency Administrators in Neurological Surgery Annual Meeting, Cleveland, Ohio, May 18th, 2025*.
11. Strides in gender equity with room to grow: A national survey of men and women in neurological surgery, *Society of Neurological Surgeons Annual Meeting, Cleveland, Ohio, May 19th, 2025.*
12. Sir Geoffrey Jefferson Lecture. The Rhetoric of Medicine – Lessons on Professionalism from Ancient Greece, *Society of British Neurological Surgeons, Belfast, UK, Thursday 13th of March 2025*.
13. Building a U.S. medicine of the future: Lessons from Ancient Greece, *Visiting Professor, Department of Neurological Surgery, Harvard Medical School and Brigham and Women's Hospital, Boston, Massachusetts, January 7th, 2025.*
14. Navigating and Learning from Tragedy in a Department, *Society of Neurological Surgeons Annual Meeting, May 20th, 2024, New York, NY.*
15. The Rhetoric of Medicine: Finding Wellness. Benzel Visiting Professor, Cleveland Clinic Neurosurgery, February 16th, 2024.
16. Focal Cortical Dysplasia in Pediatric Epilepsy Surgery. Benzel Visiting Professor, Neurosurgery, Cleveland Clinic, February 16th 2024.
17. Gene Regulatory Effects of Vagal Nerve Stimulation in Pediatric Patients with Epilepsy, *American Society of Pediatric Neurosurgeons, Maui, Hawaii, January 2024.*
18. Treatment of Craniopharyngioma, *Virtual visiting professor, Mayo Clinic-Howard University School of Medicine Journal Club, January 9th, 2024*.
19. The Rhetoric of Medicine: Finding Wellness. Visiting Professor, University of Southern California Neurosurgery, October 20th, 2023.
20. Anti-inflammatory effects of vagus nerve stimulation in pediatric patients with epilepsy, *2023 Annual Meeting of the American Academy of Neurological Surgery, October 6th, Sea Island, Georgia.*
21. Panelist, SNS Webinar for Program directors, Administrators, and Chairs on Interview Format and processes for the 2024 Neurosurgery Match, August 16th, 2023.
22. Pearls for the PGY1 Resident, *SNS Intern Boot Camp*, Virtual, July 14th, 2023.
23. Neurosurgical emergencies, *SNS Intern Boot Camp*, Virtual interactive, July 14th, 2023.
24. SNS M3 Process and Results, *SNS Annual Meeting, Dallas, Texas, May 21st*, 2023.
25. ABNS Update, *SNS Annual Meeting, Dallas, Texas, May 20th*, 2023.
26. Certification and Governance, *Scientific Symposium for M. Sean Grady, MD, retirement as chair, University of Pennsylvania, April 28th, 2023.*
27. Navigating Second Looks and the Rank List, Society of Neurological Surgeons National Virtual Seminar for Neurosurgery Residency Applicants and Programs, Panel Discussion, January 18th, 2022.
28. Improving the ABNS Oral Examination Using Data and Professional Development, ABNS Directors and Guest Examiners Professional Development Session, Phoenix, Arizona, November 4, 2022.
29. ABNS Code of Conduct, ABNS Directors and Guest Examiners Professional Development Session, Phoenix, Arizona, November 4, 2022.

30. Developing a Career Niche in Neurosurgical Education, faculty co-lead speaker, CNS/SNS Education Science Symposium, Congress of Neurological Surgeons, San Francisco, CA, October 11th 2022.
31. Faculty Member, Symposium 10A: Swimming with the sharks – Succeeding in the neurosurgery match and residency: Enfolded fellowships vs. Research year debate: Research. Congress of Neurological Surgeons, San Francisco, CA, October 9th 2022.
32. Faculty Member, Symposium 10B: How to get the most out of your mentor: Barriers to mentorship, Congress of Neurological Surgeons, San Francisco, CA, October 9th 2022.
33. Effects of 24-hour versus night float call schedules on resident clinical and operative experience, Journal of Neurosurgery national virtual journal club, August, 2022.
34. Pearls for the junior resident, Society of Neurological Surgeons National Virtual PGY1 Boot Camp, July 8th, 2022.
35. Professionalism in residency, Society of Neurological Surgeons National Virtual PGY1 Boot Camp, July 2022 (*plus enduring materials, flipped classroom*).
36. Building partnerships with faculty, chairs, deans, and hospital CEO's. Panel member, Society of Neurological Surgeons, Detroit, MI, May 23rd, 2022.
37. ABNS Professional Development, ABNS Directors and Guest Examiners Professional Development Session, Phoenix, Arizona, May 6, 2022.
38. ABNS Code of Conduct, ABNS Directors and Guest Examiners Professional Development Session, Phoenix, Arizona, May 6, 2022.
39. Medical and surgical management of focal cortical dysplasia in children. International Stereotactic and Functional Neurosurgery course, OHSU, April 7th, 2022.
40. Visiting Professor, Stanford University, Stanford, CA, February 11th 2022. Physicians, epidemics & burnout: Lessons on professionalism from ancient Greece.
41. Quick brain MRI in a tertiary pediatric emergency department: A retrospective study of use patterns and accuracy. American Society of Pediatric Neurosurgeons, Hawaii, January 2022.
42. New approaches to the treatment focal cortical dysplasia related epilepsy in children. Global neurosurgical update and educational summit (Hosted by Rutgers University), November 4th, 2021.
43. Presidential Introduction, Dr. Karin Muraszko, MD, Higher Education, October 16th, 2020.
44. Virtual Visiting Professor, University of California Irvine. The Rhetoric of Medicine: Physicians, Epidemics and Burnout, October 1st 2021.
45. Quick brain MRI as a replacement for CT in first-line imaging for select pediatric head trauma. American Academy of Neurological Surgery, September 25th 2021.
46. A match made in breakout rooms: Reflecting on the virtual hunt for a residency position, AMA Medical Student Section, national virtual meeting, June 5th, 2021.
47. Disclosure of medical error and risk management, Society of Neurological Surgeons Junior Resident Course, May 21st, 2021.
48. Panel on 2021 and 2022 neurosurgical recruitment and match seasons, SNS National Residency Director and Coordinator Town Hall, April 8th, 2021.

49. Cortical dysplasia and extratemporal resections in epilepsy, Stereotactic and functional international neurosurgery course for neurosurgeons and neurologists (virtual due to COVID-19 pandemic), OHSU, April 1st 2021.
50. Visiting Professor, University of California, Los Angeles, March 31st 2021. Physicians, epidemics & burnout: Lessons on professionalism from ancient Greece. With Prof. Nigel Nicholson, PhD.
51. Expert panel on neurosurgical education during COVID-19. AANS Envision Virtual Event, 2020: The Year That Changed Everything, A National Forum to Discuss the Impact of a Momentous Year on the Practice of Neurosurgery. March 30th 2021.
52. Physicians, epidemics & burnout: Lessons on professionalism from ancient Greece. With Prof. Nigel Nicholson, PhD. Honored Guest Professor, Mayo Clinic Arizona, February 18th-19th 2021.
53. Complex intracranial neurosurgery in infants. Honored Guest Professor, Mayo Clinic Arizona, February 18th-19th 2021.
54. Use of intentional curricula and goals with model-based simulation for global neurosurgical education, September 10th 2020, Rutgers University-WFNS Global Neurosurgery Symposium (virtual).
55. Moderator, SNS national residency director forum on virtual applicant season 2020-2021, August 25th 2020 (virtual).
56. Preparing your residency application during COVID-19. Society of Neurological Surgeons-Congress of Neurological Surgeons medical student webinar series. August 11th, 2020 (virtual).
57. Finding neurosurgical employment during the COVID-19 era. Congress of Neurological Surgeons Town Hall Xperience, May 15th 2020, *Webinar (virtual)*.
58. Navigating the 2021 neurosurgery match – special considerations during the COVID-19 pandemic. Congress of Neurological Surgeons Town Hall Xperience, April 30th 2020, *Webinar (virtual)*.
59. Faculty recruitment and growth during COVID-19. Society of Neurological Surgeons 'Just-in-time' Symposium, May 30th, 2020 (virtual).
60. Patient safety, handoff, and checklist, Society of Neurological Surgeons Virtual Junior Resident Course, May 28th – 29th, 2020.
61. Residency Program Update and Training the Trainers, symposium speaker, Congress of Neurological Surgeons, October 19th 2019, San Francisco, CA.
62. The Rhetoric of Medicine (with Nigel Nicholson, PhD), Academy of Neurological Surgery joint meeting with Italian Academy of Neurological Surgery, Rome, Italy, September 19th, 2019.
63. Focal cortical dysplasia. Stereotactic and Functional Neurosurgery International Hands on Course, OHSU, April 4th, 2019.
64. Point-Counterpoint: Prophylactic tethered cord release. Section of Pediatric Neurological Surgery, American Association of Neurological Surgeons Annual Meeting, San Diego, CA, April 16th 2019.
65. Intentional Education: Advances in Andragogy for Neurosurgeons. Visiting Professor, Department of Neurological Surgery, Lennox Hill Hospital, Northwell Hofstra School of Medicine, New York, April 12th, 2019.

66. Neuronal Stem Cell Transplantation in Children – 5 Year Results. Visiting Professor, Department of Neurological Surgery, Cedar Sinai, Los Angeles, CA, January 2019.
67. Keynote Speaker, CSNS Session 2, Mission to Educate and Teach – Socioeconomics and the future of neurosurgical education, October 9th, 2018, Annual Meeting of the Congress of Neurological Surgeons, Houston, TX.
68. Faculty, WINS Practical Course on Leadership and Education, October 6th, 2018, Annual Meeting of the Congress of Neurological Surgeons, Houston, TX.
69. Medicine 2.0: The next phase, Harvard Medical School 25th Reunion Symposium, Boston, MA, June 2018.
70. Goals, Process and Milestones 2.0 Structure, Program Director and Coordinator Seminar, Society of Neurological Surgeons, May 2018, Hershey, PA.
71. Development of Milestones 2.0, Neurosurgery Faculty Development (PC 42), American Association of Neurological Surgeons, New Orleans, LA, April 29th, 2018.
72. Pediatric Cortical Dysplasia, Stereotactic and Functional Neurosurgery International Course, Portland, Oregon, April 2018.
73. 3rd Edition of the Clinical Guidelines for Management of Severe Traumatic Brain Injury in Infants, Children, and Adolescents: Surgical Interventions, American Society of Pediatric Neurosurgeons, February 2018, Key West, Florida.
74. Leadership and Education in North American Neurological Surgery, Visiting Professor, Medical College of Wisconsin, Milwaukie, February, 2018.
75. Effective Assessment Strategies for Resident Success and Program Improvement, Society of Neurological Surgeons SNS-ACGME Educational Leaders Seminar, May 2017, Houston, Texas.
76. Milestones 2.0 & Building a Great Neurosurgical Residency Program, Visiting Professor, Carolinas Medical Center, October 5th and 6th, 2017.
77. National Neurosurgical Boot Camps Develop Model Based Simulation, American College of Surgeons Consortium of Accredited Education Institutes (ACS-AEI) 10th Annual Meeting, Portland, Oregon, September 8th and 9th, 2017.
78. Stem Cell CNS Therapy, Recent Advances, Breakfast Seminar (Chair), American Association of Neurological Surgeons, April 25th, 2017.
79. Neurosurgical Leadership and Volunteerism (Panel), Leadership Program for Senior Residents, American Association of Neurological Surgeons, April 23rd, 2017.
80. Cortical Dysplasia and Extratemporal Epilepsy Resections, Stereotactic and Functional Neurosurgery International Course, Portland, Oregon, April 2017.
81. Milestones Research: Neurological Surgery, ACGME Milestones 2.0 National Seminar, Chicago, December, 2016.
82. Neural Stem Cell Transplantation in Children: 5-Year Results. Visiting Professor, University of Wisconsin, Madison, WI, October 2016.
83. Intentional Education: A Modern Paradigm that is Changing Neurosurgical Residency. Visiting Professor, University of Wisconsin, Madison, WI, October 2016.
84. Challenging Pediatric Neurosurgery Cases (M08 – Luncheon Seminar), Congress of Neurological Surgeons, San Diego, CA, September 2016.
85. Milestones Update. Society of Neurological Surgeons Annual Meeting. University of Indiana, Indianapolis, IN, June 2016.

86. Diversity in Neurological Surgery (Panelist). Society of Neurological Surgeons Annual Meeting. University of Indiana, Indianapolis, IN, June 2016.
87. Neural Stem Cell Transplantation: Safety and Long-term Outcomes. The Julian T. Hoff Lecturer, May 2016. University of Michigan Medical Center, Ann Arbor, Michigan.
88. Careers in Academic Neurosurgery, Honored Guest, Resident Research Symposium, Neurological Surgery, May 2016, University of Michigan Medical Center, Ann Arbor, Michigan.
89. Neural Stem Cell Therapeutics for Neurodegenerative Disease: Results 5 Years Out, Breakfast Seminar, American Association of Neurological Surgeons Annual Meeting, May 2016, Chicago, IL.
90. Becoming a leader: The "triple threat" pathway to becoming an outstanding clinician, scientist, and teacher, Leadership Development Practical Course, American Association of Neurological Surgeons Annual Meeting, May 2016, Chicago, IL.
91. Breaking bad news and disclosing medical errors (seminar), SNS Junior Resident Course, April 2016, San Diego, CA.
92. Visiting Professorship. Neural stem cell transplantation for neurodegenerative disease in children: First phase I study of a pivotal new tool. State University of New York Medical Center, Department of Neurosurgery, Albany, New York, December 3, 2015.
93. Presidential Address – Mentorship: Service, Education, Progress. Congress of Neurological Surgeons 2015 Annual Meeting, September 28, 2015.
94. Introduction of Honored Guest, Dr. Kim James Burchiel, Congress of Neurological Surgeons 2015 Annual Meeting, September 28, 2015.
95. Acknowledgement of CNS Executive and Annual Meeting Committees, Congress of Neurological Surgeons 2015 Annual Meeting, General Scientific Session I, September 27, 2015.
96. Introduction of Turkish Neurosurgical Society President and Partnership Update, Congress of Neurological Surgeons 2015 Annual Meeting, General Scientific Session I, September 27, 2015.
97. Meeting Opening and Introduction of Special Lecturer Trevor W. Robbins, Congress of Neurological Surgeons 2015 Annual Meeting, General Scientific Session I, September 27, 2015.
98. Milestones, Using the Data, and Next Steps, Practical Course 13: RRC and Next Accreditation System Update, Congress of Neurological Surgeons 2105 Annual Meeting, September 26, 2015.
99. Congress of Neurological Surgeons President's Report to the Council of State Neurosurgical Societies, CSNS Biannual Meeting, September 26, 2015, New Orleans, Louisiana.
100. Milestone Update, Society of Neurological Surgeons (Program Director and Coordinator Seminar), Saturday June 6th, 2015, Miami, Florida.
101. Aligning Organized Neurosurgery (Panel), Society of Neurological Surgeons, Tuesday June 9th, 2015, Miami, Florida.

102. Graduation Day Visiting Professor, Rush University Department of Neurosurgery, "Intentional Education: Curriculum, Assessment, Infrastructure, & Milestones", Chicago, IL, June 2015.

103. Intentional Education: Reform of US Residency Training. Japanese Congress of Neurological Surgeons, Tokyo, Japan, May 2015. (*Presidential Address for the Japanese CNS*).

104. CNS Stem Cell Therapy in Patients. American Association of Neurological Surgeons Breakfast Seminar, Washington, DC, May 2015.

105. CNS Presidential Message, American Association of Neurological Surgeons, General Scientific Session II, Washington, DC, May 2015.

106. CNS Presidential Update, U.S. Council for State Neurosurgical Societies, Washington, DC, May 2015.

107. Neurosurgical Education in an Outcomes Era, Turkish Neurosurgical Society Annual Meeting, Antalya Turkey, April 2015.

108. Pediatric Neurovascular Syndromes, International Basic Neurosurgery Course, Antalya Turkey, April 2015.

109. Moya Moya Disease, International Basic Neurosurgery Course, Antalya Turkey, April 2015.

110. Guidelines Defend Access and Improve Quality. Scientific Session IV, AANS-CNS Joint Section on Disorders of the Spine and Peripheral Nerves, March 2015, Phoenix, Arizona.

111. Paradigm Shift in US Residency Training: Education Science and Outcomes. Neurosurgical Society of India 2014 Annual Meeting, Coimbatore, India (*Presidential Address for the Congress of Neurological Surgeons*).

112. Diagnostic Boundaries in Minor Spinal Dysraphism: A Cautionary Tale. Visiting Professor, Washington University St. Louis, November 2014.

113. Intentional Education: Assessment and Outcomes. Visiting Professor, Washington University St. Louis, November 2014.

114. Milestones Update and a Look at the Data, SNS-CNS Program Director and Coordinators' Workshop, CNS Annual Meeting, Boston, MA, October, 2014.

115. Ask the Experts: Families of Teens with Hydrocephalus, 2014 National Conference on Hydrocephalus, Hydrocephalus Association, July, Portland, Oregon.

116. Neuro-imaging: Radiation Exposure and Quick Brain MRIs, 2014 National Conference on Hydrocephalus, Hydrocephalus Association, July, Portland, Oregon.

117. A New Paradigm for Neurosurgical Training: Intentional Learning & Outcomes Management, Honored Guest Lecture, Michigan Association of Neurological Surgeons (MANS), 2014 Annual Meeting, Crystal Mountain, Michigan, May 2014.

118. Long Term Outcomes of the First Phase I Clinical Trial of Neural Stem Cell Transplantation, Honored Guest Lecture, Michigan Association of Neurological Surgeons (MANS), 2014 Annual Meeting, Crystal Mountain, Michigan, May 2014.

119. Milestones Pilot Group Update and Data Collection Automation, Society of Neurological Surgeons Annual Meeting, Rochester, Minnesota, May 2014.

120. Streamlining Organized Neurosurgery, address and panel discussion with leadership of SNS, CNS, AANS and ABNS, Society of Neurological Surgeons Annual Meeting, Rochester, Minnesota, May 2014.

121. Neural Stem Cell Transplantation for CNS Degenerative Disease, Breakfast Seminar, American Association of Neurological Surgeons 2014 Annual Meeting, April 2014.

122. Thick filum terminale and filum terminale lipoma, Invited International Lecturer, International Basic Neurosurgery Course, Term I, Course III, Antalya, Turkey, March 2014.

123. Lipomyelomeningocele, Invited International Lecturer, International Basic Neurosurgery Course, Term I, Course III, Antalya, Turkey, March 2014.

124. Surgical anatomy, positions and surgical approaches: Posterior cervical and cervico-thoracic junction, Invited International Lecturer, International Basic Neurosurgery Course, Term I, Course III, Antalya, Turkey, March 2014.

125. The science of neurosurgical education, Invited International Lecturer, International Basic Neurosurgery Course, Term I, Course III, Antalya, Turkey, March 2014.

126. Neural Stem Cell Transplantation in Neurodegenerative Disease, Visiting Professor, University of Florida, Department of Neurological Surgery, Gainesville Florida, February 2014.

127. Tethered Spinal Cord: Clinical Findings, Diagnostic Boundaries and Surgical Outcomes, Visiting Professor, University of Florida, Department of Neurological Surgery, Gainesville Florida, February 2014.

128. Phase I Trial of CNS Neural Stem Cell Transplantation in Children: Challenges, Strategies and Results, Visiting Professor, Carolinas Medical Center, Charlotte, North Carolina, September, 2013.

129. A New Outcomes Era in Residency Training: Assessment and Milestones, Visiting Professor, Carolinas Medical Center, Charlotte, North Carolina, September, 2013.

130. Getting into Neurosurgery Residency – Tips & Pitfalls, PC4 "So You Want to Be A Neurosurgeon", Congress of Neurological Surgeons Annual Meeting, October 2013, San Francisco, CA.

131. Neurosurgical Milestones Evaluation and Reporting for Program Directors and Coordinators, in Practical Course 13, RRC Next Accreditation System, Milestones and Matrix Curriculum, Congress of Neurological Surgeons Annual Meeting, October 2013, San Francisco, CA.

132. Hydrocephalus Emergencies, Society of Neurological Surgeons Western Region Boot Camp Course, Portland, OR, July 2013.

133. SNS Matrix Curriculum, Evaluation Tools, and the Online Learning and Portfolio SNS Platform: How Does it All Fit Together? Society of Neurological Surgeons Annual Meeting (Program Directors and Coordinators Symposium), June 2013, Boston Massachusetts.

134. Mock Clinical Competency Committee Workshop, Society of Neurological Surgeons Annual Meeting (Program Directors and Coordinators Symposium), June 2013, Boston Massachusetts.

135. Milestones and Clinical Competency Committees, Society of Neurological Surgeons Annual Meting, June 2013, June 2013, Boston Massachusetts.

136. Neurosurgery Boot Camp I, Society of Neurological Surgeons Annual Meeting, June 2013, Boston Massachusetts.

137. Breaking Bad News, Society of Neurological Surgeons Junior Resident Boot Camp, San Diego, CA (Western Region), May 2013.

138. Informed Consent, Society of Neurological Surgeons Junior Resident Boot Camp, San Diego, CA (Western Region), May 2013.

139. Neurosurgery Milestones Adoption, ACGME Webinar, May 22nd, 2013.

140. 2013 Invited Lecturer, AANS Young Neurosurgeon's Luncheon, 2013 Annual Meeting, New Orleans, Louisiana.

141. CNS Transplantation for Batten's Disease, Breakfast Seminar, American Association of Neurological Surgeons 2013 Annual Meeting, April 2013.

142. CNS Neural Stem Cell Transplantation in Children, Visiting Professor, Departments of Neurological Surgery and Neurology, Stanford University Medical Center, Stanford, CA, April 2013.

143. Boot Camps for Teaching Neurosurgical Milestones, Education Seminar, 2013 Annual Meeting of the American Society of Pediatric Neurosurgeons, Kauai, Hawaii, February, 2013.

144. Building a Career in Academic Pediatric Neurosurgery, Breakfast Seminar, 2012 Annual Meeting of the AANS-CNS Joint Section on Pediatric Neurological Surgery, December, 2012.

145. Guidelines for Pediatric Traumatic Brain Injury, CNS Trauma Guidelines Webinar, November 6th, 2012.

146. Implementing milestones verification for neurosurgical residents. CNS-ACGME Practical Course, Congress of Neurological Surgeons Annual Meeting, October 2012, Chicago, IL.

147. Therapeutic stem cells. Second International Meeting of the Society for CNS Interstitial Delivery of Therapeutics, October 6th, 2012, Chicago, Illinois.

148. Pediatric traumatic brain injury guidelines. Luncheon seminar, Congress of Neurological Surgeons Annual Meeting, October 2012, Chicago, IL.

149. Neural stem cell transplantation in children for neurodegenerative disorders. Central European Neurosurgical Society, Prague, Czech Republic, June, 2012.

150. Pediatric TBI Guidelines, CNS Webinar Faculty: Guidelines for the Management of Severe TBI, June 8th, 2012.

151. A duty hours compliant night float system for neurosurgery programs, Society of Neurological Surgeons, Atlanta, Georgia, May, 2012.

152. Boot Camp Courses: Junior Resident Course Development, Society of Neurological Surgeons, Atlanta, Georgia, May, 2012.

153. The science of clinical practice: Education, AANS Practical Course on Clinical Data Registries, Miami Florida, April 2012.

154. Translating a novel therapeutic strategy and agent in a pediatric surgical trial: CNS transplant of neural stem cells for Batten's disease. Seminars in Translational Science Research, DuPont Hospital, Wilmington, Delaware, March 2012.

155. Visiting Professor, Jefferson Medical College Department of Neurological Surgery, March 2012. *Neural Stem Cells: Translational Trial in Batten's Disease, NCL 1 and 2.*

156. The Development of Neurosurgical Boot Camp Courses in the United States; and Work-up of the CSF Shunt, an invited introductory lecture for the first Pakistan Neurosurgery Trainee Boot Camp, February 23, 2012 (by Skype).

157. Visiting Professor, University of California, San Diego, Medical Center, Department of Neurological Surgery, October, 2011. Central Nervous System Transplantation of Neural Stem Cells.

158. CNS stem cell transplantation in children. Department of Neurological Surgery. Children's Hospital Boston, June 2011.

159. Neurosurgery Boot camps for residents: A report to the Society of Neurological Surgeons, Society of Neurological Surgeons Annual Meeting, Portland, Oregon, May, 2011.

160. Pediatric Neurosurgery (Host Program), Society of Neurological Surgeons Annual Meeting, Portland, Oregon, May, 2011.

161. Residency Program (Host Program), Society of Neurological Surgeons Annual Meeting, Portland, Oregon, May, 2011.

162. Introduction, Program Directors' Boot camp, Simulation in neurosurgical residency education practical course, Society of Neurological Surgeons Annual Meeting, Portland, Oregon, May, 2011.

163. Professionalism, fundamental skills, and safety: Outcomes of the 2010 Neurosurgery PGY-1 Bootcamp courses, AANS 2011 Annual Meeting, Plenary Session II, April, 2011.

164. Professionalism, fundamental skills, and safety: Outcomes of the 2010 Neurosurgery PGY-1 Bootcamp courses, ACGME 2011 National Annual GME Conference, Nashville, TN, March 2011.

165. Simulation, structured learning, and skill based promotion: The future of neurosurgical residency training. Interurban Neurosurgical Society, Chicago, Ill, March, 2011.

166. Hydrocephalus: Theory, diagnosis and management across the life span. Association of Neurosurgical Physician Assistants, (Joint Meeting with the Congress of Neurological Surgeons), San Francisco, CA, October 2010.

167. Big heads, little kids: Hydrocephalus, shunts and ventricles. American Academy of Pediatrics, 2010 National Conference & Exhibition (Meet the expert session), San Francisco, California, October, 2010.

168. Misshapen heads: Is it cranial synostosis? American Academy of Pediatrics, 2010 National Conference & Exhibition (Meet the expert session), San Francisco, California, October, 2010.

169. Professionalism, Supervision and Pearls for the Junior Resident. Society of Neurological Surgeons PGY1 Bootcamp Course, Western Region, July 2010, Portland, Oregon.

170. Neural stem cells and human therapeutics: Report of the first clinical trial. Visiting Professor. Department of Neurosurgery, LSU Health Sciences Center, Shreveport, Louisiana, June, 2010.

171. Neurosurgery Intern 'Bootcamp'. Society of Neurological Surgeons ('Senior Society'), Annual Meeting, Yale, Connecticut, June 2010.

172. Program Director's Toolkit (Lecture for Neurosurgery Residency Program Directors Training Session). Society of Neurological Surgeons ('Senior Society'), Annual Meeting, Yale, Connecticut, June 2010.

173. Neuronal stem cell transplantation for neuronal ceroid lipofuscinosis. General Scientific Session I, American Association of Neurological Surgeons, May 2010.

174. Practical, ethical, and regulatory challenges to the advance of stem cell research for central nervous system disease. Breakfast seminar on Stem Cell Transplantation, American Association of Neurological Surgeons, May 2010.

175. Expert Commentary for: Neural stem cells exist within the cerebrospinal fluid of the adult human CNS. Scientific Session III (Stereotactic and Functional), American Association of Neurological Surgeons, May 2010.

176. PGY1 Bootcamp courses for neurosurgery residents. Neurosurgical Summit, Philadelphia, PA, May 2010.

177. Teaching for Effect: Educational Outcomes. Meeting of the SNS Task Force on Resident Education, Salt Lake City, Utah, May, 2009.

178. Stress Induced Analgesia: Can We Hijack Adaptation? Invited presentation, AANS/CNS Joint Section for Pain Surgery, Seminar, AANS Annual Meeting, San Diego, CA, May, 2009.

179. Minimal Tethered Cord Syndrome, Breakfast Seminar, AANS Annual Meeting, San Diego, CA, May, 2009.

180. Neuronal Stem Cell Transplantation for CNS Metabolic Disease, Breakfast Seminar, AANS Annual Meeting, San Diego, CA, May, 2009.

181. Stem Cell Applications in Pediatric Neurosurgery: Current Innovations and Controversies, AANS/CNS Joint Section for Pediatric Neurosurgery, Annual Meeting, Spokane, WA, December, 2008.

182. Neuronal Stem Cells and Human Therapeutics, University of Michigan Medical Center, *Visiting Professorship*, November, 2008.

183. Tethered Cord: Slippery Slope? University Alabama Birmingham Medical Center, *Visting Professorship*, October, 2008.

184. Neuronal Stem Cells and Human Therapeutics, University Alabama Birmingham Medical Center, *Visting Professorship*, October, 2008.

185. Introduction of Dr. Anthony Asher, 58th President of the Congress of Neurological Surgeons, General Scientific Session I, Orlando, Florida, September, 2008.

186. Creating a Community of Learning: Educational Science at the Annual Meeting, General Scientific Session I, Orlando, Florida, September, 2008.

187. Stress and Pain Modulation, University of Michigan Medical Center, Annual Hoff Scientific Symposium, July, 2008.

188. Tethered Spinal Cord. Phoenix Children's Hospital, Phoenix, Arizona. *Visiting Professorship,* June, 2008.

189. Residency Data Collection and the SNS Website. May, 2008, Society of Neurological Surgeons, Madison, Wisc.

190. Digital Surgical Education. April 2008, American Association of Neurological Surgeons Annual Meeting, Washington, D.C., Practical Course Faculty.

191. Controversies in Tethered Cord Syndrome. April 2008, American Association of Neurological Surgeons Annual Meeting, Washington, D.C., Breakfast Seminar Faculty.

192. Minimal Tethered Cord Syndrome. October 2007, American Academy of Pediatrics National Annual Meeting, San Francisco California, Seminar Faculty.

193. Neurosurgical Lumps, Bumps, Pits and Tracts. October 2007, American Academy of Pediatrics National Annual Meeting, San Francisco California, Seminar Faculty.

194. Making the Most of MOC, Congress of Neurological Surgeons Annual Meeting, Socioeconomic Practical Course: Part III: Neurosurgical Education, San Diego, September, 2007.

195. Continuing Medical Education: Meeting as Workshop, Congress of Neurological Surgeons Annual Meeting, Consensus Session on Medical Education, San Diego, September, 2007.

196. Introduction to Integrated Medical Learning, Congress of Neurological Surgeons Annual Meeting, General Scientific Session III, September, 2007.

197. Web based technology support for neurosurgery residency redesign, Neurosurgery Education Summit, July 2007, Washington, D.C.

198. A toolbox for Program Directors. May, 2007. Society of Neurological Surgeons (Senior Society), San Francisco, California.

199. Controversies in Tethered Cord Syndrome. April 2007, American Association of Neurological Surgeons Annual Meeting, Washington, D.C., Breakfast Seminar Faculty.

200. Digital Surgical Education. April 2007, American Association of Neurological Surgeons Annual Meeting, Washington, D.C., Practical Course Faculty.

201. The Competencies: New Paradigms in Surgical Education, University of Virginia Department of Neurological Surgery, Charlottesville, Virginia, *Visiting Professorship, January, 2007.*

202. Iskandar, B.J. and Selden, N.R. (2007) Task Force Report on Spinal Dysraphism. American Society of Pediatric Neurosurgeons, January, 2006.

203. A Candidate Circuit for Stress Induced Analgesia, University of Michigan Medical Center, December 15th, 2006.

204. Discussant (2): "Is multifocal seizure resection in children reasonable?" and "Surgical targeting and focal implantation of gene therapy for global neurologic disease: operative techniques and nuances", Congress of Neurological Surgeons Annual Meeting, Neurosurgical Forum, Chicago, IL, October, 2006.

205. Selden, N.R. (2006) Technical considerations in extradural Chiari decompression. *Digital Video Theater Presentation, Congress of Neurological Surgeons Annual Meeting, Chicago, Ill.*

206. The Non-Clinical Core Competencies: Their Relevance to Patient Safety. September 12th, 2006, Congress of Neurological Surgeons Annual Meeting, Chicago Ill., General Scientific Session IV.

207. Practice, Science and Evidence in Minimal Tethered Cord Syndrome. Festschrift for Dr. Jonathan McGillicuddy, MD, University of Michigan Medical Center, August, 2006.

208. Pain Modulating Neurons in the Medulla. Festschrift for Dr. Julian T. Hoff, MD, University of Michigan Medical Center, July, 2005.

209. Pain Modulating Neurons in the Medulla: Purinergic Control. 28th Annual Meeting of the American Association of Pediatric Neurosurgery, Maui, Hawaii, January, 2005.

210. Controversies in Tethered Spinal Cord Surgery: The Case for Surgery. 33rd Annual Meeting of the AANS/CNS Section of Pediatric Neurological Surgery, San Francisco, December, 2004.

211. Trajectories of cholinergic pathways within the human cerebral hemisphere. American Academy of Neurological Surgery, Santa Barbara, California, 1998.

212. The anatomy and function of association cortex. Neuroanatomy Course for Nursing Associates, Congress of Neurological Surgeons, Montreal, Canada, 1996.

213. Functions of the ceruleo-cortical noradrenergic projection. Psychopharmacology Section, Neuroscience Department, Scripps Research Institute, La Jolla, California, 1989.

214. Behavioral and endocrine functions of forebrain noradrenergic projections in the rat. INSERM unit for the Psychobiology of Adaptive Behavior, University of Bordeaux, France, 1989.

V. SERVICE

Membership in Professional Societies:

Fellow, American College of Surgeons (FACS)

Fellow, American Academy of Pediatrics (FAAP)

Society of Neurological Surgeons

American Society of Pediatric Neurosurgeons

American Academy of Neurological Surgery

Society of University Neurosurgeons

Fellow, Cambridge Philosophical Society

North American Society for Neuroscience

American Association of Neurological Surgeons

Congress of Neurological Surgeons

Western Neurosurgical Society

International Society of Pediatric Neurosurgeons

AANS/CNS Section on Pediatric Neurological Surgery

Women in Neurological Surgery

Oregon Medical Association

Oregon Neurosurgical Society

Granting Agency Review Work:

Member, Siriraj Hospital System Research Council, Bangkok, Thailand, October 2025 to present.

Ad hoc grant reviewer, National Institute for Health and Care Research (NIHR), Great Ormand Street Hospital Biomedical Research Center, Great Britain, advanced imaging in pediatric brain tumors, 2024.

Ad hoc grant reviewer, State of Pennsylvania Medical Initiatives Grant Program, 2010 (for hydrocephalus related medical device grants).

Ad hoc grant reviewer, State of Kentucky Spinal Cord and Head Injury Research Board, 2004.

Editorial and Review Activities:

Series Editor and originator, *Neurosurgery by Example*, Oxford University Press, New York, N.Y. (eight case-based textbooks), 2018-2019.

Pediatric neurosurgery section co-editor, *Youmans and Winn Neurological Surgery*, 8th Edition, Elsevier, 2021.

Member, International Brain Injury Association Advisory Group on Guidelines for the Management of Severe Traumatic Brain Injury in Children, 2000 to 2003, 2009 to 2011, and 2017-2019 (3 editions).

Editor, *Program Directors' Toolkit* (dynamic web-based tools for North American neurosurgery residency Program Directors, created and hosted by the Society of Neurological Surgeons), www.societyns.org. May, 2007 to May 2014.

Member, Editorial board, JNS Online 3D Surgical Atlas, July, 2011 to 2015.

Residency Program Consultant, Brigham & Women's/Boston Children's Hospital Neurosurgical Residency, January 2017.

Chair, Clinical Event Committee, Hyperbranch Medical Technologies Phase II Study, NuSeal dural sealant, 2010-11.

Member, Clinical Event Committee, Hyperbranch Medical Technologies Phase I Study, NuSeal dural sealant, 2009-10.

Inaugural Editor, *SANS Lifelong Learning*, Jan. 2005-Sept 2007, a requirement of the American Board of Neurological Surgery for Maintenance of Certification (MOC), (Associate Editor, *SANSwired*, 2003-04), at www.sanswired.com.

Editor, *Journal of Neurosurgery: Focus*, Neurogenomics and Neuroproteomics, January, 2010, issue.

Editor, *Journal of Neurosurgery: Focus*, Stem Cell Transplantation and Human Therapeutics, March-April, 2008, issue.

Editorial Board, *Pediatric Neurosurgery*, Karger, Basel, Switzerland, January 2004 to 2014.

Editorial Board, *Congress Quarterly*, Lippincott, Williams & Wilkins, Las Vegas, NV, September, 2006 to December, 2008.

Editorial Panel, *Clinical Neurosurgery*, Lippincott, Williams & Wilkins, Las Vegas, NV, September, 2007 to 2009.

Residency Program Consultant, University of Virginia, Neurosurgical Residency, January 2007.

Abstracts review, CNS Annual Meeting (2006, 2007), Joint Section for Pediatric Neurosurgery Section Meeting (2004), and Joint Section for Pediatric Neurosurgery CNS Annual Meeting Session (2004, 2005).

Contributing Editor (Pediatric neuro-oncology), *Select Review in Neuro-Oncology*, American Association of Neurological Surgeons-Congress of Neurological Surgeons Joint Tumor Section and the Society for Neuro-Oncology, 1999 to 2003. At www.neurosurgery.org.

Turkish Neurosurgery (official journal of the Turkish Neurosurgical Society), Advisory Board, March 2014 to 2017.

Journal of Neurosurgery, Ad hoc manuscript reviewer.

Neurosurgery, Ad hoc manuscript reviewer.

Simulation, Ad hoc manuscript reviewer.

Journal of Neuro-Oncology, Ad hoc manuscript reviewer.

Journal of Pediatrics, Ad hoc manuscript reviewer.

Surgical Neurology, Ad hoc manuscript reviewer.

Child's Nervous System, Ad hoc manuscript reviewer.

World Journal of Surgery. Ad hoc manuscript reviewer.

Neuroscience, Ad hoc manuscript reviewer.

Psychopharmacology, Ad hoc manuscript reviewer.

Brain Research, Ad hoc manuscript reviewer.

Behavioural Brain Research, Ad hoc manuscript reviewer.

Pharmacology Biochemistry and Behavior, Ad hoc manuscript reviewer.

Contemporary Clinical Trials, Ad hoc manuscript reviewer.

Journal of Zhejiang University: Science, Ad hoc manuscript reviewer.

Neuroscience Letters, Ad hoc manuscript reviewer.

Postgraduate Medical Journal, Ad hoc manuscript reviewer.

Journal of the American College of Surgeons, Ad hoc manuscript reviewer.

Journal of Surgical Education, Ad hoc manuscript reviewer.

Journal of Spine Surgery, Ad hoc manuscript reviewer.

Frontiers, Ad hoc manuscript reviewer.

Professional Organizations and Committees:

International/National

Association of American Medical Colleges

- 2023-24 Council of Deans Fellow

American Board of Neurological Surgery – *Vice-chair*

- Vice-chair, May 2024 to May 2025.
- Director, May 2019 to May 2024.
- Inaugural chair of ABNS Professional Development Sessions for Directors and Guest Examiners, January 2022 to February 2024.
- Guest, Written Examination Committee, 2006, 2007, 2008, 2012, 2013, 2014.
- Guest Oral Examiner, 2009, 2014, 2018, 2019.

Society of Neurological Surgeons (Chairs and Residency Directors) – *President*

- President, 2024-2025.
- President-elect, 2023-2024.
- Chair, M3 Strategic Planning Task Force ("Membership, Meetings, Money"), December 2021 to May 2023.
- Secretary, May 2017 to May 2022.
- Liaison to the American Board of Neurological Surgeons, April 2018 to May 2019.
- Chair, Constitution and Bylaws Committee, May 2017 to May 2022.
- Member, Future Sites Committee, May 2017 to May 2022.
- Member, SNS-AANS-CNS Neurosurgical Portal Executive Committee, 2014-17.
- Chair, Committee on Resident Education (CoRE), May, 2012 to May, 2016.
- Member, Infrastructure Task Force, December 2013 to 2015.
- Inaugural National Course Director, Foundations in Neurosurgery PGY1 Bootcamp Courses (6 regional courses for all US Neurosurgery PGY1 incoming residents), and Chair of the Courses Subcommittee (CoRE) 2010 to 2014.
- Western Region Course Co-Director, Foundations in Neurosurgery PGY1 Bootcamp Courses, July 2010 to July 2012.
- Course Director, Foundations in Neurosurgery "Junior Resident Bootcamp" (Pilot course with University of Washington, Stanford, University of California San Francisco, University of Southern California, OHSU), August, 2009, OHSU.
- Member, SNS Matrix Subcommittee, CoRE (Committee on Resident Education), Chair Communications Competency Group, 2012.

- Chair, Annual Meeting Program Committee, 2012 Annual Meeting (Member, 2010 and 2011).
- Member, Committee on Resident Education (formerly Curriculum Committee), May 2007 to May 2012.
- Member, Commission for Neurosurgical Residency Redesign, member Information Technology and Finance Subcommittee, July 2007 to May 2009.
- Moderator, Session V, 'Society Reports', Society of Neurological Surgeons Annual Meeting, 2019, Seattle, WA.
- Moderator, Session V, 'Achieving Understanding', Society of Neurological Surgeons Annual Meeting, 2012, Atlanta, Georgia.

ACGME – *Chair, Milestones Group for Neurosurgery*

- Chair, Milestones Group for Neurosurgery, ACGME, *Neurological Surgery Milestones* and *Neurological Surgery Milestones 2.0*, August 2012 to February 2024.
- Member, ACGME Advisory Group for Neurosurgery, Milestones Initiative, August 2011 to August 2012 (Chair, Communications Competency subgroup).
- Symposium Director, ACGME Milestones 2.0 launch, May 2018, Society of Neurological Surgeons Annual Meeting, Hershey, Pennsylvania.
- Workshop Co-Director, Joint SNS-ACGME Educational Leaders Seminar: Effective assessment strategies for resident success and program improvement, Society of Neurological Surgeons Annual Meeting, Houston, Texas, May 2017.
- Course Director, Milestones 2.0 Assessments, in conjunction with the 2016 CNS Annual Meeting, September 2016, San Diego, California.
- Symposium Co-Director, Neurosurgery Milestones 2.0, in conjunction with the Society of Neurological Surgeon Annual Meeting, May 2016, University of Indiana, Indianapolis, IN.
- Course Co-Director (PC13) RRC Next Accreditation System, Milestones and the Neurosurgery Matrix, Congress of Neurological Surgeons Annual Meeting, September 2015, New Orleans, LA.
- Course Co-Director, (PC17) RRC Next Accreditation System, Milestones, and the Neurosurgery Matrix, Congress of Neurological Surgeons Annual Meeting, October 2014, Boston, MA.
- Course Co-Director, (PC13) ACGME Milestones and Next Accreditation System, Congress of Neurological Surgeons Annual Meeting, October 2013, San Francisco, CA.
- Symposium Director, Mock Clinical Competency Committee, Society of Neurological Surgeons Annual Meeting (Program Director and Coordinator Course), June 2013, Boston, Massachusetts.
- Symposium Director, Society of Neurological Surgeons, for Program Directors and Coordinators on the ACGME Next Accreditation System and Neurosurgical Milestones, June 2013, Boston, Massachusetts.

- Course Director, ACGME Practical Course (PC14) for Residency Directors, Coordinators, Department Chairs, and Educational Leaders on Milestone Implementation and Next Accreditation System, October 2012, Chicago, IL.
- Symposium Director, simulation training for residency program directors and Boot Camp faculty, Society of Neurological Surgeons Annual Meeting, Portland, Oregon, May 2011.

Congress of Neurological Surgeons – *Past-president*

- Member (elected), Professional Conduct Committee, September 2017-September 2018.
- Past-President, October 2015 to October 2016.
- President, Board of Directors, Congress of Neurological Surgeons Foundation, October 2015 to October 2016 (Vice President, January 2014 to 2015).
- Chair and Vice-Chair, Nominations Committee, October 2015 to October 2017.
- Chair (appointed), Professional Conduct Committee, October 2015 to October 2016.
- President, October 2014 to September 2015.
- Member, Ex Officio, AANS-CNS Washington Committee, December 2013 to July 2015.
- President-elect, October 2013 to October 2014.
- Secretary, October, 2009 to October 2012.
- Member (ex officio), Executive Committee, October 2005 to October 2009.
- Chair, Strategic Planning Committee, September 2013 to September 2014 (Member, January 2007 to 2013).
- Co-Chair, PARC Implementation Committee (III) for Policy, Budgetary Oversight and Washington Committee Leadership Training, May 2011 to 2013.
- Co-Chair, Special Committee to Review CNS Public Policy and Socio-economic Advocacy (PARC), January 2010 to January 2011 (Report January 17th, 2011).
- Member, CEO Search Committee, October 2011 to May 2012.
- Chair, Annual Meeting Committee, September 2008 to September 2009.
- Chair, Education Committee, January 2009 to October 2009 (Member 2006 to 2009).
- Member, Committee for Long Range Planning and Development of *Neurosurgery*, October 2008 to July 2009 (including selection of new Editor-in-Chief in 2009).
- Chair, *Self-Assessment in Neurological Surgery* Committee, May 2006 to September 2008. (Vice-chair, February to May, 2006).
- Chair, Scientific Program Committee, September 2007 to September 2008.
- Vice-Chair, Scientific Program Committee, September 2006 to September 2007.

- Co-Chair, Educational Strategic Planning Committee, April 2008 to October 2009.
- Co-Chair, Integrated Medical Learning Subcommittee, Scientific Program Committee (2007 Annual Meeting).
- Member, Initiatives Coordination Committee, September, 2007 to October 2009.
- Member, Ad Hoc Committee on Conflict of Interest, January 2008 to October 2009.
- Member, Scientific Program Committee and Oversight Subcommittee, General Scientific Sessions Subcommittee, Abstracts Subcommittee, September 2005 to September 2006.
- Member, Information Technology Committee, September 2006 to October 2009.
- Moderator, Congress of Neurological Surgeons Annual Meeting, General Scientific Session IV (Transcendent Leadership: On Surgery and Society – The Challenges of Contemporary Healthcare), Thursday, Oct. 12th, 2006, Chicago, Ill.

American Academy of Neurological Surgery

- Chair, Academy Award Committee, October 2018 to September 2019 (member October 2016 to 2018).

American Association of Neurological Surgeons

- Member, Board of Directors, Neurosurgery PAC, October 2013 to April 2016.
- Member, Board of Directors, NeuroPoint Alliance, parent organization of the National Neurosurgery Quality and Outcomes Database, October 2011 to 2014.
- Co-Chair, Scientific Committee, National Neurosurgery Quality and Outcomes Database (N2QOD), January 2011 to present.
- Breakfast Seminar Director, CNS Stem Cell Transplantation, AANS Annual Meeting, 2013, 2014, 2015, 2016, 2017.

American Society of Pediatric Neurosurgeons

- Moderator, American Society of Pediatric Neurological Surgeons Annual Meeting, General Scientific Session III, Functional Pediatric Neurosurgery, Jan. 28th, 2008, Kona, Hawaii.

AANS-CNS Joint Section of Pediatric Neurological Surgery

- Chair, Rules and Regulations Committee, September, 2007 to March 2010 (Member, July 2003 to August, 2007).
- Moderator, Congress of Neurological Surgeons Annual Meeting, Neurosurgical Forum (Pediatric Section), Monday, October 9th, 2006.
- Moderator, Congress of Neurological Surgeons Annual Meeting, Pediatric Section Wed. Oct. 12th, 2005, Boston, MA.

Institutional

University

- Co-chair, OHSU CRO Search Committee, June 2026 to present.
- Member, OHSU CFO Search Committee, February 2026 to present.
- Member, OHSU CEO Search Committee, November 2025 to January 2026.
- Co-executive sponsor, OHSU-Legacy Integration, September 2024 to August 2025.
- Member, Search committee for OHSU Health System CEO, January to July 2024.
- Member, Covington Report Recommendations and Implementation Oversight Committee, January 2022 to December 2023.

OHSU Professional Board (Medical Executive Committee)

- Past-president, July 2021 to June 2023.
- President, July 2019 to June 2021.
- President-elect, July 2017 to June 2019.
- Co-Chair, Quality and Safety Oversight Committee, July 2017 to June 2019.
- Elected member, January 2016 to June 2019.

School of Medicine

- Member, Chairs group executive committee (elected from amongst 26 clinical and basic science chairs), April 2020-September 2023.
- Chair, Neurology Department Chair Search, March to July 2023.
- Appointed member, Academic Council, principal representative body to OHSU Health for integrating research and education into the clinical mission, July 2021-June 2022.
- Member Clinician-scientist compensation task force, July 2021 to June 2022.
- Member, Dean's working group on Chairs compensation, October 2020 to July 2021.
- Chair, Anesthesia and Peri-Operative Medicine Department Chair Search, July 2018-February 2019.
- Member, Surgery Department Chair Search, July 2018-February 2019.

- Member, Dean's Review Committee, Department of Biomedical Engineering, 2017.
- Member, OHSU Information Technology Advisory Group for Research Infrastructure, March to November 2017.
- Member, Statewide GME Development Subcommittee, OHSU GME Committee, May 2016 to December 2017.
- Member, Collaborative Research Leadership Group, School of Medicine, OHSU, June 2015 to January 2019.
- Chair, Search Committee for Division Chief, Pediatric Neurology, Doernbecher Children's Hospital and OHSU, June 2014 to July 2015.
- Interviewer, Search Committee for Associate Hospital Administrator, Director Neuroscience Service Line, 2014-15.
- Member, GME Optimization Committee, School of Medicine, October 2015 to present.
- OHSU GMEC 'Gang of Seven' – Strategic Planning and Program Mentoring for ACGME NAS and CLER Adoption, July 2012 to July 2014.
- OHSU Traumatic Brain Injury Consortium, 2014 Co-Chair with Drs. James Chesnutt and George Keepers, 2012 to 2018.
- Interviewer, Search Committee for Associate Hospital Administrator, Director Neuroscience Service Line, December 2011.
- Dean's Task force on OHSU/OHSU Medical Group integration, Member, Legal Subcommittee, 2007-2008.
- Strategic Planning Subcommittee, "Learners at all Levels", SOM, OHSU, March to June 2007.
- Interviewer, Emergency Medicine Chairperson Search, OHSU, 2006.
- Medical Educators Group, Oregon Health & Science University, August 2002 to July 2004.

OHSU Health

- Member, Improving Financial Performance Task Force (Advisory to the CEO, Dean and University President; 1 of 2 department chair members), July 2022 to February 2024.
- Chair and Service Chief Champion, OHSU Health Connected Care Center project (systemwide patient flow, access, and information infrastructure reform), September 2021 to February 2024.
- OHSU Clinical Vaccine Prioritization Committee, December 2020 to May 2021.
- Member, Health Service Management Team, Executive decision making and budgeting for OHSU Health System entities and councils, chaired by the system CEO and Dean, School of Medicine, April 2020 to June 2021.

- Co-Chair, *OHSU Partners* Committee on Physician Engagement, January 2017 to March 2020.
- Member, CESAB (Clinical Enterprise Strategic Advisory Board), January 2016 to March 2020.
- Member, Healthcare Strategic Planning, OHSU 2025, July 2018 to October 2019.
- Member, Endomechanical, Energy and Suture RFP RFP-2017-0842 Committee, April-May 2017.
- OHSU Cancer Center, Organ System Case Reviewer (CNS), 2004 to 2006.

OHSU Practice Plan

- President and Board Chair, February 2024 to present.
- Elected Member, Management Committee, OHSU Practice Plan, July 2017 to June 2019.
- Appointed Member, Management Committee, OHSU Practice Plan, July 2016 to June 2017 and July 2019 to June 2021.
- Board of Directors, OHSU Practice Plan, Member January 2016 to present, guest June-December 2015.
- Steering Committee, OHSU Funds Flow Consulting Engagement (Whitecap), February 2018 to present.
- Faculty First Steering Committee (Funds Flow Redesign), OHSU School of Medicine, December 2016 to February 2018.
- Member, OHSUMG EPIC and CHH Optimization Committee, November. 2006 to February 2007.
- Oregon Health & Science University Medical Group (OHSUMG), Elected Member, Board of Directors, July 2004 to July 2007.

<u>Departmental</u>

Neurological Surgery

- Member, Promotions & Tenure Committee, 2011 to 2015.
- Chair, Campagna Scholarship Committee, March 2007 to 2015.
- Chair, Clinical Competency Committee (formerly Residency Advisory Committee), July 2006 to 2015 and 2021 to 2022.

Behavioral Neuroscience

- Promotions and Tenure Committee, July 2004 to 2013.

Community Service:

Extensive outreach activities for the Doernbecher Foundation and OHSU Foundation, approximately 40 to 120 hours per year, 2001 to present.

Catlin Gabel School, Portland, Oregon: Head Injury Prevention in School Aged Children 2006 (2 hours); 6th Grade Surgery Day Surgical Navigation Interactive Station (4 hours) 2011, 2012, 2013, 2014, 2015, 2016, 2017; 5th Grade Physician Career Session 2011 (1 hour); 2nd Grade Brain Module guest speaker 2012 (1 hour), High School Drugs and the Brain Panel 2014 (2 hours).

Access Academy, Portland, Oregon: Middle school alcohol and the brain module, May 5th, 2023.

Educational Activity:

Faculty, OHSU Neurological Surgery Teaching Conference: Series of eight tutorials on human neuroanatomy, 2002, 2003, 2006, 2008, 2010, 2011, 2012, 2013, 2018, 2019, 2020, 2022.

Faculty, OHSU Neurological Surgery Teaching Conference: Series of eight tutorials on vascular neuroanatomy and angiography, 2020.

Faculty, Neurosciences Core Course, School of Medicine, OHSU: 2 lectures (Surgical Management of Pain, and Mass Lesions) and 2 small group tutorials (Head Injury and Mass Lesions), annually 2001-2010. Lecture on Pediatric Neurosurgery and Hydrocephalus, 2012.

Clinical Preceptor SOM 2nd Year Students: 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2019.

Faculty, OHSU MS 1 Gross Anatomy Lab, 2 hour spinal cord and meninges module, 2009, 2010.

Faculty preceptor, Pediatric neurosurgery rotation, OHSU: 2000-2011.

Faculty, Continuity Curriculum, School of Medicine, OHSU: 1 lecture (Neurosurgery: Emergencies in Pediatric Neurosurgery), 2009, 2010.

Faculty preceptor, Child Health II rotation, one month neurosurgery selective, OHSU: 2004, 2006, 2012.

Faculty, OHSU 2nd Year Elective Course in Pain Medicine and Neuroscience, 'Pain and Nervous System Development' Seminar, 2002, 2004.

Faculty, Nervous System and Behavior Core Course, Harvard Medical School, 1992.

Faculty, Natural Sciences (Biology B), Queens' College, University of Cambridge, 1987 to 1989.

Teaching Assistant, Human Biology Core (3B), Stanford University, Spring 1986.

Mentoring:

Neurosurgical Faculty:

Elena Varlamov – Promotion to Associate Professor

Bisi Sanusi – Director of DEI, Department of Neurological Surgery; Director of Neurosurgical Dissection Laboratories and Courses

James Wright – Director of Medical Student Education

Christina Wright – Clinical Site Director, OHSU HMC Neurosurgery; Neurosurgical Rotation Director, OHSU HMC

Andrew Ryu – Director of Quality, Department of Neurological Surgery

Garret Zoeller – Instructor, OHSU SoM Anatomy; Clinical Site Director, Randall Pediatric Neurosurgery

Donald Ross – Director of Resident Mentorship Program, OHSU Neurological Surgery Residency Program; promotion to Professor

Josiah Orina – Associate Residency Program Director, OHSU; Division Head Spinal Neurosurgery; Promotion to Associate Professor

Kelly Collins – NIH/NINDS K12 Award

Jesse Winer – Director, Campagna Fellowship in Pediatric Neurosurgery; Associate Residency Program Director, OHSU; promotion to Associate Professor

Jeremy Ciporen – Promotion to Associate Professor of Neurological Surgery, Director of Neurosurgical Services at OHSU Tuality Hospital, Director of OHSU Skull Base Laboratory

Christina Sayama – Division Head of Pediatric Neurosurgery, Campagna Professor in Pediatric Neurosurgery; promotion to Associate Professor

Jesse Liu – Director, Neurological Surgery, Portland VAMC

Shaun Morrison – Appointment as Emeritus Professor of Neurological Surgery

Chris Madden – Promotion to Research Associate Professor

Ahmed Raslan – Promotion to Associate Professor and to Professor; Vice Chair of Clinical Affairs; AANS-CNS Pain Section and AANS-CNS Functional Section leadership

Lissa Baird – Promotion to Associate Professor, AANS-CNS Pediatric Section leadership, CNS Executive Committee, Division Head of Pediatric Neurosurgery, Fellowship Director, endowed professorship

Justin Cetas – Promotion to Associate Professor, Residency Director; Promotion to Chair of Neurological Surgery, University of Arizona, Tuscon

Maria Fleseriu – Promotion to Professor; President Pituitary Society

Jude Han – Director of Surgical Neuro-oncology, Knight Cancer Institute

Jason Chang – Neurosurgery Quality Director

Neurosurgical Residents:

Brittany Stedlin (2030) – Intern, Neurological Surgery, OHSU.

- *Residency applications, publications.*

Joe Nugent (2030) - Intern, Neurological Surgery, OHSU.

- *Residency applications.*

Barry Cheaney (2029) - Junior Resident, Neurological Surgery, OHSU.

- *Residency applications.*

Michael Rothbaum (2028) – Junior Resident, Neurological Surgery, OHSU.

- *Publications.*

Christina Gerges (2028) - Junior Resident, Neurological Surgery, OHSU.

- *Publications.*

Paxton Gehling (2027) - Senior Resident, Neurological Surgery, OHSU.

- *Residency applications.*

Maryam Shahin (2026) - Senior Resident, Neurological Surgery, OHSU.

- *Publications, grant and fellowship applications.*

Christian Lopez-Ramos (2026) - Senior Resident, Neurological Surgery, OHSU.

- *Grant and fellowship applications.*

Daniel Munger (2025) - Senior Resident, Neurological Surgery, OHSU.

- *Publications.*

Brannan O'Neill (2025) - Senior Resident, Neurological Surgery, OHSU.

- *Publications, research projects.*

Ali Rae (2025) - Senior Resident, Neurological Surgery, OHSU.

- *Publications, Harvard Global Health fellowship applications.*

Dominic Siler (2024) – Fellow in Neurotrauma and Critical Care, University of Washington.

- *Neurotrauma simulator development, peer-reviewed publications, SNS junior resident course simulation leadership, fellowship applications.*

Stephen Bowden (2024) – Fellow in Tumor Neurosurgery, Memorial Sloan Kettering.

- *CSNS Socioeconomic fellow; SNS medical student milestones development, NIH OCTRI TL1 Scholarship Oversight Committee member, fellowship applications, publications.*

Miner Ross (2024) – Fellow in Critical Care and Trauma Neurosurgery.

- *Publications.*

Alessandra Montalvani (2023) – Asst. Professor of Neurological Surgery, Southern Illinois University.

- *Faculty applications in functional neurosurgery.*

David Mazur-Hart (2023) – Fellow in Spinal Surgery, UCSF.

- *Fellowship and faculty applications.*

Nasser Yaghi (2023) – Fellow in Tumor and Skull Base Neurosurgery, Barrow Neurological Institute.

- *NIH intramural NRSA and clinical fellowship applications, publications.*

Erik Larsen (2023) – Neurosurgical practice, Coeur d'Alene, Idaho.

- *Job applications.*

Erik Brown (2022) – Pediatric Neurosurgery Fellowship, University of Miami

- *Tarter grant, MRF award, publications - cortical electrophysiology, fellowship applications*

Jacob Bagley (2021) – Fellowship in Cerebrovascular Surgery, Stanford University.

- *Resident Member, Neurological Surgery Review Committee, ACGME, fellowship applications.*

Jo Ling Goh (2021) – Pediatric Neurosurgery Fellowship, Dallas Southwestern, followed by Clinical Assistant Professor of Pediatric Neurosurgery, University of Kansas.

- *Pediatric neurosurgery fellowship applications, publications.*

Carli Bullis (2020) – Pediatric Neurosurgery Fellowship – LA Children's Hospital/USC, followed by Asst. Professor, University of Hawaii.

- *Pediatric neurosurgery fellowship applications.*

Lauren Simpson (2020) – Pediatric Neurosurgery Fellowship – University of Alabama, Birmingham

- *Pediatric neurosurgery fellowship applications, board waivers.*

Kunal Gupta (2019) – Functional Neurosurgery Fellowship – Emory University, Atlanta, Georgia, followed by Asst. Professor of Neurological Surgery, Indiana University (and NINDS K08 funding).

- *Chapter publications.*

Katie Krause (2019) – Spinal Neurosurgery Fellowship – Swedish Hospital, Seattle, Washington.

- *Peer-reviewed publication.*

Tristan Stani (2019) – Endovascular Neurosurgery Fellowship – Emory University, Atlanta, Georgia followed by Staff Neurosurgeon, Emory Healthcare.

Fran Hardaway (2018) – Neurosurgical Practice – Kansas City, Kansas.

Kelly Bridges (2018) – Neurosurgical Practice – Boise, Idaho.

Abigail Rao (2017) – Functional Neurosurgery Fellowship – UCLA, Los Angeles, California.

Priscilla Pang (2017) – Pediatric Neurosurgery Fellowship – Oregon Health & Science University, Portland, Oregon.

- *Peer-reviewed publications, pediatric neurosurgery fellowship match.*

Jeffrey Raskin (2016) – Asst. Professor Indiana University Children's Hospital, (after Pediatric Neurosurgical Fellowship – Texas Children's Hospital, Houston, Texas).

- *Youman's chapter, pediatric neurosurgery fellowship match.*

Jessie Liu (2016) – Skull Base and Vascular Neurosurgery Faculty, OHSU, Portland, Oregon following Endovascular and Skull Base Neurosurgery Fellowships, OHSU.

- *Peer-reviewed publications, ACGME best-educational practice recognition.*

Nathaniel Whitney (2015) – Neurosurgical Practice – Walla Walla, Washington.

- *Peer-reviewed publications.*

Brian Farrell (2015) - Neurosurgical Practice – Newport News, Virginia.

- *Book chapter.*

Hai Sun (2014) – Acting Chair, Department of Neurosurgery, Rutgers University (after Fellowship in Skull Base and Vascular Neurosurgery, Barrow Institute, Phoenix, Arizona).

- *CNS Chris Getch Fellowship.*

Neil Roundy (2014) – Staff Neurosurgeon, Peace Health, Eugene, Oregon.

- *Peer-reviewed publications.*

Eric Thompson (2013) – Associate Professor, Duke University (after fellowship in Pediatric Neurological Surgery, Hospital for Sick Children, University of Toronto, Toronto, Canada).

- *Peer-reviewed publications, CSNS socioeconomic fellowship, pediatric neurosurgery fellowship match.*

Mark Piedra (2013) – Staff Neurosurgeon, Billings, Montana.

- *Peer-reviewed publications.*

Ahmed Raslan (2012) –Professor, Division Head Functional Neurosurgery, and Vice Chair Clinical Affairs, OHSU, Portland, Oregon (after fellowship in Stereotactic and Functional Neurosurgery at Oregon Health & Science University).

Mehmet Berk (2012) – Staff Neurosurgeon, Legacy Health Care, Portland, Oregon.

Emun Abdu (2011) – Staff Neurosurgeon, House Institute, Los Angeles, California, (after fellowship in Vascular & Endovascular Neurosurgery, Swedish Hospital, Seattle, Washington).

- *Peer reviewed publication.*

Samuel Hughes (2011) – Staff neurosurgeon, Kaiser Permanente, Portland, Oregon.

Zachary Litvack (2010) – Associate Professor, George Washington University and Residency Program Director (after Skull Base & Endoscopic Fellowship at Harvard/Brigham & Women's Hospital).

- *CNS Top Ten abstract, Western Neurosurgical Society Clinical Award, Youman's chapter and peer-reviewed publications, committee leadership including CNS Executive Committee.*

Jason Weinstein (2010) – Chief of Neurosurgery, Northwest Permanente, Portland, Oregon.

Kiarash Golshani (2009) –Professor, Loma Linda University (after Endovascular Neurosurgery Fellowship at Duke University).

- *Peer-reviewed publications.*

Justin Cetas (2009) –Professor, Oregon Health & Science University and then Chair, Department of Neurological Surgery, University of Arizona (after Skull Base Fellowship at Oregon Health & Science University), deceased.

- *Lab mentor, NREF Fellowship, peer-reviewed publications.*

Kenneth Liu (2008) – Associate Professor, University of Virginia, Charlottesville (after Endovascular Fellowship at Oregon Health & Science University).

- *Peer-reviewed publications.*

Jonathan Carlson (2008) – Staff Neurosurgeon, Sacred Heart Medical Center, Spokane, Washington.

- *Lab co-mentor, CNS Tasker Award for Pain Research, peer-reviewed publications.*

Matthew Hunt (2007) –Professor and Residency Program Director, University of Minnesota (after Skull Base Fellowship at Queen's Square, London, England).

- *Peer-reviewed publications, educational leadership.*

Warren Roberts (2007) – Staff Neurosurgeon, Adventist Hospital, Denver, Colorado.

- *Specialized curriculum mentor.*

Aclan Dogan (2006) –Professor, Division Head Skull Base and Vascular Neurosurgery, OHSU (after Skull Base and Endovascular Neurosurgery Fellowships at Oregon Health & Science University).

Farhad Limonadi (2005) – Staff Neurosurgeon, Eisenhower Medical Center, Palm Desert, California.

- *Peer-reviewed publications.*

<u>Pediatric Neurosurgical Fellows:</u>

Kelsey Hundley – Assistant Professor, University of Louisiana, New Orleans.

- *Job applications.*

Joshua Loya - Neurosurgical practice, Eureka, California.

- *Job applications.*

Ahmed Helal – Resident in neurological surgery, University of Colorado.

- *U.S. residency application, residency training position.*

Jos'lyn Woodard - Assistant Professor of Pediatric Neurosurgery, OHSU.

- *Practice initiation and mentor.*

Molly Hubbard - Assistant Professor of Pediatric Neurosurgery, OHSU (deceased).

- *Practice initiation and mentor.*

Catherine Christie - Assistant Professor of Pediatric Neurosurgery, Rutgers.

- *Faculty position.*

Priscilla Pang – Practice of neurosurgery, Bend, Oregon.

- *Job search.*

Carolyn Quinsey – Associate Professor of Pediatric Neurosurgery, University of North Carolina.

- *Faculty position, publications, course leadership, SNS work, promotion to Associate Professor.*

VII. PERSONAL

Interests: Alpine skiing, whitewater rafting, hiking, backpacking, squash, mystery novels, history of medicine.

Married: Dr. Karen B. Selden (Hedges), Plastic and Reconstructive Surgeon (retired). Three adult children.