
FRANCIS ALBERT KRALICK, D.O., F.A.C.O.S., F.C.N.S.

Board Certified Neurosurgeon

Curriculum Vitae

267-259-8349

fkralick@yahoo.com

EDUCATION

D.O. Doctor of Osteopathic Medicine, * Summa Cum Laud *highest honors*
Nova-Southeastern University, Davie Florida 1996

M.S. Neuroscience, The Ohio State University, Columbus, OH 1991

B.S. Engineering Physics/Biomedical Engineering, The Ohio State University, Columbus, OH 1989

POST DOCTORAL TRAINING

Fellowship: Complex Spinal Surgery July 2002-June 2004
Drexel University College of Medicine; Simeone Institute of Neurosurgery, Philadelphia PA

Clinical Attachment: Movement Disorders March 2002-June 2002
National Hospital for Neurology & Neurosurgery, Queens Square London, England UK

Neurosurgery Residency July 1997-June 2002 Philadelphia College of Medicine, Philadelphia PA

Rotating Internship July 1996-July 1997 Doctors Hospital, Columbus OH

ACADEMIC APPOINTMENTS

Associate Professor of Neurological Surgery 2011-2015, Department of Neurosurgery, Drexel College of Medicine, Philadelphia PA

Assistant Professor of Neurological Surgery 2002-2011, Department of Neurosurgery, Drexel College of Medicine, Philadelphia PA

**additional extra collegiate appointments*

Anatomy Lab Assistant 1993, Nova Southeastern University | Research Associate Biomedical Engineer
1991-1992, North Shore University Hospital | Biomedical Engineer 1990-1991, Ohio State University | Research
Assistant 1987-1989, Ohio State University |

PROFESSIONAL PRACTICE and LEADERSHIP

2015-present

Neurosurgeon, Shore Physicians Group/Shore Medical Center, Somers Point, NJ
Director Neuroscience/ Director of Complex Spine/Division Chief, Neurosurgery
Affiliate of Hospital of University of Pennsylvania Neurosurgery (January 2022-present)

2014-2022

Neurosurgeon, AtlantiCare Regional Medical Center, Atlantic city, NJ
Staff Neurosurgeon/Trauma Call level 2

2011-2015

Neurosurgeon, Hahnemann University Hospital-Level I trauma center, Philadelphia PA
Chief of the Department of Neurosurgery/Director of Complex Spinal Surgery

2004-2015

Neurosurgeon, Hahnemann University Hospital, Department of Neurosurgery, Philadelphia PA
Director Complex Spinal Surgery

2002-2015

AO faculty

CONTINUING COMPLIMENTARY EMPLOYMENT

Founder and CEO Torcolum Group; *Innovative Solutions for Hydrocephalus Medical Devices* (2006)
Professor Biomedical Engineering, Rowan University, *Department of Engineering* (2016)
Expert panel member FDA Panel for Neurosurgical/Radiological Devices, NIH-Bethesda MD (2013)
Ringside Physician USA Boxing (2022)
Ringside Physician for Combat Sports New Jersey Athletic Control Commission (2022)

CERTIFICATION and LICENSURE

Pennsylvania License	OS00981L	Issued: 07/02/1998
Delaware License	C2-0006757	Issued: 07/02/2000
New Jersey License	25MB07544500	Issued: 06/17/2005
South Carolina License		
Board Certification	1866	Issued: 09/30/2004
DEA	BK7539274	Issued : 03/11/2005

HONORS and AWARDS

- Fellow of the Congress of Neurological Surgeons 2024
- Top Doctor South Jersey 2023
- Guardian Angel Award-Shore Medical Center 2022
- NIH Application Assistance Program Grant June-Sept 2020
- Hahnemann Hospital; Awarded Best Hospital
Neurology/Neurosurgery US News and World Report
Philadelphia, PA 2011-2015
- Professional Enrichment and Growth Grant 2010
 - Drexel Univ. College of Medicine
- ACOS Fellowship designation (F.A.C.O.S.) 2008
- Robert Irwin Literary Award 2002
- National Sofamor Danek Resident Achievement Award
Correction of Cephalocranial Disproportion by Expansion
Craniectomy and Shunt Revision for Pansyostosis: Technical Note 2002
- 2nd Place Poster Presentation ACA
Image guided Neurosurgery for Spinal Instability, Palm Desert, CA 2001
- ACOS Resident Achievement Award 2000
- ACOS Surgical Residency Scholarship 1998
 - *Excellence in Medicine*

PROFESSIONAL COMMITTEES and ADMINISTRATIVE SERVICE

American College of Osteopathic Surgeons, Governor; Board of Governors 2023-current

American College of Osteopathic Surgeons, Examiner; Neurological Surgery Oral Board
Examination October 12-15, 2013, Las Vegas NV October 2014, Boston MA

Shore Medical Center Physician Leadership Council 2015-2019 | Morbidity and Mortality Committee
2016-present | Practice Management Committee 2016-2020 | Co-chair SMC Surgical Value Analysis
Committee 2022- present

Hahnemann University Hospital Medical Executive Committee 2011-2015 | Trauma Peer Review
2002-20015 | Anesthesia Chairman Search Committee 2010 | Patient Safety Committee 2005-2015 |
Operating Room Committee 2011-2015 | Neurology Chairman Search Committee 2013 | Surgical and
Invasive Procedure Committee 2014-2015 | Neuroscience Strategic Planning Committee 2014-2015 |

Reviewer Clinical Neurology and Neurosurgery

AFFILIATIONS and PROFESSIONAL SOCIETIES

ACOS fellow (American College of Osteopathic Surgeons)
AOA (American Osteopathic Association)
NASB (North American Skull Base Society)
NASS (North American Spine Society)
AAAS (American Association for the Advancement of Science)
AO Spine North America - Faculty
Queen Square Alumni Association
Hahnemann Hospital Physicians Society
Society for Research for Hydrocephalus and Spina Bifida
International Society for Hydrocephalus and Cerebrospinal Fluid Disorders

COMMUNITY SERVICE

- ◇ The Father Joe Project- Annual children's clothing campaign Camden, New Jersey 2022-present
- ◇ Equestrian Safety Helmet Awareness- ongoing
- ◇ Motorcycle Safety/Helmet Awareness- ongoing
- ◇ Girls and Boys Club of Cumberland County, New Jersey, June 2022-May 2024
- ◇ Therapy Dogs Of America c/o Alex's Lemonade 2002-2012
- ◇ Grab the Dream- Mentoring children in disadvantaged communities for career guidance 2004

EDUCATIONAL ACTIVITIES

Chaired Courses

AO Spine North America, Principles and Treatments of Spinal Disorders for Residents and Fellows, Las Vegas NV, May 14-16, 2010

AO Spine North America, Principles of Spinal Disorders for Operating Room Personnel, Philadelphia, PA December 3-4, 2011

Courses-Invited Faculty

Surgical Implantation of Vagal Nerve Stimulator symposium, Medical College of Pennsylvania, Phila, PA Jan 2001

3rd year Surgery clerkship lectures 2002 to present: Increased Intracranial Pressure. Lecture is presented 4 times per year

Surgical Practicum – Department of Biomedical Engineering 680, HUH/Drexel University, Spring 2008

AOSpine North America, Principles and Treatments of Spinal Disorders for Residents and Fellows, Baltimore, MD, Sept 15-17, 2008

AOSpine North America, Principles and Treatments of Spinal Disorders for Residents and Fellows, Las Vegas, NV, Jan 22-24, 2009

Surgical Practicum – Department of Biomedical Engineering 680, HUH/Drexel University Spring 2009

AOSpine North America, Principles and Treatments of Spinal Disorders for Residents and Fellows, Philadelphia, PA, April 2009

AOSpine North America, Principles and Treatments of Spinal Disorders for Residents and Fellows, Las Vegas NV, January 22-24, 2010

Surgical Practicum – Department of Biomedical Engineering 680, HUH/Drexel University Spring 2010

AO Spine North America, Principles and Treatments of Spinal Disorders for Residents, Toronto, Ontario, October 28-29, 2011

Worker's Compensation Medical Lecture Series: A Guide to Understanding Common Work Injuries in the Spine, Shoulders and Upper Extremities. Pennsylvania Bar Association, Philadelphia PA with statewide live simulcast. August 8, 2012

AO Spine North America, Principles and Treatments of Spinal Disorders for Residents, New Orleans LA, January 11-12, 2012

Biomedical Seminar 596-Dept of Biomedical Engineering , HUH/Drexel University Spring 2013

Synthes/DePuy Future Leaders Trauma Course, Complication Avoidance, West Chester, Sept 27-28, 2013

Biomedical Seminar 596-Dept of Biomedical Engineering , HUH/Drexel University Spring 2014

One Mind for Research Summit, Invited participant, Arlington VA, May 2014

One Mind for Research Summit, Invited participant, Arlington VA, May 27-29, 2015 Arlington VA

AO Spine North America, Controversies in Complex Spinal Surgery, Tampa FL, Sept 9-12, 2015

One Mind for Research Summit, Invited participant, Arlington VA, May 24-25, 2016 Arlington VA

International Microwave Symposium, June 10-15, 2018, Phila, PA

AO Spine, Principles and Treatment of Spinal Disorders for Residents, August 10-11, 2018, Las Vegas

PATENTS

1. **Kralick FA**, Parrish W, Orr G, Willet D. Method for the Stimulation of Cell Growth and the Inhibition of Cell Proliferation by Utilization of Selenodithiols such as Selenodiglutathione. US patent #5,104,854: Issued April 12, 1992.
2. **Kralick FA**, Parrish W. Method for the Inhibition of the Proliferation of Cancer Cells in a Tumor Sensitive to Treatment with a Selenodithiol by Injection into a Tumor. US patent #5,104,854: Issued April 14, 1992.
3. **Kralick FA**, Noh Hongseok, Implantable Micro-System for the Treatment of Hydrocephalus, CIP
4. **Kralick FA**, Noh Hongseok, Implantable Micro-System for the Treatment of Hydrocephalus. US Patent No. US 8206334 B2,
5. Kawoos U, Rosen A, Rosen H, **Kralick FA**. Microwave Intracranial Pressure Implant and CSF Drainage. US Patent No. 12/558,157
6. **Kralick FA**, Implantable Device for the Treatment of Hydrocephalus, Patent no. US 11,690,739 B1, July 4, 2023

SUPPORT /GRANTS / FUNDING

NIH Application Assistance Program (AAP), 10 week grant for professional assistance with submission of NIH SBIR submission deadline September 8, 2020

Co-collaborator, “Protect” Study for Severe Closed Head Injury-Study closed 2013

Co-Investigator with Jahan Ara PhD, **DUCOM CURE** grant, Ischemic Injury and Neuroprotection in Newborn Piglet Brain, awarded November 19, 2010

Professional Enrichment and Growth Grant, Drexel University College of Medicine \$4570.00 for presentation of research at 14th International Conference on Intracranial Pressure and Brain Monitoring, “Microfabricated Shunt to Mimic the Function of Arachnoid Granulations for the Treatment of Communicating Hydrocephalus” Tubingen Germany Sept. 12-16, 2010

Co-Investigator with Izzetoglu, **The US Army Telemedicine Technology and Research Center (TATRC)**, start date 10/1/2008-3/31/2010, \$439,792.00 “Non-Invasive Hand-held TBI induced Brain Edema Monitoring System”

Principal investigator, Johns Hopkins University, “Assessing and Supporting Basic Hemodynamic Response During General Anesthesia in the Rat Model.” Approved 6/23/2009, \$6000.00

Co-collaborator with Dr. Jahan Ara, **March of Dimes**, \$100,000/yr for 3 years, “Subventricular zone neural stem cell responses to neonatal hypoxia-ischemia” awarded April 2009

Co-PI with Dr. Rosen, **Mitre Corporation**, “Embedded Microwave System for Monitoring of Intracranial Pressure”, \$100,000, 10/1/2008-9/30/2009

Co-PI with Dr. Noh, Drexel **Synergy Grant**, Innovative Treatment of Hydrocephalus, \$78,000 1/2008-1/2009

Co-PI with Dr. Rosen, **Coulter Foundation**, “A Wireless Embedded Intracranial Pressure Monitoring Device”, \$100,000, 4/2008-4/2009

Co-PI with Dr. Noh, **NIH R21** NS057474-01, “Implantable Microdevice for the Treatment of Hydrocephalus”, \$450,000, 9/2008 – 8/2010

Co-PI with Dr. Rosen, **NIH R21** NS050590-01, “Permanently Implantable Intracranial Pressure Sensor, \$450,000, 2005-2007

ADVISING / MENTORING / TUTORING

- Drexel College of Engineering Seminar, Intraoperative preceptor 2010-2015
- PhD advisor and medical director for post graduate fellows and medical trainees
- AOA (American Osteopathic Association) Mentoring Program (three students per year)
- Surgical Practicum project with Department of Biomedical Engineering, “Interoperative Utilization of Imaging Studies”, 2008
- Senior Design Project, Mechanical Engineering and Mechanics, Co-advisor with Dr. Noh, Micro-valve Array for Treatment of Hydrocephalus, 2006/2007

GRADUATE STUDENTS / POSTDOCTORAL FELLOWS / POSTGRADUATE MEDICAL

Usmah Kawoos, Co-advisor, Department of Biomedical Engineering, 2005-2008 PhD. Awarded 2009

Kimberly A. Wasko, Advisor/Grant proposal “Assessing and Support Basic Hemodynamic Response During General Anesthesia in the Rat Model” Approved 6/23/2009 \$6000.00

Jongyung Oh, Committee Member, Department of Mechanical Engineering, Drexel University, Ph.D awarded March 2011

Meng, Xu, Co-advisor, Department of Biomedical Engineering, Drexel University, Ph.D awarded 2015

BIBLIOGRAPHY

PUBLISHED PAPERS *denotes peer reviewed journals

- *Stechison, M.T. and **F.J. Kralick**, *The trigeminal evoked potential: Part I. Long-latency responses in awake or anesthetized subjects*. Neurosurgery, 1993. **33**(4): p. 633-8.
- ***Kralick, F.**, *Neurosurgical Treatment of Hypothalamic Hamartoma Producing Intractable Gelastic Seizures and Precocious Puberty*. JAONS, 2001. **1**: p. 17-22.
- ***Kralick, F.** and R. Koenigsberg, *Sciatica in a patient with unusual peripheral nerve sheath tumors*. Surgical Neurology, 2006. **66**(6): p. 634-637.
- *Tofighi, M.-R., Kawoos, U. **Kralick, F.A.** Rosen, A., *Wireless intracranial pressure monitoring through scalp at microwave frequencies; preliminary phantom and animal study*. IEEE MTT-S International Microwave Symposium Digest, 2006: p. 1738-1741.
- ***U. Kawoos**, R. V. Warty, F. A. Kralick, M. R. Tofighi and A. Rosen. "Issues in Wireless Intracranial Pressure Monitoring at Microwave Frequencies", **PIERS** Online Vol. 3 No. 6 2007 pp: 927-931
- *Kawoos, U. Tofighi, M. R. Warty, R. **Kralick, F. A.** Rosen, A., *In-Vitro and In-Vivo Trans-Scalp Evaluation of an Intracranial Pressure Implant at 2.4 GHz*. IEEE Transactions on Microwave Theory and Techniques, 2008. **56**(10): p. 2356-2365.
- *Emam, M. Abashiya, Y. Chareunsack, B. Skordos, J. Oh, J. Choi, Y. **Kralick, F.** Noh, H., *A novel microdevice for the treatment of hydrocephalus: design and fabrication of an array of microvalves and microneedles*. Microsystem Technologies-Micro-and Nanosystems-Information Storage and Processing Systems, 2008. **14**(3): p. 371-378.
- *U. Kawoos, R. V. Warty; M. R. Tofighi, **F.A.Kralick**, D. Yoo, T. Neal, A. Rosen *Embedded microwave system for monitoring of intracranial pressure*, *Proceedings of 2009 IEEE Radio and Wireless Symposium*, p 119-122, 2009
- ***Kralick FA**, Noh H, *Design and Fabrication of a PDMS/Parylene Microvalve for the Treatment of Hydrocephalus*, *Journal of Microelectromechanical Systems*, Vol. 20, No. 4, August 2011, p 811-818
- ***Kralick FA**, Oh J, Medina T, Noh H. *Microfabricated Shunt to Mimic Arachnoid Granulations for the Treatment of Communicating Hydrocephalus*. *Acta Neurochirurgica* accepted Jan 2011
- O. Sheikh, A. Reaves, **F. A. Kralick**, A. Brooks R. E. Musial, e J. Gasperino, *Malignant Nerve Sheath Tumor of the Spinal Accessory Nerve: A Unique Presentation of a Rare Tumor*, *The Journal of Clinical Neurology* 2012; 8: 1-4
Kralick FA,
- Liu T, Zahedi S, Garling R, Kralick F, Harris C, Cheng M, *Prosthetic arachnoid granulations using 3-D printing technology*, *IEEE International Conference on Micro Electro Mechanical Systems (MEMS)*, Las Vegas, NV Jan 22-26, 2017

BOOK CHAPTERS

Simeone F, **Kralick FA**. Posterior Cervical Fusion using the Unisom System. Spinal Instrumentation: Surgical Techniques, Eds. Kim, Vaccaro, Fessler. *Thieme* 2005

Kralick FA, Oh J, Kim G, Medina T, Noh H Microfabricated Shunt to Mimic the Function and Location of Arachnoid Granulations for the Treatment of Communicating Hydrocephalus, Eds. Schuhmann, Czosnyka. Intracranial Pressure and Brain Monitoring XIV, Acta Neurochirurgica Supplementum, Vol. 114, Springer-Verlag/Wien, 2012

Kawoos U, Tofighi M, Rosen A, **Kralick FA**, Embedded Microwave Sensors for Intracranial Pressure Monitoring, Eds. Mostafaez, Boric-Lubecke and Lin, Medical and Biological Microwave Sensors and Systems, Cambridge University Press 2017

INTERNATIONAL PRESENTATIONS

Kawoos U, Warty RV, **Kralick FA**, Tofighi MR, Rosen A “Issues in Wireless Intracranial Pressure Monitoring at Microwave Frequencies” Progress in Electromagnetic Research Symposium, Beijing China 2007

Kralick FA, Kawoos U, Warty RV, Tofighi MR, Rosen A. “An Innovative Permanently Implantable Wireless Intracranial Pressure Monitor Using Microwave Frequencies: Long Term Durability Under Pressure in Aqueous Environment” Progress in Electromagnetic Research Symposium, Prague, Czech Republic, Sept 2008

J. Oh, G. Kim, **FA Kralick**, H. Noh, “A Novel PDMS/Parylene Microvalve with 3-D Dome Petal Shape” MEMS 2010 Hong Kong, February 2010

Kralick FA, Kawoos U, Warty RV, Tofighi MR, Rosen A “An Innovative Permanently Implanted ICP Monitor Using MEMS Technology and Microwave Telemetry for the Diagnosis of Hydrocephalus” 5th International Hydrocephalus Workshop, Crete Greece, May 20-23, 2010

Kralick FA, Oh J, Kim G, Medina T, Noh H “Microfabricated Shunt to Mimic the Function and Location of Arachnoid Granulations for the Treatment of Communicating Hydrocephalus” 14th International Conference on Intracranial Pressure and Brain Monitoring, Tübingen, Germany, September 12-16, 2010

Kralick FA “Case Presentation: Cervical Spine Lateral Mass Instrumentation” and “Multi-level Cervical Stenosis with Myelopathy and Kyphosis” AOSpine North America, Principles of Spinal Disorders for Operating Room Personnel, Toronto, Ontario, October 28-29, 2011

Kralick FA, Radiofrequency and Microwave Treatment for Metastatic Spinal Tumors. International Microwave Symposium, June 10-15, Phila PA

Kralick FA, Thoracolumbar Trauma, Principles and Treatment of Spinal Disorders for Residents, August 10, 2018

Kralick FA, Lumbar Spine Lab Instructor, Principles and Treatment of Spinal Disorders for Residents, August 11, 2018

Liu T, Zahedi S, Garling R, Kralick F, Harris C, Cheng M, Prosthetic arachnoid granulations using 3-D printing technology, IEEE International Conference on Micro Electro Mechanical Systems (MEMS), Las Vegas, NV Jan 22-26, 2017

NATIONAL PRESENTATIONS

* Stechison MT, **Kralick FA**. Trigeminal Evoked Potentials in Intra-operative Monitoring. Presentation to the American Society for Intra-operative Monitoring. Minneapolis, MN. May 9-11, 1991

* Stechison MT, **Kralick FA**, Reinhart S. Trigeminal Evoked Potentials: An evaluation of the Reliability of Different Stimulation Techniques. Poster presentation to The American Association of Neurologic Surgeons. New Orleans, LA. April 20-25, 1991

Kralick FA. Benefits of Not Shaving Hair Prior to Craniotomy: Experience at a Level One Trauma Center. Poster presentation to American College of Osteopathic Surgeons. Seattle, WA. October 2-4, 1999

* **Kralick FA**, Goldman HW, Turtz AR, Yocom SS. The Use of Intra-Operative MRI for the Surgical Treatment of Intrinsic Brain Tumors. Congress of Neurological Surgeons Annual Meeting, “The Essence of Neurological Surgery,” Denver, CO. October 18-23, 2003

Kralick FA, Goldman HW, Turtz AR, Yocom SS. Case Report and Radiographic Findings of Peripheral Nerve Sheath Tumors. Congress of Neurological Surgeons Annual Meeting, “The Essence of Neurological Surgery,” Denver, CO. October 18-23, 2003

Simeone FA, **Kralick FA**. “Posterior Cervical Fusion using the Unisom System. In Spinal Fusion” Presentation for North American Spine Society, Philadelphia, PA. September 29, 2005.

Evaluation and Classification of Cervical Trauma. AO North America, Principles of Spinal Disorders for Operating Room Personnel. Chicago IL, chairman-J York, March 4-5, 2006

AO North America Spine Operating Room Personnel Course. Myrtle Beach, SC. Chairman-JY Parrott. March 31-April 1, 2007

Cervical Stenosis with Myelopathy: Treatment Options. AO North America, Principles and Treatment of Spinal Disorders for Residents and Fellows, Las Vegas NV, Chairman-R Molinari, January 16-18, 2008

Cervical Stenosis with Myelopathy: Treatment Options. AO North America, Principles and Treatment of Spinal Disorders for Residents and Fellows. Baltimore MD, Co-chairmen E Massicotte and WD Yu, Sept 5-7, 2008

Evaluation and Treatment of Thoraco-Lumbar Trauma. AO North America, Principles and Treatment of Spinal Disorders for Residents and Fellows. Las Vegas, NV. Chairman – R. Molinari and JP Wolinsky, January 16-18, 2009

Cervical Spondylotic Myelopathy AO North America, Principles and Treatment of Spinal Disorders for Residents and Fellows. Las Vegas, NV. Chairman – R. Bransford and JP Wolinsky, , January 22-24, 2010

Cervical Spondylotic Myelopathy, AOSpine North America, Principles and Treatments of Spinal Disorders for Residents, , Toronto, Ontario, October 28-29, 2011

Spinal Pain and Back Injuries in the Injured Worker, Worker’s Compensation Medical Lecture Series: A Guide to Understanding Common Work Injuries in the Spine, Shoulders and Upper Extremities. Pennsylvania Bar Association, Philadelphia PA with statewide live simulcast. August 8, 2012

Evaluation and Treatment of Thoraco-Lumbar Trauma AOSpine North America, Principles and Treatments of Spinal Disorders for Residents, New Orleans LA, Chairman- T. Mroz and L. Sekhon, January 11, 2013

Evaluation and Treatment of Lumbar HNP, AOSpine North America, Principles and Treatments of Spinal Disorders for Residents, New Orleans LA, Chairman- T. Mroz and L. Sekhon, , January 12, 2013

REGIONAL PRESENTATIONS

Increased Intracranial Pressure. Emergency Medicine Department, Philadelphia College of Osteopathic Medicine (PCOM). Philadelphia, PA. December 1997.

Cerebral Tumors, Grand Rounds. Philadelphia College of Osteopathic Medicine (PCOM) Philadelphia, PA. February 1998.

A Case of Gelastic Seizures and Precocious Puberty. Neuroscience Grand Rounds. Cooper Hospital/University Medical Center, Camden, NJ. November 1998.

Pediatric Head Trauma. Neuroscience Nurses CME. Cooper Hospital/University Medical Center, Camden, NJ. May 1999.

Arachnoid Cysts. Neuroscience Grand Rounds. Cooper Hospital/University Medical Center, Camden, NJ. January 2000.

Morbidity and Mortality. Division of Neurosurgery. Cooper Hospital/University Medical Center, Camden, NJ. January 2000.

Aneurysmal Subarachnoid Hemorrhage. Neuroscience Grand Rounds. Cooper Hospital/University Medical Center, Camden, NJ. February 2000.

Morbidity and Mortality, Division of Neurosurgery. Cooper Hospital/University Medical Center, Camden, NJ. February 2000.

Morbidity and Mortality, Division of Neurosurgery. Cooper Hospital/University Medical Center, Camden, NJ. March 2000.

Ventriculostomies and Drains. Operating Room Staff CME. Cooper Hospital/University Medical Center, Camden, NJ. March 2000.

Neuro assessment. Physician lecture day to Neuroscience Nurses. MCP Hahnemann University, Philadelphia, PA. November 2000.

Neuroanatomy. Physician lecture day to Neuroscience Nurses. MCP Hahnemann University, Philadelphia, PA. November 2000.

Neurological Assessment. Physician lecture day to Neuroscience Nurses. MCP Hahnemann University, Philadelphia, PA. January 2001.

Neuroanatomy. Physician lecture day to Neuroscience Nurses. MCP Hahnemann University, Philadelphia, PA. January 2001.

Aneurysms and Arteriovenous Malformations (AVMs). Physician Lecture Day to Neuroscience Nurses. MCP Hahnemann University, Philadelphia, PA. January 2001.

Hydrocephalus – MS II Lecture. Philadelphia College of Osteopathic Medicine, Philadelphia, PA. January 2001.

Vagal Nerve Stimulator Placement and Technical Notes. Vagal Nerve Stimulator (VNS) Workshop. MCP Hahnemann University, Philadelphia, PA. January 2001.

Brain Tumors – MS II Lecture. Philadelphia College of Osteopathic Medicine, Philadelphia, PA. January 2001.

Blunt Head Injury. Trauma Grand Rounds. MCP Hahnemann University, Philadelphia, PA. April 2001.

Yocom S, **Kralick FA**, Turtz A, Goldman HW, Aita A. Image Guided Surgery for the Treatment of Spinal Instability. Poster presentation at the Third Annual Drexel University Research Day. Philadelphia, PA; May 1, 2001

A Case of Peripheral Nerve Tumor. Neuroscience Grand Rounds. MCP Hahnemann University, Philadelphia, PA. May 2001.

Intra-operative MRI. Department of Rehabilitation Medicine Grand Rounds. MCP Hahnemann University, Philadelphia, PA. May 2001.

Goldman HW, **Kralick FA**. Surgical Options for Refractory Post-Traumatic Epilepsy. Pan-Philadelphia Conference, The Park Hyatt at the Bellevue, Philadelphia, PA. December 7, 2001

Kralick FA, Turtz A, Yocom S, Goldman HW. Use of Intra-Operative MRI for Brain Tumors (Abstract and Poster presentation) Discovery 2002. Drexel University College of Medicine, Philadelphia, PA. October 9, 2002

Simeone FA, **Kralick FA**. “Posterior Cervical Fusion using the Unisom System. In Spinal Fusion” Presentation for North American Spine Society, Philadelphia, PA. September 29, 2005.

Current Treatment of Back Pain. Dr. Sidney H. Orr Tuesday Noon Lecture Series. Roxborough Memorial Hospital, Roxborough, PA. June 27, 2006

Degenerative Lumbar Spine Disease and Neurosurgery in an Aging Population. Del Co Memorial Hospital Saturday Morning Conference, Drexel Hill, PA. August 2006

Neurosurgical Trauma, Trauma nurse certification, Hahnemann University Hospital, October 2006

Degeneration of Lumbar Spine/Interbody Fusion. AO North America Spine Operating Room Personnel Course. Philadelphia, PA. Chairman James Shuster. Nov 11-12, 2006

Current Treatments for Low Back Pain. Grand Rounds Roxborough Memorial Hospital, Roxborough, PA. January 16, 2007

Neurosurgical Trauma, Trauma nurses certification, Hahnemann University Hospital, October 2007

4th Annual Critical Care Symposium: Protocols in Critical Care, Performing Neurologic Examination, Drexel University College of Medicine, Philadelphia, PA. May 1, 2008

Wireless Embedded Intracranial Pressure Monitoring Device. Wallace H. Coulter Foundation. Philadelphia, PA, March 5, 2008

X. Meng, U Kawoos, MR Tofighi, J Shackleford, **FA Kralick**, D Yoo, T. Neal, A. Rosen, “Study of Intracranial Pressure Trends in Cerebral Disorders and Head Trauma”, Philadelphia, PA, July 2008

Neurosurgical Trauma, Trauma nurse certification, Hahnemann University Hospital, October 2008

Case Presentation: Cervical Stenosis with Myopathy. AO North America, Principles and Treatment of Spinal Disorders for Residents and Fellows, Philadelphia, PA, Co-chairmen- IM Garonzik and T Mroz, April 24-26, 2009

J. Oh, G. Kim T. Medina, **F.A. Kralick**, H. Noh, “Implantable Microdevice for the Treatment of Hydrocephalus” Surgical Engineering Enterprise, Drexel University, Philadelphia, PA. January 28, 2010

Current Surgical Management of Low Back Pain. Grand Rounds, Jennersville Regional Hospital, April 23, 2010

Surgical Treatment of Low Back Pain. Grand Rounds, Roxbourogh Memorial Hospital, June 29, 2010

ICP and Hydrocephalus, Drexel Pulmonary fellow noon time conference, October 15, 2010

Kralick FA “Case Presentation: Cervical Spine Lateral Mass Instrumentation” and “Multi-level Cervical Stenosis with Myelopathy and Kyphosis” AOSpine North America, Principles of Spinal Disorders for Operating Room Personnel, Philadelphia, PA December 3-4, 2011

Kralick FA “Sorting out Spinal Pain and Back Injuries in the Injured Worker” Worker’s Compensation Lecture Series: A Guide to Understanding Common Work Injuries in the Spine, Shoulders and Upper Extremities. Philadelphia PA with state-wide simulcast, August 8, 2012

Kralick FA Surgical Treatment of the Aging Spine, JCC, Margate NJ, October 2015

KralickFA Understanding Severe Closed Head Injury, Bacharach Rehab, Galloway NJ, March 1, 2016

Kralick FA, New Innovations in Neurosurgery, Shore Medical Center Day of Education, Somers Point NJ, May 13, 2016

ABC Webcast, Question and Answer Concussions, Philadelphia, PA, Sept 1, 2016

Treatment of Low Back Pain, Shore Medical Center Hospitalist Lecture Series. Somers Point NJ May 2018

Innovations in the Treatment of Low Back Pain, Shore Medical Center, Somers Point NJ, July 2019