

**Dr. Keith-Austin Scarfo DO, MS**

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**EDUCATION**

Bucknell University, Lewisburg, PA  
Biology  
August 1996 – May 2000  
Bachelor of Science – May 2000

Thomas Jefferson University, Philadelphia, PA  
Biomedical Chemistry  
June 2000 – August 2002  
Master of Science – June 2003

Philadelphia College of Osteopathic Medicine, Philadelphia, PA  
August 2002 – June 2006  
Doctor of Osteopathy – June 2006

**POSTGRADUATE TRAINING**

Lankenau Hospital, Wynnewood, PA  
100 East Lancaster Avenue, Wynnewood, PA 19096  
Internship – PGY1  
July 2006 – June 2007

Thomas Jefferson University Hospital, Philadelphia, PA  
111 South 11th Street, Philadelphia, PA 19107  
Anesthesiology – PGY2-4  
July 2007 – June 2010

Dartmouth-Hitchcock Medical Center  
1 Medical Center Drive, Lebanon, NH 03766  
Pain Medicine – PGY5  
July 2010 – June 2011

**PROFESSIONAL LICENSES AND BOARD CERTIFICATIONS**

The American Board of Anesthesiology  
Board Certified as of September 23, 2011 (Certification # 48209)  
Part 1 (Written) - PASSED August, 2010

Part 2 (Oral) – PASSED September 2011  
Pain Medicine – PASSED September 2013

### **ACADEMIC APPOINTMENTS**

Department of Neurosurgery – Comprehensive Spine Center  
Assistant Professor of Neurosurgery, Warren Alpert Medical School - Brown University  
Rhode Island Hospital  
12/2014 – Present

Mentorship to Alpert Medical School Students on PM&R and Neurology rotation and 2<sup>nd</sup>  
year students with regard to interviewing and physical exam skills (MSK, neurological,  
and cardiopulmonary)

### **HOSPITAL APPOINTMENTS**

Department of Anesthesiology  
Medical Director of the Pain Management Clinic (2013-14)  
Beth Israel Deaconess Hospital – Plymouth  
August 2011 – December 2014

Department of Neurosurgery – Comprehensive Spine Center  
Director of the Intrathecal Pump Program  
Rhode Island Hospital  
December 2014 – Present

### **HOSPITAL COMMITTEES**

Pain Committee 2018 - Present (Committee Chair)

Burnout and Resiliency Focus Group- RIH 2018

Palliative Care Committee 2017- Present

Fellowship Curriculum Committee 2010 - 2011

Operating Room Committee 2007 - 2010

Resident Liaison Committee 2007 - 2010

ICU Committee 2006 -2007

### **MEMBERSHIP IN SOCIETIES**

American Society of Anesthesiologists  
2007 – Present

American Society of Interventional Pain Physicians  
Vice President for the Rhode Island Society of Interventional Pain Physicians (2015 – Present)  
2010 – Present

## **PUBLICATION LIST**

### **PUBLICATIONS, PEER REVIEWED**

“Preoperative Surveillance Thoracic MRI for Thoracic Dorsal Column Stimulation: Case Series.” IPM Report 2018

Michael Nantz, Christopher Dicus, Brenden Hilliard, Srikanth Yellayi, Keith Scarfo, Shaomin Zou, James Hecker. "The benefit of hydrophobic domain asymmetry on the efficacy of transfection as measured by in vivo imaging" *Molecular Pharmaceutics*

Shaomin Zou , Keith Scarfo, Michael H. Nantz , and James G. Hecker. “Lipid-mediated delivery of RNA is more efficient than delivery of DNA in non-dividing cells.” *International Journal of Pharmaceutics* April 2010 Vol 389: 232-243.

Ellen S. Hauck, Shaomin Zou, Keith Scarfo, Michael H. Nantz, and James G. Hecker. “Whole Animal *In Vivo* Imaging After Transient, Nonviral Gene delivery to the Rat Central Nervous System.” *Molecular Therapy* November 2008 16(11): 1857–1864.

James G. Hecker, Gideon O. Berger , Keith A. Scarfo , Shaomin Zou , Michael H. Nantz. “A Flexible Method for the Conjugation of Aminoxy Ligands to Preformed Complexes of Nucleic Acids and Lipids” *ChemMEDChem* July 2008 3(9): 1356-1361.

McCarter, T., Shaik, Z., Scarfo, K., Thompson, L., “Capnography Monitoring Enhances Safety of Postoperative Patient-Controlled Analgesia.” *American Health & Drug Benefits* June 2008: 28-35.

Cummins, T.R. and Scarfo, K. “The pentapeptide QYNAD does not block voltage-gated sodium channels.” *Neurology* (2002) Vol 60: 224-229.

### **PUBLICATIONS, NON-PEER REVIEWED**

Invite author to blog with regard to “Snow Shoveling Techniques and Back Injuries” January 2017, “Chronic Back Pain and Its Management”, July 2027 for Rhode Island Hospital

Advised with regard to the revision of workers compensation guidelines for the State of Rhode Island for injections in the management of spinal pain, 2016

### **BOOK CHAPTERS**

Scarfo, K. Opioid induced Hyperalgesia Syndrome. In: Comprehensive Pain Management in the Rehabilitation Patient. A Carayannopoulos, 2017 (Author of Chapter 31, Opioid Induced Hyperalgesia Syndrome)

Hecker, J.G., Baranov, D., McClung, H., Kelton, T., Scarfo, K. Neurologic Diseases. In: Anesthesia and Uncommon Diseases. LA. Fleisher, Editor, Elsevier. 2006 (Co-author of Chapter 6, Neurologic Diseases)

## **ABSTRACTS**

Scarfo, K., Carayannopoulos, A., Grande, G., Yates, A, Coombs, M., Scarfo, K. “Intrathecal Pump Management: the Cost Effectiveness of Compounded Drugs verses Monotherapy.” From Proceedings of the 2017 Annual Meeting of the International Neuromodulation Society.

Taicher, B., Scarfo, K., Gandhi, K., Viscusi, E., “Economic Perspective of Three Common Analgesic Modalities for Total Knee Arthroplasty.” From Proceedings of the 2010 Annual Meeting of the America Society of Regional Anesthesia.

Scarfo, K., Taicher, B., Gandhi, K., Viscusi, E., “Health Care Resource Utilization: A Comparison of 3 Analgesic Modalities for Total Knee Arthroplasty.” From Proceedings of the 2010 Annual Meeting of the International Anesthesia Research Society (Abstract #486).

Scarfo, K., Viscusi, E., Kenndey, E., “Does intraoperative administration of dexmetatodine reduce postoperative pain and opioid requirements?” From Proceedings of the 2009 Annual Meeting of the American Society Anesthesiologists.

McCarter, T., Shaik, Z., Scarfo, K., Thompson, L., “End-Tidal Carbon Dioxide Monitoring in Patient Controlled Analgesia” *AARC* May 2007

## **INVITED PRESENTATIONS**

Speaker on opioid management  
Interdisciplinary Spine Conference, Warren Alpert Medical School, September 29, 2018

Panel member and speaker on treatment of lumbar disc herniation and low back pain  
Interdisciplinary Spine Conference, Warren Alpert Medical School, October 1, 2016

Speaker on capnography “The Safety Benefits of Continuous Monitoring During PCA”  
Webcast for over 100 hospitals. April 18, 2007

