

# Kevin Barrette, MD, MBA

Division Head: Interventional Pain  
Orthopedic Surgery: Scripps Clinic Medical Group  
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## **EDUCATION AND TRAINING:**

- Fellowship: Interventional Spine, Stanford University  
Stanford, CA 08/2019 – 08/2020  
Best Fellow Abstract Award, Spine Intervention Society (SIS)
- Residency: Physical Medicine and Rehabilitation, Stanford University  
Stanford, CA 07/2016 – 06/2019  
Chief Resident  
Peter T. Singleton Resident Award
- Internship: Kaiser Permanente Preliminary Internal Medicine  
San Francisco, CA 06/2015 – 06/2016
- Medical School (MD): Boston University School of Medicine  
Boston, MA 08/2011 – 05/2015
- Business School (MBA): Quantic School of Business and  
Technology 09/2022 – 11/2023  
Washington, D.C.
- Undergraduate Education (BA): Boston University, Boston, MA 08/2007– 05/2011  
B.A. with distinction in Biochemistry and Molecular Biology

## **CURRENT POSITION:**

- Attending Physician, Division Head of Interventional Pain, Orthopedic Surgery, 08/2021 - present  
Scripps Clinic Medical Group  
La Jolla, CA

## **PAST POSITIONS:**

- Assistant Professor of Clinical Neurological Surgery, University of California San Francisco 10/2020 – 07/2021  
San Francisco, CA

▪Clinical Instructor of Orthopaedic Surgery, Stanford University  
Stanford, CA 08/2019 – 08/2020

▪Chief Medical Officer, Dorsal Health  
New York, NY 10/2021 – 06/2024

**CERTIFICATIONS AND LICENSURE:**

▪United States Medical Licensing Examination (USMLE) Steps 1-3 2013-2016  
▪Physician and Surgeon State License – California 2016 – Present  
▪DEA License 2016 – Present  
▪Fluoroscopy Supervisor and Operator – California 2019 – Present  
▪Physical Medicine and Rehabilitation Board (ABPM&R) Diplomate 2020 – Present  
  
▪American Board of Pain Medicine (ABPM) Diplomate 2022 – Present

**PROFESSIONAL MEMBERSHIP AND ACTIVITIES:**

▪North American Spine Society (NASS) 2017 – present  
▪International Pain and Spine Intervention Society (IPSI) 2018 – present  
▪American Academy of Physical Medicine and Rehabilitation (AAPM&R) 2016 – present  
▪Pacific Spine and Pain Society (PSPS) 2020 – present  
▪Academic Orthopaedic Consortium (AOC) 2020 – present

**HONOR AND AWARDS:**

▪International Pain and Spine Intervention Society Outstanding Volunteer 2025  
▪Intracept Center of Excellence (first in Southern California) 2024  
▪Scripps Clinic Medical Group Research Grant Award x2 2021  
▪AAPM&R Annual Assembly Spotlight Presentation 2020  
▪Spine Intervention Society Annual Meeting Best Fellow Abstract Award 2020  
▪Spine Intervention Society Annual Meeting Podium Presentation x2 2020  
▪Peter T. Singleton Resident Award – Stanford PM&R 2019  
▪Chief Resident – Stanford PM&R 2018 - 2019  
▪National Eye Institute Travel Award, ARVO Annual Meeting 2013  
▪Serchuck Award, Boston University School of Medicine Medical Student 2013  
▪Medical Student Summer Research Award, Boston University School of Medicine 2012  
▪Academic Achievement Award in Biochemistry and Molecular Biology 2011  
▪Phi Beta Kappa National Honors Society, Boston University 2011  
▪Undergraduate Research Opportunities Award, Boston University 2010  
▪Daughters of the American Revolution Good Citizen Award 2007

## **COMMITTEE ASSIGNMENTS AND ADMINISTRATIVE SERVICE**

▪Interventional Pain and Spine Intervention Society Education Division	2025 - present
▪North American Spine Society Coverage Committee	2025 - present
▪North American Spine Society Abstract Reviewer	2023 - present
▪The Spine Journal Peer Reviewer	2023 - present
▪Interventional Pain and Spine Intervention Society Coverage Committee	2023 - present
▪Interventional Pain and Spine Intervention Society Research Committee	2023 - present
▪Scripps Clinic Orthopedic Operations Committee	2023 - present
▪Scripps Clinic Surgery Center Quality Improvement Committee	2023 - present
▪Scripps Clinic Surgery Center Medical Advisory Committee	2023 - present
▪Research and Education Committee, Scripps Clinic Medical Group	2021 - present
▪Residency Admissions Committee, Stanford PM&R	2019-2020
▪Resident Member – Education Committee, Stanford PM&R	2016-2019
▪Chief Resident – Stanford PM&R	2018-2019
▪Chief Resident Council - Stanford	2018-2019

## **PUBLICATIONS:**

### **Peer Reviewed Publications:**

1. Roy S, Trudeau K, Roy S, Tien T, **Barrette KF**. Mitochondrial dysfunction and endoplasmic reticulum stress in diabetic retinopathy: mechanistic insights into high glucose-induced retinal cell death. *Curr Clin Pharmacol*. 2013;8(4):278-84.
2. **Barrette Kevin**, Challyandra Lucky, Roy Sayon. Connexin 43 (Cx43) Upregulation Protects Retinal Endothelial Cells Against High Glucose Insult. *ARVO Meeting Abstracts*. 2013; 54:2689
3. Tien T, **Barrette KF**, Chronopoulos A, Roy S. Effects of high glucose-induced Cx43 downregulation on occludin and ZO-1 expression and tight junction barrier function in retinal endothelial cells. *Invest Ophthalmol Vis Sci*. 2013;54(10):6518-25.
4. Tien T, Muto T, **Barrette KF**, Challyandra L, Roy S. Downregulation of Connexin 43 promotes vascular cell loss and excess permeability associated with the development of vascular lesions in the diabetic retina. *Molecular Vision*. 2014;20:732-41.
5. **Barrette KF**, Perloff MD. Physical Medicine and Rehabilitation: The Changing Landscape of Residency and Career. *Am J Phys Med Rehabil*. 2017;96(2):131-132.
6. **Barrette, Kevin F**, Klima, Roger R; Functional Outcome 47 Years After Hand Salvage Surgery Involving Rib Bone Transfer: A Case Report. *PM&R*, Volume 9, Issue 9, S189
7. House LM, **Barrette K**, Mattie R, McCormick ZL. Cervical Epidural Steroid Injection: Techniques and Evidence. *Phys Med Rehabil Clin N Am*. 2018;29(1):1-17.

8. **Barrette K**, Levin J, Miles D, Kennedy DJ. The Value of Electrodiagnostic Studies in Predicting Treatment Outcomes for Patients with Spine Pathologies. *Phys Med Rehabil Clin N Am.* 2018;29(4):681-687.
9. **Barrette K**, Zheng, P, Smuck, M. What Does the Patient With Back Pain Want? A Comparison of Patient Expectations and Physician Assumptions. *Pain Medicine*, Volume 21, Issue 9, September 2020, Pages 2011–2044.
10. **Barrette K**, Khalil, J, Garfin, S, Smuck, M. A Prospective, Randomized, Multi-Center Study of Intraosseous Basivertebral Nerve Aug. 2020 Ablation for the Treatment of Chronic Low Back Pain: 12 Month Results. *Pain Medicine*, Volume 21, Issue 9, September 2020, Pages 2011–2044.
11. Levin J, Lowe A, Tamura L, Miller Olson, E, Koltsov, J, Kenrick, A, **Barrette, K**, Richardson, J. et al. Extensor digitorum brevis bulk and associations with fibular motor nerve conduction amplitude. *PM R.* Published online April 19, 2021.
12. Smuck M, Khalil J, **Barrette K**, et al. Prospective, randomized, multicenter study of intraosseous basivertebral nerve ablation for the treatment of chronic low back pain: 12-month results. *Reg Anesth Pain Med.* 2021;46(8):683-693.
13. Smuck M, **Barrette K**, Martinez-Ith A, Sultana G, Zheng P. What does the patient with back pain want? A comparison of patient preferences and physician assumptions. *Spine J.* Published online September 19, 2021:S1529-9430(21)00906-2.
14. Kenrick A, Chan J, Tamura L, Mohan M, **Barrette K**, Levin J. Spine—Radicular Pain. In: González-Fernández M, Schaaf S, Zumsteg JM, Perret D, Kennedy DJ, eds. *Handbook of Physical Medicine and Rehabilitation.* Springer Publishing Company; 2021:223-230. doi:10.1891/9780826162267.0023
15. **Barrette, K. F.**, Conger, A., Hirsch, J. A., & McCormick, Z. L. (2024). Intraosseous Basivertebral Nerve Ablation for Vertebrogenic Pain. In *Essentials of interventional techniques in managing chronic pain* (pp. 561–577). chapter, Springer.

## **PRESENTATIONS:**

### **Oral Presentations:**

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| ▪Intracapt® 101 at IPSIS 2025  | Sept. 2025 |
| ▪Basivertebral Nerve Ablation Updates at IPSIS 2025  | Sept. 2025 |
| ▪Chronic Pain Management for the Primary Care Physician (Regional Conference)  | Aug 2025   |
| ▪Basivertebral Nerve Ablation Fellows Course   | Jun 2025   |
| ▪Intracapt® Insiders   | May 2025   |
| ▪Intracapt® updates at the Spine Intervention Society (SIS International Conference)   | Sept. 2023 |
| ▪The Intracapt® Procedure for the Relief of Chronic Vertebrogenic Low Back Pain  | Jun. 2022  |
| ▪Barrette, K.: Nonoperative Spine Interventions: Indications and Techniques for Radiofrequency Ablation of the Cervical Spine. <i>AudioDigest Orthopaedics</i> 44:23 (December 7) 2021 | Dec. 2021  |
| ▪Barrette, K.: Nonoperative Spine Care for Back Pain. <i>AudioDigest Family Medicine</i> 69:44 (November 28) 2021  | Nov. 2021  |

- Introduction to Interventional Pain – Scripps Sep. 2021
- Barrette, K.: Update on Epidural Injections for Pain Management. AudioDigest Orthopaedics 44:18 (September 21) 2021 Sep. 2021
- Barrette, K.: Nonoperative Spine Care for Back Pain. AudioDigest Orthopaedics 44:15 (August 7) 2021 Aug. 2021
- Non-operative Management of Spinal Conditions – UCSF Residency Lecture Mar. 2021
- A Prospective, Randomized, Multi-Center Study of Intraosseous Basivertebral Nerve Ablation for the Treatment of Chronic Low Back Pain: 12 Month Results – AAPM&R Annual Assembly “Spotlight Presentation” Nov. 2020
- What Does the Patient With Back Pain Want? A Comparison of Patient Expectations and Physician Assumptions – SIS Annual Meeting “Best Fellow Abstract” Aug. 2020
- A Prospective, Randomized, Multi-Center Study of Intraosseous Basivertebral Nerve Ablation for the Treatment of Chronic Low Back Pain: 12 Month Results - SIS Annual Meeting Podium Presentation Aug. 2020
- What Do Patients With Back Pain Want? Stanford Grand Rounds Jul. 2020
- MRI Imaging of the Spine – Stanford Residency Lecture Series Jun. 2020
- Spinal Infections - Stanford Residency Lecture Series Apr. 2020
- Introduction to Fluoroscopy and Needle Driving - Stanford Residency Lecture Series Mar. 2020
- Lumbar Transforaminal Epidural Steroid Injection Techniques - Stanford Residency Lecture Series Nov. 2019
- Evidence, Physics, and Techniques for Radiofrequency Ablation - Stanford Residency Lecture Series Sep. 2019
- Ultrasound Guidance for Hip Injection Course for Orthopaedic Surgery Residents – Course Co-director Sep. 2019
- Ultrasound Injection Cadaver Course for PM&R Residents – Course co-director Sep. 2019
- Patient Characteristics Associated with Medial Branch Blocks and Radiofrequency Ablation Aug. 2019
- Transcranial Magnetic Stimulation in Spinal Cord Injury Jun. 2019
- EMG in Neuromuscular Junction Disorders May 2019
- Radiofrequency Ablation and Medial Branch Blocks: Practice Patterns Apr. 2019
- Regenerative Medicine, Techniques and Theory Dec. 2018
- EMG Techniques Workshop, Stanford University – Course Director Nov. 2018
- Ultrasound Evaluation of the Shoulder and Knee, Stanford University “Ultrafest” Oct. 2019
- Update on Spine Medicine, Resident Sports/Spine Conference, Stanford Jul. 2018
- Residency Program Improvement Workshop, Stanford University May 2018
- Predictive Value of Electrodiagnostics in Management of Radiculopathy, Stanford University, Resident Research Day Apr. 2018
- Update on Sports Medicine, Resident Sports Conference, Stanford University Mar. 2018
- Pediatric Scoliosis, Pediatric Rehab Seminar, Children’s Hospital Oakland Nov. 2017

- Functional Outcome 47 Years After Hand Salvage Surgery Involving Rib Bone Transfer: Oct. 2017  
A Case Report
- Update on Spine Care, Resident Spine Conference, Stanford University Jul. 2017
- Update on Blood Pressure Goals After Acute Spinal Cord Injury, Palo Alto VA Jan. 2017  
Department of Spinal Cord Injury
- Sports Hernia, A Case Report: Stanford, University Dept. of PM&R Resident Lecture Series Sep. 2016

### **Media and Articles:**

- Bilodeau, Kelly. n.d. “Pain Management Takes New Forms to Curb Opioid Epidemic.” May 2024  
Www.Chausa.Org. Accessed July 2, 2024. <https://www.chausa.org/publications/health-progress/archive/article/summer-2024/pain-management-takes-new-forms-to-curb-opioid-epidemic>.
- Amy, Oshier. “New Procedure Shuts off Pain Signal from Spine to the Brain.” WINK Apr. 2024  
News, 1 Apr. 2024, [winknews.com/2024/04/01/new-procedure-shuts-off-pain-signal-from-spine-brain/](http://winknews.com/2024/04/01/new-procedure-shuts-off-pain-signal-from-spine-brain/). Accessed 6 Apr. 2024.
- Barrette, MD, Kevin. Www.spine-Health.com, 2 Jan. 2024, [www.spine-health.com/treatment/injections/basivertebral-nerve-ablation-lower-back-pain](http://www.spine-health.com/treatment/injections/basivertebral-nerve-ablation-lower-back-pain). Accessed 6 Apr. 2024.
- Beckworth, Jeremy, and Kevin Barrette. “Research Spotlight “Genicular Nerve Radiofrequency Ablation for the Treatment of Chronic Knee Joint Pain: A Real-World Cohort Study with Evaluation of Prognostic Factors.”” International Pain & Spine Intervention Society, 25 Jan. 2024.

### **Posters:**

- Barrette Kevin, Challyandra Lucky, Roy Sayon. Connexin 43 (Cx43) Upregulation Protects Retinal Endothelial Cells Against High Glucose Insult. ARVO Meeting Abstracts. 2013; 54:2689. ARVO Annual Meeting. Seattle, WA May 2013
- Barrette, Kevin F., Klima, Roger R; Functional Outcome 47 Years After Hand Salvage Surgery Involving Rib Bone Transfer: A Case Report. PM&R , Volume 9 , Issue 9 , S189. AAPM&R Annual Meeting, Denver, CO Oct. 2017
- Barrette, Kevin, Lersten, Michael, Tamura, Lyndly, Levin, Joshua. Patient Characteristics Associated with Medial Branch Blocks and Radiofrequency Ablation: A Retrospective Chart Review. Pain Medicine. SIS Annual Meeting. New York, NY Aug. 2019
- Michael Lersten, MD, Kevin F. Barrette, MD, Lyndly Tamura, MD, Nicole Segovia, BS, Joshua Levin, MD. Diagnostic Medial Branch Blocks Leading to Radiofrequency Ablation: A Retrospective Analysis of Practice Patterns. Pain Medicine. SIS Annual Meeting. New York, NY Aug. 2019
- Barrette, K, Khalil, J, Garfin, S, Smuck, M. A Prospective, Randomized, Multi-Center Study of Intraosseous Basivertebral Nerve Ablation for the Treatment of Chronic Low Back Pain: 12 Month Results. Nov. 2020

AAPM&R Annual Assembly “Spotlight Presentation”

▪Cyrus Ghaffari, MD, Kevin F. Barrette, MBA, MD; Christina M. Giacomazzi, DO; Nitin Nov. 2024  
K Prabhakar, MD; Lisa Huynh, MD; Matthew Smuck, MD; William Summers, MD;  
Byron Schneider, MD; Joshua Levin, MD. Intra-articular Cervical Facet Joint  
Corticosteroid Injections in Patients with Increased Peri-Facet MRI STIR Signal: A  
Prospective, Multi-center Observational Study.  
AAPM&R Annual Assembly. San Diego, CA.

### **ONGOING RESEARCH:**

- SPECT as a Diagnostic Tool for Facet-Mediated Pain
- Intra-articular cervical and lumbar zygapophyseal joint corticosteroid injections in the treatment of Z-joint synovitis
- Stanford Spine Keeper (cell phone application based Spine treatments)
- App-based program for medial branch block protocol
- Standard PT vs. Posture Training, a Randomized Control Trial with Wearable Health Technology

### **Leadership:**

- Division Head of Interventional Pain, Orthopedic Surgery, Scripps Clinic 2023 - present
- Chief Medical Officer, Dorsal Health 2021-2023
- Co-director, Stanford Ultrasound Cadaver Course 2019
- Chief Resident, Stanford PM&R 2018-2019
- Board/Founding Member, Stanford PM&R Interest Group 2018-2020
- Director, Doctor’s Notes A Cappella, Boston University School of Medicine 2012-2013
- Student Speaker at Commencement Ceremony, Boston University 2011
- President, Allegrettos A Cappella, Boston University 2009-2011
- Vice President, High School Class 2003-2007

### **Other Experiences:**

- Boston Scientific, Intracept Faculty – Expert Educator 2024-present
- Skilled Nursing Facility, Spherical Medical; Oakland, CA 2017-2019
- Post acute rehab, Integrative Physiatry; Long Beach, CA 2020
- Disability Examinations, MDSI; Ogden, UT 2020-2021
- Research Assistant, Medical Information Systems Unit, Boston University 2009-2011
- Actor, PBS Television show “Zoom”, WGBH Studios, Boston, MA 2000-2001