

David J. Kennedy, M.D.

Professor and Chair
Department of Physical Medicine and Rehabilitation
Vanderbilt University Medical Center
david.j.kennedy@vanderbilt.edu

Education:

08/96-12/99 Florida State University
Tallahassee, FL
Bachelor of Arts, Biology (Magna Cum Laude & Honors)

08/00-05/04 University of Florida, College of Medicine
Gainesville, FL
Doctor of Medicine

Post Graduate Training:

07/04-06/05 Tulane University
New Orleans, LA
Transitional Internship, Department of Family Medicine

07/05-06/08 University of Washington
Seattle, WA
PM&R Resident, Division of Rehabilitation

07/07-06/08 University of Washington
Seattle, WA
Chief Resident, Department of Rehabilitation

07/08-06/09 Northwestern University
Rehabilitation Institute of Chicago
Chicago, IL
Sports and Spine Fellow, Rehabilitation Institute of Chicago

Faculty Appointments:

09/09-04/12 Assistant Professor
Department of Orthopaedics and Rehabilitation Medicine
University of Florida College of Medicine
Gainesville, FL

05/12-11/2015	Clinical Assistant Professor Department of Orthopaedics Stanford University Palo Alto, CA
11/2015-2/2018	Clinical Associate Professor Department of Orthopaedics Stanford University Palo Alto, CA
4/2018-Current	Professor Department of Physical Medicine and Rehabilitation Vanderbilt University Medical Center Nashville, TN

Faculty Positions:

1/2013-2015	Associate PM&R Residency Program Director Department of Orthopaedics Stanford University Palo Alto, CA
1/2015-2/2018	PM&R Residency Program Director Department of Orthopaedics Stanford University Palo Alto, CA
4/2018-Current	Chair Department of Physical Medicine and Rehabilitation Vanderbilt University Medical Center Nashville, TN

Professional Society Board Positions:

Association of Academic Physiatrists

2011-2017	Board of Trustees <i>Member at Large (2011-2014)</i> <i>Chair of Membership Committee (2015-2017)</i>
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Spine Intervention Society

2013-Current	Board of Directors <i>Standards Division Chair 2013-2015</i> <i>Treasurer 2015-2017</i> <i>Secretary 2017-2019</i>
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American Academy of Physical Medicine and Rehabilitation
2015-Current Board of Governors
Member at Large 2015-2019

Journal Editorial Positions:

Senior Editor

2015-Current PM&R the Journal of Injury, Function and Rehabilitation

Editorial Board

2012- Current Pain Medicine
Spine Section Editorial Board

2012-2015 PM&R the Journal of Injury, Function and Rehabilitation
Associate Editor
Co-Editor of the Point/Counterpoint Section

Guest Editor

2011 Radiculopathy Issue.
Physical Medicine and Rehabilitation Clinics of North America.
January, 2011, Volume 22, Number 1.

2012 Supplement on Osteoarthritis
PM&R Journal
Osteoarthritis Issue. 2012; 4 (5 Suppl)

2015 Spine Injections
Current Physical Medicine and Rehabilitation Reports

2016 Co-Editor: Spine Injections
Current Physical Medicine and Rehabilitation Reports

2018 Posterior Pelvic Pain Supplement
PM&R Journal – *Publication Pending*

Grants Awarded:

2009 International Spine Intervention Society Research Grant
\$70,000.00
“Comparative Effectiveness of Lumbar Transforaminal Epidural Steroid Injections with Particulate versus Non-Particulate Corticosteroids for Lumbar Radicular Pain: a Randomized, Double Blinded, Controlled Trial.”
Role: PI

- 2012 Agency for Healthcare Research and Quality (AHRQ) Center for Outcomes and Evidence via the University of Washington.
“Lumbar Epidural Steroid for Spinal Stenosis and Multicenter Randomized Trial.”
ClinicalTrials.gov Identifier: NCT01238536
Role: Co-Site PI for Stanford University
- 2012 Cytonics Corporation
\$283,000
“Joint Pain and Inflammatory Biomarkers in Orthopedic Patients”
Role: Co-Investigator
- 2013 International Spine Intervention Society Research Grant
\$16,000
“Efficacy of Intra-Articular Corticosteroids for Dual Block Confirmed Lumbar Zygapophyseal Joint Pain; A Randomized, Double Blinded, Placebo Controlled Trial.” A multi-institutional study.
Role: PI
- 2015 Spine Intervention Society
\$5,000
“Does lumbar discography cause accelerated progression of disc degeneration in symptomatic low back pain patients: A multi-center ten-year longitudinal study”
Role: Co-Investigator
- 2016 Allergan Pain Management and Spine Care Research Grant Award
\$10,000 (Faculty mentor and PI for Ryan Mattie, MD)
“Comparing Patient Activity Measure Before and After Epidural Steroid Injection for Radicular Pain Using a Wearable Digital Activity Monitor”
- 2017 Spine Intervention Society
\$59,289
“Does Lumbar Discography Cause Accelerated Progression of Disc Degeneration in Symptomatic Low Back Pain Patients: A Long-term Matched-Cohort Study.”
Role: Co-Investigator

Scholarly Publications:

Peer Reviewed Journal Articles

1. Krabak B, Kennedy DJ.
Functional rehabilitation of lumbar spine injuries in the athlete.
Sports Med Arthrosc. 2008 Mar;16(1):47-54.
doi: 10.1097/JSA.0b013e318164c431.

PMID: 18277262

2. **Kennedy DJ**, Visco CJ, Press J.
Current concepts for shoulder training in the overhead athlete.
Curr Sports Med Rep. 2009 May-Jun;8(3):154-60.
doi: 10.1249/JSR.0b013e3181a64607.
PMID:19436172
3. **Kennedy DJ**, Dreyfuss P, Aprill CN, Bogduk N.
Paraplegia following image-guided transforaminal lumbar spine epidural steroid injection: two case reports.
Pain Med. 2009 Nov;10(8):1389-94.
doi: 10.1111/j.1526-4637.2009.00728.x. Epub 2009 Oct 26.
PMID:19863744
4. Smuck M, Maxwell MD, **Kennedy D**, Rittenberg JD, Lansberg MG, Plastaras CT.
Utility of the anesthetic test dose to avoid catastrophic injury during cervical transforaminal epidural injections.
Spine J. 2010 Oct;10(10):857-64.
doi: 10.1016/j.spinee.2010.07.003. Epub 2010 Aug 6.
PMID: 20692210
5. **Kennedy DJ**, Shokat M, Visco CJ.
Sacroiliac joint and lumbar zygapophysial joint corticosteroid injections.
Phys Med Rehabil Clin N Am. 2010 Nov;21(4):835-42.
doi: 10.1016/j.pmr.2010.06.009.
PMID: 20977966
6. **Kennedy DJ**, Noh MY.
The role of core stabilization in lumbosacral radiculopathy.
Phys Med Rehabil Clin N Am. 2011 Feb;22(1):91-103.
doi: 10.1016/j.pmr.2010.12.002.
PMID:21292147
7. Visco CJ, Cheng DS, **Kennedy DJ**.
Pharmaceutical therapy for radiculopathy.
Phys Med Rehabil Clin N Am. 2011 Feb;22(1):127-37.
doi: 10.1016/j.pmr.2010.11.003. Epub 2010 Dec 30.
PMID:21292149
8. **Kennedy DJ**, Fredericson M.
It is the most common form of arthritis and the leading cause of disability in older persons, affecting an estimated 27 million adults in the United States alone. Introduction.
PM R. 2012 May;4(5 Suppl):S1-2.
doi: 10.1016/j.pmrj.2012.03.003.

PMID:22632686

9. **Kennedy DJ**, Segal NA.
Conclusion.
PM R. 2012 May;4(5 Suppl):S174-5.
doi: 10.1016/j.pmrj.2012.03.004.
PMID:22632697
10. Cohen SP, Maus T, **Kennedy DJ**.
The need for magnetic resonance imaging before epidural corticosteroid injection.
PM R. 2013 Mar;5(3):230-7.
doi: 10.1016/j.pmrj.2013.02.002.
PMID: 23481331
11. Visco CJ, **Kennedy DJ**, Chimes GP, Rittenberg J, McLean J, Dawson P, Margolis S, Lento P, Ihm J, Sliwa J, Smeal W, Sorosky B, Plastaras C.
Programmatic design for teaching the introductory skills and concepts of lumbar spine procedures to physiatry residents: a prospective multiyear study.
Am J Phys Med Rehabil. 2013 Mar;92(3):248-57.
doi: 10.1097/PHM.0b013e31826eda9e.
PMID: 23051759
12. Robinson LR, Strakowski J, **Kennedy DJ**.
Is the combined sensory (Robinson) index routinely indicated for all cases of suspected carpal tunnel syndrome undergoing electrodiagnostic evaluation?
PM R. 2013 May;5(5):433-7.
doi: 10.1016/j.pmrj.2013.04.007.
PMID: 23701980
13. DePalma MJ, Stout A, **Kennedy DJ**.
Corticosteroid choice for epidural injections.
PM R. 2013 Jun;5(6):524-32.
doi: 10.1016/j.pmrj.2013.05.017.
PMID: 23790821
14. Mayer EK, Ihm JM, Sibell DM, Press JM, **Kennedy DJ**.
ACGME sports, ACGME pain, or non-ACGME sports and spine: which is the ideal fellowship training for PM&R physicians interested in musculoskeletal medicine?
PM R. 2013 Aug;5(8):718-23; discussion 723-5.
doi: 10.1016/j.pmrj.2013.07.004.
PMID: 23953018
15. Rho M, Mautner K, Nichols JT, **Kennedy DJ**.

- Image-guided diagnostic injections with anesthetic versus magnetic resonance arthrograms for the diagnosis of suspected hip pain.
PM R. 2013 Sep;5(9):795-800.
doi: 10.1016/j.pmrj.2013.07.008.
PMID: 24054855
16. Conrad BP, Shokat MS, Abbasi AZ, Vincent HK, Seay A, **Kennedy DJ**.
Associations of self-report measures with gait, range of motion and proprioception in patients with lumbar spinal stenosis.
Gait Posture. 2013 Sep;38(4):987-92.
doi: 10.1016/j.gaitpost.2013.05.010. Epub 2013 Jun 26.
PMID: 23810090
17. **Kennedy DJ**, Baker RM, Rathmell JP.
Use of spinal injections for low back pain.
JAMA. 2013 Oct 23;310(16):1736.
doi: 10.1001/jama.2013.277957.
PMID: 24150473
18. O'Brien D Jr, Cohen I, **Kennedy DJ**.
Compounding pharmacies: a viable option, or merely a liability?
PM R. 2013 Nov;5(11):974-81.
doi: 10.1016/j.pmrj.2013.10.001.
PMID: 24247017
19. Esselman PC, White BF, Chimes GP, **Kennedy DJ**.
Patient satisfaction surveys: tools to enhance patient care or flawed outcome measures?
PM R. 2013 Dec;5(12):1069-76.
doi: 10.1016/j.pmrj.2013.10.012
PMID: 24332230
20. **Kennedy DJ**, Schneider B, Casey E, Rittenberg J, Conrad B, Smuck M, Plastaras CT.
Vasovagal rates in fluoroscopically guided interventional procedures: a study of over 8,000 injections.
Pain Med. 2013 Dec;14(12):1854-9.
doi: 10.1111/pme.12241. Epub 2013 Oct 4.
PMID: 24118835
21. Furman MB, Melvin JL, **Kennedy DJ**.
Do physiatric procedures represent a value or liability?
PM R. 2014 Jan;6(1):85-91.
doi: 10.1016/j.pmrj.2013.12.002.
PMID: 24439151

22. Aggarwal SK, Pangarkar S, Carter GT, Tribuzio B, Miedema M, **Kennedy DJ**. Medical marijuana for failed back surgical syndrome: a viable option for pain control or an uncontrolled narcotic?
PM R. 2014 Apr;6(4):363-72.
doi: 10.1016/j.pmrj.2014.03.006.
PMID: 24766854
23. **Kennedy DJ**, Plastaras C, Casey E, Visco CJ, Rittenberg JD, Conrad B, Sigler J, Dreyfuss P.
Comparative effectiveness of lumbar transforaminal epidural steroid injections with particulate versus nonparticulate corticosteroids for lumbar radicular pain due to intervertebral disc herniation: a prospective, randomized, double-blind trial.
Pain Med. 2014 Apr;15(4):548-55.
doi: 10.1111/pme.12325. Epub 2014 Jan 2.
PMID: 24393129
24. Furman MB, Plastaras CT, Popescu A, Tekmyster G, Davidoff S, **Kennedy DJ**. Should antiplatelet medications be held before cervical epidural injections?
PM R. 2014 May;6(5):442-50.
doi: 10.1016/j.pmrj.2014.04.012.
PMID: 24863733
25. Engel AJ, **Kennedy DJ**, MacVicar J, Bogduk N.
Not all injections are the same.
Anesthesiology. 2014 May;120(5):1282-3.
doi:10.1097/ALN.000000000000197..
PMID: 24755794
26. Smuck M, Crisostomo RA, Demirjian R, Fitch DS, **Kennedy DJ**, Geisser ME.
Reply to letter to the editor "Morphologic changes in the lumbar spine following lumbar medial branch radiofrequency neurotomy: a quantitative radiologic study".
Spine J. 2014 Jun 1;14(6):1089-90.
doi: 10.1016/j.spinee.2014.02.001.
PMID: 24851740
27. Petersohn JD, Maus TP, Summers JT, Baker RM, Bainbridge JS, **Kennedy DJ**.
Re: Fisher CG, Vaccaro AR, Prasad SK, et al. Evidence-based recommendations for spine surgery. Spine (Phila Pa 1976) 2014;39:E52-9.
Spine (Phila Pa 1976). 2014 Jun 1;39(13):1091.
doi: 10.1097/BRS.0000000000000348.
PMID:24875900
28. Goodman BS, Sowa GA, Buzanowska M, Willey MR, Smith MT, Mallempati S, **Kennedy DJ**.

- Intradiskal steroids: a viable treatment for low back pain?
PM R. 2014 Jun;6(6):547-55.
doi: 10.1016/j.pmrj.2014.05.006.
PMID: 24952765
29. Crew J, Gittler M, **Kennedy DJ**.
The value of maintaining primary board certification in physical medicine and rehabilitation.
PM R. 2014 Jul;6(7):650-5.
doi: 10.1016/j.pmrj.2014.06.007.
PMID:25059899
30. Friedly JL, Comstock BA, Turner JA, Heagerty PJ, Deyo RA, Sullivan SD, Bauer Z, Bresnahan BW, Avins AL, Nedeljkovic SS, Nerenz DR, Standaert C, Kessler L, Akuthota V, Annaswamy T, Chen A, Diehn F, Firtch W, Gerges FJ, Gilligan C, Goldberg H, **Kennedy DJ**, Mandel S, Tyburski M, Sanders W, Sibell D, Smuck M, Wasan A, Won L, Jarvik JG.
A randomized trial of epidural glucocorticoid injections for spinal stenosis.
N Engl J Med. 2014 Jul 3;371(1):11-21.
doi: 10.1056/NEJMoa1313265. Erratum in: N Engl J Med. 2014 Jul 24;371(4):390.
PMID:24988555
31. Schneider B, **Kennedy DJ**, Casey E, Smuck M, Conrad B, Plastaras C Trainee involvement in transforaminal epidural steroid injections associated with increased incidence of vasovagal reactions.
PM R. 2014 Oct;6(10):914-9.
doi: 10.1016/j.pmrj.2014.04.003. Epub 2014 Apr 20.
PMID:24755514
32. Cheng I, Ho S, **Kennedy DJ**.
Electrodiagnostic testing before surgery for spinal stenosis.
PM R. 2014 Oct;6(10):945-50.
doi: 10.1016/j.pmrj.2014.09.010. Epub 2014 Oct 22.
PMID:25441719
33. Smuck M, Levin J, Zemper E, Ali A, **Kennedy DJ**.
A quantitative study of intervertebral disc morphologic changes following plasma-mediated percutaneous discectomy.
Pain Med. 2014 Oct;15(10):1695-703.
doi: 10.1111/pme.12525. Epub 2014 Sep 4.
PMID:25186460
34. Paulus S, **Kennedy DJ**.
Return to play considerations for cervical spine injuries in athletes.

- Phys Med Rehabil Clin N Am. 2014 Nov;25(4):723-33.
doi: 10.1016/j.pmr.2014.06.005. Epub 2014 Aug 17.
PMID:25442156
35. **Kennedy DJ**, Plastaras C, Casey E, Visco CJ, Rittenberg JD, Conrad B, Sigler J, Dreyfuss P.
Response to Dr. Candido et al.
Pain Med. 2014 Nov;15(11):1977-8.
doi: 10.1111/pme.12573. Epub 2014 Oct 23.
PMID: 25338774
36. McCormick Z, Cushman D, Casey E, Garvan C, **Kennedy DJ**, Plastaras C.
Factors associated with pain reduction after transforaminal epidural steroid injection for lumbosacral radicular pain.
Arch Phys Med Rehabil. 2014 Dec;95(12):2350-6.
doi: 10.1016/j.apmr.2014.07.404. Epub 2014 Aug 7.
PMID: 25108099
37. McCormick Z, Margolis S, Temme K, Rivers E, Cameron SA, Smith MC, Rohr A, Zander E, Garvan C, **Kennedy DJ**, Plastaras C.
Concordant pain provocation during transforaminal epidural steroid injection for lumbosacral radiculopathy: effect on pain outcome and predictive factors.
Pain Physician. 2015 Jan-Feb;18(1):E19-26.
PMID: 25675066
38. King W, Ahmed SU, Baisden J, Patel N, **Kennedy DJ**, Duszynski B, MacVicar J.
Diagnosis and treatment of posterior sacroiliac complex pain: a systematic review with comprehensive analysis of the published data.
Pain Med. 2015 Feb;16(2):257-65. doi: 10.1111/pme.12630. Review. Erratum in: Pain Med. 2015 Nov;16(11):2216. Duszynski, Belinda [added].
PMID: 25677327
39. The use of moderate sedation for the secondary prevention of adverse vasovagal reactions.
Kennedy DJ, Schneider B, Smuck M, Plastaras CT.
Pain Med. 2015 Apr;16(4):673-9.
doi: 10.1111/pme.12632. Epub 2014 Dec 19.
PMID: 25529469
40. Finnoff JT, Costouros JG, **Kennedy DJ**.
Is ultrasound guidance needed for shoulder injections?
PM R. 2015 Apr;7(4):435-42.
doi: 10.1016/j.pmrj.2015.03.011.
PMID: 25890640

41. Colizza WA, Ibrahim V, **Kennedy DJ**.
Advanced knee osteoarthritis in an active male: biologics or total knee replacement.
PM R. 2015 Apr;7(4 Suppl):S60-5.
doi: 10.1016/j.pmrj.2015.02.009.
PMID: 25864662
42. **Kennedy DJ**, Levin J, Rosenquist R, Singh V, Smith C, Stojanovic MP, Vorobeychik Y.
Epidural Steroid Injections are Safe and Effective: Multisociety Letter in Support of the Safety and Effectiveness of Epidural Steroid Injections.
Pain Med. 2015 May;16(5):833-8.
doi: 10.1111/pme.12667. Epub 2015 Jan 13.
PMID: 25586082
43. Smuck M, Crisostomo RA, Demirjian R, Fitch DS, **Kennedy DJ**, Geisser ME.
Morphologic changes in the lumbar spine after lumbar medial branch radiofrequency neurotomy: a quantitative radiological study.
Spine J. 2015 Jun 1;15(6):1415-21.
doi: 10.1016/j.spinee.2013.06.096. Epub 2013 Nov 14.
PMID: 24239488
44. Stegemöller EL, Roper J, Hass CJ, **Kennedy DJ**.
Changes in gait kinematics and lower back muscle activity post-radiofrequency denervation of the zygapophysial joint: a case study.
Spine J. 2015 Jun 1;15(6):e21-7.
doi: 10.1016/j.spinee.2013.06.061. Epub 2013 Oct 10.
PMID: 24120824
45. McCormick Z, Cushman D, Caldwell M, Marshall B, Ghannad L, Eng C, Patel J, Makovitch S, Chu SK, Babu AN, Walega DR, Marciniak C, Press J, **Kennedy DJ**, Plataras C.
Does Electrodiagnostic Confirmation of Radiculopathy Predict Pain Reduction after Transforaminal Epidural Steroid Injection? A Multicenter Study.
J Nat Sci. 2015 Aug;1(8). pii: e140.
PMID: 26251843
46. **Kennedy DJ**, Engel A, Kreiner DS, Nampiaparampil D, Duszynski B, MacVicar J.
Fluoroscopically Guided Diagnostic and Therapeutic Intra-Articular Sacroiliac Joint Injections: A Systematic Review.
Pain Med. 2015 Aug;16(8):1500-18.
doi: 10.1111/pme.12833. Epub 2015 Jul 14. Review.
PMID: 26178855
47. **Kennedy DJ**, Mattie R, Nguyen Q, Hamilton S, Conrad B.
Glenohumeral Joint Pain Referral Patterns: A Descriptive Study.

- Pain Med. 2015 Aug;16(8):1603-9.
doi: 10.1111/pme.12797. Epub 2015 Jul 16.
PMID:26184392
48. Plastaras C, McCormick ZL, Garvan C, Macron D, Joshi A, Chimes G, Smeal W, Rittenberg J, **Kennedy DJ**.
Adverse events associated with fluoroscopically guided lumbosacral transforaminal epidural steroid injections.
Spine J. 2015 Oct 1;15(10):2157-65.
doi: 10.1016/j.spinee.2015.05.034. Epub 2015 Jun 9.
PMID:26065819
49. Smuck M, Paulus S, Patel A, Demirjian R, Ith MA, **Kennedy DJ**.
Differential Rates of Inadvertent Intravascular Injection during Lumbar Transforaminal Epidural Injections Using Blunt-Tip, Pencil-Point, and Catheter-Extension Needles.
Pain Med. 2015 Nov;16(11):2084-9.
doi: 10.1111/pme.12861. Epub 2015 Oct 7.
PMID: 26442619
50. McCormick Z, **Kennedy DJ**, Garvan C, Rivers E, Temme K, Margolis S, Zander E, Rohr A, Smith MC, Plastaras C.
Comparison of Pain Score Reduction Using Triamcinolone vs. Betamethasone in Transforaminal Epidural Steroid Injections for Lumbosacral Radicular Pain.
Am J Phys Med Rehabil. 2015 Dec;94(12):1058-64.
doi: 10.1097/PHM.0000000000000296.
PMID: 25888660
51. McCormick Z, **Kennedy DJ**, Garvan C, Rivers E, Temme K, Margolis S, Zander E, Rohr A, Smith MC, Plastaras C.
Response to: Letter to the Editor Regarding Comparison of Pain Score Reduction Using Triamcinolone vs. Betamethasone in Transforaminal Epidural Steroid Injections for Lumbosacral Radicular Pain. McCormick Z et al. Am J Phys Med Rehabil 2015 Apr 16 [EPUB AHEAD OF PRINT].
Am J Phys Med Rehabil. 2015 Dec;94(12):e122-4.
doi: 10.1097/PHM.0000000000000379.
PMID: 26334424
52. **Kennedy DJ**.
Response to Letter by Dr. Lipetz.
Pain Med. 2016 Jan;17(1):190-1.
PMID: 26272826
53. Mattie R, **Kennedy DJ**.

- Importance of Image Guidance in Glenohumeral Joint Injections: Comparing Rates of Needle Accuracy Based on Approach and Physician Level of Training.
Am J Phys Med Rehabil. 2016 Jan;95(1):57-61.
doi: 10.1097/PHM.0000000000000338.
PMID: 26135365
54. El-Yahchouchi CA, Plastaras CT, Maus TP, Carr CM, McCormick ZL, Geske JR, Smuck M, Pingree MJ, **Kennedy DJ**.
Adverse Event Rates Associated with Transforaminal and Interlaminar Epidural Steroid Injections: A Multi-Institutional Study.
Pain Med. 2016 Feb;17(2):239-49.
PMID: 26593277
55. McCormick ZL, Slipman C, Kotcharian A, Chhatre A, Bender FJ 3rd, Salam A, Menkin S, **Kennedy DJ**, Plastaras C.
Percutaneous Lumbar Disc Decompression Using the Dekompressor: A Prospective Long-Term Outcome Study.
Pain Med. 2016 Feb 25. pii: pnv122. [Epub ahead of print]
PMID: 26917626
56. **Kennedy DJ**, Mattie R, Scott Hamilton A, Conrad B, Smuck M.
Detection of Intravascular Injection During Lumbar Medial Branch Blocks: A Comparison of Aspiration, Live Fluoroscopy, and Digital Subtraction Technology.
Pain Med. 2016 Jun;17(6):1031-1036. Epub 2016 Jan 6.
PMID: 26814308
57. Vorobeychik Y, Sharma A, Smith CC, Miller DC, Stojanovic MP, Lobel SM, Valley MA, Duszynski B, **Kennedy DJ**.
The Effectiveness and Risks of Non-Image-Guided Lumbar Interlaminar Epidural Steroid Injections: A Systematic Review with Comprehensive Analysis of the Published Data.
Pain Med. 2016 Dec;17(12):2185-2202.
doi: 10.1093/pm/pnw091. Epub 2016 Jun 10. Review.
PMID: 28025354
58. Schneider B, Zheng P, Mattie R, **Kennedy DJ**.
Safety of epidural steroid injections.
Expert Opin Drug Saf. 2016 Aug;15(8):1031-9.
doi: 10.1080/14740338.2016.1184246. Epub 2016 May 13.
PMID: 27148630
59. Friedly JL, Comstock BA, Standaert CJ, Nedeljkovic S, **Kennedy DJ**, Sibell DM, Suri P, Akuthota V, Annaswamy TM, Bauer Z, Jarvik JJ.
Patient and Procedural Risk Factors for Cortisol Suppression Following Epidural Steroid Injections for Spinal Stenosis.
PM R. 2016 Sep;8(9S):S159-S160.

doi: 10.1016/j.pmrj.2016.07.042. Epub 2016 Sep 24.
PMID: 27672767

60. McCormick ZL, Cushman D, Marshall B, Caldwell M, Patel J, Ghannad L, Eng C, Makovitch S, Babu A, Chu SK, Marciniak C, Walega DR, Press J, Plataras C, **Kennedy DJ**.
Pain Reduction and Repeat Injections After Transforaminal Epidural Injection with Particulate Versus Nonparticulate Steroid for the Treatment of Chronic Painful Lumbosacral Radiculopathy.
PM R. 2016 Nov;8(11):1039-1045.
doi: 10.1016/j.pmrj.2016.03.011. Epub 2016 Apr 6.
PMID: 27060648
61. Babu AN, McCormick Z, **Kennedy DJ**, Press J.
Local, national, and service component cost variations in the management of low back pain: Considerations for the clinician.
J Back Musculoskelet Rehabil. 2016 Nov 21;29(4):685-692.
PMID: 26966816
62. Carr CM, Plataras CT, Pingree MJ, Smuck M, Maus TP, Geske JR, El-Yahchouchi CA, McCormick ZL, **Kennedy DJ**.
Immediate Adverse Events in Interventional Pain Procedures: A Multi-Institutional Study.
Pain Med. 2016 Dec;17(12):2155-2161.
doi: 10.1093/pm/pnw051. Epub 2016 Apr 15.
PMID: 28025351
63. McCormick ZL, Choxi SC, Lee DT, Marcolina A, Press J, **Kennedy DJ**, Smuck M, Walega DR, Cushman DM.
The Impact of Body Mass Index on Fluoroscopy Time During Lumbar Epidural Steroid Injection; A Multicenter Cohort Study.
Pain Med. 2017 Jan 1;18(1):25-35.
doi: 10.1093/pm/pnw050.
PMID: 27084415
64. Sharma AK, **Vorobeychik Y**, Wasserman R, Jameson J, Moradian M, Duszynski B, **Kennedy DJ**; Standards Division of the Spine Intervention Society.
The Effectiveness and Risks of Fluoroscopically Guided Lumbar Interlaminar Epidural Steroid Injections: A Systematic Review with Comprehensive Analysis of the Published Data.
Pain Med. 2017 Feb 1;18(2):239-251.
doi: 10.1093/pm/pnw131.
PMID: 28204730
65. Kordi R, White BF, **Kennedy DJ**.
Possibility and Risk of Medication Vial Coring in Interventional Spine Procedures.

- PM R. 2017 Mar;9(3):289-293.
doi: 10.1016/j.pmrj.2016.09.003. Epub 2016 Sep 14.
PMID: 27639650
66. **Kennedy DJ**, Schneider BJ.
The Challenges of Research on Interventions for Low Back Pain.
Ann Intern Med. 2017 Apr 18;166(8):601-602.
doi: 10.7326/M17-0556. Epub 2017 Mar 21.
PMID: 28319999
67. Schneider BJ, Levin J, **Kennedy DJ**.
A Paradigm Shift?
Pain Med. 2018 Jan 1;19(1):204-205.
doi: 10.1093/pm/pnx093.
PMID: 28431156
68. Schneider BJ, Huynh L, Levin J, Rinkaekan P, Kordi R, **Kennedy DJ**.
Does Immediate Pain Relief After an Injection into the Sacroiliac Joint with Anesthetic and Corticosteroid Predict Subsequent Pain Relief?
Pain Med. 2018 Feb 1;19(2):244-251.
doi: 10.1093/pm/pnx104.
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- [2] **Kennedy DJ**, Kraft GH. “Paraplegia Following Fluoroscopically Guided Transforaminal Lumbar Spine Epidural Steroid Injection.” Association of Academic Physiatrists annual assembly. Anaheim, California. 2/2008
- [3] **Kennedy DJ**, Visco CJ, Sprosky B, Smeal W, Chimes GP, McLean J, Rittenberg J, Plastaras C. “A Programmatic Design for Teaching the Fundamentals of Spinal Procedures: A Prospective Multi-Year Study.” Association of Academic Physiatrists annual assembly. Colorado Spring, Colorado. 2/2009
- [4] Smuck, M, Maxwell M, **Kennedy DJ**, Plastaras C, Rittenberg J. “Utility of the Anesthetic Test Dose to Avoid Catastrophic Injury During Cervical Transforaminal Epidural Injections.” Abstract accepted for podium presentation at North American Spine Society Annual Meeting. San Francisco, California. 11/2009
- [5] Babington J, **Kennedy DJ**, Rittenberg, JD. “Paralysis Following Thoracic Transforaminal Epidural Steroid Injection: A Case Report and Literature Review.”

- American Academy of Physical Medicine and Rehabilitation Annual Meeting. Seattle, Washington. 11/2010
- [6] HK Vincent, KR Vincent, KM Lamb, BP Conrad, AN Seay, **DJ Kennedy**, M MacMillan. Comparative Acute Physiological Responses to Novel Eccentric Resistance Exercise Prototype Machines and Traditional Machines: 2704: Board #3 June 3rd, 2011 American College of Sports Medicine
- [7] Roper J, Stegemoller E, **Kennedy DJ**, Hass C. Acute Kinematic and Physiologic Changes During Walking Pre and Post Radiofrequency Denervation of the Zygapophysial Joint. Society of Neuroscience. Washington, District of Columbia 10/2011
- [8] Conrad BP, Shokat MS, **Kennedy DJ**. "Correlation Between Self-Reported Functional Measurements and Computerized Gait Analysis in Patients with Spinal Stenosis" Association for Academic Physiatry annual assembly. Las Vegas, Nevada. 03/2012
- [9] **Kennedy DJ**, Shokat MS, Conrad BP. "Immediate Effects of Fluoroscopically Guided Transforaminal Epidural Injection of Local Anesthetic and Corticosteroids on Gait in Patients with Lumbar Spinal Stenosis". Association of Academic Physiatry annual assembly. Las Vegas, Nevada. 03/2012
- [10] **Kennedy DJ**, Sunkari D, Conrad BP. "Immediate Effects of Fluoroscopically Guided Hip Joint Injection with Local Anesthetic and Corticosteroids on Gait" Association for Academic Physiatry Meeting annual assembly. Las Vegas, Nevada. 03/2012
- [11] Conrad BP, Shokat MS, Abbasi AZ, Vincent HK, Seay A, **Kennedy DJ**. "Associations of Self-Report Measures, Gait and Rang of Motion in Patients with Lumbar Spinal Stenosis." Gait and Clinical Motion Analysis Society annual assembly. Atlanta, Georgia 05/2012
- [12] **Kennedy DJ**, Sunkari D, Abbasi AZ, Vincent HK, Seay A, Conrad BP. "The Effect of Anesthetic Injections in the Lumbar Spine on Gait." Gait and Clinical Motion Analysis Society annual assembly. Atlanta, Georgia 05/2012
- [13] **Kennedy DJ**, Sunkari D, Abbasi AZ, Vincent HK, Seay A, Conrad BP. "The Effect of Anesthetic Hip Joint Injections on Gait." Gait and Clinical Motion Analysis Society annual assembly. Atlanta, Georgia 05/2012
- [14] Schneider BJ, **Kennedy DJ**. "The use of conscious sedation for the prevention of adverse vasovagal reactions". International Spine Intervention Society annual scientific assembly. New York, New York. 07/2013
- [15] **Kennedy DJ**, Plastaras C, Casey E, Visco CJ, Sigler JD, Smuck M, Conrad B, Dreyfuss P. "A Randomized, Double-Blind, Multi-center, Prospective Study Comparing the Efficacy of Particulate vs Non-Particulate Corticosteroids for Lumbar Radiculitis due to an Acute Herniated Nucleus Pulposus." American Academy of

Physical Medicine and Rehabilitation annual assembly. Washington, District of Columbia 10/2013

- [16] **Kennedy DJ**, Stout, A. “A Double Blind Randomized Placebo Controlled Study Comparing Intra-Articular Corticosteroids Versus Saline for Dual Medial Branch Block Confirmed Zygapophysial Joint Pain: An Interim Analysis.” American Academy of Physical Medicine and Rehabilitation annual assembly. Washington, District of Columbia 10/2013
- [17] Brar J, **Kennedy DJ**, Cohn A, Chaw E, Scuderi G, Smuck M. Charcot Spine Causing Cauda Equina Syndrome and Functional Decline in Active Spinal Cord Patient: A Case Report. American Academy of Physical Medicine and Rehabilitation annual assembly. Washington, District of Columbia 10/2013
- [18] **Kennedy DJ**, Plastaras C, Schneider B, Rittenberg J, Smuck M, Conrad BP. “Vasovagal Rates in Fluoroscopically Guided Interventional Procedures: A Study of Over 8,000 Injections.” American Academy of Physical Medicine and Rehabilitation annual assembly. Washington, District of Columbia 10/2013
- [19] **Kennedy DJ**, Plastaras C, Schneider B, Rittenberg J, Smuck M, Conrad BP. “Trainee Involvement in Transforaminal Epidural Steroid Injections with Increased Incidence of Vasovagal Reactions”. American Academy of Physical Medicine and Rehabilitation annual assembly. Washington, District of Columbia 10/2013
- [20] **Kennedy DJ**, Nguyen Q, Conrad BP. “Glenohumeral Joint Pain Patterns: A Prospective Study with Fluoroscopically Guided Injections.” American Academy of Physical Medicine and Rehabilitation annual assembly. Washington, District of Columbia 10/2013
- [21] Min K, **Kennedy DJ**. “Radiculopathy Due to a Large Lumbar Zygapophysial Joint Synovial Cyst with Complete Symptom Resolution Despite the Lack of Radiologic Resolution: A Case Report” American Academy of Physical Medicine and Rehabilitation annual assembly. Washington, District of Columbia 10/2013
- [22] **Kennedy DJ**, Stegemoller E, Haas C. “Changes in Gait During Treadmill Walking After Radiofrequency Ablation of Lumbar Medial Branch Nerves” American Academy of Physical Medicine and Rehabilitation annual assembly. Washington, District of Columbia 10/2013
- [23] **Kennedy DJ**, Plastaras CT, Carr CM, Maus TP, Geske JR, El-Yahchouchi CA, Schneider BJ, Nahm LS, Pingree MJ, Smuck M. “Delayed Complications in Interventional Pain Procedures: A Multi-Institutional Study.” International Spine Intervention Society annual scientific assembly. Orlando, FL. 7/2014

- [24] Carr CM, Plastaras CT, Pingree MJ, Smuck M , Maus TP, Geske JR, El-Yahchouchi CA, McCormick Z, **Kennedy DJ**. Adverse event rates in interventional spine procedures: A multi-institutional study. International Spine Intervention Society annual scientific assembly. Orlando, FL. 7/2014
- [25] Cohen I, **Kennedy DJ**. “Unusual Anatomic Change following Fluoroscopic Percutaneous Lumbar Synovial Cyst Rupture” International Spine Intervention Society annual scientific assembly. Orlando, FL. 7/2014
- [26] McCormick Z, **Kennedy DJ**, Rivers WE, Garvan C, Temme K, Margolis S, Zander E, Rohr A, Smith MA, Plastaras CT. Comparison of Pain Score Reduction Using Triamcinolone vs. Betamethasone in Transforaminal Epidural Steroid Injections for Lumbosacral Radiculopathy. Midwest Pain Society Scientific Session. Chicago, IL. October 2014.
- [27] McCormick Z, Margolis S, Temme K, Rivers WE, Cameron SA, Smith MA, Rohr A, Zander E, Garvan C, **Kennedy DJ**, Plastaras CT. Concordant Pain Provocation during Transforaminal Epidural Steroid Injection for Lumbosacral Radiculopathy: Effect on Pain Outcome and Predictive Factors. Midwest Pain Society Scientific Session. Chicago, IL. October 2014.
- [28] McCormick Z, Cushman D, Caldwell M, Marshall B, Ghannad L, Eng C, Patel J, Makovitch S, Chu SK, Babu AN, Walega DR, Marciniak C, Press J, **Kennedy DJ**, Plastaras CT. Does Electrodagnostic Confirmation of Acute or Chronic Cervical or Lumbosacral Radiculopathy Predict Pain Reduction after Transforaminal Epidural Steroid Injection? A Multicenter Longitudinal Study. Midwest Pain Society Scientific Session. Chicago, IL. October 2014.
- [29] Kraus E, Martin E, Doan R, Paulus S, **Kennedy DJ**, Smuck M. Zygapophyseal Joint Tropism Leading to Pars Stress Reaction in an Adolescent Athlete: A Case Report. American Academy of Physical Medicine and Rehabilitation Annual Assembly. San Diego, CA 11/2014
- [30] Huynh L, Smuck M, **Kennedy DJ**. “Does Fibronectin Aggrecan Complex (FAC) Predict Response to Epidural Steroid Injection?” American Academy of Physical Medicine and Rehabilitation Annual Assembly. San Diego, CA 11/2014
- [31] McCormick Z, Plastaras C, Garvan C, Macron DS, Joshi A, Chimes GP, Smeal WL, Rittenberg JD, Kennedy DJ. “Fluoroscopically Guided Lumbosacral Transforaminal Epidural Steroid Injections: Adverse Events and Predictive Factors” American Academy of Physical Medicine and Rehabilitation Annual Assembly. San Diego, CA 11/2014
- [32] Schneider BJ, Smuck M, Plastaras C, Nahm LS, Maus TP, **Kennedy DJ**. “Delayed Complications Following Interventional Pain Procedures” American Academy of Physical Medicine and Rehabilitation Annual Assembly. San Diego, CA 11/2014

- [33] Nahm LS, Smuck M, Plastaras C, Schneider BJ, **Kennedy DJ**. "Next Day Adverse Events from Interventional Pain Procedures" American Academy of Physical Medicine and Rehabilitation Annual Assembly. San Diego, CA 11/2014
- [34] McCormick Z, **Kennedy DJ**, Rivers WE, Garvan C, Temme K, Margolis S, Zander E, Rohr A, Smith MA, Plastaras CT. Comparison of Pain Score Reduction Using Triamcinolone vs. Betamethasone in Transforaminal Epidural Steroid Injections for Lumbosacral Radiculopathy. Association of Academic Physiatry, annual assembly, San Antonio TX 3/2015
- [35] Mattie R, **Kennedy DJ**. The Importance of Image Guidance in Glenohumeral Joint Injections: Comparing Rates of Needle Accuracy Based on Approach and Physician Level of Training. Association of Academic Physiatry, annual assembly, San Antonio TX 3/2015
- [36] McCormick Z, Margolis S, Temme K, Rivers WE, Cameron SA, Smith MA, Rohr A, Zander E, Garvan C, **Kennedy DJ**, Plastaras CT. Concordant Pain Provocation during Transforaminal Epidural Steroid Injection for Lumbosacral Radiculopathy: Effect on Pain Outcome and Predictive Factors. Association of Academic Physiatry, annual assembly, San Antonio TX 3/2015
- [37] McCormick Z, Cushman D, Caldwell M, Marshall B, Ghannad L, Eng C, Patel J, Makovitch S, Chu SK, Babu AN, Walega DR, Marciniak C, Press J, **Kennedy DJ**, Plastaras CT. Does Electrodiagnostic Confirmation of Acute or Chronic Cervical or Lumbosacral Radiculopathy Predict Pain Reduction after Transforaminal Epidural Steroid Injection? A Multicenter Longitudinal Study. Association of Academic Physiatry, Annual Assembly, San Antonio TX 3/2015
- [38] McCormick Z, Cushman D, Caldwell M, Marshall B, Ghannad L, Eng C, Patel J, Makovitch S, Chu SK, Babu AN, Walega DR, Marciniak C, Press J, **Kennedy DJ**, Plastaras CT. Does Electrodiagnostic Confirmation of Acute or Chronic Cervical or Lumbosacral Radiculopathy Predict Pain Reduction after Transforaminal Epidural Steroid Injection? A Multicenter Longitudinal Study. American Association of Pain Medicine - Annual meeting. National Harbor, MD. March 2015.
- [39] Friedly JL, Comstock BA, Turner JA, Heagerty PJ, Deyo RA, Sullivan SD, Bauer Z, Bresnahan BW, Avins AL, Nedeljkovic SS, Nerenz DR, Standaert CJ, Kessler L, Akuthota V, Annaswamy T, Chen A, Diehn F, Firtch W, Gerges FJ, Gilligan C, Goldberg H, **Kennedy DJ**, Mandel S, Tyburski M, Sanders W, Sibell D, Smuck M, Wasan A, Won L, Jarvik JG. "A randomized trial of epidural glucocorticoid injections for spinal stenosis." European Pain Congress Annual Assembly. Vienna Austria. May 2015
- [40] Carr CM, Plastaras CT, Pingree MJ, Smuck M, Maus TP, Geske JR, El-Yahchouchi CA, McCormick Z, **Kennedy DJ**. "Adverse Event Rates in Interventional Spine Procedures: A Multi-Institutional Study." European Pain Congress - Annual Assembly. Vienna Austria. May 2015

- [41] El-Yahchouchi CA, Plastaras CT, Maus TP, Carr CM, McCormick Z, Geske JR, Smuck M, Pingree MJ, **Kennedy DJ**. "Complication rates of transforaminal and interlaminar epidural steroid injections: a multi-institutional study." European Pain Congress - Annual Assembly. Vienna Austria. May 2015
- [42] Zheng P, Wolstencroft P, Nguyen C, **Kennedy DJ**. "Utility of Posture Education on Medical Students' Knowledge of and Comfort with Ergonomic Concepts" Poster 342 American Academy of Physical Medicine and Rehabilitation Annual Assembly. Boston MA, 10/2015
- [43] Mattie R, **Kennedy DJ**. "The Importance of Image Guidance in Glenohumeral Joint Injection Accuracy" Poster 316 American Academy of Physical Medicine and Rehabilitation Annual Assembly. Boston MA, 10/2015
- [44] Mattie R, **Kennedy DJ**. "Likelihood and Degree of Pain Relief from a Glenohumeral Joint Injection in Various Shoulder Pathologies" Poster 134 American Academy of Physical Medicine and Rehabilitation Annual Assembly. Boston MA, 10/2015
- [45] McCormick Z, Cushman D, Marshall B, Caldwell M, Patel J, Ghannad L, Eng C, Makovitch S, Babu AN, Chu SK, Marciniak C, Walega DR, Press J, Plastaras CT, **Kennedy DJ**. "Dexamethasone versus Particulate Steroid Injections for the Treatment of Needle Electromyography-Confirmed Painful Lumbosacral Radiculopathy." Midwest Pain Society Scientific Session. Chicago, IL. October 2015.
- [46] McCormick Z, Slipman C, Kotcharian A, Chhatre A, Bender FJ, Salam A, Menkin S, **Kennedy DJ**, Plastaras C. Percutaneous Lumbar Disk Decompression Using the Dekompressor: A Prospective 8-Year Outcome Study. American Academy of Pain Medicine Annual Assembly. Palm Springs CA. February 2016.
- [47] Cushman D, Curtis B, Flis A, Press J, Marcolina A, Lee D, **Kennedy DJ**, Smuck M, Walega D, McCormick Z. Fluoroscopic Exposure During Transforaminal Epidural Steroid Injections - A Multi-Center Evaluation of 4,793 Injections. Poster presentation at American Academy of Pain Medicine's 32nd Annual meeting, Feb 18-21, 2015; Las Vegas, NV.
- [48] Schneider B, McCormick Z, Huynh L, **Kennedy DJ**. "Effectiveness of lumbar transforaminal epidural steroid injections with particulate versus non-particulate corticosteroids for lumbar radicular pain due to intervertebral disc herniation : preliminary 5 year follow up data." Association of Academic Physiatry, Annual Assembly, Sacramento, CA 2/2016
- [49] Williams L, Kim M, **Kennedy DJ**, Teroaka J, Karandikar N. "Infection and complications of nerve conduction and electromyography in an adult ambulatory care setting: A retrospective chart review" Association of Academic Physiatry, Annual Assembly, Sacramento, CA 2/2016

- [50] **Kennedy DJ**, Schneider B, Huynh L, McCormick Z, Levin J, Smuck M. Long Term Pain Recurrence Rates Following Lumbar Discectomy or Epidural Injection. International Society for the Study of the Lumbar Spine – Annual Meeting and Spine Week Singapore 5/2016
- [51] Friedly J, Standaert CJ, Suri P, Mandel S, **Kennedy DJ**, Nedeljkovic S, Akuthota V, Annaswamy T, Sibell D, Jarvik J. Interlaminar Epidural Corticosteroid Injections with Triamcinolone versus Betamethasone for Lumbar Spinal Stenosis. Spine Intervention Society 24th Annual Assembly. New Orleans, LA 7/2016
- [52] Schneider BJ¹, **Kennedy DJ**, Levin J, Huynh L, Kordi R. Poster 380 Immediate Relief After Sacroiliac Joint Injection as a Predictor of Subsequent Relief to Steroid at 2-4 Weeks. American Academy of Physical Medicine and Rehabilitation Annual Assembly. New Orleans, LA 10/2016
- [53] Friedly J, Comstock BA, Standaert CJ, Nedeljkovic S, **Kennedy DJ**, Sibell DM, Suri P, Akuthota V, Annaswamy TM, Bauer Z, Jarvik JJ. “Patient and Procedural Risk Factors for Cortisol Suppression Following Epidural Steroid Injections for Spinal Stenosis,” American Academy of Physical Medicine and Rehabilitation Annual Assembly. New Orleans, LA 10/2016
- [54] **Kennedy DJ**, Zheng PZ, Smuck M, McCormick ZL, Huynh L, Schneider BJ. Poster 487: A Minimum of 5-Year Follow-Up after Lumbar Transforaminal Epidural Steroid Injections in Patients with Lumbar Radicular Pain due to Intervertebral Disc Herniation American Academy of Physical Medicine and Rehabilitation Annual Assembly. Denver, CO 10/2017
- [55] **Kennedy DJ**, Odonkor CA, Zheng PZ, Schneider BJ, Huynh L, Levin J, Kordi R. Poster 483: Immediate vs. Prolonged Pain Relief After Sacroiliac Joint Injection with Anesthetic and Corticosteroid: A Prospective Study American Academy of Physical Medicine and Rehabilitation Annual Assembly. Denver, CO 10/2017
- [56] Levin JH, **Kennedy DJ**, Mattie R, Lungren M. Poster 463: The Effect of Patient Satisfaction Surveys on Physician Practice Patterns American Academy of Physical Medicine and Rehabilitation Annual Assembly. Denver, CO 10/2017
- [57] Fraiser R, Zheng PZ, Schneider BJ, Levin J, Huynh L, Smuck M, Ith A, **Kennedy DJ**. Poster 484: A Multi-Institutional Randomized, Double-Blind, Placebo-Controlled, Prospective Study of Intra-Articular Lumbar Zygapophysial Joint Corticosteroid Injection(s) as Treatment of Chronic Low Back Pain in a Selected Population American Academy of Physical Medicine and Rehabilitation Annual Assembly. Denver, CO 10/2017

Professional Activities:

American Academy of Physical Medicine and Rehabilitation

2005-2008	American Academy of PM&R; Medical Student Mentor
2008-current	Musculoskeletal Council -Member 2008-current -Medical Education Committee 2009-2010 -Program Planning Committee Liaison 2010-2012
2010	Knowledge Now Curriculum Development Co-Leader of Musculoskeletal Medicine advisory group
2010-2012	Osteoarthritis Task Force
2010-2015	Medical Education Committee -Member at Large 2010-2012 -Chair of Maintenance of Certification Steps 3 and 4 -2012-2015
2011-2012	American Academy of Physical Medicine and Rehabilitation Director - Pain National Journal Club
2012-2013	US Bone and Joint Initiative (USBJI) Chronic Osteoarthritis Management Initiative (COAMI) AAPM&R Representative
2013-2015	AAPM&R Leadership Initiative <i>Participant</i>
2015	Evidence Based Medicine Curriculum Development
2015-2018	Board of Governors Member at Large
2016-2017	AAPM&R/AANS Combined Spine Registry Steering Committee
2017	Graduate Medical Education Summit Planning Commission Group Discussion Leader

Spine Intervention Society

(formerly known as the International Spine Intervention Society)

2009-2013	Research Division <i>Member</i>
2011-2015	Annual Scientific Assembly - Program Planning Committee

*Selected Member -2012 Annual Assembly
Selected Director -2013 Annual Assembly
Chair – 2014 Annual Assembly
Chair – 2015 Annual Assembly
Consultant – 2016 Annual Assembly*

2012-Current Evidence Based Medicine Course Director
*Evidence Based Medicine 1 – Certification Attained 2012
Evidence Based Medicine 2 – Certification Attained 2013
Evidence Based Medicine – Instructor 2013-Current*

2008-2015 Standards Division
*Member - 2008-2009
Chair 2013-2015*

2013-Current Board of Directors
*Standards Division Chair 2013-2015
Treasurer 2015-2017
Secretary 2017-2019*

2013-2016 Appropriate Use Criteria Committee
*Evidence Panel -Sacroiliac Joint injections 2013-2014
Rating Panel -Sacroiliac Joint injections 2013-2014
Evidence Panel –Lumbar Transforaminal Epidural injections
2015-2016*

2013-Current Course Instructor
*Certified Instructor – 2013
Instructor Academy Attendee – 2014
Advanced Lumbar BioSkills Lab Instructor Memphis TN -10/2014
Lumbar BioSkills Lab Instructor – Long Beach CA 9/2015
Advanced Lumbar BioSkills Lab Instructor – Memphis TN 11/2015
Lumbar BioSkills Lab Instructor – Long Beach CA 9/2016*

2017-Current Fundraising Committee
Founding Member

2017-Current Course Director
*Lumbar Advanced Bio-Skills– Tampa, FL 3/2017
Winter Evidence Based Medicine Seminar - Bonita Springs, FL
2/2018*

North American Spine Society

2013- Current Abstract Review
*Summer Spine Summit – 2013
Annual Scientific Assembly - 2013*

2012	Evidence Based Medicine <i>Certified</i>
2013-Current	Interventional Spine Procedures Instructor <i>Advanced Lumbar Procedures- Course Instructor - 2013</i> <i>Cervical Procedures- Course Instructor - 2013</i> <i>Cervical Procedures- Course Instructor - 2014</i>
2014	Representative of NASS to the FDA Task Force on Safety and Efficacy of Epidural Injections –Washington DC 11/2014
2014	Task Force for Response to the Agency for HealthCare Research and Research Report on Epidurals
2016- Current	Coverage Committee Member
2016	Summer Spine Meeting Co-Chair
2017	Summer Spine Meeting Co-Director Non-Operative Section
2017	Spine Think Tank Invited Member

Association of Academic Physiatrists

2010-2012	Physiatric Advanced Leadership Program (PALS) <i>Graduate</i>
2011-2017	Board of Trustees <i>Member at Large (2011-2014)</i> <i>Chair of Membership Committee (2015-2017)</i>
2013-2017	Membership Committee <i>Member 2013-2015</i> <i>Chair 2015-2017</i>
2017-Current	Physiatric Advanced Leadership Program Project Mentor

American Board of Physical Medicine and Rehabilitation

2015-Current	Oral Board Examiner
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- [10] Comparative Effectiveness of Lumbar Transforaminal Epidural Steroid Injections with Particulate versus Non-Particulate Corticosteroids for Lumbar Radicular Pain: a Randomized, Prospective, Double Blind Trial”
International Spine Intervention Society, Annual Meeting; Orlando, FL 7/2014
Members Publications Symposium
- [11] Immediate adverse events in interventional pain procedures: a multi-institutional study.
International Spine Intervention Society, Annual Meeting; Orlando, FL 7/2014
- [12] How to Publish Your Research
International Spine Intervention Society, Back to Basics Symposium; Orlando, FL 7/2014
- [13] TFESI Neurologic Injury / Safety Literature: The Steroid Choice
European Pain Congress – Annual Assembly
Vienna, Austria 5/2015
- [14] US Experience as a Voice of Reason/ Builder of Consensus
European Pain Congress – Annual Assembly
Vienna, Austria 5/2015
- [15] Outcomes Analysis in Spine Interventions: What and How to Measure
European Pain Congress – Annual Assembly
Vienna, Austria 5/2015
- [16] Welcome and Meeting Overview
International Spine Intervention Society, Annual Meeting; Las Vegas, NV 7/2015
- [17] Evidence Based Medicine
International Spine Intervention Society, Annual Meeting; Las Vegas, NV 7/2015
- [18] Physical Exam for the Interventionalist
International Spine Intervention Society, Annual Meeting; Las Vegas, NV 7/2015
- [19] Where’s the Evidence: Common Treatment for Axial Neck Pain
International Spine Intervention Society, Annual Meeting; Las Vegas, NV 7/2015
- [20] Appropriate Use Panel Results – The SIJ
International Spine Intervention Society, Annual Meeting; Las Vegas, NV 7/2015
- [21] The Use of Moderate Sedation for the Secondary Prevention of Adverse Vasovagal Reactions.
International Spine Intervention Society, Annual Meeting; Las Vegas, NV 7/2015
- [22] What ISIS Is Doing For You- Standards Division

- International Spine Intervention Society, Annual Meeting; Las Vegas, NV 7/2015
- [23] Procedural Pearls – Minimizing Vascular Causes of False Negative Blocks
[International Spine Intervention Society, Annual Meeting; Las Vegas, NV 7/2015
- [24] Ask the Experts
International Spine Intervention Society, Annual Meeting; Las Vegas, NV 7/2015
- [25] Core Stabilization
Advanced Rehab Technology Conference (ARTeC) Bangkok, Thailand 9/2015
- [26] Patient Selection for Spine Injections
Advanced Rehab Technology Conference (ARTeC) Bangkok, Thailand 9/2015
- [27] Complications from Spine Procedures
Advanced Rehab Technology Conference (ARTeC) Bangkok, Thailand 9/2015
- [28] How Technique and Research Can Improve Outcomes
Advanced Rehab Technology Conference (ARTeC) Bangkok, Thailand 9/2015
- [29] Are Steroids Effective For Low Back Pain
Advanced Rehab Technology Conference (ARTeC) Bangkok, Thailand 9/2015
- [30] Facet Arthropathy Management
Advanced Rehab Technology Conference (ARTeC) Bangkok, Thailand 9/2015
- [31] Shoulder vs Neck Pain
Advanced Rehab Technology Conference (ARTeC) Bangkok, Thailand 9/2015
- [32] Shoulder MRI Review
Advanced Rehab Technology Conference (ARTeC) Bangkok, Thailand 9/2015
- [33] Evidence Based Medicine – Statistical Concepts
International Spine Intervention Society, Annual Meeting; Las Vegas, NV 7/2016
- [34] Lumbar Radicular Pain- Evidence for Interventional Treatment
Spine Intervention Society, Annual Meeting; New Orleans, LA 7/2016
- [35] SIJ Diagnostic Blocks
Spine Intervention Society, Annual Meeting; New Orleans, LA 7/2016
- [36] Ask the Experts
Spine Intervention Society, Annual Meeting; New Orleans, LA 7/2016
- [37] Evidence Based Medicine in Musculoskeletal /Pain Rehabilitation Medicine
Opening Plenary Session for Inaugural meeting
Rehabilitation Medicine Society of Australia and New Zealand.

Melbourne, Australia. 10/2016

- [38] PM&R training in the United States
Musculoskeletal Medicine Special Interest Group
Rehabilitation Medicine Society of Australia and New Zealand.
Melbourne, Australia. 10/2016

- [39] Glenohumeral Pain Patterns
Rehabilitation Medicine Society of Australia and New Zealand.
Melbourne, Australia. 10/2016

- [40] Adolescent Spondylolysis
Rehabilitation Medicine Society of Australia and New Zealand.
Melbourne, Australia. 10/2016

- [41] Intervention Related Complications and its management
KORSIS-SIS 11th annual symposium and workshop
Seoul, South Korea 6/2017

- [42] Are steroids effective for low back pain?
KORSIS-SIS 11th annual symposium and workshop
Seoul, South Korea 6/2017

- [43] Radiofrequency rhizotomy for SI joint pain
KORSIS-SIS 11th annual symposium and workshop
Seoul, South Korea 6/2017

- [44] Posterior Pelvic Pain: An Overview
KORSIS-SIS 11th annual symposium and workshop
Seoul, South Korea 6/2017

- [45] My Most Difficult Case
Spine Intervention Society, Annual Meeting; San Francisco, CA 7/2017

- [46] Epidural Efficacy Data: Interlaminar and Transforaminal
Spine Intervention Society, European Congress; London, England 3/2018

- [47] Ask the Experts -Panel Member
Spine Intervention Society, European Congress; London, England 3/2018

- [48] Physical Examination of the Borderlands: Shoulder and Hip
Spine Intervention Society, European Congress; London, England 3/2018

- [49] Shoulder Girdle vs. Cervical Spine: Differentiating Shoulder Issues vs. Low Cervical Radiculopathy or Facet Pain
Spine Intervention Society, European Congress; London, England 3/2018

- [50] Particulate vs. Non-particulate
Spine Intervention Society, European Congress; London, England 3/2018
- [51] Lumbar Medial Branch Radiofrequency Neurotomy: An EBM Overview of Selection and Technique
The American Academy of Pain Medicine, Annual Meeting, Vancouver, Canada 4/2018

National Lectures:

- [1] Shoulder MRI, Uses and Interpretation.
Academy of Academic Physiatrists, Annual Assembly; Colorado Springs, CO. Resident and Fellow Workshop. 2/2009
- [2] Functional and Kinetic-Chain Based Exam of the Foot: Defining Subtalar Neutral and the Pronated Foot.
American Academy of Physical Medicine and Rehabilitation, Annual Meeting; Austin, TX. 10/2009
- [3] Hip, Knee, Foot and Ankle Physical Exam.
Association of Academic Physiatrist, Annual Assembly: Bonita Springs, FL. 4/2010
- [4] Sorts Out Neck From Shoulder by History of Physical Exam.
North American Spine Society, Annual Meeting; Orlando, FL. 11/2010
- [5] Does Running Cause Osteoarthritis?
American Academy of Physical Medicine and Rehabilitation, Annual Meeting, Seattle, WA. Part of "Current Controversies in Running Medicine Symposium." 11/2010
- [6] Implementing Validated Quality Outcome Measures.
American Academy of Physical Medicine and Rehabilitation, Annual Meeting, Seattle, WA. Part of the "Making Your 21st Century Practice Live Up to Its Name." 11/2010
- [7] Spondylolysis and Spondylolisthesis in Adolescent Athletes: A Diagnostic & Treatment Algorithm.
American Academy of Physical Medicine and Rehabilitation, Annual Meeting, Seattle, WA. Part of "Current Concepts in Pediatric Sports Medicine" 11/2010
- [8] Quality Improvement in an Outpatient Interventional Spine Practice.
Association of Academic Physiatrists, Annual Assembly; Phoenix, AZ. 4/2011
- [9] Considerations in Ultra-Endurance Coverage.
Association of Academic Physiatrists, Annual Assembly; Phoenix, AZ. 4/2011

- [10] Physical Examination of the Spine
Association of Academic Physiatrists, Annual Assembly; Phoenix, AZ. 4/2011
- [11] Sports Physical Examination of the Shoulder and Knee.
Association of Academic Physiatrists, Annual Assembly; Phoenix, AZ. 4/2011
- [12] Development of Pain and Spine Teaching Tools
Association of Academic Physiatry Meeting; Las Vegas, NV. 3/2012
- [13] Identifying the Pain Generator
American Association of Orthopaedic Medicine; Ft Lauderdale, FL. 4/2012
- [14] Maintenance of Certification – Step 4 (MOC|4)
National Live Webinar for the AAPM&R reviewing MOC|4 recertification 5/2012
- [15] Somatic Pain and Other Neurology
Allied Healthcare Providers Course
International Spine Intervention Society, Annual Meeting; Las Vegas, NV 7/2012
- [16] Clinical Research –Implications in Practice
Resident and Fellow Reception
International Spine Intervention Society, Annual Meeting; Las Vegas, NV 7/2012
- [17] Maintenance of Certification – Step 3 (MOC|3)
National Live Webinar for the AAPM&R reviewing MOC|3 recertification 8/2012
- [18] The Sacroiliac Joint: A Comprehensive Review
American Association of Neuromuscular and Electrodiagnostic Medicine Annual Meeting; Orlando, Florida 10/2012
- [19] Core Stability: Where's the Proof
North American Spine Society Annual Meeting; Dallas, Texas 10/2012
- [20] Exercise is Medicine: Exercise for Low Back Pain
North American Spine Society Annual Meeting; Dallas, Texas 10/2012
- [21] How Utilization, Technique, and Research can Improve Injection Outcomes.
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
Atlanta, GA. 10/2012
- [22] Cervical and Lumbar Spine Injection Indications
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
Atlanta, GA. 10/2012
- [23] Particulate versus Non-Particulate Corticosteroids
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;

Atlanta, GA. 10/2012

- [24] Evidence for Lumbar Transforaminal Epidural Corticosteroids
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
Atlanta, GA. 10/2012
- [25] Lumbar Medial Branch Blocks
North American Spine Society – Advanced Lumbar Injection Course, Chicago, IL
- [26] Differentiating Shoulder from Neck Pain
American Academy of Pain Medicine – Annual Assembly, Ft Lauderdale, FL
10/2012
- [27] Spinal Stenosis: Best Practices
American Academy of Pain Medicine – Annual Assembly, Ft Lauderdale, FL
10/2012
- [28] Safe Practices for Cervical Injections
North American Spine Society – Cervical Spine Injection Course, Chicago, IL
4/2013
- [29] “Lumbar Referred Sources of Buttock Pain”
National Athletic Trainers Association – Annual Assembly Las Vegas, NV 6/2013
- [30] Comparative Effectiveness of Lumbar Transforaminal Epidural Steroid Injections
with Particulate versus Non-Particulate Corticosteroids for Lumbar Radicular
Pain: a Randomized, Prospective, Double Blind Trial”
Best Research Symposium
American Academy of Physical Medicine and Rehabilitation, Annual
Meeting; Washington, DC 10/2013
- [31] How Utilization, Technique, and Research can Improve Injection Outcomes.
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
Washington, DC 10/2013
- [32] Cervical and Lumbar Spine Injection Indications
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
Washington, DC 10/2013
- [33] Comparative Effectiveness of Lumbar Transforaminal Epidural Steroid Injections
with Particulate versus Non-Particulate Corticosteroids for Lumbar Radicular
Pain: a Randomized, Prospective, Double Blind Trial”
Best Abstracts – Comprehensive.
North American Spine Society – Annual Assembly, New Orleans, LA 10/2013
- [34] Vasovagal Rates in Fluoroscopically Guided Interventional Procedures: A Study
of Over 8,000 Injections

- North American Spine Society – Annual Assembly, New Orleans, LA 10/2013
- [35] A Double Blind Randomized Placebo Controlled Study Comparing Intra-Articular Corticosteroids Versus Saline for Dual Medial Branch Block Confirmed Zygapophysial Joint Pain: An Interim Analysis.
North American Spine Society – Annual Assembly, New Orleans, LA 10/2013
- [36] Safe Practices for Cervical Injections
North American Spine Society – Cervical Spine Injection Course, Phoenix AZ 2/2014
- [37] Sacroiliac Joint - Case Presentation and Keys to Initial History
American Academy of Pain Medicine – Annual Assembly, Phoenix, AZ 3/2014
- [38] Indications and Algorithmic Approach to Diagnostic Studies and Diagnostic/Therapeutic Interventions
American Academy of Pain Medicine – Annual Assembly, Phoenix, AZ 3/2014
- [39] Knee Osteoarthritis – The Guidelines
American Academy of Pain Medicine – Annual Assembly, Phoenix, AZ 3/2014
- [40] Complications of Interventional Spine Procedures.
International Spine Intervention Society – Lumbar BioSkills Course Memphis TN, 10/2014
- [41] “Ideal Injection Patients, an Evidence Based Approach”
American Academy of Physical Medicine and Rehabilitation, Annual Meeting; San Diego, CA 11/2014
- [42] “Best Papers in Pain and Spine”
American Academy of Physical Medicine and Rehabilitation, Annual Meeting; San Diego, CA 11/2014
- [43] “General Exercise and Low Back Pain”
American Academy of Physical Medicine and Rehabilitation, Annual Meeting; San Diego, CA 11/2014
- [44] “Obesity and Low Back Pain”
American Academy of Physical Medicine and Rehabilitation, Annual Meeting; San Diego, CA 11/2014
- [45] Steroids are safe and effective Commentary to FDA Advisory panel on behalf of North American Spine Society. Washington DC, 11/2014
- [46] “How Research and Utilization Can Enhance Outcomes”
International Spine Intervention Society – Residents and Fellows Meeting, San Francisco, CA 1/2015

- [47] Practical Shoulder Examination
American Academy of Pain Medicine – Annual Assembly
National Harbor, MD 3/2015
- [48] Differentiating Shoulder versus Neck Pathology
American Academy of Pain Medicine – Annual Assembly
National Harbor, MD 3/2015
- [49] Functional Examination of the Knee
American Academy of Pain Medicine – Annual Assembly
National Harbor, MD 3/2015
- [50] How to be a Savvy Consumer of Literature
American Academy of Physical Medicine and Rehabilitation
Live National Webinar, 5/2015
- [51] Low Back Pain – A Differential Diagnosis
Gokhale Posture Instructor Course – Palo Alto, CA 8/2015
- [52] The Sacroiliac Joint
Spine Intervention Society – Lumbar Injection Course -Long Beach, CA 9/2015
- [53] How Technique and Research Can Improve Outcomes
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
Boston, MA 9/2015
- [54] Are Steroids Effective For Low Back Pain
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
Boston, MA 9/2015
- [55] Sacroiliac Joint Conservative Management
North American Spine Society Annual Assembly – Chicago, IL 10/2015
- [56] Interpreting Diagnostic Blocks
Spine Intervention Society – Advanced Lumbar Injection Course -Memphis, TN
11/2015
- [57] Implementing Epidemiologic Research for Spine Procedures
American Academy of Pain Medicine – Annual Assembly Sacramento , CA
2/2016
- [58] Lumbar Transforaminal and Interlaminar Epidural Injections
Spine Intervention Society – Lumbar Injection Course –Long Beach, CA
8/2016
- [59] How to Interpret Diagnostic Blocks

- American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
New Orleans, LA. 10/2016
- [60] Anatomic Causes and Prevalence in Spine Pathology
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
New Orleans, LA. 10/2016
- [61] Spine Registries
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
New Orleans, LA. 10/2016
- [62] Adolescent Spondylolysis
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
New Orleans, LA. 10/2016
- [63] Interventional Treatments for Spine Pathology – An Evidence Review
Spine Intervention Society
Evidence-Based Spine Interventions Seminar Palm Springs, CA 1/2017
- [64] Non-Interventional Treatments for Spine Pathology – An Evidence Review
Spine Intervention Society
Evidence-Based Spine Interventions Seminar Palm Springs, CA 1/2017
- [65] Ask the Experts
Spine Intervention Society
Evidence-Based Spine Interventions Seminar Palm Springs, CA 1/2017
- [66] Fellowship Directors Panel
Association of Academic Physiatry Meeting; Las Vegas, NV. 2/2017
- [67] Interpretation of Diagnostic Blocks
Spine Intervention Society – Advanced Lumbar Injection Course –Tampa, FL
3/2017
- [68] Pain Mimickers in Neck and Shoulder Regions
North American Spine Society Summer Spine San Diego, CA 7/2017
- [69] Spine Registries
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
Denver, CO. 10/2017
- [70] SIJ Neural Anatomy and Diagnosis
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
Denver, CO. 10/2017
- [71] Specificity, Sensitivity, Validity, and Reliability. Not as straight forward as you think.

American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
Denver, CO. 10/2017

- [72] EBM: How to read a manuscript.
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
Denver, CO. 10/2017
- [73] A minimum of 5-year follow-up after lumbar transforaminal epidural steroid
injections in patients with lumbar radicular pain due to intervertebral disc
herniation
Outstanding Paper Award -Runner Up.
North American Spine Society
Annual Assembly. Orlando, FL 10/2017
- [74] Particulate vs. non-particulate steroid in lumbar transforaminal epidural
injections; what is the optimal balance of safety and efficacy in light of the most
recent literature?
North American Spine Society
Annual Assembly. Orlando, FL 10/2017
- [75] Etiology, Pathophysiology and Biomechanics of Low Back Pain
American Society of Regional Anesthesia and Pain Medicine
Annual Assembly; Orlando FL. 11/2017
- [76] Current State of the Evidence for Sacroiliac Joint Procedures
American Society of Regional Anesthesia and Pain Medicine
Annual Assembly; Orlando FL. 11/2017
- [77] Sacroiliac Joint Pain, an Algorithmic Approach
American Society of Regional Anesthesia and Pain Medicine
Annual Assembly; Orlando FL. 11/2017
- [78] Physical Examination of the Spine
American Society of Regional Anesthesia and Pain Medicine
Annual Assembly; Orlando FL. 11/2017
- [79] Evidence of Non-Interventional Treatments for Low Back Pain
Spine Intervention Society Evidence Based Spine Interventions Seminar
Bonita Springs, FL 2/2018

Course Directorships, Moderator, And Teaching Roles:

- [1] Musculoskeletal Sec. of Gross Anatomy for First Year Medical Students
Teaching Assistant, College of Medicine
University of Florida, Gainesville, FL 2003

- [2] Intro to Physical Medicine and Rehabilitation; PGY1 & PM&R Residents Co-Coordinator, Department of Rehabilitation Medicine
University of Washington, Seattle, WA 7/2007
- [3] Resident Kinesiology Course
Course Co-Director & Principle Lecturer
Rehabilitation Institute of Chicago, Northwestern University,
Chicago, IL, 7/2008
- [4] Resident Anatomy Course
Course Co-Director & Principle Lecturer
Rehabilitation Institute of Chicago, Northwestern University,
Chicago, IL, 7/2008
- [5] Medical Student Musculoskeletal Physical Exam Course
Organizer and Instructor
Rehabilitation Institute of Chicago, Northwestern University,
Chicago, IL, 2008-2009
- [6] Sports & Spine Resident Course
Course Co-Director & Principle Lecturer
Rehabilitation Institute of Chicago, Northwestern University,
Chicago, IL, 2008-2009
- [7] Sports & Spine Journal Club
Co-Director
Rehabilitation Institute of Chicago, Northwestern University,
Chicago, IL, 2008-2009
- [8] Jim McLean Resident Course in Electrodiagnostics
Co-Director & Principle Lecturer
Rehabilitation Institute of Chicago, Northwestern University,
Chicago, IL, 2009
- [9] 4th year geriatric clerkship bi-weekly mandatory rotation
Attending Physician
University of Florida, Gainesville, FL 2009-2012
- [10] Quarterly lectures regarding physical exam and treatment of common orthopedic conditions for Family Practice Residents
University of Florida, Gainesville, FL 2009-2012
- [11] Weekly Spine and Sports Journal Club
Department of Orthopaedics and Rehabilitation
University of Florida, Gainesville, FL 2009-2012
- [12] Controversial Topics in Running Medicine.

- Course Director- American Academy of Physical Medicine and Rehabilitation, Annual Meeting; Seattle, WA. 11/2010
- [13] Lumbar Zygapophysial Joint: A Comprehensive Literature Review.
Course Director- American Academy of Physical Medicine and Rehabilitation, Annual Meeting; Seattle, WA. 11/2010
- [14] Current Concepts in Pediatric Sports Medicine.
Course Director- American Academy of Physical Medicine and Rehabilitation, Annual Meeting; Seattle, WA. 11/2010
- [15] Emerging Evidence for Cooled Radiofrequency
Session Moderator – Breakout Session
International Spine Intervention Society, Annual Meeting; Las Vegas, NV 7/2012
- [16] Cervical Manipulation
Course Moderator- American Academy of Physical Medicine and Rehabilitation, Annual Meeting; Atlanta, GA. 10/2012
- [17] Pain of Non-Anatomical Distribution
International Spine Intervention Society annual assembly, New York, NY.7/2013
- [18] Stress Fractures: Risk Factors, Treatment, and Prevention
Course Director-AAPM&R Annual Conference, Washington DC 10/2013
- [19] Recent studies you should know about on opioid management of nonmalignant pain.
Course Director-AAPM&R Annual Conference, Washington DC 10/2013
- [20] Evidence Based Medicine -1
International Spine Intervention Society Dallas, TX 1/2014
- [21] Evidence Based Medicine -1
International Spine Intervention Society Orlando, FL 7/2014
- [22] Sacroiliac Complex - Results of Systematic Reviews
International Spine Intervention Society Annual Scientific Meeting, Orlando, FL 7/2014
- [23] Sacroiliac Complex – The Appropriate Use Criteria
International Spine Intervention Society Annual Scientific Meeting, Orlando, FL 7/2014
- [24] Resident Injection Course
American Academy of Physical Medicine and Rehabilitation, Annual Meeting; San Diego, CA 11/2014

- [25] Treatments Options for Cervical Spine Pathology: What's the Evidence?
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
Boston, MA 9/2015
- [26] Evidence Based Medicine -1
International Spine Intervention Society New Orleans, LA 7/2016
- [27] Ask the Experts
International Spine Intervention Society New Orleans, LA 7/2016
- [28] Resident Injection Course
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
New Orleans, LA. 10/2016
- [29] Advanced Procedural Pearls
Spine Intervention Society
Evidence-Based Spine Interventions Seminar Palm Springs, CA 1/2017
- [30] Lumbar Spine Controversies
Spine Intervention Society
Evidence-Based Spine Interventions Seminar Palm Springs, CA 1/2017
- [31] Advanced BioSkills Lab
Spine intervention Society
Tampa Florida 3/2017
- [32] Legal Issues in Spine Medicine
Spine Intervention Society Annual Scientific Meeting, San Francisco, CA 7/2017
- [33] Spine Registries
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
Denver, CO. 10/2017
- [34] The Cellular and Systemic Effects of Exercise on the Aging Spine and
Musculoskeletal System
American Academy of Physical Medicine and Rehabilitation, Annual Meeting;
Denver, CO. 10/2017
- [35] Intervention Abstracts – Session Moderator
North American Spine Society
Annual Assembly. Orlando, FL 10/2017
- [36] Advanced Procedural Details
Spine Intervention Society Evidence Based Spine Interventions Seminar
Bonita Springs, FL 2/2018
- [37] Lumbar Spine Controversies

Spine Intervention Society Evidence Based Spine Interventions Seminar
Bonita Springs, FL 2/2018

- [38] Physical Examination Pre-Course – Table Instructor
Spine Intervention Society, European Congress; London, England 3/2018
- [39] Cervical Epidural Steroid Injections -Session Moderator
Spine Intervention Society, European Congress; London, England 3/2018

Local/Regional Lectures:

- [1] Applied Neuro-anatomy. Physical Exam Correlates in Patients with Stroke
Seattle, WA. Veterans Hospital. Inpatient Physical/Occupational Therapy; In-Service. 4/2006
- [2] The Sacroiliac Joint: Anatomy, Physical Exam and Treatment
Seattle, WA. Seattle Spine & Rehabilitation; Bi-Monthly Seminar. 3/2008
- [3] Hip Kinesiology and Biomechanics Review
Chicago, IL. Rehabilitation Institute of Chicago 8/2008
- [4] Ankle Functional Anatomy and Kinesiology
Chicago, IL. Rehabilitation Institute of Chicago 8/2008
- [5] Wrist and Elbow Biomechanics and Common Pathology
Chicago, IL. Rehabilitation Institute of Chicago 8/2008
- [6] Paraplegia Following Lumbar spine Transforaminal Epidural Steroid
Injections: An Overview
Carolinas Rehabilitation; Grand Rounds 11/2008
- [7] Sports Medicine: An Overview
Chicago, IL. Northwestern University; Medical Students 12/2008
- [8] Paraplegia Following Lumbar spine Transforaminal Epidural Steroid Injections:
An Overview
Eastern Carolina University; Department of Physical Medicine and Rehabilitation;
Grand Rounds 1/2009
- [9] Paraplegia Following Lumbar spine Transforaminal Epidural Steroid Injections:
An Overview
Chicago, IL. Rehabilitation Institute of Chicago; Grand Rounds 5/2009
- [10] Therapeutic and Diagnostic Spine Injections
Gainesville, FL. University of Florida; Orthopaedics Morning Seminar 9/2009
- [11] Acute Spine Pain: Pathophysiology and Treatment Options

- Gainesville, FL. Department of Psychology; Grand Rounds 10/2009
- [12] Iliotibial Band Syndrome
Gainesville, FL. University of Florida; Running Medicine Conference 2/2010
- [13] Acute Spine Pain: Pathophysiology and Treatment Options
Gainesville, FL. University of Florida; Running Medicine Conference 2/2010
- [14] Introduction to Musculoskeletal Physical Exam and Imaging Modalities
Gainesville, FL. University of Florida; School for PA Studies 3/2010
- [15] The Aging Spine
Gainesville, FL. Pain Connections; Journal Club 6/2010
- [16] Shoulder Examination-Common Shoulder Disorders and Treatments
Gainesville, FL. University of Florida; School for PA Studies 11/2011
- [17] The Aging Spine
Gainesville, FL. University of Florida; Presentation to residents of Oak Hammock
2/2011
- [18] Injections for Low Back Pain
Gainesville, FL. University of Florida; Department of Orthopaedics Resident
Lecture 2/2011
- [19] Introduction to Musculoskeletal Physical Exam and Imaging Modalities
Gainesville, FL. University of Florida; School for PA Studies 3/2011
- [20] Principles of Musculoskeletal Examination
Gainesville, FL. University of Florida; Family Practice Resident Lecture 4/2011
- [21] "Spine Cysts"
Gainesville, FL. Pain Connections; Journal Club 9/2011
- [22] "Adolescent Spondylolysis and Spondylolisthesis: A Diagnostic and Treatment
Algorithm"
Palo Alto, CA. Stanford University Department of Orthopaedics; Division of
Rehabilitation Teaching Conference 10/2011
- [23] "Adolescent Spondylolysis and Spondylolisthesis: A Diagnostic and Treatment
Algorithm" Winston-Salem, NC. Wake Forest University; Department of
Neurosurgery Teaching Conference. 10/2011
- [24] "Physical Examination of the Knee" Columbia University; Department of
Rehabilitation and Regenerative Medicine Teaching Conference. New York, NY.
2/2012

- [25] "Spine Physical Examination"
Palo Alto, Ca. Stanford University. Medical Student Musculoskeletal Physical Examination Series 2/2013
- [26] "Are Steroids Effective for Low Back Pain"
Louisiana State University
Department of Medicine – Grand Rounds 3/2013
- [27] "Appropriate Steroid Choice for Interventional Procedures"
Louisiana State University
Pain Medicine – Grand Rounds 3/2013
- [28] "Spine complications"
Stanford PM&R Resident lecture series 7/2013
- [29] "How to conduct research and analyze stats"
Stanford PM&R Resident lecture series 7/2013
- [30] "Are Steroids Effective for Low Back Pain"
Stanford University
Department of Orthopaedics – Grand Rounds 1/2014
- [31] "How Utilization, Technique, and Research can Improve Injection Outcomes."
Stanford University
Physical Medicine and Rehabilitation – Grand Rounds 5/2014
- [32] "Spine complications"
Stanford PM&R Resident lecture series 7/2014
- [33] "Are Steroids Effective for Low Back Pain"
Stanford University
Pain Medicine Lecture Series 2/2015
- [34] "Adolescent Spondylolysis"
Stanford University
Sports Medicine Fellowship Lectures 4/2015
- [35] "Sports Medicine Cases"
Stanford University
Sports Medicine Fellowship Lectures 6/2015
- [36] "Are Steroids Effective For Low Back Pain"
PM&R Grand Rounds – Rehabilitation Institute of Chicago 10/2015
- [37] "Management of Low Back Pain for the Primary Care Physician"
Vaden Health – CME lecture 10/2015

- [38] "How to Give an Effective Presentations"
Stanford PM&R Resident lecture series 2/2016
- [39] "How to Differentiate Shoulder from Spine Pathology"
Stanford PM&R Resident lecture series 4/2016
- [40] "Adolescent Spondylolysis"
Stanford University
Sports Medicine Fellowship Lectures 4/2016
- [41] "Shoulder Anatomy and MRI interpretation"
Stanford PM&R Resident lecture series 2/2016
- [42] "The State of Stanford PM&R - Program Update"
Stanford PM&R Grand Rounds 8/2016
- [43] "Appropriate Use of Spine Injections"
Sustainable Spine Care in an Era of Overutilization
Virginia Mason Medical Center 11/18/2016
- [44] "Outcome Research in Interventional Spine Care"
University of Washington 11/17/2016
- [45] "Are Steroids Effective for Low Back Pain"
University of Texas Southwestern Medical Center 12/2016
- [46] "Are Steroids Effective for Low Back Pain"
Stanford University
Pain Medicine Lecture Series 2/2017
- [47] "Appropriate Outcome Measures in Spine Care"
Johns Hopkins University – Grand Rounds 3/2017
- [48] "Appropriate patient selection and technique for lumbar radiofrequency ablation"
Johns Hopkins University
Resident teaching - 3/2017
- [49] "Are Steroids Effective for Low Back Pain"
Hospital for Special Surgery – Grand Rounds
April 2017
- [50] "Are Steroids Effective for Low Back Pain"
New York Society of PM&R
CME Lecture
April 2017

- [51] "Are Steroids Effective for Low Back Pain"
New York Presbyterian / Columbia University Medical Center
PM&R Grand Rounds
April 2017
- [52] "Appropriate patient selection and technique for lumbar radiofrequency ablation"
New York Presbyterian / Columbia University Medical Center
Resident Teaching
April 2017
- [53] "Adolescent low back pain"
Stanford University Sports Medicine Lecture Series
May 2017
- [54] "Low back pain in the athlete, an algorithmic approach"
Stanford University Sports Medicine Lecture Series
May 2017
- [55] "Are Steroids Effective for Low Back Pain"
39th Annual Lewis A. Leavitt, MD Memorial Lectureship
Baylor College of Medicine
June 2017
- [56] "Spine Pain a Bio-Design Overview"
Stanford Bio-Design Fellowship Lecture Series
August 2017
- [57] "Are Steroids Effective for Low Back Pain"
Vanderbilt University PM&R
October 2017

Fellows Trained:

2009-2010	Robert J. Spicer, M.D.; University of Florida Sandeep Johar, M.D.; University of Florida
2010-2011	Maureen Noh, M.D.; University of Florida Max Shokat, M.D.; University of Florida
2011-2012	Alan "Scott" Hamilton, M.D., D.C.; University of Florida *2012 International Spine Intervention Society Best Fellow Abstract Award Winner Quang "Wayne" T. Nguyen, M.D.; University of Florida
2012-2013	Ryan Demirjian, M.D.; Stanford University Spine Fellow Yin-Ting Chen, M.D.; Stanford University Sports Fellow

- 2013-2014 Stephen Paulus, M.D.; Stanford University Spine Fellow
Michael Khadavi, M.D.; Stanford University Sports Fellow
- 2014-2015 Amy Yin, M.D.; Stanford University Sports Fellow
Lisa Huynh, M.D.; Stanford University Spine Fellow
***2014 International Spine Intervention Society
Best Fellow Abstract Award Winner**
- 2015-2016 Byron Schneider, M.D.; Stanford University Spine Fellow
***2015 International Spine Intervention Society
Best Resident Abstract Award Winner**
Marwa Ahmed, M.D.; Stanford University Sports Fellow
- 2016-2017 Patricia Zheng, M.D.
***2017 International Spine Intervention Society
Best Fellow Abstract Award Winner**
Wilson Cheng, M.D.

Faculty Leadership Positions:

- 2010-2012 University of Florida, Gainesville, FL
*Associate Fellowship Director, PM&R Spine & Musculoskeletal
Fellowship 2010-2012
Department of Orthopaedics and Rehabilitation – Director of
Departmental Quality Projects - 2012*
- 2012-2018 Stanford University; Palo Alto, CA
*Associate Fellowship Director, PM&R Spine Fellowship
2012-2015
PM&R Education Committee
2013-2014 - Member
2015-Current - Chair
Director PM&R Residency Selection Committee
2013-Current
Director of Resident Didactic Curriculum
2013-Current
Associate Residency Program Director
2013-2014
Clinical Competency Committee
Chair -2014-2016
Residency Program Director
2015-Current*
- 2015-2018 Stanford University – Graduate Medical Education
Special Review Committee
2015 Pediatric Critical Care

Faculty Chair
 2015 Stereotactic Radiosurgery
Faculty Chair
 2015 Sleep Surgery
Faculty Chair
 2016 Combined Pediatrics-Medical Genetics
Faculty Chair
 2016 Pediatric Hematology-Oncology
Faculty Chair
 2017 Bone Marrow Transplant Fellowship
Faculty Chair

2016-2018 Stanford University - Center for Innovation in Global Health (CIGH)
 CIGH Fellow

2018- Current Vanderbilt University Medical Center
 Department of Physical Medicine and Rehabilitation
 Chair

Honors and Awards:

1992 Triple Palm Eagle Scout, Boy Scouts of American

1996 Vigil Honor, Order of the Arrow, Semialachee Lodge # 239

1996-1999 Dean's List, Florida State University

1998 Phi Beta Kappa, Florida State University

2004 Outstanding Senior Medical Student
 Field of Physical Medicine and Rehabilitation, University of Florida

2007-2008 Chief Resident, University of Washington

2013 AAPM&R Outstanding Council Service Award
 Musculoskeletal Medicine Council

2013-2015 AAPM&R Leadership Initiative
Selected for inaugural class

2016 Singapore-Stanford Biodesign
 Mentor Award

2017 Baylor College of Medicine
 39th Annual Lewis A. Leavitt, MD Memorial Lectureship

Teaching Awards

- 2012 University of Florida-Outstanding Educator
- 2013 Jose C Montero MD Teaching Award for Excellence in Teaching
Stanford University – PM&R

Awards for Mentees

- 2012 **Best Fellow Research Project - International Spine Intervention Society**
Hamilton S, Kennedy DJ. The rate of venous uptake with digital subtraction angiography during lumbar medial branch blocks.
- 2014 **Best Fellow Research Project - International Spine Intervention Society**
Huynh L, Smuck M, Ith MA, Kennedy DJ. “Does Fibronectin Aggrecan Complex (FAC) Predict Response to Epidural Steroid Injection?”
- 2014 **Best Resident Research Project - International Spine Intervention Society**
El-Yahchouchi CA, Plastaras CT, Maus TP, Carr CM, McCormick Z, Geske JR, Smuck M, Pingree MJ, Kennedy DJ. “Complication rates of Transforaminal and interlaminar epidural steroid injections: a multi-institutional study.”
- 2015 **Best Resident Research Project - International Spine Intervention Society**
Schneider BJ, Kennedy DJ. “Comparative effectiveness of lumbar transforaminal epidural steroid injections with particulate versus nonparticulate corticosteroids for lumbar radicular pain due to intervertebral disc herniation: a prospective, randomized, double-blind trial: preliminary 5 year follow up data.”
- 2017 **Best Fellow Abstract - Spine Intervention Society**
Zheng P, Kennedy DJ. “ A Double Blind Randomized Placebo Controlled Study Comparing Intra-Articular Corticosteroids Versus Saline for Dual Medial Branch Block Confirmed Zygapophysial Joint Pain.”

Research Awards

- 2013 **Best Clinical Abstract - International Spine Intervention Society**
Kennedy DJ, Plastaras C, Casey E, Visco CJ, Rittenberg JD, Conrad BP, Sigler J, Dreyfuss P. “Comparative Effectiveness of Lumbar Transforaminal Epidural Steroid Injections with Particulate versus Non-Particulate Corticosteroids for Lumbar Radicular Pain due to Intervertebral Disc Herniation: a Prospective, Randomized, Double-Blind Trial.”

- 2013 **Best Research Presentations - American Academy of Physical Medicine and Rehabilitation**
Kennedy DJ, Plastaras C, Casey E, Visco CJ, Rittenberg JD, Conrad BP, Sigler J, Dreyfuss P. “Comparative Effectiveness of Lumbar Transforaminal Epidural Steroid Injections with Particulate versus Non-Particulate Corticosteroids for Lumbar Radicular Pain due to Intervertebral Disc Herniation: a Prospective, Randomized, Double-Blind Trial.”
- 2013 **Best Abstracts – Comprehensive. North American Spine Society**
Kennedy DJ, Plastaras C, Casey E, Visco CJ, Rittenberg JD, Conrad BP, Sigler J, Dreyfuss P. “Comparative Effectiveness of Lumbar Transforaminal Epidural Steroid Injections with Particulate versus Non-Particulate Corticosteroids for Lumbar Radicular Pain due to Intervertebral Disc Herniation: a Prospective, Randomized, Double-Blind Trial.”
- 2014 **Best Clinical Abstract - International Spine Intervention Society**
Friedly JL, Comstock BA, Turner JA, Heagerty PJ, Deyo RA, Sullivan SD, Bauer Z, Bresnahan BW, Avins AL, Nedeljkovic SS, Nerenz DR, Standaert CJ, Kessler L, Akuthota V, Annaswamy T, Chen A, Diehn F, Firtch W, Gerges FJ, Gilligan C, Goldberg H, Kennedy DJ, Mandel S, Tyburski M, Sanders W, Sibell D, Smuck M, Wasan A, Won L, Jarvik JG. “A randomized trial of epidural glucocorticoid injections for spinal stenosis.”
- 2014 **Best Scientific Abstract - 2nd Place. Midwest Pain Society Scientific Session**
McCormick Z, Cushman D, Caldwell M, Marshall B, Ghannad L, Eng C, Patel J, Makovitch S, Chu SK, Babu AN, Walega DR, Marciniak C, Press J, Kennedy DJ, Plastaras CT. Does Electrodiagnostic Confirmation of Acute or Chronic Cervical or Lumbosacral Radiculopathy Predict Pain Reduction after Transforaminal Epidural Steroid Injection? A Multicenter Longitudinal Study.
- 2014 **Best Research Presentations - American Academy of Physical Medicine and Rehabilitation**
Huynh L, Smuck M, Ith MA, Kennedy DJ. “Does Fibronectin Aggrecan Complex (FAC) Predict Response to Epidural Steroid Injection?”
- 2015 **Best Scientific Abstract - 2nd Place. Midwest Pain Society Scientific Session. Chicago, IL. October 2015.**
McCormick Z, Cushman D, Marshall B, Caldwell M, Patel J, Ghannad L, Eng C, Makovitch S, Babu AN, Chu SK, Marciniak C, Walega DR, Press J, Plastaras CT, Kennedy DJ. “Dexamethasone versus Particulate Steroid Injections for the Treatment of Needle Electromyography-Confirmed Painful Lumbosacral Radiculopathy.”
- 2017 **Outstanding Paper Award- Runner Up**
The Spine Journal and North American Spine Society

Kennedy DJ “Comparative effectiveness of lumbar transforaminal epidural steroid injections with particulate versus nonparticulate corticosteroids for lumbar radicular pain due to intervertebral disc herniation: a prospective, randomized, double-blind trial: 5 year follow up data.”

2018

Best Clinical Abstract

Spine Intervention Society

Low-pressure Lumbar Provocation Discography According to International Association for the Study of Pain/Spine Intervention Society Standards Does Not Cause Accelerated Progression of Disc Degeneration in Symptomatic Low Back Pain Patients; A 7 Year Matched Cohort Study

Patient and Miscellaneous Awards/Recognitions

- | | |
|------------|--|
| 2008-2014 | Patients Choice Award, National Recognition for Patient Satisfaction |
| 2010-2013 | America’s Top Physicians, Consumers’ Research Council of America |
| 2014, 2015 | Marquis Who’s Who in America |

Journal Reviewer:

- | | |
|---------------|--|
| 2009-Present | International Journal of Sports Medicine |
| 2009-Present | PM&R the Journal of Injury, Function and Rehabilitation |
| 2009-Present | Journal of Pain Medicine |
| 2010-Present | Muscle and Nerve |
| 2010-Present | American Journal of Physical Medicine and Rehabilitation |
| 2011-Present | Journal of Physical Education and Sport Management |
| 2011-Present | Journal of Pain Research |
| 2011-Present | Journal of Medical Case Reports |
| 2016- Present | New England Journal of Medicine |

Certifications:

- | | |
|--------------|---|
| 2004-Current | Advanced Cardiac Life Support - Certified |
| 2009-2019 | American Board of Physical Medicine and Rehabilitation
(Cert # 9351 Exp. 12/31/2019) |

2009-2019	American Board of Physical Medicine and Rehabilitation <i>Sports Medicine Subspecialty Certification</i> (Cert # 121 Exp. 12/31/2019)
2012	North American Spine Society <i>Evidence Based Medicine Certified</i>
2012-Current	International Spine Intervention Society <i>Evidence Based Medicine 1 certified</i>
2013-Current	International Spine Intervention Society <i>Evidence Based Medicine 2 certified</i>
2013-Current	International Spine Intervention Society <i>Certified Instructor</i>

Licensure

2009-2013	Florida Medical License (ME104830)
2006-Present	Washington State Medical License (MD00046902, Exp. 1/27/2020)
2012-Present	California Medical License (A121034, Exp. 1/31/2020)
2012-Present	California Fluoroscopy Supervisor and Operator License (RHC 00171254, Exp. 7/31/2018)

Selected Sports Medicine Experience:

Volunteer Physician	
2007	Seattle Marathon
2008	Accenture Triathlon
2008	Accenture Triathlon Disabled Athletes Symposium
2008	Chicago Marathon
2008	Racing the Planet the Sarah Edition
2008	Midlands Wrestling Tournament
2010	Racing the Planet the Gobi March
2011	Racing the Planet Nepal

2014 Racing the Planet Madagascar

Medical Director

2008 AWPC-World Power Lifting Championships

2008 Racing the Planet the Last Desert- Antarctica

2011 Racing the Planet the Atacama Crossing

Media Interviews:

10/2008 WBBM 780 Talk Radio Bernie Tafoya Show. Interview on training and medical concerns associated with marathons.

11/2008 MBC Documentary. Documentary of ultra-marathons and endurance races. Interview on medical complications associated with these types of races for Korean TV.

4/2014 Knee Osteoarthritis – The Guidelines (Media Interview)

10/2016 Best Papers Interview – Conducted Interview of Pradeep Suri, MD for his award winning paper for PM&R journal 10/2016

2/2018 Lost Art of Bending Over: How Other Cultures Spare Their Spines
-National Public Radio 2/26/2018

Selected Work Experience:

1996-2000 Florida State University
Tallahassee, FL
Assistant Strength and Conditioning Coach

2008-2010 Sermo Online Physicians Collaborative
Gainesville, FL
Invited bi-weekly case presentations and discussions of treatments

2011-2012 RS Medical – Physician Consultant

Extracurricular Activities & Volunteer Work:

1992-2000 Order of the Arrow; 1995 Lodge Chief, Semialachee Lodge #239

2000-2004 Equal Access Clinic for the Homeless; Volunteer

2002 Dominican Republic Medical Relief Trip; Participant

2002-2004 Physical Medicine and Rehabilitation Interest Group for the University of Florida college of Medicine; Founder and President

2004 Nicaragua Medical Relief Trip; Organizer