

Stanford



Joshua Levin, MD

- Clinical Associate Professor, Orthopaedic Surgery
- Clinical Associate Professor, Neurosurgery

CLINICAL OFFICES

- **Stanford Ortho Spine Center**

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Pavilion D MC 6415

Redwood City, CA 94063

Tel (650) 723-5643 **Fax** (650) 721-3411

- **Stanford Neuroscience Health Center**

213 Quarry Rd 2nd Fl

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Palo Alto, CA 94304

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Erin Nelligan - Residency Program Coordinator

Email erinnelligan@stanford.edu

Bio

BIO

Dr. Levin completed a residency in physical medicine and rehabilitation at the University of Michigan in 2007, and a pain medicine fellowship at the Virginia Commonwealth University in 2008. Currently, he is a member of both the departments of orthopedic surgery and neurosurgery at Stanford University, where he also is the director of the PM&R interventional spine fellowship and the interim director of the PM&R residency program.

CLINICAL FOCUS

- Physical Medicine and Rehab
- Spine care
- Spine Injections
- EMG (nerve tests)

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Orthopaedic Surgery
- Clinical Associate Professor, Neurosurgery

ADMINISTRATIVE APPOINTMENTS

- Interim Director, Physical Medicine and Rehabilitation Residency, Stanford, (2018- present)
- Director, Physical Medicine and Rehabilitation Spine Fellowship, Stanford, (2015- present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Interventional Spine & Musculoskeletal Medicine Fellowship Committee Member, North American Spine Society (2019 - present)
- Health Policy Committee Member, Spine Intervention Society (SIS) (2014 - present)

PROFESSIONAL EDUCATION

- Fellowship: Virginia Commonwealth University Office of Graduate Medical Education (2007) VA
- Residency: University of Michigan Physical Medicine and Rehab Residency (2007) MI
- Internship: St Joseph Mercy Hospital (2004) MI
- Medical Education: Virginia Commonwealth University School of Medicine Registrar (2003) VA
- Board Certification: Electrodiagnostic Medicine, American Board of Electrodiagnostic Medicine (2010)
- Board Certification: Physical Medicine and Rehab, American Board of Physical Medicine and Rehab (2008)
- Board Certification: Pain Medicine, American Board of Physical Medicine and Rehab (2008)

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Publications

PUBLICATIONS

- **Extensor Digitorum Brevis Bulk and Associations with Fibular Motor Nerve Conduction Amplitude.** *PM & R : the journal of injury, function, and rehabilitation*
Levin, J., Lowe, A., Tamura, L., Miller, E., Koltsov, J., Kenrick, A., Barrette, K., Richardson, J.
2021
- **Contrast Flow Patterns Based on Needle Tip Position During Cervical Transforaminal Epidural Injections.** *PM & R : the journal of injury, function, and rehabilitation*
Levin, J. n., Levi, D. n., Gall, N. n., Horn, S. n., Smuck, M. n.
2021
- **Neuromuscular Ultrasound for Myeloid Sarcoma Affecting the Sciatic Nerve: A Case Report.** *Ultraschall in der Medizin (Stuttgart, Germany : 1980)*
Kim, J. n., Park, H. J., Levin, J. n., Won, S. J.
2020
- **Modification of the Cervical Transforaminal Epidural Steroid Injection Technique Based Upon the Anatomic Angle of the Superior Articular Process on MRI.** *Pain medicine (Malden, Mass.)*
Levi, D. n., Horn, S. n., Murphy, J. n., Smuck, M. n., Levin, J. n.
2020
- **Incidence of Extravascular Perivertebral Artery Contrast Flow During Cervical Transforaminal Epidural Injections.** *Pain medicine (Malden, Mass.)*
Levin, J. n., Mohan, M. n., Levi, D. n., Horn, S. n., Smuck, M. n.
2020
- **Ultrasonographic measurement of the cross-sectional area of the axillary nerve** *MUSCLE & NERVE*
Yoon, J., Park, J., Levin, J., Roh, E. Y., Park, H., Won, S.
2019; 60 (1): 95–98
- **ULTRASONOGRAPHIC MEASUREMENT OF THE CROSS-SECTIONAL AREA OF THE AXILLARY NERVE.** *Muscle & nerve*
Yoon, J. S., Park, J. H., Levin, J., Roh, E. Y., Park, H. J., Won, S. J.
2019
- **Intra-articular Steroids vs Saline for Lumbar Z-Joint Pain: A Prospective, Randomized, Double-Blind Placebo-Controlled Trial** *PAIN MEDICINE*
Kennedy, D. J., Fraiser, R., Zheng, P., Huynh, L., Levin, J., Smuck, M., Schneider, B. J.
2019; 20 (2): 246–51

- **Pain and Functional Outcomes After Sacroiliac Joint Injection with Anesthetic and Corticosteroid at Six Months, Stratified by Anesthetic Response and Physical Exam Maneuvers.** *Pain medicine (Malden, Mass.)*
Schneider, B. J., Ehsanian, R. n., Huynh, L. n., Levin, J. n., Zheng, P. n., Kennedy, D. J.
2019
- **Intra-articular Sacroiliac Joint Needle Placement: Ultrasound, Fluoroscopy, and the Criterion Standard.** *American journal of physical medicine & rehabilitation*
Schneider, B. J., Ehsanian, R. n., Levin, J. n., Huynh, L. n., Kennedy, D. J., McCormick, Z. L.
2019
- **Validity of Physical Exam Maneuvers in the Diagnosis of Sacroiliac Joint Pathology.** *Pain medicine (Malden, Mass.)*
Schneider, B. J., Ehsanian, R. n., Rosati, R. n., Huynh, L. n., Levin, J. n., Kennedy, D. J.
2019
- **Intra-articular Steroids vs Saline for Lumbar Z-Joint Pain: A Prospective, Randomized, Double-Blind Placebo-Controlled Trial.** *Pain medicine (Malden, Mass.)*
Kennedy, D. J., Fraiser, R., Zheng, P., Huynh, L., Levin, J., Smuck, M., Schneider, B. J.
2018
- **Corticosteroid Injections Into Lumbar Facet Joints: A Prospective, Randomized, Double-Blind Placebo-Controlled Trial** *AMERICAN JOURNAL OF PHYSICAL MEDICINE & REHABILITATION*
Kennedy, D. J., Huynh, L., Wong, J., Mattie, R., Levin, J., Smuck, M., Schneider, B. J.
2018; 97 (10): 741–46
- **Is a History of Severe Episodic Low Back Pain an Indicator of a Discogenic Etiology?** *PAIN MEDICINE*
Levi, D., Carnahan, D., Horn, S., Levin, J.
2018; 19 (7): 1334–39
- **The Value of Electrodiagnostic Studies in Predicting Treatment Outcomes for Patients with Spine Pathologies.** *Physical medicine and rehabilitation clinics of North America*
Barrette, K. n., Levin, J. n., Miles, D. n., Kennedy, D. J.
2018; 29 (4): 681–87
- **The Value of Electrodiagnostic Studies in Predicting Treatment Outcomes for Patients with Spine Pathologies.** *Physical Medicine and Rehabilitation Clinics of North America*
Barrette, K., Levin, J., Miles, D., Kennedy, D.
2018
- **Does Immediate Pain Relief After an Injection into the Sacroiliac Joint with Anesthetic and Corticosteroid Predict Subsequent Pain Relief?** *Pain medicine (Malden, Mass.)*
Schneider, B. J., Huynh, L., Levin, J., Rinkaekan, P., Kordi, R., Kennedy, D. J.
2017
- **A Paradigm Shift?** *Pain medicine (Malden, Mass.)*
Schneider, B. J., Levin, J., Kennedy, D. J.
2017
- **TO THE EDITOR.** *Spine*
Levi, D., Levin, J.
2016; 41 (6): E379-?
- **A Narrative Review of Intraarticular Zygapophysial Steroid Injections for Lumbar Zygapophysial Mediated Pain.** *Current Physical Medicine and Rehabilitation Reports*
Schneider, B., Levin, J.
2016; 4 (2): 108-116
- **Spinal Cord Stimulation for CRPS.** *Current Physical Medicine and Rehabilitation Reports*
Drakeley, M., Ho, S., Helm, E., Levin, J., Rosenquist, R.
2016; 4 (2)

- **Intradiscal Platelet-Rich Plasma Injection for Chronic Discogenic Low Back Pain: Preliminary Results from a Prospective Trial.** *Pain medicine (Malden, Mass.)*
Levi, D. n., Horn, S. n., Tyszko, S. n., Levin, J. n., Hecht-Leavitt, C. n., Walko, E. n.
2016; 17 (6): 1010–22
- **A Systematic Review of Available Treatments for Discogenic Low Back Pain.** *Current Physical Medicine and Rehabilitation Reports*
Lucas, M., Stewart, C., Mattie, R., McCormick, Z., Saltychev, M., Levin, J.
2016; 4 (2): 117-131
- **Epidural Steroid Injections are Safe and Effective: Multisociety Letter in Support of the Safety and Effectiveness of Epidural Steroid Injections** *PAIN MEDICINE*
Kennedy, D. J., Levin, J., Rosenquist, R., Singh, V., Smith, C., Stojanovic, M. P., Vorobeychik, Y.
2015; 16 (5): 833-838
- **A Systematic Review of the Literature on Caudal, Interlaminar, and Transforaminal Injections From the Last 5 Years.** *Curr Phys Med Rehabil Rep*
Mattie, R., McCormick, Z., Yu, S., Kennedy, D., Levin, J.
2015: 159-172
- **A Quantitative Study of Intervertebral Disc Morphologic Changes Following Plasma-Mediated Percutaneous Discectomy** *PAIN MEDICINE*
Smuck, M., Levin, J., Zemper, E., Ali, A., Kennedy, D. J.
2014; 15 (10): 1695-1703
- **A quantitative study of intervertebral disc morphologic changes following plasma-mediated percutaneous discectomy.** *Pain medicine*
Smuck, M., Levin, J., Zemper, E., Ali, A., Kennedy, D. J.
2014; 15 (10): 1695-1703
- **The importance of image guidance during epidural injections: Rates of incorrect needle placement during non-image guided epidural injections** *J Spine*
Levin, J., Wetzel, R., Smuck, M.
2012; 1 (2)
- **Evidence-Based Conviction** *PM&R*
Levin, J. H., Smuck, M.
2009; 1 (9): 891-892
- **Prospective, double-blind, randomized placebo-controlled trials in interventional spine: what the highest quality literature tells us** *SPINE JOURNAL*
Levin, J. H.
2009; 9 (8): 690-703
- **Rethinking convention.** *PM & R : the journal of injury, function, and rehabilitation*
Levin, J. H.
2009; 1 (7): 694-?
- **Re: Manchikanti L, Singh V, Falco FJ, et al. Cervical medial branch blocks for chronic cervical facet joint pain: a randomized, double-blind, controlled trial with one-year follow-up. Spine 2008;33:1813-20.** *SPINE*
Smuck, M., Levin, J. H.
2009; 34 (10): 1116-1116
- **Re: Scanlon GC, Moeller-Bertram T, Romanowsky SM, et al. Cervical transforaminal epidural steroid injections: more dangerous than we think? Spine 2007;32:1249-56.** *Spine*
Smuck, M. W., Levin, J. H.
2007; 32 (23): 2638-?
- **Epidural fibrosis following percutaneous disc decompression with coblation technology.** *Pain physician*
Smuck, M., Benny, B., Han, A., Levin, J.
2007; 10 (5): 691-696
- **Radiculopathy from herniation of the nucleus pulposus: 1. Epidemiology, pathophysiology, and natural history** *J. Back Musculoskeletal Rehabil*
Levin J, Smuck M
2007; 20 (2,3): 97-101

- **Radiculopathy from herniation of the nucleus pulposus: 2. The role of corticosteroids** *J. Back Musculoskeletal Rehabil*
Levin J, Smuck M
2007; 20 (2,3): 103-13