



## Todd Alamin, MD, FAAOS

Professor of Orthopaedic Surgery

### CLINICAL OFFICE (PRIMARY)

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### ACADEMIC CONTACT INFORMATION

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### Bio

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#### BIO

Dr. Alamin is a board-certified, fellowship-trained orthopaedic surgeon and spine surgeon at Stanford Health Care Orthopaedics and Sports Medicine. He is director of the Spine Surgery Fellowship Program and the Minimally Invasive Spine Center and a professor in the Department of Orthopaedic Surgery at Stanford University School of Medicine. Dr. Alamin completed his spine care and surgery fellowship training at Stanford University School of Medicine/St. Mary's Medical Center.

Dr. Alamin specializes in advanced, minimally invasive treatments for a range of conditions affecting the spine. He is skilled at relieving pain that results from spinal stenosis, scoliosis, degenerative disc disease, arthritis, and traumatic injuries. He combines extensive expertise with decades of experience to deliver innovative, personalized care to each of his patients.

Dr. Alamin's research interests include effective treatments for vertebral fractures, spinal deformities, scoliosis, herniated discs, and spondylolisthesis (when a vertebra slides out of place). As principal investigator for multiple clinical trials and research studies, Dr. Alamin has explored nerve ablation as a treatment for chronic low back pain and motion-preserving lumbar fusion techniques. He uses state-of-the-art medical devices, implants, and technology to make spine surgery more effective and help his patients move without pain.

Dr. Alamin is known around the world for the treatment of spine disorders and injuries. He has published more than 65 articles in numerous peer-reviewed journals, including *Spine*, *The Spine Journal*, *Clinical Spine Surgery*, *International Journal of Spine Surgery*, and *Journal of Orthopaedic Research*. He has also written several book chapters that focus on diagnosing and treating spine conditions.

A recognized leader in innovative spine surgery techniques, Dr. Alamin has invented dozens of medical devices, methods, and techniques for spine surgery. He holds a number of patents for his inventions, many of which have revolutionized back pain treatments. Physicians around the globe use his techniques and devices to help their patients with spine conditions.

Dr. Alamin has been invited to present at conferences around the globe about spinal fusion procedures, novel techniques to treat spinal stenosis, and the latest medical devices to treat degenerative spondylolisthesis. He has lectured at annual meetings for the Association of Bone and Joint Surgeons, the North American Spine Society, and the International Society for the Study of the Lumbar Spine.

Dr. Alamin is a fellow of the American Academy of Orthopaedic Surgeons. He is a member of the North American Spine Society, the International Society for the Study of the Lumbar Spine, the Spine Arthroplasty Society, and the Society for Minimally Invasive Spine Surgery.

## CLINICAL FOCUS

- Minimally Invasive Spine Surgery
- Cervical Spine Surgery
- Spinal Tumor Surgery
- Spinal Deformity Surgery
- Orthopaedic Surgery of the Spine

## ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Orthopaedic Surgery

## PROFESSIONAL EDUCATION

- Medical Education: Yale School Of Medicine (1995) CT
- Fellowship: Stanford University Spine Fellowship (2001) CA
- Residency: UCSD Orthopaedic Surgery (2000) CA
- Internship: UCSD Surgery Residency (1996) CA
- Board Certification: Orthopaedic Surgery, American Board of Orthopaedic Surgery (2003)

## LINKS

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

## Research & Scholarship

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### CLINICAL TRIALS

- Study Comparing Local/ MAC Anesthesia in Lumbar Decompression, Recruiting

## Publications

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### PUBLICATIONS

- **Patient-Level Patterns in Daily Prescribed Opioid Dosage in Single Level Lumbar Fusion are Associated with Postoperative Opioid Dosage and Adverse Events: A Retrospective Analysis of Claims Data.** *The spine journal : official journal of the North American Spine Society*  
Koltsov, J. C., Sambare, T. D., Kleimeyer, J. P., Alamin, T. F., Wood, K. B., Carragee, E. J., Hu, S. S.  
2024
- **Reliability of semi-automated spinal measurement software.** *Spine deformity*  
Follett, M., Karamian, B., Liu, N., Alamin, T., Wood, K. B.  
2024
- **Correction: Degenerative lumbar spondylolisthesis: review of current classifications and proposal of a novel classification system.** *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*  
Rangwalla, K., Filley, A., El Naga, A., Gendelberg, D., Baldwin, A., Maziad, A., Arora, A., Wague, A., O'Donnell, J., Chryssikos, T., Kasir, R., Shah, J., Theologis, et al  
2023

- **Polymethyl methacrylate augmentation and proximal junctional kyphosis in adult spinal deformity patients.** *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*  
Bartolozzi, A. R., Oquendo, Y. A., Koltsov, J. C., Alamin, T. F., Wood, K. B., Cheng, I., Hu, S. S.  
2023
- **Degenerative lumbar spondylolisthesis: review of current classifications and proposal of a novel classification system.** *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*  
Rangwalla, K., Filley, A., El Naga, A., Gendelberg, D., Baldwin, A., Maziad, A., Arora, A., Wague, A., O'Donnell, J., Chrystoskos, T., Kasir, R., Shah, J., Theologis, et al  
2023
- **Patient-Level Payment Patterns Prior to Single Level Lumbar Decompression are Associated with Resource Utilization, Postoperative Payments, and Adverse Events.** *The spine journal : official journal of the North American Spine Society*  
Koltsov, J. C., Sambare, T. D., Alamin, T. F., Wood, K. B., Cheng, I., Hu, S. S.  
2022
- **Need of vascular surgeon and comparison of value for anterior lumbar interbody fusion (ALIF) in lateral decubitus: Delphi consensus.** *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*  
Menezes, C. M., Alamin, T., Amaral, R., Carvalho, A. D., Diaz, R., Guiroy, A., Lam, K. S., Lamartina, C., Perez-Contreras, A., Rivera-Colon, Y., Smith, W., Taboada, N., Timothy, et al  
2022
- **Healthcare Resource Utilization and Costs Two Years Pre and Post Lumbar Spine Surgery for Stenosis: A National Claims Cohort Study of 22,182 Cases.** *The spine journal : official journal of the North American Spine Society*  
Koltsov, J. C., Sambare, T. D., Alamin, T. F., Wood, K. B., Cheng, I., Hu, S. S.  
2022
- **Rod-Screw Constructs Composed of Dissimilar Metals Do Not Affect Complication Rates in Posterior Fusion Surgery Performed for Adult Spinal Deformity.** *Clinical spine surgery*  
Denduluri, S. K., Koltsov, J. C., Ziino, C. n., Segovia, N. n., McMains, C. n., Falakassa, J. n., Ratliff, J. n., Wood, K. B., Alamin, T. n., Cheng, I. n., Hu, S. S.  
2021; 34 (2): E121–E125
- **Advanced Age Does Not Impact Outcomes After 1-level or 2-level Lateral Lumbar Interbody Fusion.** *Clinical spine surgery*  
Wadhwa, H., Oquendo, Y. A., Tigchelaar, S. S., Warren, S. I., Koltsov, J. C., Desai, A., Veeravagu, A., Alamin, T. F., Ratliff, J. K., Hu, S. S., Cheng, I.  
2021
- **Rod-Screw Constructs Composed of Dissimilar Metals Do Not Affect Complication Rates in Posterior Fusion Surgery Performed for Adult Spinal Deformity.** *Clinical spine surgery*  
Denduluri, S. K., Koltsov, J. C., Ziino, C., Segovia, N., McMains, C., Falakassa, J., Ratliff, J., Wood, K. B., Alamin, T., Cheng, I., Hu, S. S.  
2020
- **Preoperative epidural steroid injections are not associated with increased rates of infection and dural tear in lumbar spine surgery.** *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*  
Koltsov, J. C., Smuck, M. W., Alamin, T. F., Wood, K. B., Cheng, I., Hu, S. S.  
2020
- **Subacute Minimally Invasive Decompression of L5 and S1 Nerve Roots for Neurologic Deficit After Fixation of Unstable Pelvic Fracture: A Case Report and Review of the Literature.** *JBJS case connector*  
Warren, S., Gardner, M., Alamin, T.  
2020; 10 (3): e1900638
- **Remote Virtual Spinal Evaluation in the Era of COVID-19** *INTERNATIONAL JOURNAL OF SPINE SURGERY*  
Yoon, J. W., Welch, R. L., Alamin, T., Lavelle, W. F., Cheng, I., Perez-Cruet, M., Fielding, L. C., Sasso, R. C., Linovitz, R. J., Kim, K. D., Welch, W. C.  
2020; 14 (3): 433–40
- **Local anesthetic with sedation is a viable alternative to general anesthesia for lumbar spinal decompressions: A retrospective cohort feasibility study and short-term analysis of outcomes** *CURRENT ORTHOPAEDIC PRACTICE*  
Ziino, C., Guzman, R. A., Koltsov, J., Montgomery, B. K., McMains, C., Alamin, T.  
2020; 31 (3): 252–57

- **Timing of Lumbar Spinal Fusion Affects Total Hip Arthroplasty Outcomes.** *Journal of the American Academy of Orthopaedic Surgeons. Global research & reviews*  
Bala, A., Chona, D. V., Amanatullah, D. F., Hu, S. S., Wood, K. B., Alamin, T. F., Cheng, I.  
2019; 3 (11): e00133
- **Short-Term Outcomes of Staged Versus Same-Day Surgery for Adult Spinal Deformity Correction.** *Spine deformity*  
Arzeno, A. H., Koltsov, J., Alamin, T. F., Cheng, I., Wood, K. B., Hu, S. S.  
2019; 7 (5): 796-804
- **Short-Term Outcomes of Staged Versus Same-Day Surgery for Adult Spinal Deformity Correction.** *Spine deformity*  
Arzeno, A. H., Koltsov, J., Alamin, T. F., Cheng, I., Wood, K. B., Hu, S. S.  
2019; 7 (5): 796
- **Correction to: Intervertebral disc penetration by antibiotics used prophylactically in spinal surgery: implications for the current standards and treatment of disc infections.** *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*  
Capoor, M. N., Lochman, J., McDowell, A., Schmitz, J. E., Solansky, M., Zapletalova, M., Alamin, T. F., Coscia, M. F., Garfin, S. R., Jancalek, R., Ruzicka, F., Shamie, A. N., Smrcka, et al  
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- **Intervertebral disc penetration by antibiotics used prophylactically in spinal surgery: implications for the current standards and treatment of disc infections** *EUROPEAN SPINE JOURNAL*  
Capoor, M. N., Lochman, J., McDowell, A., Schmitz, J. E., Solansky, M., Zapletalova, M., Alamin, T. F., Coscia, M. F., Garfin, S. R., Jancalek, R., Ruzicka, F., Shamie, A., Smrcka, et al  
2019; 28 (4): 783–91
- **Lumbar epidural steroid injections for herniation and stenosis: incidence and risk factors of subsequent surgery** *SPINE JOURNAL*  
Koltsov, J. B., Smuck, M. W., Zagel, A., Alamin, T. F., Wood, K. B., Cheng, I., Hu, S. S.  
2019; 19 (2): 199–205
- **Does the presence of the fibronectin-aggrecan complex predict outcomes from lumbar discectomy for disc herniation?** *SPINE JOURNAL*  
Smith, M. W., Ith, A., Carragee, E. J., Cheng, I., Alamin, T. F., Golish, S., Mitsunaga, K., Scuderi, G. J., Smuck, M.  
2019; 19 (2): E28–E33
- **The Relationship Between Lumbar Lateral Listhesis and Radiculopathy in Adult Scoliosis.** *Spine*  
Kleimeyer, J. P., Liu, N. n., Hu, S. S., Cheng, I. n., Alamin, T. n., Grottkau, B. E., Kukreja, S. n., Wood, K. B.  
2019; 44 (14): 1003–9
- **Intervertebral disc penetration by antibiotics used prophylactically in spinal surgery: implications for the current standards and treatment of disc infections.** *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*  
Capoor, M. N., Lochman, J., McDowell, A., Schmitz, J. E., Solansky, M., Zapletalova, M., Alamin, T. F., Coscia, M. F., Garfin, S. R., Jancalek, R., Ruzicka, F., Shamie, A. N., Smrcka, et al  
2018
- **Improved biomechanics of two alternative kyphoplasty cementation methods limit vertebral recollapse** *JOURNAL OF ORTHOPAEDIC RESEARCH*  
Alamin, T., Kleimeyer, J. P., Woodall, J. R., Agarwal, V., Don, A., Lindsey, D.  
2018; 36 (12): 3225–30
- **Selective Anterior Lumbar Interbody Fusion for Low Back Pain Associated With Degenerative Disc Disease Versus Nonsurgical Management** *SPINE*  
Kleimeyer, J. P., Cheng, I., Alamin, T. F., Hu, S. S., Cha, T., Yanamadala, V., Wood, K. B.  
2018; 43 (19): 1372–80
- **The effect of standing vs. variants of the seated position on lumbar intersegmental angulation and spacing: a radiographic study of 20 asymptomatic subjects.** *Journal of spine surgery (Hong Kong)*  
Alamin, T. F., Agarwal, V., Zagel, A., Qeli, A.  
2018; 4 (3): 509–15
- **Improved biomechanics of two alternative kyphoplasty cementation methods limit vertebral recollapse.** *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*  
Alamin, T., Kleimeyer, J. P., Woodall, J. R., Agarwal, V., Don, A., Lindsey, D.

2018

- **Lumbar Epidural Steroid Injections for Herniation and Stenosis: Incidence and Risk Factors of Subsequent Surgery.** *The spine journal : official journal of the North American Spine Society*  
Koltsov, J. C., Smuck, M. W., Zagel, A., Alamin, T. F., Wood, K. B., Cheng, I., Hu, S. S.  
2018
- **Answer to the letter to the editor of MN Capoor et al. concerning "Ribosomal PCR assay of excised intervertebral discs from patients undergoing single-level primary lumbar microdiscectomy" by Alamin TF, Munoz M, Zagel A, et al.:** *Eur Spine J*; 2017 *EUROPEAN SPINE JOURNAL*  
Alamin, T., Munoz, M., Zagel, A., Budvytiene, I., Banaei, N.  
2018; 27 (2): 518–19
- **Treatment of Degenerative Lumbar Spondylolisthesis With Fusion or Decompression Alone Results in Similar Rates of Reoperation at 5 Years.** *Clinical spine surgery*  
Vorhies, J. S., Hernandez-Boussard, T. n., Alamin, T. n.  
2018; 31 (1): E74–E79
- **Does timing of transplantation of neural stem cells following spinal cord injury affect outcomes in an animal model?** *Journal of spine surgery (Hong Kong)*  
Cheng, I., Park, D. Y., Mayle, R. E., Githens, M., Smith, R. L., Park, H. Y., Hu, S. S., Alamin, T. F., Wood, K. B., Kharazi, A. I.  
2017; 3 (4): 567–71
- **Ribosomal PCR assay of excised intervertebral discs from patients undergoing single-level primary lumbar microdiscectomy.** *European spine journal*  
Alamin, T. F., Munoz, M., Zagel, A., Ith, A., Carragee, E., Cheng, I., Scuderi, G., Budvytiene, I., Banei, N.  
2017
- **Predicting complication risk in spine surgery: a prospective analysis of a novel risk assessment tool.** *Journal of neurosurgery. Spine*  
Veeravagu, A., Li, A., Swinney, C., Tian, L., Moraff, A., Azad, T. D., Cheng, I., Alamin, T., Hu, S. S., Anderson, R. L., Shuer, L., Desai, A., Park, et al  
2017: 1-11
- **Propionibacterium acnes biofilm is present in intervertebral discs of patients undergoing microdiscectomy** *PLOS ONE*  
Capoor, M. N., Ruzicka, F., Schmitz, J. E., James, G. A., Machackova, T., Jancalek, R., Smrcka, M., Lipina, R., Ahmed, F. S., Alamin, T. F., Anand, N., Baird, J. C., Bhatia, et al  
2017; 12 (4)
- **Intervertebral disc/bone marrow cross-talk with Modic changes.** *European spine journal*  
Dudli, S., Sing, D. C., Hu, S. S., Berven, S. H., Burch, S., Deviren, V., Cheng, I., Tay, B. K., Alamin, T. F., Ith, M. A., Pietras, E. M., Lotz, J. C.  
2017
- **Prevalence of Propionibacterium acnes in Intervertebral Discs of Patients Undergoing Lumbar Microdiscectomy: A Prospective Cross-Sectional Study.** *PLoS one*  
Capoor, M. N., Ruzicka, F., Machackova, T., Jancalek, R., Smrcka, M., Schmitz, J. E., Hermanova, M., Sana, J., Michu, E., Baird, J. C., Ahmed, F. S., Maca, K., Lipina, et al  
2016; 11 (8)
- **Sacral spinous processes: a morphologic classification and biomechanical characterization of strength** *SPINE JOURNAL*  
Wang, T., Fielding, L. C., Parikh, A., Kothari, M., Alamin, T.  
2015; 15 (12): 2544-2551
- **Decompression and paraspinous tension band: a novel treatment method for patients with lumbar spinal stenosis and degenerative spondylolisthesis.** *spine journal*  
Gibson, J. N., Depreitere, B., Pflugmacher, R., Schnake, K. J., Fielding, L. C., Alamin, T. F., Goffin, J.  
2015; 15 (3): S23-32
- **Decompression and paraspinous tension band: a novel treatment method for patients with lumbar spinal stenosis and degenerative spondylolisthesis** *SPINE JOURNAL*  
Gibson, J. N., Depreitere, B., Pflugmacher, R., Schnake, K. J., Fielding, L. C., Alamin, T. F., Goffin, J.  
2015; 15 (3): 23S-32S
- **Compressive preload reduces segmental flexion instability after progressive destabilization of the lumbar spine.** *Spine*  
Fry, R. W., Alamin, T. F., Voronov, L. I., Fielding, L. C., Ghanayem, A. J., Parikh, A., Carandang, G., McIntosh, B. W., Havey, R. M., Patwardhan, A. G.  
2014; 39 (2): E74-81

- **Parametric and cadaveric models of lumbar flexion instability and flexion restricting dynamic stabilization system** *EUROPEAN SPINE JOURNAL*  
Fielding, L. C., Alamin, T. F., Voronov, L. I., Carandang, G., Havey, R. M., Patwardhan, A. G.  
2013; 22 (12): 2710-2718
- **Does the presence of the fibronectin-aggreacan complex predict outcomes from lumbar discectomy for disc herniation?** *The spine journal : official journal of the North American Spine Society*  
Smith, M. W., Ith, A., Carragee, E. J., Cheng, I., Alamin, T. F., Golish, S. R., Mitsunaga, K., Scuderi, G. J., Smuck, M.  
2013
- **Failure strength of lumbar spinous processes loaded in a tension band model** *JOURNAL OF NEUROSURGERY-SPINE*  
Golish, S. R., Fielding, L., Agarwal, V., Buckley, J., Alamin, T. F.  
2012; 17 (1): 69-73
- **Morbidity and Mortality of C2 Fractures in the Elderly: Surgery and Conservative Treatment** *NEUROSURGERY*  
Chen, Y., Boakye, M., Arrigo, R. T., Kalanithi, P. S., Cheng, I., Alamin, T., Carragee, E. J., Mindea, S. A., Park, J.  
2012; 70 (5): 1055-1059
- **Pulmonary Cement Embolism after Kyphoplasty** *PAIN PRACTICE*  
Chong, T., Lieu, J., Alamin, T., Mitra, R.  
2011; 11 (6): 570-573
- **Charlson Score is a Robust Predictor of 30-Day Complications Following Spinal Metastasis Surgery** *SPINE*  
Arrigo, R. T., Kalanithi, P., Cheng, I., Alamin, T., Carragee, E. J., Mindea, S. A., Boakye, M., Park, J.  
2011; 36 (19): E1274-E1280
- **Bacteriologic Culture of Excised Intervertebral Disc From Immunocompetent Patients Undergoing Single Level Primary Lumbar Microdiscectomy** *JOURNAL OF SPINAL DISORDERS & TECHNIQUES*  
Agarwal, V., Golish, S. R., Alamin, T. F.  
2011; 24 (6): 397-400
- **Provocative lumbar discography versus functional anesthetic discography: a comparison of the results of two different diagnostic techniques in 52 patients with chronic low back pain** *SPINE JOURNAL*  
Alamin, T. F., Kim, M. J., Agarwal, V.  
2011; 11 (8): 756-765
- **Predictors of Survival After Surgical Treatment of Spinal Metastasis** *NEUROSURGERY*  
Arrigo, R. T., Kalanithi, P., Cheng, I., Alamin, T., Carragee, E. J., Mindea, S. A., Park, J., Boakye, M.  
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- **Gluteal-Sparing Approach for Posterior Iliac Crest Bone Graft Description of a New Technique and Assessment of Morbidity in Ninety-Two Patients After Spinal Fusion** *SPINE*  
Merritt, A. L., Spinnicke, A., Pettigrew, K., Alamin, T. F.  
2010; 35 (14): 1396-1400
- **Facet Pain in Thoracic Compression Fractures** *PAIN MEDICINE*  
Mitra, R., Do, H., Alamin, T., Cheng, I.  
2010; 11 (11): 1674-1677
- **Lumbar intersegmental spacing and angulation in the modified lateral decubitus position versus variants of prone positioning** *SPINE JOURNAL*  
Agarwal, V., Wildstein, M., Tillman, J. B., Pelkey, W. L., Alamin, T. F.  
2009; 9 (7): 580-584
- **Lumbar Tumor Resections and Management** *ORTHOPEDIC CLINICS OF NORTH AMERICA*  
Alamin, T., Mayle, R.  
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- **The functional anaesthetic discogram: description of a novel diagnostic technique and report of 3 cases.** *SAS journal*  
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- **Surgical treatment for unstable low-grade isthmic spondylolisthesis in adults: a prospective controlled study of posterior instrumented fusion compared with combined anterior-posterior fusion.** *spine journal*  
Swan, J., Hurwitz, E., Malek, F., van den Haak, E., Cheng, I., Alamin, T., Carragee, E.  
2006; 6 (6): 606-614
- **Vertebroplasty versus kyphoplasty: Biomechanical behavior under repetitive loading conditions** *SPINE*  
Kim, M. J., Lindsey, D. P., Hannibal, M., Alamin, T. F.  
2006; 31 (18): 2079-2084
- **A gold standard evaluation of the "discogenic pain" diagnosis as determined by provocative discography** *SPINE*  
Carragee, E. J., Lincoln, T., Parmar, V. S., Alamin, T.  
2006; 31 (18): 2115-2123
- **Comparison of minimally invasive and conventional open posterolateral lumbar fusion using magnetic resonance imaging and retraction pressure studies** *JOURNAL OF SPINAL DISORDERS & TECHNIQUES*  
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Carragee, E. J., Alamin, T. F., Carragee, J. M.  
2006; 31 (5): 505-509
- **The monotonic and fatigue properties of osteoporotic thoracic vertebral bodies** *SPINE*  
Lindsey, D. P., Kim, M. J., Hannibal, M., Alamin, T. F.  
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- **Discographic, MRI and psychosocial determinants of low back pain disability and remission: a prospective study in subjects with benign persistent back pain.** *spine journal*  
Carragee, E. J., Alamin, T. F., Miller, J. L., Carragee, J. M.  
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- **Prospective controlled study of the development of lower back pain in previously asymptomatic subjects undergoing experimental discography** *SPINE*  
Carragee, E. J., Barcohana, B., Alamin, T., van den Haak, E.  
2004; 29 (10): 1112-1117
- **Provocative discography in volunteer subjects with mild persistent low back pain.** *spine journal*  
Carragee, E. J., Alamin, T. F., Miller, J., Grafe, M.  
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Carragee, E. J., Alamin, T. F.  
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- **Preossified longitudinal epiphyseal bracket of the foot: Treatment by partial bracket excision before ossification** *JOURNAL OF PEDIATRIC ORTHOPAEDICS*  
Shea, K. G., Mubarak, S. J., Alamin, T.  
2001; 21 (3): 360-365