

# Stanford

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## Eugene Carragee, MD

Professor of Orthopaedic Surgery at the Stanford University Medical Center

### CLINICAL OFFICES

- **Stanford Ortho Spine Center**

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### ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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### Bio

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### CLINICAL FOCUS

- Orthopaedic Surgery

### ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Orthopaedic Surgery

### ADMINISTRATIVE APPOINTMENTS

- Spine Consultant for Varsity and NCAA Teams, Stanford University, (1993- present)
- Director, Medical Student Education; Department of Orthopaedic Surgery, Stanford University School of Medicine, (1990- present)
- Director, Orthopaedic Spine Center at Stanford, Stanford Hospital and Clinics, (1990- present)
- Medical Director, Service Quality, Stanford University Hospital and Clinics, (2009- present)
- Chief, Spinal Surgery Division, (2004- present)

### HONORS AND AWARDS

- Summa Cum Laude, State University of New York at Albany (1977)
- Outstanding Research Award, International Society for the Study of the Lumbar Spine (2003)
- Best Paper Award, International Society for the Study of the Lumbar Spine (2005)
- Outstanding Paper Award, North American Spine Society (2008 - 03, 01, 00, 1999-97)
- Excellence in Teaching Award, Stanford University School of Medicine (1996, 1997, 2004)
- Clinical Research Award, International Society for the Study of the Lumbar Spine (2009 and 2006)
- Volvo Clinical Research Award, International Society for the Study of the Lumbar Spine (2000)
- Leon Wiltse Award, North American Spine Society (2008)
- Various awards and Commendations, U.S. Army (to present)

## PROFESSIONAL EDUCATION

- Internship: Stanford University General Surgery Residency (1983) CA
- Residency: Stanford University Orthopaedic Surgery Residency (1988) CA
- Residency: Stanford University Orthopaedic Surgery Residency (1984) CA
- Medical Education: Stanford University School of Medicine Registrar (1982) CA
- Fellowship: University Of Hong Kong (1990) China
- M.D., Stanford Univ. School of Med. (1982)
- B.S., State Univ. of New York, Albany , Biology (1977)

## COMMUNITY AND INTERNATIONAL WORK

- Editor in Chief, The Spine Journal, Stanford and NASS
- VA Neck Pain and Back Pain Guidelines
- Command Surgeon, 351 Civil Affairs Command
- Low Back Pain Guidelines Panel
- Neck Pain Task Force, Toronto, Canada
- Medical Officer, US Army Reserve
- Health Volunteers International, Ho Chi Minh City, Viet Nam
- Viet Nam Rehabilitation Project, Workshop Director, Hanoi, Ho Chi Minh City, Viet Nam
- Arbor Free Medical Clinic, Faculty Consultant
- Project Leader, Health Volunteer International, Viet Nam
- UN Medical Corps/Refugee Volunteer, Hong Kong
- Hong Kong Refugee Camp Volunteer, Hong Kong

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Carragee's research interests lie in outcomes assessment of surgical and rehabilitative treatment for cervical and lumbar intervertebral disk herniation; diagnosis and treatment of spine infections, instrumentation of the degenerative spine and spinal deformities and low back pain syndromes, pain and pain management.

## Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Medicine (Masters Program)

## Publications

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### PUBLICATIONS

- **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
- **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

- **Reply to letters to the editor regarding lumbar provocative discography** *SPINE JOURNAL*  
Carragee, E. J., Stauff, M. P.  
2017; 17 (4): 612
- **Effect of an Annular Closure Device (Barricaid) on Same-Level Recurrent Disk Herniation and Disk Height Loss After Primary Lumbar Discectomy Two-year Results of a Multicenter Prospective Cohort Study** *CLINICAL SPINE SURGERY*  
Parker, S. L., Grahovac, G., Vukas, D., Vilendecic, M., Ledic, D., McGirt, M. J., Carragee, E. J.  
2016; 29 (10): 454-460
- **Change of command** *SPINE JOURNAL*  
Carragee, E. J.  
2016; 16 (12): 1427
- **Surgical Versus Nonsurgical Treatment for Lumbar Spinal Stenosis** *SPINE*  
Zaina, F., Tomkins-Lane, C., Carragee, E., Negrini, S.  
2016; 41 (14): E857-E868
- **Does provocative discography cause clinically important injury to the lumbar intervertebral disc? A 10-year matched cohort study.** *spine journal*  
Cuellar, J. M., Stauff, M. P., Herzog, R. J., Carrino, J. A., Baker, G. A., Carragee, E. J.  
2016; 16 (3): 273-280
- **Research design considerations for single-dose analgesic clinical trials in acute pain: IMMPACT recommendations.** *Pain*  
Cooper, S. A., Desjardins, P. J., Turk, D. C., Dworkin, R. H., Katz, N. P., Kehlet, H., Ballantyne, J. C., Burke, L. B., Carragee, E., Cowan, P., Croll, S., Dionne, R. A., Farrar, et al  
2016; 157 (2): 288-301
- **Surgical versus non-surgical treatment for lumbar spinal stenosis.** *Cochrane database of systematic reviews*  
Zaina, F., Tomkins-Lane, C., Carragee, E., Negrini, S.  
2016: CD010264-?
- **Surgical versus non-surgical treatment for lumbar spinal stenosis** *COCHRANE DATABASE OF SYSTEMATIC REVIEWS*  
Zaina, F., Tomkins-Lane, C., Carragee, E., Negrini, S.  
2016
- **From Anzac to Afghanistan: have 100 years taught us nothing about the devastation of war?** *SPINE JOURNAL*  
Carragee, E. J.  
2015; 15 (12): 2453
- **Report of the NIH Task Force on Research Standards for Chronic Low Back Pain.** *International journal of therapeutic massage & bodywork*  
Deyo, R. A., Dworkin, S. F., Amtmann, D., Andersson, G., Borenstein, D., Carragee, E., Carrino, J., Chou, R., Cook, K., Delitto, A., Goertz, C., Khalsa, P., Loeser, et al  
2015; 8 (3): 16-33
- **Novel diagnostic and prognostic methods for disc degeneration and low back pain** *SPINE JOURNAL*  
Samartzis, D., Borthakur, A., Belfer, I., Bow, C., Lotz, J. C., Wang, H., Cheung, K. M., Carragee, E., Karppinen, J.  
2015; 15 (9): 1919-1932
- **Oral Steroids for Acute Radiculopathy Due to a Herniated Lumbar Disk A Randomized Clinical Trial** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*  
Goldberg, H., Firtch, W., Tyburski, M., Pressman, A., Ackerson, L., Hamilton, L., Smith, W., Carver, R., Maratukulam, A., Won, L. A., Carragee, E., Avins, A. L.  
2015; 313 (19): 1915-1923
- **Report of the NIH Task Force on research standards for chronic low back pain.** *Physical therapy*  
Deyo, R. A., Dworkin, S. F., Amtmann, D., Andersson, G., Borenstein, D., Carragee, E., Carrino, J., Chou, R., Cook, K., Delitto, A., Goertz, C., Khalsa, P., Loeser, et al  
2015; 95 (2): e1-e18
- **Clearing the cervical spine in Plato's cave** *SPINE JOURNAL*  
Schoenfeld, A. J., Carragee, E. J.  
2014; 14 (11): 2554-56

- **Focus article: report of the NIH task force on research standards for chronic low back pain** *EUROPEAN SPINE JOURNAL*  
Deyo, R. A., Dworkin, S. F., Amtmann, D., Andersson, G., Borenstein, D., Carragee, E., Carrino, J., Chou, R., Cook, K., Delitto, A., Goertz, C., Khalsa, P., Loeser, et al  
2014; 23 (10): 2028-2045
- **REPORT OF THE NATIONAL INSTITUTES OF HEALTH TASK FORCE ON RESEARCH STANDARDS FOR CHRONIC LOW BACK PAIN** *JOURNAL OF MANIPULATIVE AND PHYSIOLOGICAL THERAPEUTICS*  
Deyo, R. A., Dworkin, S. F., Amtmann, D., Andersson, G., Borenstein, D., Carragee, E., Carrino, J., Chou, R., Cook, K., Delitto, A., Goertz, C., Khalsa, P., Loeser, et al  
2014; 37 (7): 449-467
- **Focus Article Report of the NIH Task Force on Research Standards for Chronic Low Back Pain** *CLINICAL JOURNAL OF PAIN*  
Deyo, R. A., Dworkin, S. F., Amtmann, D., Andersson, G., Borenstein, D., Carragee, E., Carrino, J., Chou, R., Cook, K., Delitto, A., Goertz, C., Khalsa, P., Loeser, et al  
2014; 30 (8): 701-712
- **Report of the NIH Task Force on Research Standards for Chronic Low Back Pain** *PAIN MEDICINE*  
Deyo, R. A., Dworkin, S. F., Amtmann, D., Andersson, G., Borenstein, D., Carragee, E., Carrino, J., Chou, R., Cook, K., Delitto, A., Goertz, C., Khalsa, P., Loeser, et al  
2014; 15 (8): 1249-1267
- **Report of the NIH Task Force on Research Standards for Chronic Low Back Pain** *SPINE JOURNAL*  
Deyo, R. A., Dworkin, S. F., Amtmann, D., Andersson, G., Borenstein, D., Carragee, E., Carrino, J., Chou, R., Cook, K., Delitto, A., Goertz, C., Khalsa, P., Loeser, et al  
2014; 14 (8): 1375-1391
- **Report of the NIH Task Force on Research Standards for Chronic Low Back Pain** *SPINE*  
Deyo, R. A., Dworkin, S. F., Amtmann, D., Andersson, G., Borenstein, D., Carragee, E., Carrino, J., Chou, R., Cook, K., Delitto, A., Goertz, C., Khalsa, P., Loeser, et al  
2014; 39 (14): 1128-1143
- **Report of the NIH Task Force on Research Standards for Chronic Low Back Pain** *JOURNAL OF PAIN*  
Deyo, R. A., Dworkin, S. F., Amtmann, D., Andersson, G., Borenstein, D., Carragee, E., Carrino, J., Chou, R., Cook, K., Delitto, A., Goertz, C., Khalsa, P., Loeser, et al  
2014; 15 (6): 569-585
- **Vertebral compression fracture rules** *SPINE JOURNAL*  
Stauff, M. P., Carragee, E. J.  
2014; 14 (6): 971-72
- **Re: BMP-2 Augmented Fusion in the Low-Risk, Healthy Subjects: A Confirmation of Effectiveness and Harms Highlights the Need for Study in High Risk Patients** *SPINE*  
Carragee, E. J.  
2014; 39 (4): 341-42
- **Does the presence of the fibronectin-aggrecan 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
- **Spinal Bracing in Adolescent Idiopathic Scoliosis** *NEW ENGLAND JOURNAL OF MEDICINE*  
Carragee, E. J., Lehman, R. A.  
2013; 369 (16): 1558-60
- **Cancer risk after use of recombinant bone morphogenetic protein-2 for spinal arthrodesis.** *journal of bone and joint surgery. American volume*  
Carragee, E. J., Chu, G., Rohatgi, R., Hurwitz, E. L., Weiner, B. K., Yoon, S. T., Comer, G., Kopjar, B.  
2013; 95 (17): 1537-1545
- **Cancer Risk After Use of Recombinant Bone Morphogenetic Protein-2 for Spinal Arthrodesis** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*  
Carragee, E. J., Chu, G., Rohatgi, R., Hurwitz, E. L., Weiner, B. K., Yoon, S. T., Comer, G., Kopjar, B.

2013; 95A (17): 1537-1545

- **Moving forward after YODA** *SPINE JOURNAL*  
Weiner, B. K., Hurwitz, E. L., Schoene, M. L., Carragee, E. J.  
2013; 13 (9): 995-97
- **Magnetic resonance imaging predictors of surgical outcome in patients with lumbar intervertebral disc herniation.** *Spine*  
Lurie, J. D., Moses, R. A., Tosteson, A. N., Tosteson, T. D., Carragee, E. J., Carrino, J. A., Kaiser, J. A., Herzog, R. J.  
2013; 38 (14): 1216-1225
- **Does a Fibronectin and Aggrecan Complex Play a Role in Painful Vertebral Disks?** *PM&R*  
Cuellar, J. M., Golish, S. R., Leroux, E. J., Reuter, M. W., Carragee, E. J., Hanna, L. S., Scuderi, G. J.  
2013; 5 (4): 297-302
- **Preface disc degeneration for The Spine Journal** *SPINE JOURNAL*  
Samartzis, D., Carragee, E. J.  
2013; 13 (3): 215-16
- **Thoracolumbar fracture dislocation sustained during childbirth in a patient with ankylosing spondylitis** *SPINE JOURNAL*  
Mayle, R. E., Cheng, I., Carragee, E. J.  
2012; 12 (11): E5-E8
- **Functional assessment of the acute local and distal transplantation of human neural stem cells after spinal cord injury** *SPINE JOURNAL*  
Cheng, I., Mayle, R. E., Cox, C. A., Park, D. Y., Smith, R. L., Corcoran-Schwartz, I., Ponnusamy, K. E., Oshtory, R., Smuck, M. W., Mitra, R., Kharazi, A. I., Carragee, E. J.  
2012; 12 (11): 1040-1044
- **Retrograde ejaculation after anterior lumbar interbody fusion with and without bone morphogenetic protein-2 augmentation: a 10-year cohort controlled study** *SPINE JOURNAL*  
Comer, G. C., Smith, M. W., Hurwitz, E. L., Mitsunaga, K. A., Kessler, R., Carragee, E. J.  
2012; 12 (10): 881-890
- **Commentary: Despite reports of catastrophic complications, why recombinant human bone morphogenetic protein-2 should be available for use in anterior cervical spine surgery** *SPINE JOURNAL*  
Riew, K., Carragee, E. J.  
2012; 12 (10): 900-901
- **A biologic without guidelines: the YODA project and the future of bone morphogenetic protein-2 research** *SPINE JOURNAL*  
Carragee, E. J., Baker, R. M., Benzel, E. C., Bigos, S. J., Cheng, I., Corbin, T. P., Deyo, R. A., Hurwitz, E. L., Jarvik, J. G., Kang, J. D., Lurie, J. D., Mroz, T. E., Oener, et al  
2012; 12 (10): 877-880
- **Commentary: Penetrating neck injury: George Orwell is "Struck by Lightning"** *SPINE JOURNAL*  
Carragee, E. J.  
2012; 12 (9): 769-770
- **Wartime spine injuries: understanding the improvised explosive device and biophysics of blast trauma** *SPINE JOURNAL*  
Kang, D. G., Lehman, R. A., Carragee, E. J.  
2012; 12 (9): 849-857
- **Spine-area pain in military personnel: a review of epidemiology, etiology, diagnosis, and treatment** *SPINE JOURNAL*  
Cohen, S. P., Gallagher, R. M., Davis, S. A., Griffith, S. R., Carragee, E. J.  
2012; 12 (9): 833-842
- **Commentary: Battle injuries: Jessica Lynch sets the record straight** *SPINE JOURNAL*  
Carragee, E. J.  
2012; 12 (9): 830-832
- **Marching home, again: spine casualties, combat exposure, and the long wars** *SPINE JOURNAL*  
Carragee, E. J.  
2012; 12 (9): 723-726

- **Commentary: The veteran: "A need to talk but no one wanted to hear about it"** *SPINE JOURNAL*  
Carragee, E. J.  
2012; 12 (9): 804-805
- **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
- **Commentary: Revision lumbar surgery and revisiting the role of preoperative depression screening** *SPINE JOURNAL*  
Carragee, E. J., Telles, C. J.  
2012; 12 (3): 186-188
- **Overview of Axial Skeleton Injuries: Burden of Disease** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS*  
Carragee, E. J.  
2012; 20: S18-S22
- **Managing Nonspecific Low Back Pain Do Nonclinical Patient Characteristics Matter?** *SPINE*  
Weiner, S. S., Weiser, S. R., Carragee, E. J., Nordin, M.  
2011; 36 (23): 1987-1994
- **Commentary: One small step** *SPINE JOURNAL*  
Smuck, M., Carragee, E. J.  
2011; 11 (9): 824-825
- **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
- **Outcome of Lumbar Epidural Steroid Injection Is Predicted by Assay of a Complex of Fibronectin and Aggrecan From Epidural Lavage** *SPINE*  
Golish, S. R., Hanna, L. S., Bowser, R. P., Montesano, P. X., Carragee, E. J., Scuderi, G. J.  
2011; 36 (18): 1464-1469
- **Future directions for The Spine Journal: managing and reporting conflict of interest issues** *SPINE JOURNAL*  
Carragee, E. J., Hurwitz, E. L., Weiner, B. K., Bono, C. M., Rothman, D. J.  
2011; 11 (8): 695-697
- **Local bone graft harvesting and volumes in posterolateral lumbar fusion: a technical report** *SPINE JOURNAL*  
Carragee, E. J., Comer, G. C., Smith, M. W.  
2011; 11 (6): 540-544
- **Retrograde ejaculation after anterior lumbar interbody fusion using rhBMP-2: a cohort controlled study** *SPINE JOURNAL*  
Carragee, E. J., Mitsunaga, K. A., Hurwitz, E. L., Scuderi, G. J.  
2011; 11 (6): 511-516
- **A challenge to integrity in spine publications: years of living dangerously with the promotion of bone growth factors** *SPINE JOURNAL*  
Carragee, E. J., Ghanayem, A. J., Weiner, B. K., Rothman, D. J., Bono, C. M.  
2011; 11 (6): 463-468
- **A critical review of recombinant human bone morphogenetic protein-2 trials in spinal surgery: emerging safety concerns and lessons learned** *SPINE JOURNAL*  
Carragee, E. J., Hurwitz, E. L., Weiner, B. K.  
2011; 11 (6): 471-491
- **Are Persistently Symptomatic Vertebral Compression Fractures Associated With Abnormal Inflammatory Profiles? A Prospective Study** *JOURNAL OF SPINAL DISORDERS & TECHNIQUES*  
Golish, S. R., Hanna, L. S., Cuellar, J. M., Fernyhough, J. C., Campbell, D. R., Carragee, E. J., Scuderi, G. J.  
2011; 24 (2): 121-125
- **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.

2011; 68 (3): 674-681

- **Pregabalin as a Neuroprotector after Spinal Cord Injury in Rats: Biochemical Analysis and Effect on Glial Cells** *JOURNAL OF KOREAN MEDICAL SCIENCE*  
Ha, K., Carragee, E., Cheng, I., Kwon, S., Kim, Y.  
2011; 26 (3): 404-411
- **Intradiscal treatment of back pain** *SPINE JOURNAL*  
Carragee, E. J.  
2011; 11 (2): 97-99
- **A case of late epidural hematoma in a patient on clopidogrel therapy postoperatively: when is it safe to resume antiplatelet agents?** *SPINE JOURNAL*  
Carragee, E. J., Golish, S. R., Scuderi, G. J.  
2011; 11 (1): E1-E4
- **Accelerated Degeneration After Failed Cervical and Lumbar Nucleoplasty** *JOURNAL OF SPINAL DISORDERS & TECHNIQUES*  
Cuellar, V. G., Cuellar, J. M., Vaccaro, A. R., Carragee, E. J., Scuderi, G. J.  
2010; 23 (8): 521-524
- **Lumbar Provocation Diskography: Helpful or Harmful? Rebutts** *PM&R*  
Carragee, E.  
2010; 2 (10): 967-68
- **Lumbar Provocation Diskography: Helpful or Harmful? Responds** *PM&R*  
Carragee, E.  
2010; 2 (10): 960-65
- **Identification of a complex between fibronectin and aggrecan G3 domain in synovial fluid of patients with painful meniscal pathology** *CLINICAL BIOCHEMISTRY*  
Scuderi, G. J., Woolf, N., Dent, K., Golish, S. R., Cuellar, J. M., Cuellar, V. G., Yeomans, D. C., Carragee, E. J., Angst, M. S., Bowser, R., Hanna, L. S.  
2010; 43 (10-11): 808-814
- **The Increasing Morbidity of Elective Spinal Stenosis Surgery Is It Necessary?** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*  
Carragee, E. J.  
2010; 303 (13): 1309-10
- **Minimum acceptable outcomes after lumbar spinal fusion** *SPINE JOURNAL*  
Carragee, E. J., Cheng, I.  
2010; 10 (4): 313-320
- **The rise and fall of the "minimum clinically important difference"** *SPINE JOURNAL*  
Carragee, E. J.  
2010; 10 (4): 283-84
- **The vertebroplasty affair: the mysterious case of the disappearing effect size** *SPINE JOURNAL*  
Carragee, E. J.  
2010; 10 (3): 191-192
- **Cytokine evaluation in individuals with low back pain using discographic lavage** *SPINE JOURNAL*  
Cuellar, J. M., Golish, S. R., Reuter, M. W., Cuellar, V. G., Angst, M. S., Carragee, E. J., Yeomans, D. C., Scuderi, G. J.  
2010; 10 (3): 212-218
- **Pseudomorbidity in iliac crest bone graft harvesting: the rise of rhBMP-2 in short-segment posterior lumbar fusion** *SPINE JOURNAL*  
Carragee, E. J., Bono, C. M., Scuderi, G. J.  
2009; 9 (11): 873-879
- **Epidural Interferon Gamma-Immunoreactivity A Biomarker for Lumbar Nerve Root Irritation** *SPINE*  
Scuderi, G. J., Cuellar, J. M., Cuellar, V. G., Yeomans, D. C., Carragee, E. J., Angst, M. S.  
2009; 34 (21): 2311-2317

- **2009 ISSLS Prize Winner: Does Discography Cause Accelerated Progression of Degeneration Changes in the Lumbar Disc A Ten-Year Matched Cohort Study** *SPINE*  
Carragee, E. J., Don, A. S., Hurwitz, E. L., Cuellar, J. M., Carrino, J., Herzog, R.  
2009; 34 (21): 2338-2345
- **Continuing debate: validity and utility of magnetic resonance imaging of the upper cervical spine after whiplash exposure** *SPINE JOURNAL*  
Carragee, E. J.  
2009; 9 (9): 778-779
- **A Prospective Cohort Study of Close Interval Computed Tomography and Magnetic Resonance Imaging After Primary Lumbar Discectomy Factors Associated With Recurrent Disc Herniation and Disc Height Loss** *SPINE*  
McGirt, M. J., Eustacchio, S., Varga, P., Vilendecic, M., Trummer, M., Gorenssek, M., Ledic, D., Carragee, E. J.  
2009; 34 (19): 2044-2051
- **Changes in posterior lumbar disk contour abnormality with flexion-extension movement in subjects with low back pain and degenerative disk disease.** *PM & R : the journal of injury, function, and rehabilitation*  
Lee, S., Lee, J., Butts, K., Carragee, E., Fredericson, M.  
2009; 1 (6): 541-546
- **Changes in Posterior Lumbar Disk Contour Abnormality with Flexion-Extension Movement in Subjects with Low Back Pain and Degenerative Disk Disease** *PM&R*  
Lee, S., Lee, J., Butts, K., Carragee, E., Fredericson, M.  
2009; 1 (6): 541-546
- **Surgery for Low Back Pain A Review of the Evidence for an American Pain Society Clinical Practice Guideline** *SPINE*  
Chou, R., Baisden, J., Carragee, E. J., Resnick, D. K., Shaffer, W. O., Loeser, J. D.  
2009; 34 (10): 1094-1109
- **Great Expectations** *JOURNAL OF RHEUMATOLOGY*  
Carragee, E. J.  
2009; 36 (5): 869-71
- **Interventional Therapies, Surgery, and Interdisciplinary Rehabilitation for Low Back Pain An Evidence-Based Clinical Practice Guideline From the American Pain Society** *SPINE*  
Chou, R., Loeser, J. D., Owens, D. K., Rosenquist, R. W., Atlas, S. J., Baisden, J., Carragee, E. J., Grabois, M., Murphy, D. R., Resnick, D. K., Stanos, S. P., Shaffer, W. O., Wall, et al  
2009; 34 (10): 1066-1077
- **Lifetime Asymptomatic for Back Pain The Validity of Self-report Measures in Soldiers** *SPINE*  
Carragee, E. J., Cohen, S. P.  
2009; 34 (9): 978-983
- **Clinical Research Is the Spine Field a Mine Field?** *SPINE*  
Carragee, E. J., Deyo, R. A., Kovacs, F. M., Peul, W. C., Lurie, J. D., Urrutia, G., Corbin, T. P., Schoene, M. L.  
2009; 34 (5): 423-430
- **Assessment of neck pain and its associated disorders (vol 17, pg S101, 2008)** *EUROPEAN SPINE JOURNAL*  
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