



J. Patrick Johnson, M.D., M.S.

Philosophy of Care

As a spinal surgeon I want to treat patients and their families with the same care I want for me and my family. This means providing the highest degree of professionalism that exists today to provide compassionate care and the best possible clinical outcomes with the most efficient and lasting results.

Clinical Interests

My clinical interests include a wide variety of essentially all aspects of spinal surgical problems that include degenerative and traumatic problems, neoplasms, tumors, vascular lesions, infections, congenital abnormalities, spinal deformity including scoliosis and kyphosis and failed surgical cases involving all regions and levels of the spinal column. A particular interest that I have always welcomed is evaluating and treating spinal problems that are considered the most complex and challenging that most surgeons are not will to take into consideration.

Research/Academic Interests: Clinical research has been a career-long focus of my daily practice as a spine surgeon. We have been involved in the development of many new concepts in spinal implant technologies and these include FDA/IDE studies of artificial discs that are now used in regular clinical practice. We have also been doing clinical research to develop computer guided spine surgical techniques, since their inception in the early 1990's that is now becoming a mature technology used in daily practice. We now are now merging endoscopic surgery with computer guided surgery to improve precision and perform the most complicated surgeries with less invasive techniques.

Basic research interests in application of stem cell technologies that have been related to translational research in collaboration with basic scientists to develop new methods of cellular technology to repair spinal discs and bone repair as well as repair of nerve and spinal cord injuries and abnormalities.

Title Clinical Professor, Co-Director Neurosurgery Spine Fellowship Program

Specialty Neurological Surgery

Department [Neurological Surgery](#)

Division Neurological Surgery

Clinic Neurological Surgery Clinic

Center/Program Affiliation [Spine Center](#)

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Languages Spanish

Education M.D., Oregon Health & Science University School of Medicine, Portland, Oregon, 1986
M.S., Oregon Health & Science University School of Medicine, Portland, Oregon, 1981
B.A., The Citadel, Charleston, SC, 1978

Internships UCLA Medical Center, Los Angeles, CA, 1987

Residency UCLA Medical Center, Los Angeles, CA, 1992

Fellowships National Hospital for Nervous Diseases, Queen Square, London, 1990
University of Tennessee, Memphis, TN, 1993

Board Certifications American Board of Neurological Surgery, 1996

Professional Memberships AANS/CNS Joint Spine Section ? Executive Committee
American Association for the Advancement of Science
American Association of Neurological Surgeons
American Association of Spine Physicians
American College of Surgeons
California Association of Neurological Surgeons ? Director and Board Member
Congress of Neurological Surgeons
Editorial Board Member, Journal of Critical Spine Cases, 2009-present
Editorial Board Member, Neurosurgery, 2010-present
Editorial Board Member, Surgical Neurology, 2005-2011
Editorial Board Member, The Spine Journal (Journal of the North American Spine Society), 2000-2009
Editorial Board Member, World Journal of Surgery, 1996-present
Foundation for International Education in Neurosurgery (FIENS) ? Board Member
Los Angeles County Medical Association
Los Angeles Surgical Society
Neurosurgical Society of America



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North American Spine Society
ONE Spine ? Board Member
Professional Bull Riders
Professional Rodeo Cowboys Association
Rocky Mountain Neurosurgical Society
Scoliosis Research Society
Spine Institute Foundation - President and CEO
Topic Editorial Member, Neurosurgical Focus (Journal of Neurosurgery), 2000-present
Western Neurosurgical Society

Honors and Awards

Cedars-Sinai Department of Neurosurgery, ?Golden Apple Award? for Outstanding Teaching Award, 2010
Cedars-Sinai Institute for Spinal Disorders Fellowship Outstanding Teaching Award (2005, 2007), 2009
UCLA Outstanding Physician of the Year, 1996
US News and World Reports ?Best Doctors? 2009, 2010, 2011, 2012, 2013, 2014, 2015
Southern California ?Super Doctors? in Neurosurgery 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015
Castle Connolly ?Top Doctors? in the USA 2009, 2010, 2011, 2012, 2013, 2014, 2015
Who?s Who in Medicine and Healthcare, 1997-2015

Select Recent Publications

Drazin DG, Shweikeh F, Wieshofer E, Kim TT, Johnson JP: Public awareness of the bone morphogenetic protein controversy: evidence from news publications. Surg Neurol Int. 2014 Dec; 5: 529.

Shweikeh F Al-Khouja L, Nuno M, Johnson JP, Drazin DG, Adamo MA: Disparities in Clinical and Economic outcomes in children and adolescents following surgery for tethered cord syndrome in the United States. J Neurosurg: Pediatrics. 2015, Apr, Vol 15(4):427-33.

Shirzadi AS, Drazin DG, Gates M, Shirzadi N, Bannykh S, Fan X, Hunt L, Baron EM, King WA, Kim TT, Johnson JP: Surgical management of primary spinal hemangiopericytomas: an institutional case series and review of the literature. Eur Spine J. 2013 May; 22 Suppl 3:S450-9.



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Samudrala S, Vaynman S, Thiayananthan T, Ghostine S, Bergey DL, Pashman RS, Johnson JP:.
Pedicle Subtraction Osteotomy for Kyphosis of the Cervicothoracic Junction: A New Approach, J of
Neurosurgery-Spine, 2010 Dec; 13(6): p695-706.

Wagner W, Regan JJ, Leary SP, Lanman TH, Johnson JP, Rao RK, Cossman D: Access strategies for
revision or explanation of the Charité lumbar artificial disc replacement. J of Vascular Surgery,
2006 Dec;44(6):1266-72.

Hsieh J, Drazin DG, Firempong A, Pashman RS, Johnson JP, Kim TT: Accuracy of intraoperative
computed-tomography image-guided surgery (CT-IGS) in placing pedicle and pelvic screws for
primary versus revision spine surgery. Neurosurg Focus. 2014; 36 (3).

Johnson JP, Drazin DG, King WA, Kim TT: Image-Guided Navigation and Video Assisted
Thoracoscopic Spine Surgery: The Second Generation. Neurosurg Focus. 2014; 36 (3).

Shweikeh F, Amadio J, Arnell M, Barnard Z, Kim TT, Johnson JP, MD1; Drazin DG: Robotics and
the Spine: A Review of Current and Ongoing Applications. Neurosurg Focus. 2014; 36 (3).

Ghostine S, Vaynman S, Schoeb JS, Cambron HO, King WA, Samudrala S, Johnson JP. Image-
guided thoracoscopic resection of thoracic dumbbell nerve sheath tumors. Neurosurgery 2012 Feb;
70(2):461-468.

Drazin D, Shirzadi S, Jeswani S, Ching H, Rosner J, Rasouli A, Kim TT, Pashman RS, Johnson JP:
Direct surgical repair of lumbar spondylolysis in athletes: indications, techniques, and outcomes.
Neurosurg Focus. 2011 Nov; 31 (5):E9.



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Mundwiler ML, Siddique K, Dym JM, Perri B, Johnson JP, Weisman MH. Complications of the spine in ankylosing spondylitis with a focus on deformity correction. *Neurosurg Focus*. 2008; 24(1): E6.

Villavicencio AT, Burneikene S, Pashman RS, Johnson JP, Spinal Artificial Disc Replacement: Cervical Arthroplasty; Part I: History, Design, and Types of Artificial Discs. *Contemporary Neurosurgery* 2007 Jun 15; 29(12).

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