

JUAN CARLOS RODRÍGUEZ, M.D., PH.D.

OFFICE LOCATIONS

Manhattan Orthopaedics, PC
130 East 77th Street, 7th Floor
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The Spine and Arthritis Center
263 7th Avenue, 2nd Floor
Brooklyn, NY 11215

EDUCATION

04/1987	Doctor of Medicine Medicine Universidad de Salamanca, Spain
08/2002	Ph.D. in Biomechanics Universidad Complutense, Spain

INTERNSHIP AND RESIDENCIES

07/1989- 06/1990	Internship in General Surgery Ponce District Hospital, Ponce, Puerto Rico
04/1996 - 04/2001	Residency in Orthopaedic Surgery Hospital Clinico San Carlos, Madrid, Spain

CLINICAL AND RESEARCH FELLOWSHIPS

08/2001- 07/2002	Fellowship in Spine Surgery NYU Hospital for Joint Diseases, New York
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LICENSURE AND CERTIFICATIONS

04/1987	Spain License Registration # 45990
07/1989	ECFMG Certificate # 368 – 712-6
12/1994	FLEX Certificate # 580817500
09/2006	New York State License Registration # 241813

ACADEMIC APPOINTMENTS

09/2009- Present	Assistant Clinical Professor of Orthopaedic Surgery NYU School of Medicine, New York
09/2006- Present	Assistant Clinical Professor of Orthopaedic Surgery SUNY Downstate Medical Center, New York

HOSPITAL APPOINTMENTS

05/2011- Pending	Assistant Attending Physician in Spine Surgery Lenox Hill Hospital/ NSLIJ
09/2009- Present	Orthopedic Attending Physician in Spine Surgery NYU Hospital for Joint Diseases, New York
06/2008- 04/2009	Orthopedic Attending Physician in Spine Surgery Hospital Quiron, Madrid, Spain
04/2007- 04/2011	Director of Orthopaedic Spine Surgery Maimonides Medical Center, New York
12/2006 -04/2008	Director of Orthopaedic Spine Surgery Kings County Hospital, New York
09/2006- Present	Orthopedic Attending Physician in Spine Surgery SUNY Downstate Medical Center, New York
06/2003- 07/2006	Orthopedic Attending Physician in Spine Surgery Hospital Miguel Servet, Spain
09/2002- 12/2002	Orthopedic Attending Physician in Spine Surgery Hospital Santiago Vitoria, Spain

AWARDS AND HONORS

10/2002	Best Basic Science Presentation in Spanish Orthopedic Association Annual Meeting, HEALOS collagen matrix as the optimal carrier for rhBMP-2 induced posterior spinal fusion in a rat model.
10/1999	Best Clinical Presentation in Spanish Orthopedic Association Annual Meeting Treatment of femoral head fractures with LD hemiarthroplasty.

PUBLICATIONS

Andrew Merola, Carl Paulino, Nael Shanti, Simon Morr and Juan Carlos Rodriguez Olaverri; Modern scoliosis techniques: the use of thoracic pedicle screws for the correction of spinal deformity, *Current Opinion in Orthopedic*, May 2009

Juan Carlos Rodriguez Olaverri, MD, PhD, Andrew Merola, Gabriel Piza Vallespir, Jesus Burgos, Eduardo Hevia, Javier Vicente, Ignacio Sanpera, Pedro Domenech, José Maruenda, Gema De Blas, Regidor Ignacio: Triggered Electromyographic Threshold in the Intercostals Muscle to evaluate the accuracy of High Thoracic Pedicle Screw Placement: *Spine*. 2008 Apr 1;33(7):E194-7.

Vallespir GP, Flores JB, Triqueros IS, Sierra EH, Fernandez PD, Rodriguez Olaverri JC, Alonso MG,, Galea RR, Francisco AP, Rodriguez de la Paz, Carbonell PG, Thomas, JV, Lopez JL, Paulina JI, Pitarque CB, Garcia OR. Vertebral coplanar alignment: a standardized technique for three dimensional correction in scoliosis surgery: technical description and preliminary results in lenke type 1 curves. *Spine*. June 15, 2008; 15;33(14):1588-97.

Juan Carlos Rodriguez Olaverri, MD, PhD, Andrew Merola, Javier Vicente, Javier Rodriguez, Antonio Tabuenca, AntonioLoste, Enrique Suñen, Jesus Burgos, Eduardo Hevia, Gabriel Piza Vallespir, Ignacio Sanpera, Pedro Doménech Clinical and Radiological Outcome of Pedicular Transvertebral Screw Fixation of the Lumbosacral Spine in Spondylolisthesis vs. Unilateral Transforaminal Lumbar Interbody Fusion (TLIF) with cages; *Spine* 2008, August 15, 33, Number 18, pp 1977–1981

Rodriguez-Olaverri JC, Hasharoni A, DeWal H, Nuzzo RM, Kummer FJ, Errico TJ. New York University, Hospital for Joint Diseases, Spine Center, The effect of end screw orientation on the stability of anterior instrumentation in cyclic lateral bending. *Spine J*. 2005 Sep-Oct; 5(5):554-7.

Cardoso Z, Rodríguez Olaverri JC, García Fernandez C, Leon Serrano C, Lopez-Duran L.: Tratamiento de las Fracturas de Odontoide: *Revista Fundación Mafre Medicina* 2000;135-145

Candelas G, Jover JA, Fernández B, Rodríguez Olaverri JC, Calatayud Perforation of the sigmoid colon in a reumathoid patient treated with methylprednisolone pulses: *Scand J Rheumatol* 1998;27(2):152-153

Rodriguez Olaverri JC, Shanti N, Paulino C, Getter R, Patel A, Garcia de Quesada I: How many thoracic pedicle are needed for the correction of Lenke type I Adolescent Idiopathic Scoliosis Send to Spine peding revision of question by reviewers

Thomas J. Errico, Orin Atlas, Juan Carlos Rodriguez Olaverri: The Surgical Treatment of Sagittal Plane Deformity, *The Lumbar Spine*, third edition, Chapter 68, 628-635

SPINE PRESENTATIONS

Rodriguez Olaverri JC, Shanti N, Paulino C, Getter R, Patel A, Garcia de Quesada I: How many thoracic pedicle are needed for the correction of Lenke type I Adolescent Idiopathic Scoliosis SRS Annual Meeting, September 2009

Juan Carlos Rodriguez Olaverri, MD, PhD ,Javier Vicente, Javier Rodriguez, Antonio Tabuenca, AntonioLoste, Enrique Suñen, Jesus Burgos, Eduardo Hevia, Gabriel Piza Vallespir, Ignacio Sanpera, Pedro Doménech Clinical and Radiological Outcome of Pedicular Transvertebral Screw Fixation of the Lumbosacral Spine in Spondylolisthesis vs. Unilateral Transforaminal Lumbar Interbody Fusion (TLIF) with cages, SRS Annual Meeting, September 2006

Juan Carlos Rodriguez Olaverri, MD, PhD, Gabriel Piza Vallespir, Jesus Burgos, Eduardo Hevia, Javier Vicente, Ignacio Sanpera, Pedro Domenech, José Maruenda, Gema De Blas,Regidor Ignacio: Triggered Electromyographic Threshold in the Intercostals Muscle to evaluate the accuracy of High Thoracic Pedicle Screw Placement, SRS Annual Meeting, September 2006, Choose for Hibs Award In Basic Science

Alvarez García de Quesada, LI; Hevia Sierra, E; Guillén Vicente, I; Fernández Picazo, MJ; Burgos Flores, J; Pizá Vallespí, G; Barrios Pitarque, C; Rodríguez Olaverri, JC. Analisis Sagital de la Prótesis Cervical de Bryan, Spanish Spine Society Annual Meeting, June 2006

Cardona Mafey, R.; Rodriguez, JC; Vicente, J; Suñen, ; Loste, A; Tabuenca, A; Rodriguez, J; Herrera, A; Burgos, J; Hevia, E; Piza, B; Samper, I; Domenech, P Cirugía Toracoscopica para el tratamiento de la patología de la columna toracica, Spanish Spine Society Annual Meeting, June 2006.

Cardona Mafey, R.; Rodriguez, JC; Vicente, J; Suñen, ; Loste, A; Tabuenca, A; Rodriguez, J; Herrera, A; Burgos, J; Hevia, E; Piza, B; Samper, I; Domenech, P Comparación en el tratamiento de la espondilolistesis de alto grado de los tornillos transacros y artrodesis posterolateral versus reducción TILIF y artrodesis 360 mediante TILIF, Spanish Spine Society Annual Meeting, June 2006.

Piza Vallespir, G.; Sanpera, I; Burgos, J; Hevia, E; Rodriguez, JC; Doménech, P; Maruenda, J Evaluación mediante TAC de tornillos pediculares tóracicos colocados con la técnica de manos libres en cirugía de deformidades vertebrales, curva de aprendizaje, Spanish Spine Society Annual Meeting, June 2006.

Burgos Flores, J.; Hevia Sierra, E; Sanpera Trigueros, I; Piza Vallespí, G; Domenech Fernández, P; Alvarez García De Quesada, I; Rodríguez Olaverri, JC; Amaya Alarcón, J Reducción quirurgica de la espondilolistesis graves.se recupera el plano sagital fisiologico, Spanish Spine Society Annual Meeting, June 2006.

Mallen Albir, JM.; Rodríguez, JC; Vicente, J; De Blas, G; Regidor, I; Burgos, J; Hevia, E; Piza, B; Samper, I; Doménech, Umbral de activación electromiográfica del músculo intercostal como método de evaluación de la localización del tornillo pedicular en la región torácica superior, Spanish Spine Society Annual Meeting, June 2004.

Piza Vallespir, G.; Sanpera, I; Burgos, J; Hevia, E; Rodríguez, JC; Doménech, Utilidad de la radiografía simple intraoperatoria para detectar errores en la colocación de los tornillos pediculares en la cirugía de la escoliosis, Spanish Spine Society Annual Meeting, June 2004.

Rodríguez Olaverri JC, "Thoracoscopic Spinal Instrumentation in the Treatment of Thoracic Fractures" Spanish Spine Society Annual Meeting, June 2004.

Rodríguez Olaverri JC, "Thoracoscopic Spinal Decompression In Spondylodiscitis of the Thoracic Spine" Spanish Spine Society Annual Meeting, June 2004.

Rodríguez Olaverri J.C., Hasharoni A., Errico T: "Biomechanical study of anterior instrumentation comparing polyaxial screws to angle screws at the end of the construct" Spanish Spine Society Annual Meeting, June 2003.

Rodríguez Olaverri JC, Hasharoni A, Errico T.: "Mini-Open Thoracotomy, Thoracoscopically Assisted and Anterior Thoracic Spine Release in Scoliosis Surgery". Meeting of the Americas, New York, April, 2002

Chisa Hidaka, Kohei Goshi, Juan Carlos Rodriguez, Bernard Rawlins, OhenebaBoachie-Adjei, Ronald G. Crystal ;" Gene Therapy in Spine Fusion-Rat Model"; Orthopaedic Research Society, San Francisco, February 2001

Rodríguez Olaverri JC, "Enhancement of Spine Fusion", Simposio de Cirugía del Raquis Lumbar, Madrid, Spain, January 25-27/2001

EXHIBITS

Rodríguez Olaverri J. C. ,MD,PhD, Neil Shanti,Nicholas Zimick, Andrew Merola: HEALOS collagen matriz as the optimal carrier for rhBMP-2 induced posterior spinal fusion in a rat model. AAO Las Vegas, February 2009

Diego Peña, JC Rodríguez Olaverri, A. Tabuenca Sánchez, E. Suñen Sanchez , A Loste Ramos, J Rodríguez Vela, J Vicente Thomas, A Herrera. Hospital Universitario Miguel Servet, Zaragoza, Spain. Diagnosis and Treatment of Three patients with Vertebral Hydatid Disease with follow-up of 11 years, Anual Meeting of the European Federation of National Associations of Orthopedics and Traumatology, Lisbon ,Portugal, June, 2005.Diego Peña, JC Rodriguez Olaverri, A. Tabuenca Sánchez E. Suñen , A Loste Ramos, J Rodríguez Vela, J Vicente Thomas, A Herrera. Hospital Universitario Miguel Servet, Zaragoza, Spain. The use of Video-Assisted Thoracoscopic Surgery in Spinal Cord Decompression and Fusion. Anual Meeting of the European Federation of National Associations of Orthopedics and Traumatology, Lisbon, Portugal, June 2005

JC Rodríguez Olaverri, A. Tabuenca Sánchez, E. Suñén Sánchez , A Loste Ramos, J Rodríguez Vela, J Vicente Thomas, A Herrera, Hospital Universitario Miguel Servet, Zaragoza. Análisis Clínico Radiológico de la Descompresión y Artrodesis Circunferencial con Cajas Intersomáticas Ojivales, mediante la técnica PLIF en pacientes con Espondilolistesis Degenerativa y Estenosis, Spanish Spine Society Annual Meeting, June 2005.

Juan Carlos Rodríguez Olaverri MD, PhD, Antonio Tabuenca MD, Antonio Loste MD, PhD, Enrique Suñén MD, Javier Rodríguez, MD, Javier Vicente, MD, Antonio Herrera. Clinical and Radiological Outcome of Pedicular Transvertebral Screw Fixation of the Lumbosacral Spine in Spondylolisthesis. Scoliosis Research Society, Forty Annual Meeting, Miami, Florida, October 2005.

JC Rodriguez Olaverri, E. Suñen , A Loste Ramos, J Vicente Thomas, A Herrera. Hospital Universitario Miguel Servet, Zaragoza, Spain, The Learning Curve of the free hand thoracic pedicle screw placement. European Spine, Barcelona, September 2005

Cebrian J L,Ibarzabal A, Rodríguez Olaverri JC, Molina M, Lopez-Duran L, Primitive Neuroectodermal Tumor after Radiotherapy Treatment; Anual Meeting of the European Federation of National Associations of Orthopedics and Traumatology, Rodas, Greece, May 2001

Rodríguez JC, Boachie-Adjei O, Rawlins BA: Surgical Management of Kyphotic Deformities with a Thirds Generation Spinal Instrumentation System. Scoliosis Research Society, Thirty-Fifth Annual Meeting, Cairns, Australia, October 18-21, 2000

Rodríguez JC, Boachie-Adjei O, Rawlins BA: Result of the Surgical Management and Complication of Severe Sagittal Deformities. Scoliosis Research Society, Thirty-Fifth Annual Meeting, Cairns, Australia, October 18-21, 2000

ACADEMIC ELECTRONIC POSTERS

Juan Carlos Rodriguez Olaverri MD, PhD, Nael S, Paulino C, Merola A, Getter R, Patel A, Garcia de Quesada I, Restoration of thoracic kyphosis with direct vertebral rotation and translation with uniaxial reduction thoracic pedicle screws in Lenke Type I Adolescent Idiopathic Scoliosis: IMAST Meeting Viena, Austria, July 2009

Juan Carlos Rodriguez Olaverri, MD, PhD, Andrew Merola, Sameer Mathur, Andrew Moulton ; The Technique of Illio-Costal fixation for severe thoraco lumbar, kyphoscoliosis with impending respiratory failure; IMAST Meeting Athens, Greece, July 2006

Juan Carlos Rodriguez Olaverri, MD, PhD, Javier Vicente, Javier Rodriguez, Antonio Tabuenca, Antonio Loste, Enrique Suñen, Jesus Burgos, Eduardo Hevia, Gabriel Piza Vallespir, Ignacio Sanpera, Pedro Domenech, Clinical and Radiological Outcome of Pedicular Transvertebral Screw Fixation of the Lumbosacral Spine in Spondylolisthesis vs. Unilateral Transforaminal Lumbar Interbody Fusion (TLIF) with cages.; IMAST Meeting Athens, Greece, July 2006

Juan Carlos Rodriguez Olaverri, MD, PhD, Gabriel Piza Vallespir, Jesus Burgos, Eduardo Hevia, Javier Vicente, Ignacio Sanpera, Pedro Domenech, José Maruenda, Gema De Blas, Regidor Ignacio Triggered Electromyographic Threshold in the Intercostals Muscle to evaluate the accuracy of High Thoracic Pedicle Screw Placement, IMAST Meeting Athens, Greece, July 2006

Juan Carlos Rodriguez Olaverri, MD, PhD, Javier Vicente, Antonio Tabuenca, Gabriel Piza Vallespir, Ignacio Sanpera, Jesus Burgos, Eduardo Hevia, Pedro Domenech, Antonio Loste, Enrique Suñen, Javier Rodriguez, The role of thoracoscopic spinal surgery in the treatment of thoracolumbar spine diseases ; IMAST Meeting Athens, Greece, July 2006

RESEARCH GRANTS

Rodriguez Olaverri JC. Research in Basic Science Evaluation of Carriers for BMP Rat Spine Fusion Model. Universidad Complutense de Madrid. \$5,500

Rodriguez Olaverri JC: Stability of a Wiring Technique to Protect Pedicle Screw Fixation of the Upper Thoracic Spine in Long Fusion Instrumentation: Biomechanical Study with Calf Spine . DePuy Spine Research Grant \$4,000