

CURRICULUM VITAE

NAME: Mauricio Andres Valdes, MD
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ORTHOPAEDIC SURGERY EDUCATION AND TRAINING

Spine Surgery Fellow

Department of Orthopaedics
July, 2003 to June, 2004
Brown University
Providence, RI

Orthopedic Trauma Fellow

July, 2009 to June, 2010
Brown University/ Rhode Island Hospital
Providence, RI

Residency Program

Orthopaedic Surgery
July, 2004 to June, 2009
Brown University/ Rhode Island Hospital
Providence, RI

Intern Year

Department of General Surgery
July, 2004 to June, 2005
Brown University/ Rhode Island Hospital
Providence, RI

Residency Program

Orthopaedic Surgery
September, 1995 to November, 1999
Evaristo Garcia University Hospital/Universidad del Valle
Cali, Colombia

MEDICAL SCHOOL EDUCATION

Medical School

Javeriana University
June 1986 - January 1993
Santa Fe de Bogota, Colombia

Brown University
April, 1991 – November, 1991
Providence, RI

Special Orthopaedic Surgery Clerkships

Trauma

Peter G Trafton MD
March, 1998 to April, 1998
Rhode Island Hospital /Brown University
Providence, RI

Spine

Phillip Lucas MD
April, 1998 to May, 1998
September, 1998 to October, 1998
Rhode Island Hospital /Brown University
Providence, RI

Adult Reconstruction

Kurt Niemann MD
June, 1998 to August, 1998
Carraway Methodist Medical Center
Birmingham, AL

U. S. CERTIFICATION AND LICENSURE

Step I – September/2001

Step II – April/2002

Clinical Skills Assessment – May/2002

Step III – May/2003

**American Board of Orthopedic Surgery: Board certified/Diplomate
Fellow of the American Academy of Orthopedic Surgeons: FAAOS**

CURRENT EMPLOYMENT

Orthopedic Spine and Trauma Surgeon

Director of Spine Surgery

July, 2015-Current
Steward Healthcare Phoenix
(Formerly: Hedley's Orthopedic Institute/Physician Group of Arizona Inc./IASIS healthcare)
St Luke's Medical Center, Tempe St Luke's Hospital, Phoenix, AZ.
Mountain Vista Medical Center (Mesa, AZ).

PAST EMPLOYMENT

Orthopedic Trauma Surgeon

March 2015-June 2015
All-Star Recruiting
Ocala Regional Medical Center
Ocala, FL.

Orthopedic Spine Surgeon

October 2012-October 2014
Rockhill Orthopedic Specialists Inc.
Lee's Summit, MO.

Clinical Faculty- Member Physician

August 2010 – July 2012
The University of Arizona, College of Medicine
Department of Orthopaedic Surgery
University of Arizona Physicians
(Formerly known as University Physicians Healthcare)
Tucson, Arizona.

HOSPITAL AFFILIATIONS

CURRENT

Medical Staff

July 2015-Current
Tempe St Luke's Hospital,
Tempe, AZ
Mountain Vista Medical Center
Mesa, AZ

PAST

St Luke's Medical Center (),
Phoenix, AZ.
July 2015-November 2019

Ocala Regional Medical Center
Ocala, FL. March 2015-June 2015

Lee's Summit Medical Center
St Luke's East Hospital
St Luke's Surgicenter
Lee's Summit, MO.
Surgicenter of Kansas City
Kansas City, MO.
October 2012 – October 2014

University Medical Center-Main Campus
The University of Arizona Medical Center South Campus
(Formerly known as University Physicians Healthcare Hospital Kino Campus)
Camp Lowell Surgery Center
Tucson, Arizona.
August 2010 – July 2012

PAST ACADEMIC/FACULTY APPOINTMENTS

Assistant Professor, Orthopaedic Spine Surgery

August 2010 – July 2014
The University of Arizona, College of Medicine
Department of Orthopaedic Surgery
Tucson, Arizona

Orthopaedic Trauma Fellow

Teaching Fellow in Orthopaedics

Clinical Instructor in Orthopaedics

Brown University/ Rhode Island Hospital
July, 2009 to June, 2010

Orthopaedic Surgery Chief Resident

Assistant Clinical Instructor in Orthopaedics

Brown University/ Rhode Island Hospital
July, 2008 to June, 2009

PAST PROFESSIONAL EXPERIENCE

Assistant Professor, Orthopaedic Spine Surgery

August 2010 – July 2012

The University of Arizona, College of Medicine
Department of Orthopaedic Surgery
Tucson, Arizona

Spine Surgery Research Fellow

Department of Orthopaedics
Brown University
June, 2000 – June, 2003.
Providence, RI

Orthopaedic Surgeon

San Juan de Dios University Hospital
Clinica de Fracturas
Clinica de los Remedios
December, 1999 – May, 2000.
Cali, Colombia

General Practitioner

Clinica de Occidente
Intensive Care Unit - Emergency Room
February, 1994 – August, 1995
Cali, Colombia

Assistant at Dr's Gersain Rojas Office
(Orthopaedic Surgery Chairman at Universidad del Valle).
February, 1994 – August, 1995
Cali, Colombia

Social Service Year
Primitivo Iglesias Hospital
Clinica de Occidente
February, 1993 – January, 1994
Cali, Colombia

JOURNAL REVIEWER

Neurology India (ISSN 0028-3886) 2010.

International Journal of Biomedical Science (IJBS, ISSN 1550-9702) 2010.

PUBLICATIONS

Peer Reviewed Journals

S-1 alar/iliac screw technique for spinopelvic fixation. J Masson DePasse, MD, Mauricio Valdes MD, Mark A. Palumbo MD, Alan Daniels MD, Craig Ebersson MD. *Journal of Neurosurgery: Spine* 28:543-547, 2018.

Benign tumors of the spine. Thakur NA, Daniels AH, Schiller J, Valdes M, Czerwein JK, Schiller A, Terek R. *Journal of the American Academy of Orthopaedic Surgeons.* 2012 Nov;20 (11): 715-24.

Recombinant Bone Morphogenic Protein-2 in Orthopaedic Surgery: A review. Valdes M; Namdari S; Thakur N; Palumbo M; McCiombor D. *Archives of Orthopaedic and Trauma Surgery.* March 12, 2009.

rhBMP-6 stimulated osteoprogenitor cells enhance posterolateral spinal fusion in the New Zealand white rabbit. Valdes, M; Palumbo M, Appel AJ, Robertson A, Lucas PR, Keeping H, Moore DC, Ehrlich MG. *Spine J.* 2007 May-Jun;7(3):318-25. Epub 2007 Apr 6.

Parturition-Induced Pubic Symphysis Separation and Sacral Ala Fracture: Case Report and Review of the Medical Literature. Namdari, Surena MD; Valdes, Mauricio MD; Born, Christopher T. MD. *Journal of Pelvic Medicine & Surgery.* 13(6):383-390, November/December 2007.

Posterolateral intertransverse Lumbar fusion in the New Zealand White Rabbit. Part I: Surgical Anatomy. Palumbo M; Valdes M, Robertson A, Sheik S, Lucas P. *Spine J.* 2004 May-Jun; 4(3): 287-92.

Posterolateral intertransverse Lumbar fusion in the New Zealand White Rabbit. Part II: Surgical Technique. Valdes, M; Palumbo M, Appel AJ, McAllister S, Ehrlich M. *Spine J.* 2004 May-Jun; 4(3): 293-9.

Vascularization of a DBM Carrier Mass in the Lumbar Posterolateral Fusion Rabbit Model. Valdes M, Keeping H, Robertson A, Appel AJ, McGough R, Moore DC, Palumbo M, Lucas P, Ehrlich MG. Department of Orthopaedics, Brown University. Manuscript in preparation.

Delayed Implantation of rhBMP-6 Exposed Osteoprogenitor Cells Enhances Posterolateral Spinal Fusion in The New Zealand White Rabbit. Valdes M, Keeping H, Robertson A, Appel AJ, McGough R, Moore DC, Palumbo M, Lucas P, Ehrlich MG. Department of Orthopaedics, Brown University. Manuscript in preparation.

Textbook Chapters

Neck and Back Pain. P Lucas, M Palumbo, R Campbell, M Valdes. In Leppert PC, Peipert JF (Eds.): **Primary Care for Women, Second Edition.** Pages 648-652. Lippincott Williams and Wilkins 2004.

Abstracts

X-ray Reliability to Detect Spinous Process Fractures after Placement of Interspinous Process Spacer.

Lavelle W, Bianco A, Palumbo M, Madom I, Tallarico R, Valdes M, Galgano M, Yirenyki H, Geisler F.

-Rapid Fire Presentation #90. Lumbar Spine Research Society 2016 Annual Meeting, Chicago, IL, April 14-15, 2016.

Long Acting Opioid Antagonists Stimulate Mesenchymal Stem Cells Osteoblastic/Chondroblastic Differentiation.

Valdes M, Yang W, Wei L, Thakur N, Wang J, Li K, Sun X, Terek R, Lucas P, Palumbo M, Ehrlich M.

-Accepted at the Orthopaedic Research Society 2011 Annual Meeting. Long Beach, California, January 2011.

Osteoclast Development and skeletal Remodeling Requires PTPase Shp2. Yang W, Moore D, Zhao K, Wu Q, Valdes M, Kato S, Quesenberry P, Chen Q, Ehrlich MG.

-Submitted for the 56th Orthopaedic Research Society Meeting. New Orleans, LA; March, 2010.

PTPase Shp2 Promotes IGF1-evoked Chondrocyte Differentiation. Sun C, Wang Z, Valdes M, Wu Q, Chen D, Terek R, Moore DC, Quesenberry P, Chen Q, Ehrlich M, Yang W.

-16th Annual Research Celebration. Rhode Island Hospital. November, 2008. Abstracts of Presentations, page 82. Providence, RI.

Dose-dependent Naloxone Exposure Stimulates Osteoblastic Differentiation in Negatively Immunodepleted Mesenchymal Stem Cells. Valdes M, Yang W, Wei L, Terek R, Appleyard D, Sun C, Sun X, Ehrlich M.

-16th Annual Research Celebration. Rhode Island Hospital. November, 2008. Abstracts of Presentations, page 84. Providence, RI.

rhBMP-6 Exposed osteoprogenitor cell implantation time: Does it make a difference in achieving spinal fusion?.

M Valdes, H keeping, JA Appel, A Robertson, M Palumbo, P Lucas, M Ehrlich.

-*European Spine Journal.* Volume 12. Supplement 1. August, 2003. Page: s8 Abstract.

-*Spine J.* 2003. Sept-Oct; 3(5S):79S-80S.

Improving BMSCS stimulated spinal fusions by exposure to a rhBMP-6 cell derived matrix. M Valdes, H keeping, JA Appel, A Robertson, M Palumbo, P Lucas, M Ehrlich.

-*European Spine Journal.* Volume 12. Supplement 1. August, 2003. Page:s32 Abstract.

Enhancing Posterolateral Spinal Fusion with rhBMP-6 Exposed Osteoprogenitor Cells. Valdes M, Keeping H, Robertson A, Appel AJ, Moore DC; Palumbo M; Lucas P; Ehrlich MG. Department of Orthopaedics, Brown University.

-**Transactions of the 49th Orthopaedic Research Society Meeting.** Finalist for NIRA award. Abstract # 332. February, 2003. New Orleans, LA.

-10th Annual Research Celebration. Rhode Island Hospital. November, 2002. Abstracts of Presentations, page 91. Providence, RI.

-World Spine II Meeting. Proceedings. Pages 43-44. August, 2003. Chicago IL.

Vascularization of a DBM Carrier Mass in the Lumbar Posterolateral Fusion Rabbit Model. Valdes M, Keeping H, Robertson A, Appel AJ, McGough R, Moore DC, Palumbo M, Lucas P, Ehrlich MG. Department of Orthopaedics, Brown University.

-Transactions of the 49th Orthopaedic Research Society Meeting. Abstract # 1122. February, 2003. New Orleans, LA.

-10th Annual Research Celebration. Rhode Island Hospital. November, 2002. Abstracts of Presentations, page 158. Providence, RI.

-World Spine II Meeting. Proceedings. Pages 74-75. August, 2003. Chicago IL.

Posterolateral intertransverse Lumbar fusion in the New Zealand White Rabbit. Part I: Surgical Anatomy. Valdes, M; Palumbo M, Robertson A, Appel AJ, Sheik S, Lucas P, Ehrlich M. Department of Orthopaedics, Brown University.

-10th Annual Research Celebration. Rhode Island Hospital. November, 2002. Abstracts of Presentations, page 156. Providence, RI.

-World Spine II Meeting. Proceedings. Pages 174-175. August, 2003. Chicago IL.

Posterolateral intertransverse Lumbar fusion in the New Zealand White Rabbit. Part II: Surgical Technique. Valdes, M; Palumbo M, Appel AJ, Robertson A, McAllister S, Lucas P, Ehrlich M. Department of Orthopaedics, Brown University.

-10th Annual Research Celebration. Rhode Island Hospital. November, 2002. Abstracts of Presentations, page 157. Providence, RI.

-World Spine II Meeting. Proceedings. Pages 174-175. August, 2003. Chicago IL.

rhBMP-6 Exposed Osteoprogenitor Cells Promote Posterolateral Intertransverse Spinal Fusion in the New Zealand White Rabbit. Valdes M, Robertson A, Keeping H, Palumbo M, Lucas P, Ehrlich M. Department of Orthopaedics, Brown University.

-Transactions of the 48th Orthopaedic Research Society Meeting. Abstract # 800. February, 2002. Dallas, TX.

-9th Annual Research Celebration. Rhode Island Hospital. October, 2001. Abstracts of Presentations, page 81. Providence, RI.

PRESENTATIONS

Back Pain. Valdes M.

- Arizona Latin American Medical Association. October 8th, 2015. Phoenix, AZ.

Case Presentation – Acute Cervical Myelopathy. Valdes M, Lenehan, E, Berren M.

- Orthopaedic Surgery Graduation 2012 – Resident Research Presentation Day. June 29, 2012, Tucson, Arizona.

Thoracolumbar Spine Fractures. Valdes M.

- Orthopaedic Surgery Grand Rounds Teaching Conference, Arizona Health Sciences Center, March 14, 2012, Tucson, Arizona.

Cervical Spine Fractures. Valdes M.

- Orthopaedic Surgery Grand Rounds Teaching Conference, Arizona Health Sciences Center, October 12, 2011, Tucson, Arizona.

Tractions and Orthoses of the Spine. Valdes M.

- Orthopaedic Surgery Grand Rounds Teaching Conference, Arizona Health Sciences Center, June 15, 2011, Tucson, Arizona.

Spinal Orthoses. Valdes M.

- Neurosurgery Didactic Conference, Arizona Health Sciences Center, May 18, 2011, Tucson, Arizona.

***Initial Evaluation of the Spine Injured Patient.* Valdes M.**

- Orthopaedic Surgery Grand Rounds Teaching Conference, Arizona Health Sciences Center, December 7, 2010, Tucson, Arizona.

***Development of the Spine: Pediatric Spinal Trauma Evaluation.* Valdes M.**

-Orthopaedic Surgery Grand Rounds Teaching Conference, Arizona Health Sciences Center, August 25, 2010, Tucson, Arizona.

***Stem Cells in Spinal Fusion 2000-2010.* Valdes M.**

-Orthopaedic Surgery Department. Brown Alpert Medical School. The 48th Annual Murray S. Danforth Oration. May, 2010. Providence, RI.

***Spine Development and its Influence in Pediatric Spine Radiologic Evaluation .* Valdes M.**

-Orthopaedic Surgery Department. University of Florida-Jacksonville. November, 2009. Jacksonville, FL.

***Spine Development and its Influence on Pediatric Axial Skeletal Trauma.* Valdes M.**

-Orthopaedic Surgery Department Grand Rounds. Brown University/Rhode Island Hospital. September, 2008. Providence, RI.

***Delayed Implantation of rhBMP-6 Exposed Osteoprogenitor Cells Enhances Posterolateral Spinal Fusion in The New Zealand White Rabbit.* Valdez M, Keeping H, Moore DC, Appel AJ, Robertson A, Palumbo M, Lucas P, Ehrlich MG. Rhode Island Hospital/Brown university.**

-New England Resident Research Symposium. Massachusetts General Hospital. May, 2006. Boston, MA.

***rhBMP-6 Exposed Osteoprogenitor Cell Implantation Time: Does It Make a Difference in Achieving Spinal Fusion?.* Valdez M, Keeping H, Appel AJ, Robertson A, Palumbo M, Lucas P, Ehrlich MG. Rhode Island Hospital/Brown university.**

-18th Annual Meeting of the North American Spine Society. October, 2003. San Diego, CA.

-2003 Annual Meeting of the Spine Society of Europe. October, 2003. Prague, Czech Republic.

***Vascularization of a DBM Carrier Mass in the Lumbar Posterolateral Fusion Rabbit Model.* Valdes M, Keeping H, Robertson A, Appel AJ, McGough R, Moore DC, Palumbo M, Lucas P, Ehrlich MG. Department of Orthopaedics, Brown University.**

-World Spine II Meeting. August, 2003. Chicago IL.

***Enhancing Posterolateral Spinal Fusion with rhBMP-6 Exposed Osteoprogenitor Cells.* Valdes M, Keeping H, Robertson A, Appel AJ, Moore DC; Palumbo M; Lucas P; Ehrlich MG. Department of Orthopaedics, Brown University.**

- World Spine II Meeting. August, 2003. Chicago IL.

- 10th Annual Research Celebration. Rhode Island Hospital. November, 2002. Providence, RI.

***Supra/intercondylar Femoral Fractures at Evaristo Garcia University Hospital. Classification, Treatment and Complications.* Valdes M, Martinez A.**

-44th Colombian Orthopaedic Surgery Society Meeting. October, 1999. Medellin, Colombia.

***Spine and Lower Limb Deformities.* Valdes M.**

-University of Alabama at Birmingham. School of Health Related Professions. Department of Critical and Diagnostic Care. July, 1998. Birmingham, Alabama.

POSTERS

X-ray Reliability to Detect Spinous Process Fractures after Placement of Interspinous Process Spacer.

Lavelle WF, Palumbo M, Bianco A, Tallarico R, Valdes M.

- Poster #1961. Orthopaedic Research Society 2015 Annual Meeting, Las Vegas NV, March 28-31, 2015.

Long Acting Opioid Antagonists Stimulate Mesenchymal Stem Cells Osteoblastic/Chondroblastic Differentiation.

Valdes M, Yang W, Wei L, Thakur N, Wang J, Li K, Sun X, Terek R, Lucas P, Palumbo M, Ehrlich M.

- Orthopaedic Research Society Annual Meeting. Poster #1732. January, 2011. Long Beach, California.

IGF1-evoked Chondrogenesis requires Protein Tyrosine Phosphatase Shp2. Sun C, Wang Z, Chan R, Valdes M, Chen D, Terek R, Quesenberry P, Chen Q, Ehrlich M, Yang W.

-55th Orthopaedic Research Society Meeting. Poster #608. February, 2009. Las Vegas, Nevada.

-This research is supported by a Pediatric Orthopaedic Society of North America Research Grant.

Naloxone Exposure of Bone Marrow Mesenchymal stem cells Promotes their Osteoblastic Differentiation

-2009 American Academy Of Orthopaedic Surgeons Meeting, Poster #365. February-March, 2009. Las Vegas, Nevada

Dose-dependent Naloxone Exposure Stimulates Osteoblastic Differentiation in Negatively Immunodepleted Mesenchymal Stem Cells. Valdes M, Yang W, Wei L, Terek R, Appleyard D, Sun C, Sun X, Ehrlich M.

-55th Orthopaedic Research Society Meeting. Poster #1328. February, 2009. Las Vegas, Nevada.

-16th Annual Research Celebration. Rhode Island Hospital. November, 2008. Providence, RI.

Improving BMSCs Stimulated Spinal Fusions by Exposure to an rhBMP-6 Cell Derived Matrix. Valdes M, Keeping H, Appel AJ, Robertson A, Palumbo M, Lucas P, Ehrlich MG. Department of Orthopaedics. Brown university.

-2003 Annual Meeting of the Spine Society of Europe. October, 2003. Prague, Czech Republic.

-2003 Scoliosis Research Society Annual Meeting. September, 2003. Quebec, Canada.

Posterolateral intertransverse Lumbar fusion in the New Zealand White Rabbit. Part I: Surgical Anatomy. Valdes, M; Palumbo M, Robertson A, Appel AJ, Sheik S, Lucas P, Ehrlich M. Department of Orthopaedics, Brown University.

-World Spine II Meeting. August, 2003. Chicago, IL.

-10th Annual Research Celebration. Rhode Island Hospital. November, 2002. Providence, RI.

Posterolateral intertransverse Lumbar fusion in the New Zealand White Rabbit. Part II: Surgical Technique. Valdes, M; Palumbo M, Appel AJ, Robertson A, McAllister S, Lucas P, Ehrlich M. Department of Orthopaedics, Brown University.

-World Spine II Meeting. August, 2003. Chicago IL.

-10th Annual Research Celebration. Rhode Island Hospital. November, 2002. Providence, RI.

Enhancing Posterolateral Spinal Fusion with rhBMP-6 Exposed Osteoprogenitor Cells. Valdes M, Keeping H, Robertson A, Appel AJ, Moore DC; Palumbo M; Lucas P; Ehrlich MG. Department of Orthopaedics, Brown University.

-Finalist for NIRA award. 49th Orthopaedic Research Society Meeting. Poster # 332. February, 2003. New Orleans, LA.

-Winner of Young Investigator Basic Science Award. 10th Annual Research Celebration. Rhode Island Hospital. November, 2002. Providence, RI.

Vascularization of a DBM Carrier Mass in the Lumbar Posterolateral Fusion Rabbit Model. Valdes M, Keeping H, Robertson A, Appel AJ, McGough R, Moore DC, Palumbo M, Lucas P, Ehrlich MG. Department of Orthopaedics, Brown University.

-49th Orthopaedic Research Society Annual Meeting. Poster # 1122. February, 2003. New Orleans, LA.

- 10th Annual Research Celebration. Rhode Island Hospital. November, 2002. Providence, RI.

rhBMP-6 Exposed Osteoprogenitor Cells Promote Posterolateral Intertransverse Spinal Fusion in the New Zealand White Rabbit. Valdes M, Robertson A, Keeping H, Palumbo M, Lucas P, Ehrlich M. Department of Orthopaedics, Brown University.

-48th Orthopaedic Research Society Annual Meeting. Poster # 800. February, 2002. Dallas, TX.

- 9th Annual Research Celebration. Rhode Island Hospital. October, 2001. Providence, RI.

Role of an Iron Deficient Diet in the Humoral Immune Response in White Mice. Ramirez L, Scarpetta J, Valdes M. Department of Immunology. Javeriana University. November 1986. Bogota, Colombia.

Education for the prevention of Acute Diarrhea Disease and Acute Respiratory Infection in Children. Martinez J, Scarpetta J, Valdes M, Otero E. Department of Preventive Medicine. Javeriana University. June, 1987. Bogota, Colombia.

Penicillin Doses in Children with Uncomplicated Pneumonia. A Comparative Evaluation of their Alternatives at the Simon Bolivar Regional Hospital. Otero E, Valdes M, Scarpetta J. Department of Pediatrics. Javeriana University. June, 1990. Bogota, Colombia.

EXTRAMURAL

December 2013

Invited Faculty

Combined Brown – SUNY Spine Conference
Syracuse, New York.

October 2010

Invited Faculty

Combined Brown – SUNY Spine Conference
Warren Alpert Medical School of Brown University
Providence, Rhode Island

AWARDS

Diamond Award. Commitment to Core Values: Trust, Quality, Caring, Teamwork, Adaptability and High Performance.

Lee's Summit Medical Center, Lee's Summit. MO, 2013.

Nominee for the Haffenreffer Family House Staff Excellence Award

Lifespan/Rhode Island Hospital/Brown Medical School 2009

Excellence in Research-Young Investigator's Award Winner: Basic Science Category.

Lifespan Hospital System. 10th Annual Research Celebration.
Rhode Island Hospital. November, 2002. Providence, RI.

Finalist for New Investigator Recognition Award (NIRA).

49th Orthopaedic Research Society Meeting.
February, 2003. New Orleans, LA.

Award for Outstanding Research in Spine Surgery

Department of Orthopaedics. Brown University.
June, 2003. Providence, RI.

SOCIETY MEMBERSHIPS

American Academy of Orthopedic Surgeons
-2004 – Present

North American Spine Society
-Oct 2010 – Present

Orthopaedic Research Society
- Nov 2010 - Present

CONTINUING MEDICAL EDUCATION

2019 American Academy of Orthopedic Surgeons Meeting. March 14-16, 2019
Las Vegas, NV.

North American Spine Society. 34th Annual Meeting. September 25-28th, 2019.
Chicago, IL.

Scoliosis Research Society. 54th Annual Meeting. September 18-21st, 2019.
Montreal, Canada.

North American Spine Society. 33rd Annual Meeting. September 26-29, 2018
Los Angeles, CA.

Scoliosis Research Society. 53rd Annual Meeting. October 10-13th, 2018.
Bologna, Italy.

North American Spine Society. 32nd Annual Meeting. October 25-28th, 2017
Orlando, FL.

North American Spine Society. Summer Spine Meeting. July 26-29th, 2017
San Diego, CA.

Scoliosis Research Society. 51st Annual Meeting. September 21-24, 2016.
Prague, Czech Republic.

North American Spine Society. 31th Annual Meeting. October 26-29th, 2016.
Boston, MA

2016 American Academy of Orthopedic Surgeons Meeting. March 1-5, 2016
Orlando, FL.

North American Spine Society. 30th Annual Meeting. October 12-16th, 2015.
Chicago, IL.

A Procedural Approach to Cortical Bone Fixation, April 17-18, 2015
Carlsbad, California

2015 American Academy of Orthopedic Surgeons Meeting. March 24-28, 2015
Las Vegas, Nevada.

North American Spine Society. 29th Annual Meeting. 21-24 November 12-15, 2014.
San Francisco, CA.

2014 American Academy of Orthopedic Surgeons Meeting. March 11-15, 2014
New Orleans, Louisiana.

2013 North American Spine Society Meeting. 28th Annual Meeting. October 9-12, 2013.
New Orleans, Louisiana.

2013 American Academy of Orthopedic Surgeons Meeting. March 19-23.
Chicago, IL.

MIS-TLIF Technique. Skin to Skin course. Choll W. Kim MD PhD. Spine Institute of San Diego. San Diego, May
12, 2012. Center for Minimally Invasive Spine Surgery.

American Academy of Orthopaedic Surgeons. 79th Annual Meeting. February, 2012. San Francisco, CA.

Spine on the Mountain: Innovation Meets Practice, January, 2012, Vail, CO.

Cervical Spine Research Society 16th Instructional Course – Surgical Techniques, Tumor, Trauma & Quality and
Value in Cervical Surgery, December, 2011, Scottsdale, AZ.

North American Spine Society – 26th Annual Meeting, November 2-5, 2011, McCormick Place Lakeside Center,
Chicago, IL

AAOS Spine Surgery: State-of-the-Art Techniques and Science, September 22-24, 2011, Rosemont, IL

KYPHON Balloon Kyphoplasty Clinical Update Symposium, August 2011, Las Vegas, NV

Complex Deformity Course – DePuy Institute, April 2011, Denver, CO

MAST™ Transforaminal Lumbar Interbody Fusion (TLIF Technique), November 2011, Medtronic, Las Vegas, NV

KYPHON Balloon Kyphoplasty Physician Training, September 2010, Henderson, NV

Spine + Science + Management. Workshop and Symposium. Medtronic.
April, 2010. Miami, FL.

MAST II- DLIF Techniques in Spine Surgery- Medtronic. Jersey City, NJ. December, 2010.

AAOS/CSRS Contemporary Techniques in Spine surgery 2009. November, 2009. Rosemont, IL.

Colorado Miller Review Course 2009. May, 2009. Westminster, CO.

2009 AAOS/OTA Pelvis and Acetabulum Fractures: Advanced Concepts Details & Improved Techniques. April, 2009. Rosemont, Illinois

2009 American Academy Of Orthopaedic Surgeons Meeting, Poster #365. February-March, 2009. Las Vegas, Nevada

Signature Series Fracture Fixation Symposia, Upper and Lower Extremity Trauma.
July, 2008. Rosemont, IL.

Advanced Trauma Techniques Course for Residents, Orthopaedic Trauma Association.
May, 2008. Dallas, TX.

American Academy of Orthopaedic Surgeons. 75th Annual Meeting.
March, 2008. San Francisco, CA.

AANA- Fundamental Arthroscopic Skills Course for Residents
January, 2008. Rosemont, IL

4th Annual Amputee Rehabilitation Conference,
Rhode Island Hospital. Providence, RI.
September, 2007

Dallas Short Course. Orthotics and Prosthetics.
University of Texas, Southwestern Medical Center at Dallas, TSRH.
October 2006.

AANA-Masters Experience Fundamentals Arthroscopic Surgical Skills.
August, 2006. Rosemont, IL

The Boston Orthopaedic Pathology Course.
April, 2006. Boston, MA.

AO- ASIF Basic Principles and Techniques of Operative Management Course for Residents.
January, 2006. Philadelphia, PA.

Cervical Spine Update 2004, New England Baptist Hospital.
May, 2004. Boston, MA.

American Academy of Orthopaedic Surgeons. 71st Annual Meeting.
March, 2004. San Francisco, CA.

North American Spine Society. 18th Annual Meeting.
October, 2003. San Diego, CA.

World Spine II Meeting.

August, 2003. Chicago IL.

Orthopaedic Research Society. 49th Annual Meeting.
February, 2003. New Orleans, LA.

North American Spine Society. 17th Annual Meeting.
October, 2002. Montreal, Canada.

AO-ASIF Comprehensive Spine Course.
October, 2002. Newport, RI.

American Academy of Orthopaedic Surgeons. 69th Annual Meeting.
February, 2002. Dallas, TX.

Orthopaedic Research Society. 48th Annual Meeting.
February, 2002. Dallas, TX.

Orthopaedic Research Society. 47th Annual Meeting.
February, 2001. San Francisco, CA.

North American Spine Society. 15th Annual Meeting.
October, 2000. New Orleans, LA.

44th National Meeting. Colombia Orthopaedic Surgery Society.
October, 1999. Medellin, Colombia.

First National Course of Endoscopic Orthopaedic Surgery.
July, 1999. Bogotá, Colombia.

North American Spine Society. Meeting of the Americas I.
May, 1999. Miami, FL.

Sagittal Plane Spinal Deformity Instructional Course. Scoliosis Research Society.
September, 1998. New York, NY.

Scoliosis Research Society. 33rd Scoliosis Research Annual Meeting.
September, 1998. New York, NY.

Biannual Musculoskeletal Basic Science Course.
May, 1997. Bogotá, Colombia.

LANGUAGES

Spanish
English

HOBBIES

Electronic Organ.
Soccer, Running, Tennis.