

## CURRICULUM VITAE

**Steven R. Garfin, M.D.**

CURRENT POSITION: 1996-Present Professor and Chairman  
Department of Orthopaedic Surgery  
University of California, San Diego

PROFESSIONAL ADDRESS: University of California, San Diego Medical Center  
Department of Orthopaedic Surgery  
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DATE OF BIRTH: June 12, 1946  
Minneapolis, Minnesota

ACADEMIC POSITIONS: **1996 - present Professor and Chairman**  
**Department of Orthopaedic Surgery**  
**University of California, San Diego**

1989 - present Professor  
Department of Orthopaedic Surgery  
University of California, San Diego

1986 - 1989 Associate Professor  
Division of Orthopaedics  
University of California, San Diego

1/86 - 3/87 Co-Acting Head  
Division of Orthopaedics  
University of California, San Diego

1980 - 1986 Assistant Professor  
Division of Orthopaedics and Rehabilitation  
University of California, San Diego

EDUCATION: 1968 B.A. Mathematics  
University of Minnesota  
(Minneapolis, Minnesota)

1972 M.D. University of Minnesota  
(Minneapolis, Minnesota)

INTERNSHIP:	1972 - 73	Surgery University of California, San Diego
RESIDENCY:	1975 - 79	Orthopaedic Surgery University of California, San Diego
FELLOWSHIP:	1980 - 81	Disorders of the Spine Pennsylvania Hospital Philadelphia, Pennsylvania Drs. R. H. Rothman & F. A. Simeone
MILITARY SERVICE:	1973 - 75	U.S. Public Health Service
BOARD CERTIFICATION:	American Board of Orthopaedic Surgery September 10, 1982	
LICENSURE TO PRACTICE:	California G-29309 DEA# AG-1174541	
HONORS / AWARDS:	1968	Undergraduate: B.A. "Cum Laude," Phi Beta Kappa
	1971	Medical: Alpha Omega Alpha James E. Moore Society (University of Minnesota)
	1975	Freedom Foundation at Valley Forge (Honor Certificate)
	1979	Zimmer-McCoy Residency Achievement Award
	1980	Alfred V. Bateman Resident Anatomy Achievement Award
	1982	Contribution to Practice Plan and University Hospital Incentive Award
	1983	Second place - <u>Orthotics and Prosthetics</u> Article of the Year Competition (Article I6)
	<b>1984</b>	<b>Volvo Award for Research in Low Back Pain Clinical Studies Paper</b>
	<b>1988</b>	<b>AcroMed Research Award of the North American Spine Society</b>
	<b>1989</b>	<b>Cervical Spine Research Society Award for Outstanding Cervical Spine Research</b>

- 1989** **AcroMed Research Award of the North American Spine Society**
- 1992** **Cervical Spine Research Society Award for Outstanding Cervical Spine Research**
- 1992** **Individual Orthopaedic Instruction, 1992 Awards Program, Video/CD-ROM/Interactive Theater (Exhibit 52)**
- 1993** **Orthopaedic Research Society New Investigator Recognition Award (Article 154)**
- 1996** **Volvo Award for Clinical Studies in Spinal Research, International Society for the Study of the Lumbar Spine**
- 1997** **Bristol-Meyers Squibb/Zimmer Institutional Grant for Excellence in Research in Orthopaedic Treatment**
- 2000** **North American Spine Society, Wiltse Award for Leadership in the Field of Spine**
- North American Spine Society, Outstanding Poster Award  
“Early Outcomes in the Minimally Invasive Reduction and Fixation of Compression Fractures”
- 2002 – present America's Top Doctors. The Best in American Medicine  
America's Top Doctors and Hospitals. A Castle Connolly Guide.
- 2003** **North American Spine Society, David Selby Award for Contributing Greatly to the Art and Science of Spinal Disorder Management through service to NASS.**
- 2003 San Diego Physicians of Exceptional Excellence – Top Doctors in San Diego. San Diego Magazine.
- 2005 – present Best Doctors in America database.
- 2005 – 2010 San Diego Physicians of Exceptional Excellence – Top Doctors in San Diego. San Diego Magazine.
- 2007 Health Care Champion Awards Finalist - San Diego Business Journal. August 2007.
- 2008 Selected as an Alumnus of Notable Achievement in the College of Liberal Arts at the University of Minnesota. 1,200 Honorees of 115,000 Graduates. September 2008.
- 2009 Distinguished Service Award presented by the Western Orthopaedic Association January 23, 2009

GRANTS:	1984	Biomechanical Investigation of the Halo Fixation Device. Orthopaedic Research and Education Foundation
	1988	Biomechanical Characterization of Spinal and Peripheral Nerves Correlated with Histologic and Electrophysiological Alterations. Orthopaedic Research and Education Foundation
	1989	Depression in Chronic Pain. Veteran's Administration
	1990	Men at High Risk for Chronic Back Pain. Veteran's Administration
	<b>1994</b>	<b>Effects of Intradiscal Proliferant Solutions on Fibroblasts Growth. North American Spine Society</b>
	<b>1995</b>	<b>North American Spine Society Research Grant Award: "The Biomechanical Effect of Spatial Orientation of Transpedicular Screws in Relation to the Anatomical Shape of Thoracolumbar Pedicles on the Stability of the Screw Bone Interface"</b>
	<b>1997</b>	<b>The Orthopaedic Application of Novel Anti-Fibrotics in the Prevention of Epidural Fibrosis. Orthopaedic Research and Education Foundation (Co-Principal Investigator) (\$250,000)</b>
	2002	Orthopaedic Rehabilitation Research Training Program. National Institution of Health
	2005	Orthopaedic Rehabilitation Research Training Program. National Institution of Health. (05/01/2005 – 04/30/2010)
	2009	Efficacy of Antidepressants for Chronic Back Pain - Merrit Review Grant. Veteran's Administration

HOSPITAL AFFILIATIONS: University of California, San Diego Medical Center, San Diego, California (Hillcrest and Thornton)  
Veterans Administration Hospital, La Jolla, California

SOCIETIES: American Academy of Orthopaedic Surgeons  
American Orthopedic Association  
California Orthopaedic Association  
Cervical Spine Research Society  
Creta Club (International Spine Discussion Group)  
International Society for the Study of the Lumbar Spine  
Little Orthopaedic Club  
North American Spine Society  
Orthopaedic Research Society  
Spine Arthroplasty Society  
Study Group for Nerve and Spine (Japan)  
The Spine Study Group  
Western Orthopaedic Association

Wilson-Bost Interurban Orthopaedic Club

VISITING PROFESSORSHIP/  
GUEST LECTURESHIP:

Hospital for Special Surgery, New York, New York, March, 1987

Sutter Visiting Professor, Washington University, St. Louis, Missouri,  
May 27, 1987

Detroit Academy of Orthopaedic Surgery, Detroit, Michigan, February  
11, 1991

Medical and Dental College of New Jersey, Newark, New Jersey,  
April 28-29, 1991

President's Guest Speaker, Georgia Orthopaedic Society Annual  
Meeting, Sea Island, Georgia, October 1-4, 1992

Singapore Academy of Medicine and Surgery, 26th Annual Combined  
Surgical Meeting, Singapore, October 29-31, 1992

Orthopaedic Reunion Day, West Virginia University School of  
Medicine, Morgantown, WV, October 22-23, 1993.

CAMP Lectureship, Department of Orthopaedics, University of Iowa,  
Iowa City, Iowa, December 10, 1993.

Grand Rounds. Northwestern University Medical School, Chicago  
Illinois, March 11, 1994.

Oregon Spine Study Group, Portland Oregon, March 11, 1995.  
Retrospective Study of Pedicle Screw Fixation. The FDA and Spinal  
Implants.

Thomas Jefferson Medical School, Department of Orthopaedics,  
Philadelphia, Pennsylvania, January 9, 1997.

AO/ASIF Advanced Spine Course. Banff, Alberta, Canada, March  
6-9, 1997. (Guest of Honor)

University of California, Irvine, Department of Orthopaedics, Orange,  
California, October 1, 1997.

Lund University. The Bone and Joint Decade 2000-2010, Lund,  
Sweden, April 17-18, 1998. (Guest Lecturer) – organizing meeting.

Johns Hopkins Medical Institutions, Department of Orthopaedic  
Surgery. 1998 Peter H. Mack Lecturer, Baltimore, MD, November 20-  
21, 1998.

Jefferson Orthopaedic Society, Thomas Jefferson University: Spine  
Care in the new Millenium", Philadelphia, PA, November 3-4, 2000.

Rush Medical School, Department of Orthopaedics, 2001

Grand Rounds. Northwestern University Medical School, Chicago Illinois, March 15, 2002.

Tulane University, Department of Orthopaedics, May 2002

The Fourth Military Medical University Xijing Hospital, Department of Orthopaedic Surgery, Xi'an China October 26-28, 2002

University of Guadalajara, Guadalajara Regional Social Security Hospital, Department of Orthopaedics, Guadalajara, Mexico, January 28-February 1, 2003.

The World Life Sciences Forum. A meeting to discuss new technologies- additional lecturers included W. Clinton, N. Mandella, & 13 Nobel Laurettes, Lyon France, April 8-11, 2003.

Visiting Professor, Oregon Health & Science University, Department of Orthopaedics & Rehabilitation. Portland, OR, September 14-15, 2006.

William R. Salomon Visiting Professor, Hospital for Special Surgery, Motion Preservation – Is it Here to Stay?, Spinal Fusion for Lower Back Pain, Spine Surgeon – Spine Industry, New York, NY, February 7-9, 2007.

Keynote Speaker, Western Orthopaedic Association Los Angeles Chapter, Orthopaedic Surgeons and the Orthopaedic Industry, My Perspective, Beverly Hills, CA June 9, 2008.

2008 H. Relton McCarroll Distinguished Professor, Washington University in St. Louis. Motion Sparing – Is it Necessary, Orthopaedic Surgery – Orthopaedic Industry, St. Louis, MO , November 10-12, 2008.

12<sup>th</sup> Annual Leach Visiting Professor of Orthopaedic Surgery, Boston Medical Center, Boston, MA November 19-20, 2009.

Visiting Professor, 11<sup>th</sup> Israeli Spine Society (ISS) Meeting. Eilat, Israel, April 14-17, 2010.

Plenary Speaker. 7<sup>th</sup> SICOT/SIROT Annual International Conference combined meeting with the Swedish Orthopaedic Association (SOF). Gothenburg, Sweden, August 31-September 3, 2010.

Visiting Guest Professor, XXI National Congress Mexican Association of Orthopaedics and Trauma, Puerto Vallarta, Mexico, November 2-6, 2010.

**COURSE DIRECTOR:**

The Spine Study Group Fourth Symposium, October 25-29, 1985

UCSD's Sports Medicine Update: A Practical Approach to Caring for Today's Athlete, July 27-31, 1987 (Co-Director)

Cervical Spine Research Society Seventeenth Annual Meeting,  
December 5-8, 1989 (Program Chairman)

AAOS Evaluation and Treatment of Spinal Trauma, October 6, 1990  
Course Chairman)

AAOS Problems in Spine Surgery: Complications, Controversies, and  
Conflict, June 3-6, 1993 (Course Co-Director)

The Spine Study Group Tenth Symposium, May 18-21, 1995  
(Course Chairman)

AO/ASIF Team Approach to the Operative Treatment of Fractures,  
Deformities and Degenerative Conditions of the Spine, September 15-  
17, 1995 (Course Co-Chairman)

American Academy of Orthopaedic Surgeons, Summer Institute,  
Management of Lumbar Spine Degenerative Conditions, September  
8-12, 1996 (Course Chairman)

SpineTech, Inc., BAK Interbody Fusion System Training Course,  
November 22, 1996 (Course Chairman)

American Academy of Orthopaedic Surgeons, Debating Complex  
Issues in Spine Surgery, March 12-15, 1997 (Course Chairman)

Cervical Spine Research Society, 25<sup>th</sup> Annual Meeting, December 4-  
6, 1997 (Local Arrangements Chairman)

American Academy of Orthopaedic Surgeons, Debating Complex  
Issues in Spine Surgery, April 30 – May 2, 1998 (Course Chairman)

Advances in Treating Osteoporotic Vertebral Body Compression  
Fractures, October 24, 1999, Chicago, IL (Course Chairman)

The Future of Spine Treatments, Technologies, & Techniques, July  
24-26, 2003, San Diego, CA

The Western Spine Symposium, July 31-August 2, 2008, San Diego,  
CA. (Course Chairman)

Aging and Complex Spine Summit, October 2-4, 2008, San Diego, CA  
(Course Chairman)

The Annual Spine Surgical Techniques and Technologies Forum,  
October 9-10, 2009, Boston, MA (Course Co-Chairman)

INVITED PARTICIPANT:

New Horizons in Low Back Pain, San Diego, California November  
1-4, 1995 (Section Leader on Spinal Stenosis and Basic Science)

Invited Member by Rand corporation for the Spinal Manipulation  
Panel: Coulter, I.D., Hurwitz, E.L., Adams, A.H., Meeker, W.C.,

Hansen, D.T., Mootz, R.D., Aker, P.D., Genovese, B.J., Shekelle, P.G.: The Appropriateness of Manipulation and Mobilization of the Cervical Spine. Rand 1996.

Cervical Spine Focus Workshop, Journal of Spine, Washington, DC May 15-17,1998.

Workshop on Work-Related Musculoskeletal Injuries: Examining the Research Base, National Research Council, Washington, DC, August 20-21, 1998.

Garfin, S.R.: Cirugia de revision en columna fallida; Patofisiologia de la estenosis espinal; Infecciones Vertebrates (hematologicas). Curso Internacional Avances en Ortopedia. Puerta Vallarta, Jal. July, 2000.

Pioneers of Spine Surgery: A Dynamic Discussion of the Evolving Treatment Options for the Degenerative Spine. NASS/DePuy Symposium, Seattle, WA, September 27, 2006.

California Technology Assessment Forum (CTAF). Invited participant to discuss funding for Kyphoplasty. Los Angeles, CA. June 17, 2009.

#### **UCSD COMMITTEES:**

Operating Room Committee	1985 - 2003
Operating Room Committee (Thornton)	1993 - 2000
Medical Staff Executive Committee	1993 - present
Orthopaedic Surgery Executive Committee	1993 - present
Campus Ad Hoc Review Committees	Irregular appointments
Council of Chairs	1996 - present
Oversight Committee	1996-1997
Perioperative Services Executive Committee	2003 – present
Academy of Clinician Scholars	2004 – present
Operating Room Block Time Subcommittee	2005 – present
Ambulatory Surgery Center Committee	2005 – 2006
Spinal Implant Task Force Committee	2006
Thornton Inpatient Care Redesign Task Force Committee	2006 – present
UCSD/Rady Children's Academic Council	2009 – present
Jacobs Medical Center Task Force Committee (Philanthropy)	2010 – present

#### **LOCAL/NATIONAL COMMITTEES:**

Dorothy and Malcolm Coutts Institute of Joint Reconstruction & Research, Board of Directors	1984 - 1998
Organization for Spinal Training and Research (President)	1990 - 1996

#### North American Spine Society

Executive Committee	1985 - 1999
Ad Hoc Committee on Nomenclature and Coding	1986 - 1990

Chairman	1987 - 1990
Educational Committee	1988
Diagnostic Committee	1990, 1991
Diagnostic and Therapeutic Committee, Chairman	1992
Secretary	1993, 1994
Local Host, Annual Meeting	1993
Liaison Committee	1995
Ad Hoc Committee on Access/Recommendation NASS' Abilities/Roles	1995
Second Vice-President	1995 - 1996
<b>President</b>	<b>1997-1998</b>
Combined Task Forces of the North American Spine Society, American Society of Spine Radiology, and American Society of Neuroradiology	2001

#### Western Orthopaedic Association, San Diego Chapter

Annual Visiting Professorship (Director)	1985 - 1998
Secretary-Treasurer	1987
Vice President	1988
President	1989
Membership Chairman	1992 - 1996

#### Cervical Spine Research Society

Program Committee	1988 - 1990
Program Chairman	1989, 1990
Host, Annual Meeting (Palm Desert, CA)	1992
Secretary	1992, 1993
<b>President</b>	<b>1996</b>
Host, Annual Meeting	1997, 2005

#### International Society for the Study of the Lumbar Spine

Program Site Committee Chairman	1989, 1990
Western Regional Representative	1994 - 2000

#### American Academy of Orthopaedic Surgeons

Committee on the Spine	1990 - 1996
Spine Liaison Committee (AAOS-AANS)	1993 - 1996
Representative to FDA Scientific Advisory Panel for the Pedicle Screw	1993
Program Committee	1994 - 2000
Spine Comprehensive Courses - Chair	1996 - 1998
Spine Evaluation Subcommittee	1994 - 2000
Ad Hoc Committee on International Affairs (Bone and Joint Decade)	1998 - 2000
Research Agenda Committee, Spinal Problems Panel	2000 - 2003

#### The American Orthopaedic Association

Program Committee	1992
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### The Paralysis Project

Scientific Advisory Committee 1992 - 2000

### Orthopaedic Research Society

Program Committee 1993

### California Medical Association

Orthopaedic Scientific Committee of the Council of Scientific Affairs (CSA) 2001 – present

### Study Group for Nerve and Spine (Japan)

Organizing Committee 2005 – present

### Spine Arthroplasty Society

Program Chair 2007  
Board of Directors 2008 – present  
Treasurer 2009 – present

### **ORTHOPAEDIC ADVISOR:**

Community Care Network 1985 - 2001

Health Consulting Group International Medical Services - South America 1995 - 1998

### **EDITORIAL BOARDS:**

Spine - Reviewer 1987 - present  
Spine - Deputy Editor 1993 - present  
The Journal of Spinal Disorders 1987 - 1993 (resigned)  
Operative Techniques In Orthopaedics 1990 - 1997  
European Spine Journal 1991 - 1993 (resigned)  
Advances in Osteoporotic Fracture Management 2001 – present  
Brazilian Spine Society, *Coluna* 2002 – present  
SpineUniverse.com 2002 – present  
Chinese Journal of Traumatology 2004 – present  
Contemporary Spine Surgery 2004 – present  
Orthopaedics Today 2007 – present

### REVIEWER

Journal of Orthopaedic Research 1985 - present  
Journal of American Medical Association 1985 - present

Spine	1987 - present
Journal of Spinal Disorders	1987 - 1993 (resigned)
Mayo Clinic Proceedings	1989
Clinical Orthopaedics and Related Research	1994 - present
Paraplegia	
Chinese Journal of Traumatology (English Edition)	2004 - present

## EDITORSHIP:

### BOOKS:

Complications of Spine Surgery, (Steven R. Garfin, Editor). Williams and Wilkins, Baltimore, Maryland, 1989. Invited, part of monograph series on complications of orthopedic surgery.

Disorders of the Spine: A Coding System for Diagnoses, (Balderson, R. A., Fardon, D. F., Garfin, S. R., Nasca, R. J., Pinkerton, S., Salib, R. M., Eds.). North American Spine Society. Hanley & Belfus, Inc., Philadelphia, Pennsylvania, 1991.

Rothman and Simeone's The Spine, 3rd Ed., (Herkowitz, H.N., Garfin, S.R., Balderston, R.A., Eismont, F.J., Bell, G.R., Wiesel, S.W., Co-Editors). W. B. Saunders Company, Philadelphia, Pennsylvania, 1992.

Surgery for Spinal Cord Injuries, (Steven R. Garfin and Bruce E. Northrup, Editors), Raven Press, New York, NY, 1993.

Orthopaedic Knowledge Update V, (Steven R. Garfin, Editor Spine Section) American Academy of Orthopaedic Surgeons, Rosemont, Illinois, 1996

Orthopaedic Knowledge Update: Spine, (Steven R. Garfin and Alexander R. Vaccaro Editors), American Academy of Orthopaedic Surgeons, Rosemont, Illinois and North American Spine Society, LaGrange, IL, 1997

Spine Trauma, (Alan M. Levine, Jack Zigler, Steven R. Garfin, and Frank J. Eismont, Editors). W. B. Saunders Company, Philadelphia, Pennsylvania, 1998

The Cervical Spine, 3rd Ed., (Steven R. Garfin, Section Editor), J.B. Lippincott Company, Philadelphia, Pennsylvania, 1998

Rothman and Simeone's The Spine, 4th Ed., (Herkowitz, H.N., Garfin, S.R., Balderston, R.A., Eismont, F.J., Bell, G.R., Wiesel, S.W., Co-Editors). W.B. Saunders, Philadelphia, Pennsylvania, 1998.

Orthopaedics, (Fitzgerald, R.H., Kaufer, H., Malkani, A.L., Editors; Born, C.T., DeLong, W.G., Drennan, J.C., Garfin, S. R., Goldberg, V.M., Greene, W.B., Guiders, K.J., Hanssen, A.D., Johnson, D.L., Johnstone, B., Lewis, C.G., Rubash, H.E., Saltzman, C.L., Sinha, R.K., Springfield, D.S., Stern, P.J., Section Editors). Mosby, Inc., St. Louis, Missouri, 2002.

Orthopaedic Knowledge Update: Spine 2, (Fardon, D.F., Garfin, S.R.) Editor, American Academy of Orthopaedic Surgeons, Rosemont, Illinois, and the North American Spine Society, LaGrange, IL 2002.

Save Your Aching Back and Neck: A Patient's Guide, (Eidelson, S.G., Fessler, R.G., Garfin, S.R., Richeimer, S.H., Rodts, G.E., Spinasanta, S.A.). SYA Press and Research, Inc., San Diego, California, 2002.

Instructional Course Lectures: American Academy of Orthopaedic Surgeons. (Ferlic, D.C.) Section Editor: Osteoporosis, American Academy of Orthopaedic Surgeons, Rosemont, IL 2003.

Orthopaedic Surgery Essentials: Spine (Garfin, SR, Bono, CM) Lippincott Williams & Wilkins Philadelphia, PA 2004.

The Cervical Spine, 4<sup>th</sup> Ed., (Steven R. Garfin, Section Editor), J.B. Lippincott Company, Philadelphia, Pennsylvania, 2005.

Vertebroplasty and Kyphoplasty (Resnick, DK., Barr, JD., Garfin, SR.) Thieme, Inc. New York, New York, 2005.

Rothman and Simeone's The Spine, 5th Ed., (Herkowitz, H.N., Garfin, S.R., Eismont, F.J., Bell, G.R., Balderston, R.A., Co-Editors). Saunders Elsevier, Philadelphia, Pennsylvania, 2006.

Minimally Invasive Spine Surgery: A Practical Guide to Anatomy and Techniques. (Ozgun B, Benzel E, Garfin S). Springer Science + Business Media, LLC, New York, NY 2009.

#### JOURNAL EDITOR:

Traumatic and Degenerative Lesions of the Cervical Spine, (Steven R. Garfin and J. William Fielding, Guest Editors), Clinical Orthopaedics and Related Research 239, Lippincott Company, Feb. 1989.

Tumors of the Spine, Seminars in Spine Surgery (Steven R. Garfin, Guest Editor), W. B. Saunders, Philadelphia, Pennsylvania, September 1990.

Infections of the Spine, Seminars in Spine Surgery (Steven R. Garfin, Guest Editor), W. B. Saunders, Philadelphia, Pennsylvania, December 1990.

Avoidance of Complications in Spine Surgery, (Steven R. Garfin and J. William Fielding, Guest Editors), Clinical Orthopaedics and Related Research 284, Nov. 1992.

The Orthopedic Clinics of North America. The Degenerative Neck, (Garfin, Steven R., Herkowitz, Harry N. Guest Eds.). Vol. 23(3). W. B. Saunders, Philadelphia, Pennsylvania, 1992.

Spondylolisthesis, Part II, (Steven R. Garfin, Guest Editor), Seminars in Spine Surgery, December 1993.

Spine, Current Opinion in Orthopaedics, (Steven R. Garfin, Alexander R. Vaccaro, Gaetano J. Scuderi, Editors). April, 1994.

Infections of the Spine, Seminars in Spine Surgery, (Steven R. Garfin, Guest Editor), W.B. Saunders, Philadelphia, Pennsylvania, June, 1996.

Infections of the Spine, (Steven R. Garfin, Guest Editor), Spine Surgery, December 2000.

#### **INVITED LETTERS:**

1. Garfin, S.R.: Chronic Back Pain. "Questions and Answers" J.A.M.A. 252:428, 1984.
2. Garfin, S.R.: Colchicine Use in Painful Diskal (and other) Spinal Disorders. "Questions and Answers" J.A.M.A. 254(17):2474, Nov., 1985.
3. Garfin, S.R.: Etiology and Treatment of Pars Interarticularis Defects. "Questions and Answers" J.A.M.A. 259(6):908, Feb., 1988.
4. Garfin, S.R. and Evans, B.: Lateral Epicondylitis: Occupational Hazard of Performing Spine Surgery.

- "Questions and Answers" J.A.M.A. 259(16):2468, April, 1988.
5. Garfin, S.R.: Athletic Injury: The Association With Spondylolysis: "Questions and Answers" J.A.M.A. 261(13):1958, April, 1989.
  6. Garfin, S.R.: Discussion on Extreme Lateral Lumbar Disc Herniation. "Clinical Opinion" J. Spinal Disorders 2(2):139-140, 1989.
  7. Garfin, S.R., Leary, G.: Therapeutic Ultrasound: Okay for Patients with Cancer? "Questions and Answers" J.A.M.A. 263(14):1991, April, 1991.
  8. Garfin, S.R.: Thoracolumbar Burst Fracture. "Clinical Opinion" J. Spinal Disorders 4(2):248-249, 1991.
  9. Garfin, S.R., Cohen, M.S.: Scapulothoracic Pain. "Questions and Answers" J.A.M.A. 270(15):1867, October, 1993.
  10. Garfin, S.R.: Which x-ray views are needed for neck injuries in the ER?. "Musculoskeletal Q & A" The Journal of Musculoskeletal Medicine 10(10):11, 1993.
  11. Garfin, S.R.: Conservative management for spondylolysis and spondylolisthesis. "Musculoskeletal Q & A" The Journal of Musculoskeletal Medicine 13(6):11-12, 1996.
  12. Garfin, S.R.: COSS, NASS take stance against spine surgery certification. Orthopaedics Today, 18(8), 7, 1998.
  13. Kim CW and Garfin SR. Commentary and Perspective on "A Comprehensive Study of Patients with Surgically Treated Lumbar Spinal Stenosis with Neurogenic Claudication". Journal of Bone and Joint Studies Web Commentary. 2002.

#### REVIEWS:

1. Garfin, S.R., and Mubarak, S.: Letter to the Editor: Treatment of Rattlesnake Bites. J. Hand Surg.5:619-621, 1980.
2. Garfin, S.R., Mubarak, S.J., and Hargens, A.R.: Review of Article "The Management of Upper Extremity Pit Viper Wounds". J. Hand Surg. 5:168, 1980, Published in Toxicon Vol. 19, Pergamon Press Ltd., Great Britain, 193-196, 1981.
3. Garfin, S.R.: Book review Symposium on Idiopathic Low Back Pain, by A. A. White, M.D. and S. L. Gordon, Ph.D. C. V. Mosby Company, St. Louis, 492 pages, 1982, Published in Arthritis Rheum., Vol. 26, No. 2, February 1984.
4. Garfin, S.R.: Stabilizing Properties of the Halo Apparatus. "Point of View." Spine 22(7):733, 1997.
5. Garfin, S.R.: Cervical Spondylitic Myelopathy: Plates in Anterior Recompression and Reconstruction. Clinical Opinion, J Spinal Disorders 11(3):271-272, 1998.
6. Kim, C.W., and Garfin, S.R.: Commentary and Perspective: A Comprehensive Study of Patients with Surgically Treated Lumbar Spinal Stenosis with Neurogenic Claudication, by Yasutsugu Yukawa, MD et al. eJournal of Bone and Joint Surgery, 2002.
7. Garfin, S.R.: Comment: Transoral Kyphoplasty for a Secondary Osteolysis of the Dens: A Report of Two Cases and a Review of the Literature, by Daniele A. Fabris Monterumici, et al, Advances in Osteoporotic Fracture Management 4(4), 2006.
8. Allen, R.T., Garfin, S.R.: Point of View: Implant Complications, Fusion, Loss or Lordosis and Outcome Following Anterior Cervical Plating with Dynamic or Rigid Plates: 2 Years Results of a Multi-Center, Randomized Controlled Study. Spine April 1, 2009: 34(7):647.

#### MAGAZINE ARTICLES:

1. Musculoskeletal experts appeal to United Nations to recognize the "Decade of the Bone and Joint." International Edition Orthopaedics Today, 1(4), 1998.

#### BOOK CHAPTERS:

1. Akeson, W.H., Hargens, A.R., Garfin, S.R., and Mubarak, S.J.: Muscle Compartment Syndromes and Snake Bites IN: Tissue Fluid Pressure and Composition. (Ed. Hargens, A.R.). Williams and Wilkins, Baltimore, 1981, pp. 215-226.

2. Garfin, S.R.: Historical Review IN: Compartment Syndromes and Volkmann's Contracture. (Ed. Mubarak, S.J., and Hargens, A.R.). W. B. Saunders Co., Philadelphia, 1981, pp. 6-16.
3. Garfin, S.R.: Anatomy of the Extremity Compartments IN: Compartment Syndromes and Volkmann's Contracture.(Ed. Mubarak, S.J., and Hargens, A.R.). W. B. Saunders Co., Philadelphia, 1981, pp. 17-
4. Amiel, D., Akeson, W.H., Harwood, F.L., Garfin, S.R., and Mechanic, G.L.: Stable Reducible Collagen Cross-link Formation in Periarticular Connective Tissue of Immobilized Rabbit Knee. Symposium on Heritable Disorders of Connective Tissue. C.V. Mosby, Co. St. Louis, 1982, pp. 156-161.
5. Garfin, S.R. and Rothman, R.H.: Traumatic Spondylolisthesis of the Axis. (Hangman's Fracture) IN: The Cervical Spine Research Society, J. B. Lippincott Co., 1983, pp. 223-232.
6. Hargens, A. R., Akeson, W. H., Garfin, S. R., Gelberman, R. H. and Gershuni, D. H.: Compartment Syndromes IN: Practice of Surgery, J.B. Lippincott Co., Philadelphia, PA, 1984.
7. Garfin, S.R. and Katz, M.M.: The Vertebral Column: Clinical Aspects IN: The Biomechanics of Trauma. (Ed. Nahum, A. and Melvin, J.), Appleton-Century-Crofts, East Norwalk, Connecticut, 1985, pp. 301-340.
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#### **ABSTRACTS:**

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148. Lee, YP, Regev G, Ghofrani H, Kim C, Garfin SR. Evaluation of Hip Flexion Strength Following Extreme Lateral Lumbar Interbody Fusion: Is the Psoas Muscle Seriously Injured? Proceeding of the 25<sup>th</sup> Annual Meeting of the North American Spine Society, The Spine Journal, 2010, Sept 10(9S):53S(114).
149. Lee YP, Ghofrani H, Garfin S. P95 Evaluation of the Functional Anesthetic Discogram as a Screening Tool for Lumbar Fusion to Treat Degenerative Disc Disease. Proceeding of the 25<sup>th</sup> Annual Meeting of the North American Spine Society, The Spine Journal, 2010, Sept 10(9S):114S(P95).
150. Shaw W, Means-Christensen A, Slater M, Webster J, Patterson T, Grant I, Garfin S, Wahlgren D, Patel S, Atkinson J. Psychiatric Disorders and Risk of Transition to Chronicity in Men with First Onset Low Back Pain. American Academy of Pain Management e-newsletter Pain Management News and Research 2010 September.

#### **EXHIBITS/POSTERS:**

1. Mubarak, S.J., Owen, C.A., Hargens, A.R., Schmidt, D.A., Garfin, S.R., and Akeson, W.H.: Double

Incision Fasciotomy of the Leg for Decompression in Compartment Syndromes. American Academy of Orthopaedic Surgeons Annual Meeting. Dallas, Texas, February, 1978.

2. Mubarak, S.J., Owen, C.A., Hargens, A.R., Schmidt, D.A., Garfin, S.R., and Akeson, W. H.: Double Incision Fasciotomy of the Leg for Decompression in Compartment Syndromes. California Medical Association Annual Meeting. San Francisco, California, March, 1978.
3. Hargens, A.R., Mubarak, S.J., Garfin, S. R., Evans, K.L., and Akeson, W.H.: The Wick Catheter Technique for Diagnosing Compartment Syndromes (16 mm movie). SICOT XIV World Congress. Kyoto, Japan, October, 1978.
4. Mubarak, S.J., Owen, C.A., Hargens, A.R., Akeson, W.H., Gershuni, D.H., and Garfin, S.R.: Double Incision Fasciotomy of the Leg for Decompression in Compartment Syndromes. SICOT XIV World Congress. Kyoto, Japan, October, 1978.
5. Garfin, S.R., Mubarak, S.J., Gelberman, R.H., Hargens, A.R., Castilonia, R.R., Russell, F.E., and Akeson, W.H.: Rattlesnake Bites - Current Concepts. American Academy of Orthopaedic Surgeons Annual Meeting. San Francisco, California, February, 1979.
6. Garfin, S.R., Mubarak, S.J., Gelberman, R.H., Hargens, A.R., Castilonia, R.R., Russell, F.E., and Akeson, W.H.: Rattlesnake Bites - Current Concepts. California Medical Association Annual Meeting. Los Angeles, California, March, 1979. (Awarded "Certificate of Merit for Outstanding Exhibit").
7. Garfin, S.R., Mubarak, S.J., Gelberman, R.H., Hargens, A.R., Castilonia, R.R., Russell, F.E., and Akeson, W.H.: Rattlesnake Bites - Current Concepts. American College of Surgeons Annual Meeting. Chicago, Illinois, October, 1979.
8. Hargens, A.R., Mubarak, S.J., Garfin, S.R., and Akeson, W.H.: The Wick Catheter Technique for Diagnosing Compartment Syndromes (16 mm movie). American Academy of Orthopaedic Surgeons Annual Meeting, Atlanta, Georgia, February, 1980.
9. Garfin, S. R., Botte, M.J., Nickel, V.L., Woo, S. L-Y, Katz, M.M. and Akeson, W.H.: Mechanics of Halo Pin Fixation. American Academy of Orthopaedic Surgeons Annual Meeting, Atlanta, Georgia, February, 1984.
10. Garfin, S.R.: Invited contributor to Medical Portion of CHIPS AND CHANGES - a multimedia scientific exhibit on computer science. Presented by the Association of Science-Technology Centers and displayed at Science and Technology Institutes in San Francisco, Portland, Seattle, Lansing, Chicago, Richmond, Boston, Philadelphia, and Durham, March, 1984-January, 1986.
11. Garfin, S. R., Botte, M.J., Nickel, V. L., Woo, S. L-Y, Katz, M. M., and Akeson, W. H.: Mechanics of Halo Pin Fixation. Western Orthopaedic Society Annual Meeting, San Diego, California, October 1984.
12. Garfin, S.R., Booth, Jr., R.E., Kurz, L.T., Botte, M.J., and Stambough, J.R.: Techniques and Complications of Obtaining Pelvic Bone Grafts. American Academy of Orthopaedic Surgeons Annual Meeting. Las Vegas, Nevada, January, 1985.
13. Lee, T.Q., Garfin, S.R., Roux, R.D., Silva, F.W., Botte, M.J., and Woo, S.L-Y.: Cervical Spine Immobilization: Biomechanical Characterization of "Halo Fixation Pin-Bone" Interface. Orthopaedic Research Society 32nd Annual Meeting. New Orleans, Louisiana, February, 1986.
14. Glover, M.G., Hargens, A.R., Garfin, S.R., Brown, M.D., Akeson, W.H.: New Osmometer for Rapid, Equilibrium Measurement of Swelling Pressure of Nucleus Pulposus. Orthopaedic Research Society 33rd Annual Meeting. San Francisco, California, January, 1987.

15. Atkinson, J.H., Ancoli-Israel, S., Slater, M.A., Garfin, S.R., and Gillin, J.C.: Subjective Sleep Disturbance in Chronic Low Back Pain. 5th International Congress of Sleep Research. Copenhagen, Denmark, June 30, 1987.
16. Grant, I., Atkinson, J.H., Slater, M.A., and Garfin, S.R.: Stressful Life Events and Depression in Chronic Low Back Pain. Academy of Psychosomatic Medicine Annual Meeting, November 12-15, 1987.
17. Slater, M.A., Atkinson, J.H., Grant, I., Ingram, R.E., and Garfin, S.R.: Pain and Impairment Beliefs in Chronic Low Back Pain: Validation of the Pain and Impairment Relationship Scale. 21st Annual AABT Convention. Boston, Massachusetts, November 12-15, 1987.
18. Ingram, R.E., Atkinson, J.H., Slater, M.A., Garfin, S.R., Saccuzzo, D.P>: Negative Cognitive Distortion and Automatic Thinking in Chronic Pain and Depression. 21st Annual Meeting of the American Association of Behavioral Therapy, Boston, MA, November 9-12, 1987.
19. Atkinson, J.H., Slater, M.A., Grant I., Garfin, S.R.: Psychiatric Illness in Chronic Low Back Pain Patients and Non-pain Controls. 35th Annual Meeting of the Academy of Psychosomatic Medicine, Las Vegas, NV, November 12-15, 1987.
20. Slater, M.A., Atkinson, J.H., Garfin, S.R.: Behavioral Factors in Chronic Low Back Pain: Depression, Cognition, and Impairment in a General Orthopedic Clinic. First International Conference on Biobehavioral Self-Regulation and Health, Honolulu, HI, November 18-29, 1987.
21. Pedowitz, R.A., Hargens, A.R., Rydevik, B.L., Gershuni, D.H., Garfin, S.R., Crenshaw, A.G., Petras, S., Akeson, W.H.: Tourniquet Design Affects Arterial Occlusion Pressure. 34th Annual Meeting, Orthopaedic Research Society. Atlanta, Georgia, February 1-4, 1988.
22. Lavernia, C.J., Bhasin, S., Sartoris, D., Resnick, D., Reindel, E., Hollis, J.M., Garfin, S.R., Lambiasi, R., Woo, S.L-Y., and Convery, F.R.: Assessment of Fracture Risk in Osteoporosis With Three Dimensional and Single Slice Computed Tomography: A Biomechanical Correlation. 34th Annual Meeting, Orthopaedic Research Society. Atlanta, Georgia, February 1-4, 1988.
23. Gott, S.A., Hargens, A.R., Garfin, S.R., Rydevik, B.L., and Brown, M.D.: Swelling Pressure of Nucleus Pulposus From Herniated and Intact Human Intervertebral Discs. 34th Annual Meeting, Orthopaedic Research Society. Atlanta, Georgia, February 1-4, 1988.
24. Kwan, M.K., Rydevik, B.L., Myers, R.R., Garfin, S.R., Triggs, K., and Woo, S.L-Y.: Stretch Injury of Rabbit Peripheral Nerve: A Biomechanical and Histological Study. 34th Annual Meeting, Orthopaedic Research Society. Atlanta, Georgia, February 1-4, 1988.
25. Pedowitz, R.A., Rydevik, B.L., Hargens, A.R., Swenson, M.R., Myers, R.R., and Garfin, S.R.: Motor and Sensory Nerve Root Conduction Deficit Induced By Acute Graded Compression of the Pig Cauda Equina. 34th Annual Meeting, Orthopaedic Research Society. Atlanta, Georgia, February 1-4, 1988.
26. Pedowitz, R.A., Hargens, A.R., Rydevik, B., Garfin, S.R., Crenshaw, A., Gott, S., Petras, S.: The Curved Tourniquet Cuff Allows Lower Inflation Pressure for Arterial Occlusion and May Decrease Tourniquet Morbidity. American Academy of Orthopaedic Surgeons, 55th Annual Meeting. Atlanta, Georgia, February 4-9, 1988.
27. Atkinson, J.H., Slater, M.A., Grant, I., Patterson, T.L., and Garfin, S.R.: Depression in Chronic Low Back Pain: Relationship with Stressful Life Events. The Society of Behavioral Medicine, 9th Annual Scientific Sessions. Boston, Massachusetts, April 27-30, 1988.

28. Slater, M.A., Schwartz, L., Atkinson, J.H., Birchler, G.R., Garfin, S.R.: Depression in Spouses of Chronic Pain Patients: The Role of Patient Pain and Anger. Canadian and American Pain Societies Joint Meeting. Toronto, Canada, November 10-13, 1988.
29. Lavernia, C.J., Bhasin, S., Sartoris, D., Reindel, E., Resnick, D., Hollis, J.M., Garfin, S., Lambiasi, R., Woo, S.L.-Y., Convery, F.R.: Assessment of Fracture Risk in Osteoporosis with Three Dimensional and Single Slice Computer Tomography. Orthopedic Residents Society 34th Annual Meeting. Atlanta, Georgia, February, 1988.
30. Garfin, S.R.: SpF-2 "Implantable Spinal Fusion Stimulator" (Video), EBI Medical Systems, Inc., 1988.
31. Atkinson, J.H., Slater, M.A., Grant, I., Garfin, S.R.: Chronic Back Pain and Lifetime Psychiatric Disorder: A Controlled Study. 45th Annual Meeting of the American Psychosomatic Society, Toronto, Canada, March 24-27, 1988.
32. Atkinson, J.H., Slater, M.A., Grant, I., Patterson, T.L., Garfin, S.R.: Depression and Stressful Life Events in Chronic Back Pain. 45th Annual Meeting of the American Psychosomatic Society, Toronto, Canada, March 24-27, 1988.
33. Atkinson, J.H., Slater, M.A., Grant, I., Garfin, S.R.: Chronic Pain and Psychiatric Disorders. 7th General Meeting of the American Pain Society, Toronto, Canada, November 10-13, 1988.
34. Slater, M.A., Weickgenant, A., Atkinson, J.H., Patterson, T.L., Grant, I., Garfin, S.R.: Coping Strategies and Depression in Chronic Low Back Pain. 7th General Meeting of the American Pain Society, Toronto, Canada, November 10-13, 1988.
35. Kwan, M.K., Rydevik, B., Myers, R.R., Triggs, K., Woo, S.L.-Y., Garfin, S.R.: Biomechanical and Histological Assessment of Human Lumbosacral Spinal Nerve Roots. 35th Annual Meeting of the Orthopaedic Research Society. Las Vegas, Nevada, February 6-9, 1989.
36. Pedowitz, R.A., Rydevik, B.L., Hargens, A.R., Swenson, M.R., Massie, J., Lee, S., Myers, R.R., Garfin, S.R.: The Effects of Magnitude and Duration of Acute Compression Upon Impulse Conduction in the Pig Cauda Equina: Differential Recovery of Sensory and Motor Nerve Roots. 35th Annual Meeting of the Orthopaedic Research Society. Las Vegas, Nevada, February 6-9, 1989.
37. Atkinson, H., Slater, M.A., Grant, I., Patterson, T.L., and Garfin, S.R.: Psychopathology and Pain Onset. 8th Annual Scientific Meeting of the American Pain Society. Phoenix, Arizona, October 26-29, 1989.
38. Lakotas, L.M., Slater, M.A., Atkinson, J.H., Grant, I., and Garfin, S.R.: Assessing Health Status and Quality of Life in Chronic Low Back Pain. 8th Annual Scientific Meeting of the American Pain Society. Phoenix, Arizona, October 26-29, 1989.
39. Slater, M.A., Good, A.B., Atkinson, J.H., and Garfin, S.R.: Physiologic Reactivity to Psychosocial Stress in Chronic Low Back Pain: A Pilot Study. 8th Annual Scientific Meeting of the American Pain Society. Phoenix, Arizona, October 26-29, 1989.
40. Slater, M.A., Atkinson, J.H., Weickgenant, A., Patterson, T.L., Grant, I., Garfin, S.R.: Coping with Chronic Low Back Pain: The Role of Depression. 10th Annual Scientific Session of the Society of Behavioral Medicine, San Francisco, CA, March 28-31, 1989.
41. Lakotas, L.M., Slater, M.A., Atkinson, J.H., Grant, I., Garfin, S.R.: The Quality of Well-Being Scale: Measuring the Health Status in Chronic Low Back Pain. 10th Annual Scientific Session of the Society of Behavioral Medicine, San Francisco, CA, March 28-31, 1989.

42. Schwartz, L, Slater, M.A., Atkinson, J.H., Birchler, G.R., Grant, I., Garfin, S.R.: A Model of Depression in Spouses of Chronic Pain Patients. 10th Annual Scientific Session of the Society of Behavioral Medicine, San Francisco, CA, March 28-31, 1989.
43. Lakotas, L.M., Slater, M.A., Atkinson, J.H., Grant, I., Garfin, S.R.: The Quality of Well-Being Scale: application to Low Back Pain. 36th Annual Meeting of the Academy of Psychosomatic Medicine, Las Vegas, NV, October 26-29, 1989.
44. Weickgenant, A.L., Slater, M.A., Atkinson, J.H., Patterson, T.L., Grant, I., Garfin, S.R.: Coping in Psychosomatic Medicine, Las Vegas, NV. October 26-29, 1989.
45. Atkinson, J.H., Slater, M.A., Grant, I., Patterson, T.L., Garfin, S.R.: Psychopathology and Pain Onset. 47th Annual Meeting of the American Psychosomatic Society, Boston, MA, March 22-24, 1990.
46. Weickgenant, A., Slater, M.A., Atkinson, J.H., Patterson, T.L., Grant, I., Garfin, S.R.: Consistency of Coping: Managing Symptoms Versus General Stressors. 47th Annual Meeting of the American Psychosomatic Society, Boston, MA, March 22-24, 1990.
47. Weickgenant, A., Slater, M.A., Atkinson, J.H., Patterson, T.L., Grant, I., Garfin, S.R.: Differential Coping with the Stresses of Chronic Low Back Pain. 11th Annual Scientific Sessions of the Society of Behavioral Medicine, Chicago, IL, April 18-21, 1990.
48. Atkinson, J.H., Slater, M.A., Grant, I., Patterson, T.L., Garfin, S.R.: Relating Risk of Depression and Alcohol Use Disorders to Chronic Pain: Is The Risk When We Think It Is? 37th Annual Meeting of the Academy of Psychosomatic Medicine, Phoenix, AZ, November 15-18, 1990.
49. Carlson, G.D., Abitbol, J.J., Anderson, D.R., Krag, J.J., Kostuik, J.P., Woo, S.L.-Y., and Garfin, S.R.: Screw Fixation in the Human Sacrum: An In Vitro Study of the Biomechanics of Fixation. Canadian Orthopaedic Association 46th Annual Convention and Canadian Orthopaedic Research Society 25th Annual Meeting. Calgary, Alberta, June 2-6, 1991.
50. Garfin, S.R., Rothman, R.H.: Laminotomy/Discectomy. NASS A-V Library #V037, 1991. (Best Audio-Visual Education Tape)
51. Klapow, J.C., Slater, M.A., Atkinson, J.H., Weickgenant, A.L., Garfin, S.R.: Stability of Multidimensional Outcome Groups Over Time and Relationship to Pain Pattern in Chronic Low Back Pain. 10th Annual Scientific Meeting of the American Pain Society, New Orleans, LA, November, 1991.
52. Garfin, S.R.: Laminectomy/Discectomy--Surgical Procedures. Individual Orthopaedic Instruction (IOI). American Academy of Orthopaedic Surgeons 59th Annual Meeting. Washington, D.C., February 7-12, 1992.
53. Garfin, S.R., Rothman, R.H.: Laminectomy/Discectomy--Surgical Technique. Individual Orthopaedic Instruction. 1992 Awards Program. Video/CD-ROM/Interactive Theater. February 20-24, 1992.
54. Botte, M.J., Von Schroeder, H.P., Miyoshi-Ma, K.E., Abrams, R.A., Garfin, S.R., Akeson, W.H.: Sensibility of the Normal Adult Foot. American Academy of Orthopaedic Surgeons 59th Annual Meeting. Washington, D.C., February 20-25, 1992.
55. Albert, T.J., Balderston, R.A., Herkowitz, H.N., An, H.S., Garfin, S.R.: Upper Lumbar Disc Herniations. American Academy of Orthopaedic Surgeons 59th Annual Meeting. Washington, D.C., February 20-25, 1992.
56. Smith, S., Abitbol, J., Anderson, D., Carlson, G., Taggart, K., Garfin, S.: The Effects of Depth of

Penetration, Screw Orientation, and Bone Density on Sacral Screw Fixation. International Society for the Study of the Lumbar Spine, 19th Annual Meeting. Chicago, IL, May 20-24, 1992.

57. Zdeblick, T.A., Abitbol, J.J., Garfin, S., Kunz, D.N., McCabe, R., Cooke, M.E.: Cervical Stability Following Sequential Capsule Resection. Cervical Spine Research Society 20th Annual Meeting. Palm Desert, CA, December 3-5, 1992.
58. Saal, J.S., Franson, R., Garfin, S.R., Saal, J.A., Meyers, R.: Human Disc PLA<sub>2</sub> Induces Neural Injury: A Histomorphometric Study. Orthopaedic Research Society 39th Annual Meeting, San Francisco, CA, February 15-18, 1993.
59. Vaccaro, A.R., Ring, D., Scuderi, G.R., Garfin, S.R.: Vertebral Artery Location in Relation to the Vertebral Body as Determined by Two Dimensional CT Evaluation. Cervical Spine Research Society 21st Annual Meeting, December 1-4, 1993.
60. Vaccaro, A.R., Ring, D., Scuderi, G., Garfin, S.R.: Acute Calcific Retropharyngeal Tendinitis: A Clinical Presentation and Pathologic Characterization. Cervical Spine Research Society 21st Annual Meeting, December 1-4, 1993.
61. Williams, R.A., Doctor, J.N., Slater, M.A., Garfin, S.R., Webster, J., Chandler, J., Atkinson, J.H.: Predicting Chronic Low Back Pain from Pre-injury Job Satisfaction. 1994 Annual Meeting of the American Psychosomatic Society, Boston, MA, April 13-16, 1993.
62. Klapow, J.C., Slater, M.A., Atkinson, J.H., Garfin, S.R., Webster, J., Chandler, J.: Identifying Acute Low Back Pain Patients at Risk for Chronicity. 1994 Annual Meeting of the American Psychosomatic Society, Boston, MA, April 13-16, 1993.
63. Chesnut, R.M., Vaccaro, A.R., Healy, J.F., Massie, J.B., Garfin, S.R.: Metallic Artifacts in Spinal MR Imaging Following Non-Instrumented Surgery. 1994 American Association of Neurological Surgeons, San Diego, CA, April 9-14, 1993.
64. Lincoln, T.L., Lind, B., Abitbol, J.J., Amiel, D., Akeson, W.H., Garfin, S.R.: Preventing Postlaminectomy Adhesion: A New Experimental Model. 20th Annual Meeting International Society for the Study of the Lumbar Spine, Marseilles, France, June 15-19, 1993.
65. Lind, B.I., Massie, J.B., Lincoln, T.L., Myers, R., Swenson, M., Garfin, S.R.: The Effects of Induced Hypertension and Acute Graded Compression on Impulse Propagation in the Spinal Nerve Roots of the Pig. 20th Annual Meeting International Society for the Study of the Lumbar Spine, Marseilles, France, June 15-19, 1993.
66. Chesnut, R.M., Vaccaro, A.R., Healy, J.F., Massie, J.B., Garfin, S.R.: Metallic Artifacts in Spinal MR Imaging Following Noninstrumented Surgery. 62nd Annual Meeting of the American Association of Neurological Surgeons, San Diego, California, April 9-14, 1994.
67. Grimes, P., Massie, J., Swenson, M., Garfin, S.: Acute Compression and Ischemia as it Affects the Conus Medullaris: Electrophysiologic Study in a Pig Model. North American Spine Society's Ninth Annual Meeting, Minneapolis, MN, October 19-22, 1994.
68. Slater, M.A., Williams, R.A., Atkinson, J.H., Garfin, S.R., Webster, J., Chandler, J.: Multidimensional Characterization of Acute Back Pain Outcomes. Academy of Psychosomatic Medicine Annual Meeting, Palm Springs, CA, November 9, 1995.
69. Atkinson, J.H., Garfin, S.R., Williams, R.A., Slater, M.A., Kramer, M., Webster, J., Chandler, J.: Are There Psychosocial Risk Factors for Progression to Chronic Pain Syndrome? North American Spine

Society, 10th Annual Conference, Washington, DC, October 18-21, 1995.

70. Vaccaro, A.R., Abraham, D., Cotler, J., Scuderi, G., Eismont, F.J., Garfin, S.R.: Failure of Multilevel Anterior Unicortical Cervical Plate Instrumentation. Cervical Spine Research Society, 23rd Annual Meeting, Santa Fe, NM, November 30-December 2, 1995.
71. Klein, J.D., Coufal, F.J., Meyer, S.R., Marshall, L.F., Garfin, S.R.: Perioperative Nutrition and Postoperative Complications in the Surgical Treatment of Patients with Spinal Cord Injury. Cervical Spine Research Society, 23rd Annual Meeting, Santa Fe, NM, November 30-December 2, 1995.
72. Slater, M.A., Atkinson, J.H., Williams, R.A., Epping-Jordan, J.E., Wahlgren, D.R., Pruitt, S.D., Webster, J.S., Grant, E., Patterson, T.L., Garfin, S.R.: Quality of Life In An Inception Cohort of Acute Low Back Pain Patients. International Association for the Study of Pain, 8th World Congress on Pain, Vancouver, BC, Canada, August 17-22, 1996.
73. Atkinson, J.H., Slater, M.A., Williams, R.A., Epping-Jordan, J.E., Wahlgren, D.R., Pruitt, S.D., Garfin, S.R., Patterson, T.L., Grant, I., Zisook, S.: Specificity of Nortriptyline In The Treatment of Low Back Pain Without Depression. International Association for the Study of Pain, 8th World Congress on Pain, Vancouver, BC, Canada, August 17-22, 1996.
74. Garfin, S.R.: Back Pain: A Surgeon's Perspective. Advanced Imaging of the Spine, Coronado, CA, July 21-25, 1996.
75. Garfin, S.R.: Spine Imaging: What Does the Surgeon Want To Know, Coronado, CA, July 21-25, 1996.
76. Vaccaro, A., Abraham, D., Garfin, S.: Failure of Multilevel Anterior Unicortical Cervical Plate Instrumentation. North American Spine Society, 11th Annual Conference, Vancouver, BC, Canada, October 23-26, 1996.
77. Learch, T.J., Massie, J.B., Pathria, M.N., Garfin, S.R.: Pedicle Screw Placement : Evaluation with Plain Films and CT and the Development of a Systematic Approach to Improve Imaging Interpretation and Accuracy. Radiological Society of North America, 82nd Scientific Assembly and Annual Meeting, Chicago, IL, December 1-6, 1996.
78. Vaccaro, A. R., Abraham, D.J., Scuderi, G.J., Garfin, S.R.: Failure of Multilevel Anterior Unicortical Cervical Plate Instrumentation. American Academy of Orthopaedic Surgeons, 64th Annual Meeting, San Francisco, CA, February 13-17, 1997
79. Wahlgren, D.R., Epping-Jordan, J.E., Pruitt, S.D., Williams, R.A., Slater, M.A., Patterson, T.L., Garfin, S.R., Webster, J.S., Atkinson, J.H.: Clinical Symptoms and Cognitions in Acute vs. Chronic Low Back Pain. 18th Annual Scientific Sessions of the Society of Behavioral Medicine, San Francisco, CA, April 16-19, 1997.
80. Shah, S.A., Vaccaro, A.R., Silveri, C.P., Foley, K., Garfin, S.R.: The Use of Image Guidance Technology in Transarticular Screw Fixation in the Cervical Spine. Cervical Spine Research Society, 25<sup>th</sup> Annual Meeting, Rancho Mirage, CA, December 4-6, 1997.
81. Garfin, S.R.: Biology of Spinal Fusion. Methods of Interbody Fusion of the Spine, New York City, NY, December 12, 1997.
82. Garfin, S.R.: Spondylolytic Spondylolisthesis: Interbody Fusion. Methods of Interbody Fusion of the Spine, New York City, NY, December 12, 1997.

83. Shah, S.A., Vaccaro, A.R., Silveri, C.P., Foley, K.T., Garfin, S.R.: The Use of Image Guidance Technology in Transarticular Screw Fixation in the Cervical Spine. American Academy of Orthopaedic Surgeons, 65<sup>th</sup> Annual Meeting, New Orleans, LA, March 19-23, 1998.
84. Massie, J.B., Chiu, J.J., Abitbol, J.J., Garfin, S.R.: Collagen Membrane as an Agent Used in the Prevention of Postlaminectomy Epidural and Nerve Root Scar Formation. Orthopaedic Research Society, 44<sup>th</sup> Annual Meeting, New Orleans, LA, March 16-19, 1998.
85. Garfin, S.R.: Disc Disease. 1998 Physical Medicine Symposium – Spine Update, La Jolla, CA, August 22-23, 1998.
86. Garfin, S.R.: Spondylolisthesis. 1998 Physical Medicine Symposium – Spine Update, La Jolla, CA, August 22-23, 1998.
87. Lane, J., Girardi, F., Khan, S., Parvataneni, H., Reiley, M., Lieberman, I., Garfin, S., Phillips, F., Yuan, H.: Preliminary outcomes of the first 311 consecutive kyphoplasties for the fixation of painful osteoporotic vertebral compression fractures. American Orthopaedic Association Annual Meeting. June 21, 2001.
88. Garfin, S.R.: A prospective Study of Early Outcomes of Balloon Kyphoplasty – North American Spine Society 16th Annual Meeting, Seattle, WA, October 31-November 3, 2001.
89. Vives, M., Manos, R., Yuan, P., Kauffman, C., Garfin, S.R.: The effect of radiofrequency energy on dural tissue: Histomorphologic analysis. International Society for the Study of the Lumbar Spine Annual Meeting, Cleveland, Ohio, May; 14-18, 2002.
90. Chau, D., Garfin, S.R.: Secondary causes of Osteoporosis. American Geriatrics Society 2002 Annual Meeting – poster session. May 8-12, 2002.
91. Chau, D., Garfin, S.R.: Demographics of Patients Seeking Kyphoplasty for Compression Fractures. American Geriatrics Society 2002 Annual Meeting – poster session. May 8-12, 2002
92. Massie, J.B., Huang, B., Kim, C.W., Sah, R., Garfin, S.R., Akeson W.H. Prevention of epidural fibrosis post-laminectomy: 3 weeks and 8 weeks study using a barrier sheet and hyaluronan gel. Poster presentation at the 17<sup>th</sup> Annual Meeting of the North American Spine Society, Montreal, Canada.
93. Bono, C.M., Iki, K., Jalota, A., Dawson, K., Garfin, S.R. Temperatures within the lumbar disc and endplates during intradiscal electrothermal therapy: formulation of a predictive temperature map in relation to distance from the catheter. Paper presentation. International Spinal Injection Society (ISSI), September 2002.
94. Massie, J., Huang, B., Schimizzi, A., Malkmus, S., Yaksh, T., Kim, C., Garfin, S., Akeson, W.,: Post-Laminectomy Rat Model Mimics the Ching Tactile Allodynia Model. American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, LA, February 5-9, 2003.
95. Bono, C., Iki, K., Jalota, A. Dawson, K., Garfin, S.: Temperatures with the Lumbar Disc and Endplates During Intradiscal Electrothermal Therapy: Formulation of a Predictive Temperature Map in Relation to Distance from the Catheter. American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, LA, February 5-9, 2003.
96. Bono, C.M., Bawa, M., White, K., Mahar, A., Kauffman, C., Vives, M., Garfin, S. Lumbar arthrodesis: How much radiographic motion is present after solid fusion? ISSLS, Vancouver, May 2003.
97. Bono, C.M., Iki, K., Jalota, A. Dawson, K., Garfin, S.R. Temperatures within the lumbar disc and

endplates during intradiscal electrothermal therapy: formulation of a predictive temperature map in relation to distance from the catheter. Poster presentation. ISSLS, Vancouver, May 2003.

98. Garfin, S., Ledlie, J.: Continuing Significant Improvement in Physical and Emotional Health Following Kyphoplasty for Painful Pathological Vertebral Body Compression Fractures (VCFS): Two Year Outcomes From an IRB Approved, Prospective, Single Arm, Multi-center, Prospective Study. Annual Meeting of the Spine Society of Europe, Prague, Czech Republic October 1, 2003.
99. Khanda, A., Vadapalli, S., Holekamp, S., Goel, V., Bono, C., Garfin, S. Quantifying motion across a solid lumbar interbody fusion using a finite element model. Poster presentation. American Society of Mechanical Engineers. 2003.
100. White, K., Ahn, J-S., Bawa, M., Farnsworth, C., Faro, F., Mahar, A., Oka, R., Wedemeyer, M., Newton, P., Garfin, S.: The effect of rhBMP-2 on allograft union and remodeling in a corpectomy model. Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, March 10-13, 2004.
101. Bono, C., Khandh, A., Vadapalli, S., Holekamp, S., Goel, V., Garfin, S.: Residual motion after lumbar fusion: Are current radiograph flexion-extension criteria correct? Annual Meeting of Orthopaedic Research Society. San Francisco, CA March 8 -10, 2004.
102. Bono, C., Iki, K., Jalota, A. Dawson, K., Garfin, S.: Temperatures with the Lumbar Disc and Endplates During Intradiscal Electrothermal Therapy: Formulation of a Predictive Temperature Map in Relation to Distance from the Catheter. International Society for the Study of the Lumbar Spine, Vancouver, Canada, May 13-17, 2004.
103. Bono, C., Bawa, M., White, K., Mahar, A., Vives, M., Kauffman, C., Garfin, S.,: Lumbar arthrodesis: How much radiographic motion can be present with solid fusion? International Society for the Study of the Lumbar Spine, Vancouver, Canada, May 13-17, 2004.
104. White, K., Ahn, J-S., Bawa, M., Farnsworth, C., Faro, F., Mahar, A., Oka, R., Wedemeyer, M., Newton, P., Garfin, S.: The effect of rhBMP-2 on allograft union and remodeling in a corpectomy model. International Society for the Study of the Lumbar Spine, Vancouver, Canada, May 13-17, 2004.
105. Bono, C.M., Yuan, P., Clausen, J.D., Massie, J.B., Selz, T., Scifert J.L., Garfin, S.R. Does sagittal pedicle screw insertion angle influence axial compressive strength of the construct? Poster presentation. ISSLS, Portugal, May 2004.
106. Bawa, M., Schimizzi, A., Kim, C., Leek, B., Bono, C., Massie, J., Macias, B., Chung, C., Cornwall, B., Hargens, A., Garfin, S. Vascular contribution of paraspinal muscles in posterolateral spinal fusion. Paper presentation. North American Spine Society, Chicago, October 2004.
107. Bawa, M., Schimizzi, A., Kim, C., Leek, B., Bono, C., Massie, J., Macias, B., Chung, C., Cornwall, B., Hargens, A., Garfin, S. Vascular contribution of paraspinal muscles in posterolateral spinal fusion. Paper presentation. AAOS, Washington, D.C., February 2005.
108. Kim, C.W., Perry A., Bates, Y., Massie, J., Lu, L., Yaszemski, J.J., Currier, B., Mahar, A., Garfin, S.R. Biomechanical Evaluation of an injectable radiopaque polypropylene cement for Kyphoplasty in a Cadaveric Osteoporotic Vertebral Compression Fracture Model. Poster presentation at the Society for Biomaterials Research, April 2005
109. Bono, C.M., Yuan, P., Massie, J., Goel, V., Garfin S.R. Does Sagittal Pedicle Screw Insertion Angle Influence Axial Compressive Strength of the Construct? The 118<sup>th</sup> Annual Meeting of The American Orthopaedic Association. Huntington Beach, CA June 22-25, 2005.

110. Kim, C., Perry, A., Mahar, A., Lu, L., Yaszemski, M., Massie, J., Garfin, S.R.. Biomechanical Evaluation of an Injectable Radiopaque Polypropylene Fumarate Bone Cement for Kyphoplasty. Proceedings of the North American Spine Society 20<sup>th</sup> Annual Meeting. Philadelphia, PA, Sept 28 – Oct 1, 2005.
111. Kim, C.W., Perry, A., Mahar, A., Lu, L.C., Yaszemski, M.D., Massie, J., Garfin, S.R., PPF Kyphoplasty Poster presentation at the North American Spine Society 20<sup>th</sup> Annual Meeting. Philadelphia, PA, Sept 28 – Oct 1, 2005.
112. Bono, C.M., Khanda, A., Vadapalli, S., Holekamp, S., Goel, V.K., Garfin, S.R. Residual angular motion after simulated solid lumbar fusion: a finite element analysis with implications on interpreting flexion-extension radiographs. Paper presentation. North American Spine Society 20<sup>th</sup> Annual Meeting. Philadelphia, PA, September 2005.
113. Bono, C.M., Goel, V., Garfin, S.R. Finite Element Analysis of Motion with Solid Cervical Fusion: Implications on Interpreting Flexion-Extension Radiographs. 52<sup>nd</sup> Annual Meeting of the Orthopaedic Research Society. Chicago, IL March 19-22, 2006.
114. Bono, C.M., Yuan, P., Massie, J, Goel, V., Garfin, S.R. Does sagittal pedicle screw insertion angle influence axial compressive strength of the construct? Poster presentation. 52<sup>nd</sup> Annual Meeting of the Orthopaedic Research Society. Chicago, IL March 19-22, 2006.
115. Bono, C.M., Khanda, A., Vadapalli, S., Holekamp, S., Goel, V., Garfin, S.R. Residual motion after lumbar fusion: Are current radiographic flexion-extension criteria correct? Poster presentation. ISSLS, Bergen, Norway, 2006.
116. Massie, JB, Kulkarni, VA, Wang, M, Zauner F, Murphy ME, Kim, CE, Garfin, SR, Akeson, WH. High Molecular Weight Hyaluronan Decreases Tactile Allodynia and Spinal Cord IL-6 Expression in a Post-Laminectomy Rat Model. Orthopaedic Research Society, February 11-13, 2007
117. Bono, C.M., Faizan, A., Vishnubhotia, S., Goel, V., Garfin, S.R. Analysis of Motion after Cervical Fusion: Implications on Interpreting F-E Radiographs. Paper presentation. AAOS 2007 Annual Meeting, San Diego, CA. February 14, 2007.
118. Massie, J., Lee, Y.P., Mooney, V., Akeson, W., Garfin, S.R. The Effect of glucosamine and Betamethasone on Disc Degeneration. Electronic Poster. NASS 22<sup>nd</sup> Annual Meeting, Austin, TX October 23-27, 2007.
119. Faizan, A., Goel, V.K., Kulkarni, N., Biyani, A., Garfin, S., Bono, C., Maguire, Serhan, H. Biomechanical Comparison Following Bilevel Fusion, Bilevel Total Disc Replacement and Fusion Plus total Disc Replacement At Adjacent Levels In Cervical Spine. Poster No. 1352. 54<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, San Francisco, CA March 2-5, 2008.
120. Kim, C.W., Ward, S.R., Tomiya, A., Regev, G., Dhawan, M., Gottschalk, L., Garfin, S.R., Lieber, R.L. Microarchitecture Studies of the Human Multifidus Muscle Reveal its Unique Design as a Major Dynamic Stabilizer of the Lumbar Spine. Poster No. 1616. 54<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, San Francisco, CA March 2-5, 2008.
121. Regev GJ, Chen L, Dhawan M, Lee YP, Garfin SR, Kim SW. Location of the Lumbar Ventral Nerve Roots and the Retroperitoneal Large Vessels with Respect to Minimally Invasive, Lateral Interbody Fusion Technique in the Normally Aligned and Deformed Spines. Oral Poster at the World Congress of Minimally Invasive Spine Surgery & Techniques (WCMISST), Honolulu, Hawaii June 3-7, 2008.
122. Regev GJ, Chen L, Dhawan M. Lee, YP, Garfin SR, Kim CW. Determining the Proper Cage Length with Respect to the Insertion Point, in Minimally Invasive Direct Lateral Interbody Fusion: A MRI Study.

Oral Poster at the World Congress of Minimally Invasive Spine Surgery & Techniques (WCMISSST), Honolulu, Hawaii June 3-7, 2008.

123. Regev GJ, Garfin SR, Kim CW. Nerve Injury to the Posterior Rami Medial Branch During the Insertion of Pedicle Screws; Comparison of the Mini-Open vs. Percutaneous Pedicle Screw Insertion Techniques. Oral Poster at the World Congress of Minimally Invasive Spine Surgery & Techniques (WCMISSST), Honolulu, Hawaii June 3-7, 2008.
124. Regev GJ, Taylor W, Lee YP, Garfin SR, Kim CW. Nerve Injury to the Posterior Rami Medial Branch During the Insertion of Pedicle Screws: Comparison of the Mini-Open vs. Percutaneous Pedicle Screw Insertion Techniques. Poster presentation at the 2008 Annual Meeting of the Society for Minimally Invasive Spine Surgery, Henderson, NV, November 14, 2008.
125. Regev GJ, Chen L, Dhawan M, Lee YP, Garfin SR, Kim CW. Location of the Lumbar Ventral Nerve Roots and the Retroperitoneal Large Vessels with Respect to Minimally Invasive, Lateral Interbody Fusion Technique, in the Normally Aligned and Deformed Spines. Poster presentation at the 2008 Annual Meeting of the Society for Minimally Invasive Spine Surgery, Henderson, NV, November 14, 2008.
126. Regev GJ, Taylor W, Garfin SR, Kim CW. The Use of Concurrent Bilateral Minimally Invasive Open Approach for Central and Neuroforaminal Spinal Decompression. Poster presentation at the 2008 Annual Meeting of the Society for Minimally Invasive Spine Surgery, Henderson, NV, November 14, 2008.
127. Sclafani J, Regev GJ, Kubeck J, Lee YP, Taylor W, Garfin SR, Kim CW. Accuracy and Timing of Pedicle Screw Implantation Using the O-arm During Minimally Invasive Spine Surgery. Poster presentation at the 2008 Annual Meeting of the Society for Minimally Invasive Spine Surgery, Henderson, NV, November 14, 2008.
128. Patel N, Regev GJ, Taylor WR, Lee YP, Garfin SR, Kim CW. Radiographic Techniques for the Treatment of Degenerative Lumbar Scoliosis. Poster presentation at the 2008 Annual Meeting of the Society for Minimally Invasive Spine Surgery, Henderson, NV, November 14, 2008.
129. Haloman S, Regev GJ, Chen L, Dhawan M, Garfin SR, Kim CW, Taylor WR. Incidence and Prevention of Intervertebral Cage Overhang with the MIS Lateral Approach. Poster presentation at the 2008 Annual Meeting of the Society for Minimally Invasive Spine Surgery, Henderson, NV, November 14, 2008.
130. Gottschalk LJ, Regev GJ, Taylor WR, Garfin SR, Kim CW. The Use of Posterior Minimally Invasive Approach for Corpectomy. Poster presentation at the 2008 Annual Meeting of the Society for Minimally Invasive Spine Surgery, Henderson, NV, November 14, 2008.
131. Lee YP, Regev GJ, Chen L, Dhawan M, Garfin SR, Kim CW. Location of the Lumbar Ventral Nerve Roots and the Retroperitoneal Large Vessels with Respect to Minimally Invasive, Lateral Interbody Fusion Technique, in the Normally Aligned and Deformed Spines. Oral Poster at the 9<sup>th</sup> Annual Global Symposium on Motion Preservation Technology, England, London, April 28-May 1, 2009.
132. Regev GJ, Tomiya A, Ward SR, Lieber RL, Garfin SR, Kim SW. Elastic Modulus of the Paraspinal Muscles Reflects on Their Contribution in Maintaining Spinal Stability. Analysis of the Differences Between Selected Paraspinal Muscle and Between Normal and Pathologic Muscles. Poster Presentation at the 9<sup>th</sup> Annual Global Symposium on Motion Preservation Technology, England, London, April 28-May 1, 2009.
133. Regev GJ, Chen L, Dhawan M, Lee YP, Garfin SR, Kim CW. Location of the Lumbar Ventral Nerve

Roots and the Retroperitoneal Large Vessels with Respect to Minimally Invasive, Lateral Interbody Fusion Technique, in the Normally Aligned and Deformed Spines. Podium presentation at the Scientific Abstract Competition, American College of Spine Surgery, 11<sup>th</sup> Annual Meeting, June 4-6, 2009, Newport Beach, CA.

134. Regev GJ, Taylor W, Lee YP, Garfin SR, Kim CW. Nerve Injury to the Posterior Rami Medial Branch During the Insertion of Pedicle Screws: Comparison of the Mini-Open vs. Percutaneous Pedicle Screw Insertion Techniques. Minimally Invasive, Lateral Interbody Fusion Technique, in the Normally Aligned and Deformed Spines. Podium presentation at the Scientific Abstract Competition, American College of Spine Surgery, 11<sup>th</sup> Annual Meeting, June 4-6, 2009, Newport Beach, CA.
135. Regev GJ, Tomiya A, Ward SR, Leiber RL, Garfin SR, Kim CW. Elastic Modulus of the Paraspinal Muscles Reflects on Their Contribution in Maintaining Spinal Stability. Analysis of the Differences Between Selected Paraspinal Muscles and Between Normal and Pathologic Muscles. Podium presentation at the Scientific Abstract Competition, American College of Spine Surgery, 11<sup>th</sup> Annual Meeting, June 4-6, 2009, Newport Beach, CA.
136. Regev GJ, Ward, SR, Tomiya A, Thacker BE, Garfin SR, Kim CW, Lieber RL. Myosin Heavy Chains Distribution in Selected Paraspinal Muscles and Within the Multifidus and Psoas Muscles. Podium presentation at the Scientific Abstract Competition, American College of Spine Surgery, 11<sup>th</sup> Annual Meeting, June 4-6, 2009, Newport Beach, CA.
137. Regev GJ, Haloman S, Chen L, Dhawan M, Lee YP, Garfin SR, Kim CW. Incidence and Prevention of Intervertebral Cage Overhand with Minimally Invasive Lateral Approach Fusions. Podium presentation at the Scientific Abstract Competition, American College of Spine Surgery, 11<sup>th</sup> Annual Meeting, June 4-6, 2009, Newport Beach, CA.
138. Robertson, C., Lee, Y.P., Kuper, M, Mahar, A, Lee, D, Garfin, S. Biomechanical Comparison of Transarticular Facet and Lateral Mass Screws for Cervical Spine Fusion. Poster No. P36. NASS 24<sup>th</sup> Annual Meeting, San Francisco, CA November 10-14, 2009.
139. Ghofrani, H., Nunn, T., Robertson, C., Mahar, A., Lee, Y.P., Garfin, S. Biomechanical Evaluation of a Titanium Mesh Implant Compared to Kyphoplasty: Is bone Cement Necessary for Vertebral Body Fracture Stabilization? Poster No. P43. NASS 24<sup>th</sup> Annual Meeting, San Francisco, CA November 10-14, 2009.
140. Regev, G.J., Chen, L., Dhawan, M., Lee, Y.P., Garfin, S.R., Kim, C.W. Morphometric Analysis of the Ventral Nerve Roots and Retroperitoneal Vessels with Respect to the Minimally Invasive Lateral Approach in Normal and Deformed Spines. Poster No. P46. NASS 24<sup>th</sup> Annual Meeting, San Francisco, CA November 10-14, 2009.
141. Ghofrani, H., Lee, Y.O., Garfin, S.R., Stambough, J., Herkowitz, H. Medical and Surgical Management of Postinstrumentation Spinal Osteomyelitis: Experts Opinion Survey. Poster No. 96. NASS 24<sup>th</sup> Annual Meeting, San Francisco, CA November 10-14, 2009.
142. Faizan, A., Terai, T., Goel, V.K., Manoj, K., Avanthi, C., Biyani, A., Elgafy, H., Ebraheim, N., Bono, C.M., Garfin, S.R., Serhan, H. Precompression of the Bone Graft with Plates in Cervical Spines Increases Stability and Prevent Stress Shielding: A biomechanical Investigation. Poster No. P146. NASS 24<sup>th</sup> Annual Meeting, San Francisco, CA November 10-14, 2009.
143. Patel N, Regev GJ, Taylor WR, Lee YP, Garfin SR, Kim CW. Radiographic Outcomes of the DLIF/XLIF Technique in Comparison to Other Fusion Techniques for the Treatment of Degenerative Lumbar Scoliosis. Oral presentation at the NASS 24<sup>th</sup> Annual Meeting, San Francisco, CA November 10-14, 2009.

144. Regev GJ, Chen L, Dhawan M, Lee YP, Garfin SR, Kim CW. Location of the Lumbar Ventral Nerve Roots and the Retroperitoneal Large Vessels with Respect to Minimally Invasive, Lateral Interbody Fusion Technique, in the Normally Aligned and Deformed Spines. Poster presentation at the NASS 24<sup>th</sup> Annual Meeting, San Francisco, CA November 10-14, 2009.
145. Lee YP, O'Brien J, Girard P, Schwartz A, Garfin, SR. Analysis of Orthopaedic Residents' In-Training Scores and Complications Before and After the 80 Hour Work Rule. Scientific Poster Display at the 123<sup>rd</sup> Annual Meeting of the American Orthopaedic Association, San Diego, CA June 9-12, 2010.
146. Lee YP, Ghofrani H, Garfin S. Evaluation of the Functional Anesthetic Discogram as a Screening Tool for Lumbar Fusion to Treat Degenerative Disc Disease. Electronic Poster at the 25<sup>th</sup> Annual North American Spine Society Meeting, Orlando, FL October 5-9, 2010.

#### **PRESENTATIONS:**

1. Garfin, S.R., Indeglia, R., Shea, M.A., and Bernstein, E.F.: Effect of Albumin Coated Surfaces on Erythrocyte Mechanical Destruction. American College of Surgeons Annual Meeting, Surgical Forum. Atlantic City, New Jersey, October, 1968.
2. Garfin, S.R., Tipton, C.M., Mubarak, S.J., Woo, S. L-Y., and Hargens, A.R.: Effect of Fascia on Muscle Tension and Pressure. Orthopaedic Research Society 25th Annual Meeting. San Francisco, California, February, 1970.
3. Garfin, S.R.: Advantages and Disadvantages of Casting Materials. American Academy of Orthopaedic Surgeons Annual Nursing Seminar. San Diego, CA, October, 1976.
4. Garfin, S.R., Mubarak, S.J., and Owen, C.A.: Anterolateral Compartment Syndrome, Fascial Defect and Superficial Peroneal Nerve Entrapment Syndrome - A Surgical Approach. American Society of Sports Medicine Annual Meeting. San Diego, California, July, 1977.
5. Garfin, S.R.: Plaster Casting Techniques and Workshop: University of California, San Diego, Emergency Physician Courses - 1976, 1977, 1978, and 1979.
6. Amiel, D., Akeson, W.H., Harwood, F.L., Garfin, S.R., and Mechanic, G.L.: Stable Reducible Collagen Cross-link Formation in Periarticular Connective Tissue of the Rabbit Knee after Nine Weeks of Immobilization. Western Connective Tissue Research Society. Keystone, Colorado, April, 1978.
7. Garfin, S.R., Mubarak, S.J., Evans, K.L., Hargens, A.R., and Akeson, W.H.: Quantification of Volume and Pressure Under Plaster Casts. Western Orthopaedic Association Annual Meeting. Seattle, Washington, October, 1978.
8. Mubarak, S.J., Hargens, A.R., Akeson, W.H., Schmidt, D.A., Garfin, S.R., and Gelberman, R.H.: Acute Compartment Syndromes - Diagnosis and Treatment Utilizing the Wick Catheter. SICOT XIV World Congress. Kyoto, Japan, October, 1978.
9. Garfin, S.R.: Treatment of Rattlesnake Bites. Compartment Syndrome Symposium Sponsored by University of California, San Diego. San Diego, CA, November, 1978.
10. Woo, S. L-Y., Ritter, M.A., Sanders, T.M., Gomez, M.A., Garfin, S.R., and Akeson, W.H.: Long-term Exercise Effects on the Biomechanical and Structural Properties of Swine Tendons. Orthopaedic Research Society 25th Annual Meeting. San Francisco, California, February, 1979.

11. Amiel, D., Woo. S. L-Y., Akeson, W.H., Mechanic, G.L., Harwood, F.L., and Garfin, S.R.: Joint Contracture: Biomechanical- chemical Correlates. Orthopaedic Research Society 25th Annual Meeting. San Francisco, California, February, 1979.
12. Mubarak, S.J., Garfin, S.R., Vance, R.M., and McKinnon, B.: Pitfalls of the Pavlik Harness. Pediatric Orthopaedic Study Group. Seattle, Washington, May, 1979.
13. Garfin, S.R., Castilonia, R.R., Mubarak, S.J., Hargens, A.R., Russell, F.E., and Akeson, W.H.: Rattlesnake Bites -- The Efficacy of Fasciotomy. Western Orthopaedic Association Annual Meeting. Las Vegas, Nevada, October, 1979.
14. Banta, J.V., and Garfin, S.R.: Extreme Varus Osteotomy for the Dysplastic Hip in Myelomeningocele. Western Orthopaedic Association Annual Meeting. Las Vegas, Nevada, October, 1979.
15. Garfin, S.R., Castilonia, R.R., Mubarak, S.J., Hargens, A.R., Akeson, W.H., and Russell, F.E.: An Evaluation of the Role of Surgical Decompression in the Treatment of Rattlesnake Bites. American College of Surgeons, Surgical Forum. Chicago, Illinois, November, 1979.
16. Smith, R.K., Tipton, C.M., Hargens, A.R., Evans, K.L., Zweifach, S.S., Gomez, M.A., Garfin, S.R., Mubarak, S.J., and Akeson, W.H.: Evaluation of Long Term Function in Skeletal Muscle. Orthopaedic Research Society 26th Annual Meeting. Atlanta, Georgia, February, 1980.
17. Hergenroeder, P.T., Gelberman, R.H., Garfin, S.R., and Mubarak, S.J.: Wick Pressure Measurements in Forearm Compartment Syndromes. American Orthopaedic Association Annual Residents Conference. Rochester, Minnesota, May, 1980.
18. Hergenroeder, P.T., Gelberman, R.H., Garfin, S.R., and Mubarak, S.J.: Compartment Syndromes of the Forearm. Western Orthopaedic Association Annual Meeting, Honolulu, Hawaii, 1980.
19. Mubarak, S.J., Garfin, S.R., Vance, R.M., McKinnon, B., and Sutherland, D.H.: Pitfalls in the use of the Pavlik Harness for Congenitally Dislocated Hips. Western Orthopaedic Association Annual Meeting, Honolulu, Hawaii, October, 1980.
20. Garfin, S.R.: Electrical Stimulation in the Treatment of Non-Unions. Symposium on Lower Extremity Trauma, San Diego, California, Nov., 1980.
21. Garfin, S.R.: Snake-Bite. Symposium on Lower Extremity Trauma. San Diego, California, November, 1980.
22. Hargens, A.R., Garfin, S.R., Mubarak, S.J., Castilonia, R.R., and Russell, F.E.: Edema Associated with Venomous Snake Bites. XI European Conference for Microcirculation, Garmisch-Partenkirchen, Germany, 1980.
23. Hergenroeder, P.T., Gelberman, R.H., Garfin, S.R., and Mubarak, S.J.: Compartment Syndromes of the Forearm. American Academy of Orthopaedic Surgeons, 48th Annual Meeting, Las Vegas, Nevada, March, 1981.
24. Garfin, S.R.: Spondylolisthesis. The Spine Study Group. Snowmass, Colorado, March, 1981.
25. Garfin, S.R.: Moderator - Problems of the Spine and Lower Extremity in the Child. American Academy of Orthopaedic Surgeons Course on Pediatric Orthopaedics, 1981.
26. Garfin, S.R.: Pathogenesis and Pathomechanics of Spinal Stenosis, American Academy of

Orthopaedic Surgeons - Resources for Basic Science Educators Course, San Diego, California, Nov. 1981.

27. Garfin, S.R.: If Roentgen Only Knew Seminar, "Electrical Healing of Bone Non-Union", to Society of Certified Radiological Technicians, San Diego, California, Nov. 1981.
28. Garfin, S.R.: Electrical Stimulation of Bone. Bone Grafting: Biology and Application Course, San Diego, California, Dec. 1981.
29. Garfin, S.R.: Acute Secondary Orthopaedic Complications and Management in Head and Spinal Cord Injured Patients. Intensive Care and Innovative Rehabilitation for Neurological Trauma and Disease Course, sponsored by The Comprehensive Central Nervous System Injury Foundation, San Diego, CA, Dec. 1981.
30. Garfin, S.R.: The Good News About Backaches: The Latest in Prevention and Rehabilitation. University of California San Diego Medical Center's Auxiliary Lecture Day. Invited Lecture, San Diego, California, April, 1982.
31. Garfin, S.R.: Spine and Spinal Cord Trauma. Trauma Life Support Instructors Course, San Diego, California, June, 1982.
32. Garfin, S.R.: Electrical Stimulation of Bone Healing. Second Bi-Annual Symposium, sponsored by: The Bone & Joint Disease Foundation - Lower Extremity Trauma: Treatment, Complications and Controversies. San Diego, CA., October, 1982.
33. Garfin, S.R.: Snake Bites. Second Bi-Annual Symposium, sponsored by: The Bone & Joint Disease Foundation - Lower Extremity Trauma: Treatment, Complications, and Controversies. San Diego, CA., October, 1982.
34. Garfin, S.R.: Cervical Instability. The Spine Study Group. The Greenbrier, White Sulphur Springs, West Virginia. November, 1982.
35. Garfin, S.R.: Spondylolisthesis. The Spine Study Group. The Greenbrier, White Sulphur Springs, West Virginia. November, 1982.
36. Garfin, S.R.: Modern Management of Spinal Cord Injury. Recent Advances in Operative Neurosurgery, Critical Care, & Rehabilitation Seminar, sponsored by: The Central Nervous System Injury Foundation, November, 1982.
37. Mubarak, S., Garfin, S., Alazraki, and Taylor, A.: Effects of Diagnostic Aspiration on Bone Scintigraphy. Pediatric Orthopaedic Society Annual Meeting, Charlottesville, Virginia, May, 1983.
38. Garfin, S.R., Mowery, C., Guerra, J., and L. Marshall: Intraoperative and Postoperative Evaluations of the Spinal Canal Following Posterolateral Decompression of Thoracolumbar Burst Fractures. American Paraplegia Society, 29th Annual Meeting, Las Vegas, Nevada. August, 1983.
39. Garfin, S.R., Mowery, C.A., Guerra, J., and Marshall, L.F.: Confirmation of the Posterolateral Technique to Decompress and Fuse Thoracolumbar Spine Burst Fractures. Scoliosis Research Society, New Orleans, Louisiana, September, 1983.
40. Garfin, S. R.: The Vertebral Column: Clinical Aspects. The Biomechanics of Trauma, The Institute for Medical Education and Research, San Diego, October, 1983.
41. Garfin, S. R.: "Advances in Spinal Surgery." Presented at U.C.S.D. Department of Surgery Grand

Rounds, October 25, 1983.

42. Garfin, S.R. and Akeson, W.H.: "Low Back Pain - UCSD Approach." Mexican Association for the Study of Treatment of Pain. First International Course on Advances in Pain. Tijuana, Mexico, November, 1983.
43. Garfin, S.R.: "Low Back Pain." Meeting of National Rehabilitation Counselors, San Diego State University, November 28, 1983.
44. Garfin, S.R., Botte, M.J. and Centeno, R.: Osteology of the Skull as it Affects Halo Pin Placement. Cervical Spine Research Society, Palm Beach, Florida, December 7-10, 1983.
45. Garfin, S. R., Botte, M. J. Nickel, V. L. and Waters, R. J.: Complications Following the Application of Halo Skeletal Fixation Devices. Cervical Spine Research Society, Palm Beach, Florida, December 7-10, 1983.
46. Hargens, A.R., Gershuni, D.H., Mubarak, S.J., Garfin, S.R., Lian, G., Fronek, J., Yaru, N.C. and Akeson, W.H.: Differential diagnosis of chronic exertional leg pain. Orthopaedic Research Society, Atlanta, Georgia, February, 1984.
47. Botte, M., Garfin, S., Nickel, V., Waters, R., Akeson, W.: Complications Following the Application of Halo Skeletal Fixation Devices. Western Orthopaedic Association, Los Angeles Chapter, San Diego, California, March 17, 1984.
48. Garfin, S.R., Booth, R. E., Simeone, F.A. and Rothman, R. H.: Results of Spine Surgery for the Degenerative Disc. Spine Study Group. Snowmass, Colorado, March, 1984.
49. Garfin, S. R.: Common Orthopaedic Problems in Practice. Family Practice Refresher Course, Palm Springs, California, March, 1984.
50. Garfin, S. R.: Evaluation and Management of Low Back Pain. Family Practice Refresher Course, Palm Springs, California, March 30, 1984.
51. Mubarak, S.J., Garfin, S.R.: Compartment Syndromes. Physician's Journal Update. CME Accredited Program on National Cable Television. May, 1984.
52. Akeson, W.H., Amiel, D., Woo, S.L.-Y., and Garfin, S.R.: Immobilization Versus Continuous Passive Motion. Bristol Meyers - OREF Workshop on Fracture Repair, Conflicts and Consensus. New York City, May 8-16, 1984.
53. Bell, G., Garfin, S.R., Herkowitz, H.N., Booth, R. E., and Rothman, R.H.: A Study of Computer Assisted Tomography--Comparison of Metrizamide Myelography and Computed Tomography in the Diagnosis of Lumbar Disc Herniation and Spinal Stenosis. The International Society for the Study of the Lumbar Spine, Montreal, Canada, June, 1984.
54. Garfin, S. R.: Common Orthopaedic Problems in Practice. San Diego Academy of Family Practice. June, 1984.
55. Cuckler, J., Rothman, R. H., Booth, R. E., Garfin, S. R., Dalinskas, C.: Effect of Implanted Electrical Stimulators on Spine Fusions. North American Spine Association. Vail, Colorado, July, 1984.
56. Garfin, S. R.: Management of Spinal Injuries. U.C.S.D. Trauma Update, San Diego, California, August, 1984.

57. Garfin, S.R.: Halo Brace Application. National Association of Orthopaedic Technologists. San Diego, California, August, 1984.
58. Garfin, S. R.: Symposium on Rattlesnake Bites - Surgical and Medical Treatments. International Congress for Tropical Medicine and Malaria. By Invitation Calgary, Canada, September 1984.
59. Garfin, S. R. Invited discussion of paper: Duffner, D. W., Hurley, D. L., Montgomery, J. L., Brindley, H. H.: Hematogenous Pyogenic Vertebral Osteomyelitis: Analysis of 25 Cases. Western Orthopaedic Association Annual Meeting, San Diego, California, October 16, 1984.
60. Botte, M. J., Garfin, S. R., Nickel, V. L., and Waters, R. L.: Complications Following Application of The Halo Fixation Device. Western Orthopaedic Association, San Diego, California, October 16, 1984.
61. Garfin, S. R.: Spinal Stenosis - Update. Presented to Grand Rounds, Dept. of Orthopaedics and Rehabilitation. University of California, Irvine, October 24, 1984.
62. Garfin, S. R.: Surgical Management of Low Back Pain. Postgraduate Radiology Course, San Diego, California, October 27, 1984.
63. Garfin, S. R.: The Spine and Sports. C.M.E.A., San Diego, California, November, 1984.
64. Garfin, S. R.: Principles of Fracture Care. C.M.E.A., San Diego, California, November, 1984.
65. Garfin, S. R.: The Role of Electrical Stimulation in Bone Formation. Bone Grafting. San Diego, California, November 30, 1984.
66. Garfin, S. R.: Spinal Stenosis. Senior World magazine, December, 1984.
67. Garfin, S. R., Gelberman, R. H., Weise, M., Katz, M. M.: Lower Extremity Sensibility in Patients with Herniated Lumbar Discs. Orthopaedic Research Society. Las Vegas, Nevada, January, 1985.
68. Garfin, S.R., Botte, M. J., Waters, R., and Nickel, V. L.: Complications of Halo Cervical Immobilization. American Academy of Orthopaedic Surgeons. Las Vegas, Nevada, January, 1985.
69. Garfin, S. R., Booth, R. E., Tile, M., and Herkowitz, H.: Spinal Stenosis - Pathophysiology and Pathoanatomy. Instructional Course Invited, American Academy of Orthopaedic Surgeons. Las Vegas, Nevada, January, 1985.
70. Garfin, S. R.: Basics for a Better Back. UCSD Community Health Lecture Series, San Diego, California, February 21, 1985, and March 5, 1985.
71. Garfin, S. R.: Low Back Pain Algorithm. Conservative Management of Low Back Pain Seminar. Anaheim, California, March 2, 1985.
72. Garfin, S. R.: Algorithm. Conservative Management of Low Back Pain seminar. San Diego, California, March 9, 1985.
73. Garfin, S. R.: Common Orthopaedic Problems in Practice and Back Pain. Family Practice Refresher Course, Palm Springs, California, March 25-28, 1985.
74. Garfin, S. R.: Sports Injuries. Office Emergencies In Primary Care. San Diego, California, March 29-31, 1985.
75. Garfin, S. R.: Orthopaedic Emergencies. Office Emergencies in Primary Care. San Diego, California,

March 29-31, 1985.

76. Garfin, S. R.: Office Management of the Aching Back. CMEA Orthopaedics and Casting Procedures Workshop - 1985. San Francisco and Anaheim, California, May 2-6, 1985.
77. Kurz, L.T., Harlow, S.J., Katz, M.M., and Garfin, S.R.: Effectiveness of a Nurse Practitioner in Screening Patients in a Spinal Disorders Clinic. North American Lumbar Spine Association, Second Annual Meeting, Laguna Niguel, California, July 24-27, 1985.
78. Garfin, S.R.: Indications for Laminectomy. Invited participant for Symposium on Lumbar Laminectomy, North American Lumbar Spine Association, Second Annual Meeting, Laguna Niguel, California, July 24-27, 1985.
79. Garfin, S.R.: Spinal Cord Injury. UCSD Fifth Annual Clinical Neuroanesthesia Conference, "The Trauma Patient". San Diego, California, August 10, 1985.
80. Garfin, S.R.; Lee, T.Q.; Roux, R.D.; Silva, F.W.; Botte, M.J.; Katz, M.M.; and Woo, S.L-Y.: Biomechanical Characterization of the Pin-bone Interface for Halo Cervical Spine Fixation. Western Orthopaedic Association. Houston, Texas, October 8, 1985.
81. Garfin, S.R.: The Spine and Sports. Sports Medicine and Outpatient Orthopedics for the Primary Care Physician. San Diego, California, November 3, 1985.
82. Garfin, S.R.: Principles of Fracture Care. Sports Medicine and Outpatient Orthopedics for the Primary Care Physician. San Diego, California, November 3, 1985.
83. Garfin, S.R.: Early Management: An Orthopedist's Perspective. Audio-Digest Emergency Medicine 2(21), The Many Facets of Managing Spinal Trauma, November 4, 1985.
84. Garfin, S.R.: Spinal Stenosis-Pathomechanics and Pathophysiology. XII Symposium Internacional de Traumatologia MAPFRE. Madrid, Spain, November 21, 1985.
85. Garfin, S.R.: The intervertebral disc. The natural history of degenerative changes and low back pain. XII Symposium Internacional de Traumatologia MAPFRE. Madrid, Spain, November 21, 1985.
86. Garfin, S.R.: Comparison of CT scans and myelography in the evaluation of patients with herniated lumbar disc. XII Symposium Internacional de Traumatologia MAPFRE. Madrid, Spain, November 23, 1985.
87. Garfin, S.R.: Spondylolisthesis: Modern Treatment Alternatives. Surgery of the Adult Spine and Hip. Philadelphia, Pennsylvania, December 2, 1985.
88. Garfin, S.R.: Indications and Techniques for Cervical Fusion. Surgery of the Adult Spine and Hip. Philadelphia, Pennsylvania, December 3, 1985.
89. Garfin, S.R.; Roux, R.D.; Lee, T.Q.; Silva, F.W.; Botte, M.J.; Ballock, T.; and Woo, S.L-Y.: Biomechanical Evaluation of Halo Fixation Pins. Cervical Spine Research Society. Cambridge, Massachusetts, December 5, 1985.
90. Garfin, S.R.: An Algorithm for Planning Treatment of Low Back Disorders. Neuroradiology and Magnetic Resonance Course. San Diego, California, March 4, 1986.
91. Garfin, S.R.: Common Orthopedic Problems. Family Practice Refresher Course. Palm Springs, California, March 11, 1986.

92. Garfin, S.R.: Evaluation and Management of Low Back Pain. Family Practice Refresher Course. Palm Springs, California, March 11, 1986.
93. Garfin, S.R.: Bone Radiology Workshop. Family Practice Refresher Course. Palm Springs, California, March 11, 1986.
94. Garfin, S.R.: Orthopedic Emergencies. Sharp Memorial Hospital: Office Emergencies in Primary Care. San Diego, California, March 14, 1986.
95. Garfin, S.R.: Sports Injuries. Sharp Memorial Hospital: Office Emergencies in Primary Care. San Diego, California, March 14, 1986.
96. Kurz, L.T., Garfin, S.R., Bjorkengren, A.G., Resnick, D.: Intraspinial Synovial Cysts: Radiologic Documentation of Their Facet Communication. International Society for the Study of the Lumbar Spine. Dallas, TX, May 29, 1986.
97. Garfin, S.R.: Back Pain: Myth, Folklore, Science. School of Medicine Associates. San Diego, CA, June 10, 1986.
98. Garfin, S.R.: Low Back Pain. 30th Annual Postgraduate Symposium, Family Medicine Update. San Diego, CA, June 13-15, 1986.
99. Marshall, L.F. and Garfin, S.R.: Spinal Cord Injury. Presented on Lifetime TV. Specialty Update: Surgery. June 18, 1986.
100. Kurz, L.T., Garfin, S.R., Bjorkengren, A.G., Resnick, D.: Intra-spinal Synovial Cysts: Radiologic Documentation of Their Facet Communication. North American Spine Society. Bolton Landing, NY, July 22, 1986.
101. Garfin, S.R. (Program Chairman): Halo Complications. Cervical Spine Symposium. San Diego, CA, September 23, 1986.
102. Garfin, S.R. (Program Chairman): Halo Application Techniques. Cervical Spine Symposium. San Diego, CA, September 23, 1986.
103. Garfin, S.R.: Office Management of the Aching Back. Practical Orthopedics for the Primary Care/Emergency Physician. San Diego, CA, September 27-28, 1986.
104. Garfin, S.R.: Workshop C - Presentation and Discussion of Everyday Orthopedic Problems. Practical Orthopedics for the Primary Care/Emergency Physician. San Diego, CA, September 27-28, 1986.
105. Garfin, S.R.: Back Pain - Myths, Folklore and Science. Institute For Continued Learning. La Jolla, CA, October 10, 1986.
106. Garfin, S.R. and Evans, B: Back Pain: Something Can Be Done About It. Scoliosis Association of San Diego. San Diego, CA, October 20, 1986.
107. Garfin, S.R.: Low Back Pain: An Orthopedic Surgeon's Perspective. Audio-Digest Family Practice 34(40), The Patient in Pain, October 27, 1986.
108. Garfin, S., Levine, A., White, J., Edwards, C.: Spinal Fixation Study Group Workshop #2 on Modular Lumbosacral Fixation. Baltimore, Maryland, November 4, 1986.

109. Garfin, S.R.: Back Pain: Pearls for the Primary Care Physician. Office Orthopaedic Conference, Coronado, CA, November 15, 1986.
110. Garfin, S.R.: "Whiplash" and Other Pains in the Neck. Office Orthopaedic Conference, Coronado, CA, November 15, 1986.
111. Garfin, S.R.: Spinal Cord Injury From the Roadside to the Rehabilitation Center. Operative and Critical Care for Neurological Trauma and Disease, San Diego, CA, November 16, 1986.
112. Garfin, S.R.: Techniques for Direct Decompression. Advances in Orthopedic Traumatology. The Orthopedic Trauma Association, Second National Symposium Workshop, San Francisco, CA, November 20, 1986.
113. Bjorkengren, A.G., Resnick, D., Kurz, L.T., Garfin, S.R., and Sartoris, D.J.: Symptomatic Intraspinial Synovial Cysts - Opacification and Treatment by Percutaneous Injection. 72nd Scientific Assembly of The Radiological Society of North America, November 30 - December 5, 1986.
114. Triggs, K., Ballock, R.T., Byrne, T., Georgis, T., Woo, S.Y., Garfin, S.R.: Cervical Spine Immobilization in Various Length Halo Jackets. Cervical Spine Research Society, West Palm Beach, Florida, December 12, 1986.
115. Ballock, R.T., Hajak, P., Byrne, T.P., Lee, T.Q., Woo, S., Garfin, S.R.: Magnetic Resonance Imaging of the Cervical Spine in Subjects Immobilized in a Halo Orthosis. Cervical Spine Research Society, West Palm Beach, Florida, December 12, 1986.
116. Olmarker, K., Rydevik, B., Holm, S., Bagge, U., Hargens, A., Garfin, S., Glover, M., Moore, M., Swenson, M.: Graded Compression of the Porcine Cauda Equina Modifies Nerve Root Nutrition, Blood Flow and Impulse Conduction. Orthopaedic Research Society, 33rd Annual Meeting, San Francisco, CA, January, 1987.
117. Discussion (Invited) of paper: LaRocca, S.H., April, C., Dwyer, A.P, Bernard, T.N., Broussard, T.S.: Extradural Sensory Rhizotomy in the Management of Chronic Lumbar Spondylosis with Radiculopathy. Federation of Spine Associations, Second Annual Meeting, San Francisco, CA, January 21, 1987.
118. Garfin, S.R.: The Aching Back. American Academy of Orthopaedic Surgeons Continuing Education Courses for Nurses. Orthopaedic Nursing Update, San Francisco, CA, January 24, 1987.
119. Garfin, S.R.: The Effectiveness of Nurse Practitioner Screening. American Academy of Orthopaedic Surgeons Continuing Education Courses for Nurses. Orthopaedic Nursing Update, San Francisco, CA, January 24, 1987.
120. Garfin, S.R.: (Instructor) The Scoliosis Construct and Workshop - L1-S Model. Spinal Fixation Study Group Workshop #3 on Spinal Instrumentation, Baltimore, Maryland, February 21, 1987.
121. Garfin, S.R.: Spinal Trauma. CMA's 1987 Annual Session and Western Scientific Assembly. Anaheim, California, March 7, 1987.
122. Garfin, S.R.: Sports Injuries. Office Emergencies in Primary Care. Sharp Memorial Hospital. San Diego, California, March 13, 1987.
123. Garfin, S.R.: Orthopedic Emergencies. Office Emergencies in Primary Care. Sharp Memorial Hospital. San Diego, California, March 13, 1987.
124. Garfin, S.R.: Spinal Cord Injury in Three Regions in the United States. Thirteenth Annual Scientific

Meeting, American Spinal Injury Association, Boston, Massachusetts, March 20-22, 1987.

125. Garfin, S.R.: The Rheumatoid Cervical Spine: Implications for the Rehabilitation Team. Arthritis Update '87: The Team Approach. Sharp Memorial Hospital and Rehabilitation Center and the Arthritis Foundation, San Diego Chapter, San Diego, California, May 12, 1987.
126. Garfin, S.R.: Low Back Pain: Evaluation and Management. Arthritis Update '87: The Team Approach. Sharp Memorial Hospital and Rehabilitation Center and the Arthritis Foundation, San Diego Chapter, San Diego, California, May 12, 1987.
127. Garfin, S.R.: Indications and Techniques of In-situ Fusion and Reduction for Spondylolisthesis. The Spine: Advanced Concepts of Diagnosis and Treatment. The Spine Study Group 5th Symposium, Charleston, South Carolina, May 15-18, 1987.
128. Garfin, S.R. (Moderator): Adult Spinal Deformity. The Spine: Advanced Concepts of Diagnosis and Treatment. The Spine Study Group 5th Symposium, Charleston, South Carolina, May 15-18, 1987.
129. Garfin, S.R.: Halo Brace: Indications and Design Update. The Spine: Advanced Concepts of Diagnosis and Treatment. The Spine Study Group 5th Symposium, Charleston, South Carolina, May 15-18, 1987.
130. Garfin, S.R.: Unstable Thoracolumbar and Lumbar Fractures. The Spine: Advanced Concepts of Diagnosis and Treatment. The Spine Study Group 5th Symposium, Charleston, South Carolina, May 15-18, 1987.
131. Garfin, S.R.: Natural History of Low Back Pain and Treatment Aspects. Hawaii Shorthand Reporters Association. Honolulu, Hawaii, May 30-31, 1987.
132. Atkinson, J.H., Ancoli-Israel, S., Slater, M.A., Garfin, S.R., Gillin, J.C.: Subjective Sleep Disturbance in Chronic Low Back Pain. Fifth International Congress of Sleep Research. Copenhagen, Denmark, June 29-July 3, 1987.
133. Garfin, S.R.: Low Back Pain in the Athlete. University of California, San Diego, School of Medicine's Sports Medicine Update: A Practical Approach to Caring for Today's Athlete. San Diego, California, July 28, 1987.
134. Garfin, S.R.: Overview of Fractures/Dislocations. University of California, San Diego, School of Medicine's Sports Medicine Update: A Practical Approach to Caring for Today's Athlete. San Diego, California, July 28, 1987.
135. Garfin, S.R.: Wilderness Management of Common Orthopedic Problems. UCSD's 3rd Annual Wilderness Medicine Conference. Snowmass, Colorado, August 23-28, 1987.
136. Lavernia, C.J., Sartoris, D., Resnick, D., Reindel, E., Hellis, J.M., Garfin, S.R., Lanbiasi, R., Woo, S.L-Y., and Convery, F.R.: Assessment of Fracture Risk in Osteoporosis with Quantitative Computed Tomography - A Biomechanical Correlation. Western Orthopaedic Association Meeting. Colorado Springs, Colorado, October 3-7, 1987.
137. Garfin, S.R.: Pain Interpretation. The Challenge of the Lumbar Spine. New York, New York, October 7-10, 1987.
138. Garfin, S.R.: Disc Excision. The Challenge of the Lumbar Spine. New York, New York, October 7-10, 1987.

139. Garfin, S.R.: Back Pain: Pearls for the Primary Care Physician. Office Orthopedics for the Primary Care Physician. San Diego, California, October 16-18, 1987.
140. Garfin, S.R.: "Whiplash" & Other Pains in the Neck. Office Orthopedics for the Primary Care Physician. San Diego, California, October 16-18, 1987.
141. Harlow, S., Garfin, S.R., and Holmes, D.B.: New Methods to Measure Today's Disabilities Through Functional Capacity Assessment: What Does It Mean? Workers' Compensation Forum. La Jolla, California, October 30, 1987.
142. Garfin, S.R.: Cervical Instability; Anterior Surgery and Complications of Cervical Disc Disease. Pennsylvania Orthopaedic Society Fall Meeting. Philadelphia, Pennsylvania, November 5-7, 1987.
143. Garfin, S.R.: Spondylolisthesis. Pennsylvania Orthopaedic Society Fall Meeting. Philadelphia, Pennsylvania, November 5-7, 1987.
144. Garfin, S.R.: Radiology of the Lumbar Spine. Pennsylvania Orthopaedic Society Fall Meeting. Philadelphia, Pennsylvania, November 5-7, 1987.
145. Slater, M.A., Atkinson, J.H., Grant, I., Ingram, R.E., Garfin, S.R.: Pain and Impairment Beliefs in Chronic Low Back Pain. 21st Annual Meeting of the American Association of Behavioral Therapy. Boston, Massachusetts, November 9-12, 1987.
146. Ingram, R.E., Atkinson, J.H., Slater, M.A., Garfin, S.R., Saccuzzo, D.P.: Negative Cognitive Distortion and Automatic Thinking in Chronic Pain and Depression. 21st Annual Meeting of the American Association of Behavioral Therapy. Boston, Massachusetts, November 9-12, 1987.
147. Grant, I., Atkinson, J.H., Slater, M.A., Garfin, S.R.: Stressful Life Events in Chronic Low Back Pain. 35th Annual Meeting of the Academy of Psychosomatic Medicine. Las Vegas, Nevada, November 12-15, 1987.
148. Atkinson, J.H., Slater, M.A., Grant, I., Garfin, S.R.: Affective Illness in Chronic Low Back Pain: A Revisit. 35th Annual Meeting of the Academy of Psychosomatic Medicine. Las Vegas, Nevada, November 12-15, 1987.
149. Slater, M.A., Atkinson, J.H., Garfin, S.R.: Behavioral Factors in Chronic Low Back Pain: Depression, Cognition, and Impairment in a General Orthopedic Clinic. First International Conference on Biobehavioral Self-Regulation and Health. Honolulu, Hawaii, November 18-20, 1987.
150. Garfin, S.R.: AAOS Instructional Course "Low Back Pain II: Spinal Stenosis." American Academy of Orthopaedic Surgeons, 55th Annual Meeting. Atlanta, Georgia, February 4-9, 1988.
151. Garfin, S.R., Roberts, W., White, A.: AAOS Instructional Course "The Cervical Spine II: Diagnosis and Treatment of Neck, Shoulder and Arm Pain." American Academy of Orthopaedic Surgeons, 55th Annual Meeting. Atlanta, Georgia, February 4-9, 1988.
152. Pedowitz, R.A., Rydevik, B.L., Garfin, S.R., Hargens, A.R., Swenson, M.R., Myers, R.R.: Neurophysiologic and Histologic Changes Associated With Acute, Graded Compression of the Pig Cauda Equina. American Orthopaedic Association 1988 Resident's Conference. Boston, Massachusetts, March 16-19, 1988.
153. Atkinson, J.H., Slater, M.A., Grant, I., Garfin, S.R.: Chronic Back Pain and Lifetime Psychiatric Disorder: A Controlled Study. 45th Annual Meeting of the American Psychosomatic Society. Toronto, Canada, March 24-27, 1988.

154. Atkinson, J.H., Slater, M.A., Grant, I., Patterson, T.L., Garfin, S.R.: Depression and Stressful Life Events in Chronic Back Pain. 45th Annual Meeting of the American Psychosomatic Society. Toronto, Canada, March 24-27, 1988.
155. Kwan, M., Rydevik, B., Brown, R., Triggs, K., Myers, R., Woo, S., Garfin, S.: Selected Biomechanical Assessment of Lumbosacral Spinal Nerve Roots. The International Society For the Study of the Lumbar Spine Meeting. Miami, Florida, April 13-17, 1988.
156. Pedowitz, R.A., Rydevik, B.L., Hargens, A.R., Swenson, M.R., Myers, R.R., Garfin, S.R.: Neurophysiologic and Histologic Changes Induced by Acute, Graded Compression of the Pig Cauda Equina. The International Society For the Study of the Lumbar Spine Meeting. Miami, Florida, April 13-17, 1988.
157. Rydevik, B., Kwan, M., Brown, R., Triggs, K., Myers, R., Woo, S., Garfin, S.: Biomechanical Properties of Human Lumbosacral Spinal Nerves. Biomechanics Seminar, Chalmers University of Technology and University of Gothenburg, Sweden. Gothenburg, Sweden, April 22, 1988.
158. Rydevik, B., Kwan, M., Myers, R., Garfin, S., Triggs, K., Woo, S.: Effects of Stretching on Rabbit Tibial Nerve. Biomechanics Seminar, Chalmers University of Technology and University of Gothenburg, Sweden. Gothenburg, Sweden, April 22, 1988.
159. Slater, M.A., Atkinson, J.H., Grant, I., Patterson, T.L., Garfin, S.R.: Life Events, Stress, and Depression in Chronic Back Pain. 9th Annual Meeting of the Society of Behavioral Medicine. Boston, Massachusetts, April 27-30, 1988.
160. Wall, E.J., Drummond, J.C., Garfin, S.R.: Ischemic Paraplegia in an Awake Animal Model. American Spinal Injury Association 14th Annual Scientific Meeting. San Diego, California, May 2-4, 1988.
161. Garfin, S.R.: Current Concepts Regarding Internal Fixation For Degenerative Disorders of the Lumbar Spine. Western Orthopaedic Association First Annual Spring Retreat. San Diego, California, May 21, 1988.
162. Garfin, S.R.: Adult Cervical Spine. West Coast Orthopaedic Review Course. Santa Monica, California, May 22, 1988.
163. Garfin, S.R.: Orthopedics: How Long Will They Be Disabled? National Association of Disability Examiners 1988 Pacific Region Training Conference. San Diego, California, June 3, 1988.
164. Olmarker, K., Rydevik, B., Holm, S., Pedowitz, R.A., Garfin, S.R., Hargens, A.R.: Neurophysiologic and Microvascular Changes in Spinal Nerve Roots of the Pig Cauda Equina Induced by Experimental, Graded Compression. Scandinavian Orthopaedic Association. Denmark, June 1988.
165. Garfin, S.R., Rydevik, B.L., Pedowitz, R.A., Olmarker, K., Massie, J., Hargens, A.R., Swenson, M.R., Myers, R.R.: Acute, Graded Compression of the Pig Cauda Equina Causes Neurophysiologic, Histologic, and Microvascular Changes. North American Spine Society Third Annual Meeting. Colorado Springs, Colorado, July 24-27, 1988.
166. Garfin, S.R.: Wilderness Management of Common Orthopaedic Problems. Fourth Annual Wilderness Medicine. Snowmass, Colorado, August 14-19, 1988.
167. Levine, A., Garfin, S., McCutcheon, M., Edwards, C.: The Operative Treatment of L4 and L5 Burst Fractures. Orthopaedic Trauma Association Annual Meeting. Dallas, Texas, October 27-29, 1988.

168. Slater, M.A., Weickgenant, A.L., Atkinson, J.H., Patterson, T.L., Grant, I., Garfin, S.R.: Coping Strategies and Depression in Chronic Low Back Pain. Canadian and American Pain Societies Joint Meeting. Toronto, Canada, November 10-13, 1988.
169. Atkinson, H., Slater, M., Grant, I., Garfin, S.: Chronic Pain and Psychiatric Disorder: A Controlled Study. Canadian and American Pain Societies Joint Meeting. Toronto, Canada, November 10-13, 1988.
170. Lavernia, C.J., Bhasin, S., Sartoris, D., Resnick, D., Reindel, E., Hollis, M.J., Garfin, S., Lambiasi, R., Woo, S.L.-Y., Convery, F.R.: Assessment of Fracture Risk in Osteoporosis With Quantitative Computer Tomography - A Biomechanical Correlation. Western Orthopaedic Association 51st Annual Meeting. Colorado Springs, Colorado, October, 1987.
171. Garfin, S.R.: Results and Complications of Discectomy For Lumbar Disc Herniation. The Spine Study Group. Spine: Current Concepts of Diagnosis and Treatment 6th Symposium. Palm Springs, California, November 10-14, 1988.
172. Garfin, S.R.: Session III--Lumbar Disc Disease (Moderator). The Spine Study Group. Spine: Current Concepts of Diagnosis and Treatment 6th Symposium. Palm Springs, California, November 10-14, 1988.
173. Edwards, C., Kraus, D.R., Garfin, S.R., LaRocca, H.: Panel Discussion: Internal Fixation For Lumbar Instability. The Spine Study Group. Spine: Current Concepts of Diagnosis and Treatment 6th Symposium. Palm Springs, California, November 10-14, 1988.
174. Garfin, S.R.: Spondylolisthesis. The Spine Study Group. Spine: Current Concepts of Diagnosis and Treatment 6th Symposium. Palm Springs, California, November 10-14, 1988.
175. Garfin, S.R.: Posterior Instrumentation For Thoraco-Lumbar Fractures: Theoretical and Technical Considerations. The Spine Study Group. Spine: Current Concepts of Diagnosis and Treatment 6th Symposium. Palm Springs, California, November 10-14, 1988.
176. Slater, M.A., Weickgenant, A.L., Atkinson, J.H., Patterson, T.L., Grant, I., and Garfin, S.R.: Coping Strategies and Depression in Chronic Low Back Pain. Annual Meeting of the Academy of Psychosomatic Medicine. New Orleans, Louisiana, November, 1988.
177. Garfin, S.R., Mubarak, S.J., Camp, J.F., and Wenger, D.R.: Halo Application in the Child Under Two. Cervical Spine Research Society Sixteenth Annual Meeting. Key Biscayne, Florida, Nov. 30 - Dec. 3, 1988.
178. Brown, R.A., Pedowitz, R.A., Kwan, M.K., Rydevik, B.L., Lee, S.U., Massie, J., Woo, S.L.-Y., Hargens, A.R., Garfin, S.R.: The Effects of Acute Stretch Upon Conduction Properties in the Rabbit Tibial Nerve. 35th Annual Meeting of the Orthopaedic Research Society. Las Vegas, Nevada, February 6-9, 1989.
179. Pedowitz, R.A., Gershuni, D.H., Rydevik, B.L., Garfin, S.R., Schmidt, A.H., Petras, S.L., Tangen, T., Hargens, A.R.: A Ten Minute Re-Perfusion Interval May Increase Skeletal Muscle Injury During Extended Application of the Pneumatic Tourniquet. 35th Annual Meeting of the Orthopaedic Research Society. Las Vegas, Nevada, February 6-9, 1989.
180. Pedowitz, R.A., Rydevik, B.L., Hargens, A.R., Swenson, M.R., Massie, J., Lee, S., Myers, R.R., Garfin, S.R.: The Effects of Magnitude and Duration of Acute Compression Upon Impulse Conduction in the Pig Cauda Equina: Differential Recovery of Sensory and Motor Nerve Roots. 35th Annual Meeting of the Orthopaedic Research Society. Las Vegas, Nevada, February 6-9, 1989.

181. Brown, M.D., Garfin, S.R.: Low Back Pain III: Surgery. Instructional Course No. 318. American Academy of Orthopaedic Surgeons 56th Annual Meeting. Las Vegas, Nevada, February 9-14, 1989.
182. Clark, C.R., Garfin, S.R.: The Cervical Spine IV: Evaluation and Management of Neck-Shoulder Arm Pain. Instructional Course No. 420. American Academy of Orthopaedic Surgeons 56th Annual Meeting. Las Vegas, Nevada, February 9-14, 1989.
183. Garfin, S.R.: Posterolateral Decompression: Role and Techniques. Advances in Trauma Management, AAOS Specialty Day Symposium. Orthopaedic Trauma Association, February 1989.
184. Pedowitz, R.A., Rydevik, B.L., Swenson, M.R., Hargens, A.R., Massie, J., Myers, R.R., Garfin, S.R.: Differential Recovery of Motor and Sensory Nerve Root Conduction Following 2 or 4 Hours of Graded Compression of the Pig Cauda Equina. The International Society for the Study of the Lumbar Spine, Scientific Program. Kyoto, Japan, May 15-19, 1989.
185. Wall, E.J., Cohen, M.S., Massie, J.M., Rydevik, B., Garfin, S.R.: Cauda Equina Anatomy: Intrathecal and Extrathecal Nerve Root Organization. The International Society for the Study of the Lumbar Spine, Scientific Program. Kyoto, Japan, May 15-19, 1989.
186. Pedowitz, R.A., Rydevik, B.L., Swenson, M.R., Hargens, A.R., Massie, J.M., Garfin, S.R.: Graded Compression of the Pig Cauda Equina: Differential Recovery of Efferent and Afferent Spinal Nerve Root Conduction. North American Spine Society, Fourth Annual Meeting. Quebec City, Canada, June 29-July 2, 1989.
187. Wall, E.J., Cohen, M.S., Massie, J.M., Rydevik, B.L., Garfin, S.R.: Cauda Equina Anatomy: Intrathecal Nerve Root Organization. North American Spine Society, Fourth Annual Meeting. Quebec City, Canada, June 29-July 2, 1989.
188. Cohen, M.S., Wall, E.J., Brown, R.B., Rydevik, B.L., Garfin, S.R.: Cauda Equina Anatomy: Extrathecal Nerve Roots and Dorsal Root Ganglia. North American Spine Society, Fourth Annual Meeting. Quebec City, Canada, June 29-July 2, 1989.
189. Garfin, S.R.: Low Back Pain in the Athlete. UCSD's Third Annual Sports Medicine 1989 Conference: A Practical Approach to Caring for Today's Athlete. San Diego, California, July 24-28, 1989.
190. Garfin, S.R.: Orthopaedic Examination of the Back and Neck: Case Discussion of Common Athletic Injuries. UCSD's Third Annual Sports Medicine 1989 Conference: A Practical Approach to Caring for Today's Athlete. San Diego, California, July 24-28, 1989.
191. Garfin, S.R.: Wilderness Management of Common Orthopaedic Problems. UCSD's Fifth Annual Wilderness Medicine Conference. Snowmass, Colorado, August 13-18, 1989.
192. Garfin, S.R.: Low Back Pain and Lumbar Radiculopathies: A Common Sense Approach. UCSD's New Advances in Common Neurologic Disorders Conference. San Diego, California, September 7-9, 1989.
193. Garfin, S.R.: Evaluation of the Low Back Pain Patient--An Algorithm Approach. Alvarado Hospital, Department of Family Practice, Continuing Medical Education Program. San Diego, California, September 19, 1989.
194. Garfin, S.R.: Nerve Root Compression. UC Irvine, Department of Neurology's Tenth Annual Occupational Low Back Pain Conference. Long Beach, California, October 18-21, 1989.
195. Garfin, S.R.: Algorithmic Approach to the Failed Back. Annual Meeting of the American Academy of

Pain Medicine. Dallas, Texas, November 3-4, 1989.

196. Heller, J.G., Alson, M.D., Schaffler, M.B., Brahme, S.K., Miller, C.W., Garfin, S.R.: Quantitative Dens Morphology. Cervical Spine Research Society Seventeenth Annual Meeting. New Orleans, Louisiana, December 5-8, 1989.
197. Heller, J.G., Carlson, J.D., Abitbol, J.J., Garfin, S.R.: Anatomical Comparison of the Roy-Camille and Mageral Techniques for Screw Fixation. Cervical Spine Research Society Seventh Annual Meeting. New Orleans, Louisiana, December 5-8, 1989. (Award for Outstanding Cervical Spine Research)
198. Garfin, S.R.: Electrical Stimulators. Bay Area Spine Surgeons Association Meeting. San Francisco, California, January 9, 1990.
199. Garfin, S.R.: Back Disorders in the Elderly. Strategies for Treating the Five Major Causes of Death and Disability in the '90's. San Diego, California, February 18-21, 1990.
200. Garfin, S.R.: Degenerative Cervical Spine Disease. AAOS Comprehensive Review Course for Orthopaedic Surgeons. Chicago, Illinois, March 25-30, 1990.
201. Garfin, S.R.: Degenerative Lumbar Spine Disease. AAOS Comprehensive Review Course for Orthopaedic Surgeons. Chicago, Illinois, March 25-30, 1990.
202. Garfin, S.R.: Spinal Stenosis. The Spine Study Group 7th Symposium: Current Concepts of Diagnosis and Treatment. Orlando, Florida, April 27-30, 1990.
203. Garfin, S.R.: Spondylolisthesis: An Overview. The Spine Study Group 7th Symposium: Current Concepts of Diagnosis and Treatment. Orlando, Florida, April 27-30, 1990.
204. Garfin, S.R.: Posterior Instrumentation for Thoraco-Lumbar Fractures: Theoretical and Technical Considerations. The Spine Study Group 7th Symposium: Current Concepts of Diagnosis and Treatment. Orlando, Florida, April 27-30, 1990.
205. Abitbol, J.J., Cohen, M.S., Wall, E.J., Kerber, C.W., Garfin, S.R.: Intrathecal Anatomy of the Conus Medullaris and Cauda Equina: Correlation of MR, CT and Anatomic Dissection. The Canadian Orthopaedic Association 45th Annual Meeting/The Canadian Orthopaedic Research Society 24th Annual Meeting. Vancouver, British Columbia, June 3-7, 1990.
206. Garfin, S.R., Cohen, M.S., Wall, E.J., Abitbol, J.J.: Intrathecal Nerve Root Anatomy of the Conus Medullaris and Cauda Equina. The American Orthopaedic Association 103rd Annual Meeting. Boston, Massachusetts, June 10-14, 1990.
207. Cohen, M.S., Wall, E.J., Kerber, C.W., Abitbol, J.J., Garfin, S.R.: Computerized Tomographic and Magnetic Resonance Imaging of Intrathecal Cauda Equina Nerve Roots. The International Society For the Study of the Lumbar Spine. Boston, Massachusetts, June 13-17, 1990.
208. Abitbol, J.J., Mirkovic, S., Steinmann, J., Edwards, C.C., Schaffler, M., Garfin, S.R.: Anatomic Considerations for Sacral Screw Placement. The International Society For the Study of the Lumbar Spine. Boston, Massachusetts, June 13-17, 1990.
209. Wall, E.J., Cohen, M.S., Abitbol, J.J., Garfin, S.R.: Intrathecal Nerve Root Organization at the Level of the Conus Medullaris. The International Society For the Study of the Lumbar Spine. Boston, Massachusetts, June 13-17, 1990.
210. Garfin, S.R., Cohen, M.S., Massie, J.B., Abitbol, J.J., Swenson, M.R., Myers, R.R., Rydevik, B.L.: The

Effect of Hypotension and Acute Graded Compression on Cauda Equina Nerve Root Function. The International Society For the Study of the Lumbar Spine. Boston, Massachusetts, June 13-17, 1990.

211. Garfin, S.R.: The Painful Back. Sharp Memorial Hospital's Rheumatology and Arthritis: A Conference for Primary Care Physicians. San Diego, California, July 19-21, 1990.
212. Wall, E.J., Cohen, M.S., Abitbol, J.J., Garfin, S.R.: Intrathecal Nerve Root Organization at the Level of the Conus Medullaris. North American Spine Society Fifth Annual Meeting. Monterey, California, August 8-11, 1990.
213. Garfin, S.R., Cohen, M.S., Massie, J.B., Abitbol, J.J., Swenson, M.R., Myers, R.R., Rydevik, B.L.: The Effect of Hypotension and Acute Graded Compression on Cauda Equina Nerve Root Function. North American Spine Society Fifth Annual Meeting. Monterey, California, August 8-11, 1990.
214. Cohen, M.S., Wall, E.J., Kerber, C.W., Abitbol, J.J., Garfin, S.R.: Computerized Tomographic and Magnetic Resonance Imaging of Intrathecal Cauda Equina Nerve Roots. North American Spine Society Fifth Annual Meeting. Monterey, California, August 8-11, 1990.
215. Albert, T.J., Balderston, R.A., Herkowitz, H.H., Garfin, S.R.: Upper Lumbar Disc Herniations. North American Spine Society Fifth Annual Meeting. Monterey, California, August 8-11, 1990.
216. Heller, J.G., Carlson, G.D., Abitbol, J.J., Garfin, S.R.: Anatomical Comparison of the Roy-Camille and Magerl Techniques for Screw Fixation of the Lower Cervical Spine. 36th Annual Conference of the American Paraplegia Society. Las Vegas, Nevada, September 4-6, 1990.
217. Heller, J.G., Alson, M.D., Schaffler, M.B., Brahme, S.K., Miller, C.W., Garfin, S.R.: Quantitative Dens Morphology. 36th Annual Conference of the American Paraplegia Society. Las Vegas, Nevada, September 4-6, 1990.
218. Garfin, S.R.: Facet Arthropathy. AAOS Summer Institute #102 Lumbar Spine Surgery: Current Concepts. Monterey, California, September 8-9, 1990.
219. Garfin, S.R.: Electrical Stimulation in Spinal Arthrodesis. AAOS Summer Institute #102 Lumbar Spine Surgery: Current Concepts. Monterey, California, September 8-9, 1990.
220. Abitbol, J.J., Mirkovic, S., Steinmann, J., Edwards, C.C., Garfin, S.R.: Anatomic Considerations for Sacral Screw Placement. Scoliosis Research Society 25th Annual Meeting. Honolulu, Hawaii, September 23-24, 1990.
221. Abitbol, J.J., Wall, E.J., Cohen, M.S., Garfin, S.R.: Intrathecal Nerve Root Organization at the Level of the Conus Medullaris. Scoliosis Research Society 25th Annual Meeting. Honolulu, Hawaii, September 23-24, 1990.
222. Garfin, S.R.: Spondylolisthesis: To Reduce or Not to Reduce? UCSD's Orthopaedic Update: Current Concepts and Advances. San Diego, California, October 4-6, 1990.
223. Garfin, S.R.: Late Treatment of Spinal Deformity. American Academy of Orthopaedic Surgeons Course #391, Evaluation and Treatment of Spinal Trauma. Long Beach, California, October 6, 1990.
224. Garfin, S.R.: Halos and Other Spinal Orthoses. American Academy of Orthopaedic Surgeons Course #391, Evaluation and Treatment of Spinal Trauma. Long Beach, California, October 6, 1990.
225. Garfin, S. R.: Posterior Treatment of Thoracic and Lumbar Spine Fractures. American Academy of Orthopaedic Surgeons Course #391, Evaluation and Treatment of Spinal Trauma. Long Beach,

California, October 6, 1990.

226. Garfin, S.R.: Lumbar Surgical Care: Do We Treat Athletes and Workers Differently? PRIDE's New Frontiers For the Industrial Spine: Sports Medicine for Working People. Dallas, Texas, October 11-13, 1990.
227. Mirkovic, S., Abitbol, J.J., Edwards, C., Garfin, S.R.: Anatomic Considerations for Sacral Screw Placement. Western Orthopaedic Association 54th Annual Meeting. San Antonio, Texas, October 14-18, 1990.
228. Ballock, R., Abitbol, J.J., Garfin, S.: Can Burst Fractures Be Predicted From Plain Radiographs? Annual Meeting of the Orthopaedic Trauma Association. Toronto, Ontario, Canada, November 7-10, 1990.
229. Carlson, G., Heller, J., Abitbol, J.J., and Garfin, S.: Anatomical Comparison of the Roy-Camille and Magerl Techniques for Screw Fixation of the Lower Cervical Spine. Annual Meeting of the Orthopaedic Trauma Association. Toronto, Ontario, Canada, November 7-10, 1990.
230. Garfin, S.R.: Segmental Instability. AAOS Issues in Spinal Diseases--1990. Cambridge, Massachusetts, November 15-17, 1990.
231. Garfin, S.R.: Spondylolisthesis. AAOS Issues in Spinal Diseases--1990. Cambridge, Massachusetts, November 15-17, 1990.
232. Garfin, S.R.: Thoracolumbar and Lumbar Spine. AAOS Issues in Spinal Diseases--1990. Cambridge, Massachusetts, November 15-17, 1990.
233. Abitbol, J.J., Cornacchia, L., Heller, J., Schniderman, G., Jones, D., Garfin, S.R., and Marshall, L.: Cerebrovascular Pathology Related to Blunt Head or Neck Trauma With Associated Spine Fractures. Cervical Spine Research Society Eighteenth Annual Meeting. San Antonio, Texas, November 28 - December 1, 1990.
234. Garfin, S.R.: Spine Fixation Update. The California Trauma Conference 1991. San Diego, California, February 14-16, 1991.
235. Kwan, M.K., Massie, J.B., and Garfin, S.R.: Effects of Stress on Conduction Characteristics of Peripheral Nerve. Orthopaedic Research Society 37th Annual Meeting. Anaheim, California, March 4-7, 1991.
236. Carlson, G.D., Anderson, D.R., Abitbol, J.J., Krag, M.H., Kostuik, J.P., Garfin, S.R., Woo, S.L.-Y.: The Effects of Screw Orientation, Linkage and Bone Density on Sacral Screw Fixation. Orthopaedic Research Society 37th Annual Meeting. Anaheim, California, March 4-7, 1991.
237. Carlson, G.D., Massie, J.B., Abitbol, J.J., Swenson, M.R., Myers, R.R., Rydevik, B.L., Garfin, S.R.: The Effects of Hypotension on Nerve Root Recovery Following Acute Graded Compression. Orthopaedic Research Society 37th Annual Meeting. Anaheim, California, March 4-7, 1991.
238. Carlson, G.D., Heller, J.G., Garfin, S.R., and Abitbol, J.J.: Anatomical Comparison of the Roy-Camille and Magerl Techniques for Screw Fixation of the Lower Cervical Spine. American Academy of Orthopaedic Surgeons Fifty-Eighth Annual Meeting. Anaheim, California, March 7-12, 1991.
239. Heller, J.G., Alson, M.D., Brahme, S.K., Garfin, S.R., and Schaffler, M.B.: Quantitative Dens Morphology. American Academy of Orthopaedic Surgeons Fifty-Eighth Annual Meeting. Anaheim, California, March 7-12, 1991.

240. Garfin, S.R.: Instructional Courses 209 and 314. American Academy of Orthopaedic Surgeons Fifth-Eighth Annual Meeting. Anaheim, California, March 7-12, 1991.
241. Garfin, S.R., Cohen, M.S., Massie, J.B., Abitbol, J.J., Swenson, M.R., Myers, R.R., and Rydevik, B.L.: The Effect of Hypotension and Acute Graded Compression on Cauda Equina Nerve Root Function. Federation of Spine Associations Sixth Annual Meeting. Anaheim, California, March 10, 1991.
242. Wall, E.J., Cohen, M.S., Abitbol, J.J., and Garfin, S.R.: Intrathecal Nerve Root Organization at the Level of the Conus Medullaris. Federation of Spine Associations Sixth Annual Meeting. Anaheim, California, March 10, 1991.
243. Heller, J.G., Carlson, G.D., Abitbol, J.J., Garfin, S.R.: Anatomical Comparison of the Roy-Camille and Magerl Techniques for Screw Fixation of the Lower Cervical Spine. Federation of Spine Associations Sixth Annual Meeting. Anaheim, California, March 10, 1991.
244. Garfin, S.R.: Thoraco-Lumbar Spine Fractures - An Overview. Sharp Memorial Hospital's "Spinal Trauma Seminar: A Day with Professor Kaneda". San Diego, California, April 6, 1991.
245. Garfin, S.R.: Posterior Instrumentation of Thoracolumbar Fractures. American Spinal Injury Association 17th Annual Meeting. Posterior Instrumentation for Spinal Trauma: 1991 Update. Seattle, Washington, April 8, 1991.
246. Garfin, S.R.: Spondylolisthesis and Benefits of Spondylolisthesis Reduction. Cotrel-Dubousset Instrumentation Course, Scoliosis Center of San Diego, Children's Hospital. San Diego, California, April 22-23, 1991.
247. Carlson, G., Abitbol, J., Anderson, D., Krag, M., Kostuik, J., Woo, S., Garfin, S.: Screw Fixation in the Human Sacrum: An In Vitro Study of the Biomechanics of Fixation. International Society for the Study of the Lumbar Spine 18th Annual Meeting. Heidelberg, Germany, May 12-16, 1991.
248. Abitbol, J.J., Mirkovic, S., Steinmann, J., Edwards, C.C., Garfin, S.R.: Anatomic Considerations for Sacral Screw Placement. Canadian Orthopaedic Association 46 Annual Convention and Canadian Orthopaedic Research Society 25th Annual Meeting. Calgary, Alberta, June 2-6, 1991.
249. Garfin, S.R.: Algorithmic Approach to the Assessment of Acute Back and Leg Pain. Second Annual New England Spine Seminar. Burlington, Vermont, June 3-4, 1991.
250. Garfin, S.R.: Nonoperative Treatment of Acute Low Back Pain. Second Annual New England Spine Seminar. Burlington, Vermont, June 3-4, 1991.
251. Garfin, S.R.: Methods to Augment Spine Fusion. Second Annual New England Spine Seminar. Burlington, Vermont, June 3-4, 1991.
252. Carlson, G.D., Abitbol, J.J., Anderson, D.R., Krag, M.H., Kostuik, J.P., Woo, S.L-Y., Garfin, S.R.: Screw Fixation in the Human Sacrum: An In Vitro Study of the Biomechanics of Fixation. North American Spine Society Sixth Annual Meeting. Keystone, Colorado, July 31-August 3, 1991.
253. Garfin, S.R.: The Evaluation of Low Back Pain. UCSD's Radiology for Clinicians Course. San Diego, California, August 16, 1991.
254. Garfin, S.R.: Spinal Stenosis--Pathophysiology. The Spine: Current Concepts of Diagnosis & Treatment 8th Symposium. Scottsdale, Arizona, October 18-21, 1991.

255. Garfin, S.R.: Spondylolisthesis: An Overview. The Spine: Current Concepts of Diagnosis & Treatment 8th Symposium. Scottsdale, Arizona, October 18-21, 1991.
256. Garfin, S.R.: Posterior Instrumentation for Thoraco-Lumbar Fractures: Theoretical and Technical Considerations. The Spine: Current Concepts of Diagnosis & Treatment 8th Symposium. Scottsdale, Arizona, October 18-21, 1991.
257. Garfin, S.R.: Pathophysiology of Disc Disease. American Academy of Orthopaedic Surgeons. Comprehensive Review of Spinal Disease: Low Back Pain, Trauma, and Spinal Deformity. Philadelphia, Pennsylvania, October 31, November 2, 1991.
258. Garfin, S.R.: Spondylolisthesis--Initial and Surgical Management. American Academy of Orthopaedic Surgeons. Comprehensive Review of Spinal Disease: Low Back Pain, Trauma, and Spinal Deformity. Philadelphia, Pennsylvania, October 31, November 2, 1991.
259. Garfin, S.R.: Pedicle Screw Fixation--Technique and Results. American Academy of Orthopaedic Surgeons. Comprehensive Review of Spinal Disease: Low Back Pain, Trauma, and Spinal Deformity. Philadelphia, Pennsylvania, October 31, November 2, 1991.
260. Balderston, R.A., Bell, G.R., Garfin, S.R., Herkowitz, H.N., Wisneski, R.J.: Case Presentations--Management of Lumbar Spine Disorders. American Academy of Orthopaedic Surgeons. Comprehensive Review of Spinal Disease: Low Back Pain, Trauma, and Spinal Deformity. Philadelphia, Pennsylvania, October 31, November 2, 1991.
261. Garfin, S.R.: Protocol for Diagnosis of Back Pain. Orthopaedic Update: Current Concepts & Advances. San Diego, California, January 23-25, 1992.
262. Garfin, S.R.: Low Back Pain and Sciatica: A Clinical Approach. The Campbell Clinic Symposium. Scottsdale, Arizona, January 28-February 1, 1992.
263. Garfin, S.R.: A Comparison of Surgical Treatments for Low Back Pain and Sciatica, 1992. The Campbell Clinic Symposium. Scottsdale, Arizona, January 28-February 1, 1992.
264. Smith, S.A., Abitbol, J.J., Anderson, D.R., Carlson, G.D., Taggart, K.W., Garfin, S.R.: The Effects of Depth of Penetration, Screw Orientation, and Bone Density on Sacral Screw Fixation. Orthopaedic Research Society 38th Annual Meeting. Washington, D.C., February 17-20, 1992.
265. Abitbol, J.J., Smith, S.A., Massie, J.B., Carlson, G.D., Amiel, D., Akeson, W., Garfin, S.R.: Hyaluronan in the Prevention of Postlaminectomy Peridural Adhesion Formation. Orthopaedic Research Society 38th Annual Meeting. Washington, D.C., February 17-20, 1992.
266. Garfin, S.R.: Low Back Pain II: Spinal Stenosis (Instructional Course #330). American Academy of Orthopaedic Surgeons 59th Annual Meeting. Washington, D.C., February 20-25, 1992.
267. Bridwell, K.H., Garfin, S.R., Steffee, A.D., Transfeldt, E.E.: Case Controversies: Low Back Pain--Lumbar Disc Disease (Invited Panelist). American Academy of Orthopaedic Surgeons 59th Annual Meeting. Washington, D.C., February 20-25, 1992.
268. Abitbol, J.J., Cornacchia, L., Heller, J., Schniderman, G., Jones, D., Garfin, S.R., Marshall, L.: Cerebrovascular Pathology Related to Blunt Head or Neck Trauma With Associated Spine Fractures. Federation of Spine Associations Seventh Annual Meeting. Washington, D.C., February 23, 1992.
269. Garfin, S.R.: Spondylolisthesis (Classification, Conservative Management, and Indications For Surgery). Symposium on Low Back Pain: The Present and the Future. Tucson, Arizona, March 11-14,

1992.

270. Garfin, S.R.: Spinal Stenosis (Central-Lateral): Clinical-Laboratory Assessment and Indications for Treatment. Symposium on Low Back Pain: The Present and the Future. Tucson, Arizona, March 11-14, 1992.
271. Garfin, S.R.: Use of the Halo in Management of the Patient with a Cervical Spine Disorder. The Spine: Current Concepts. Wailea, Maui, Hawaii, March 15-20, 1992.
272. Garfin, S.R.: Spondylolisthesis in the Adult. The Spine: Current Concepts. Wailea, Maui, Hawaii, March 15-20, 1992.
273. Garfin, S.R.: Cauda Equina Syndrome: Recognition and Treatment. Wailea, Maui, Hawaii, March 15-20, 1992.
274. Saal, J.S., Saal, J.A., Meyers, R.R., Garfin, S.R.: Human Disc  $PLA_2$  Induces Neural Injury. International Society for the Study of the Lumbar Spine, 19th Annual Meeting. Chicago, IL, May 20-24, 1992.
275. Smith, S.A., Abitbol, J.J., Anderson, D.R., Carlson, G.D., Taggart, K.W., Garfin, S.R.: The Effects of Depth of Penetration, Screw Orientation, and Bone Density of Sacral Screw Fixation. North American Spine Society 7th Annual Meeting. Boston, Massachusetts, July 9-11, 1992.
276. Smith, S.A., Garfin, S.R., Chesnut, R., Massie, J.B.: The Effects of Fusion on Spinal Nerve Root Motion and Strain Secondary to Straight Leg Raising. North American Spine Society 7th Annual Meeting. Boston, Massachusetts, July 9-11, 1992.
277. Garfin, S.R.: Cauda Equina Compression--Mini-Symposium I: Pathophysiology of Lumbar Pain Syndromes. North American Spine Society 7th Annual Meeting. Boston, Massachusetts, July 9-11, 1992.
278. Saal, J.S., Franson, R., Garfin, S.R., Myers, R., Saal, J.A.: Human Disc  $PLA_2$  Induces Neural Injury: A Histomorphometric Study. North American Spine Society 7th Annual Meeting. Boston, Massachusetts, July 9-11, 1992.
279. Garfin, S.R.: Back Pain. Fifth Annual New Advances in Common Neurologic Disorders. University of California, San Diego School of Medicine, San Diego, California, July 30-August 1, 1992.
280. Garfin, S.R. (President's Guest Speaker): Pedicle Screws - The Benefits. Georgia Orthopaedic Society Annual Meeting, Sea Island, Georgia, October 1-4, 1992.
281. Garfin, S.R. (President's Guest Speaker): Update on Cervical Spine Fixation Techniques. Georgia Orthopaedic Society Annual Meeting, Sea Island, Georgia, October 1-4, 1992.
282. Garfin, S.R.: Advances in Techniques of Instrumentation for the Spine: Current Concepts & Controversies. 26th Annual Combined Surgical Meeting, Singapore, October 29-31, 1992.
283. Garfin, S.R.: Initial Evaluation for Treatment of Acute Cervical Spine Injuries. 26th Annual Combined Surgical Meeting, Singapore, October 29-31, 1992.
284. Garfin, S.R.: Current Concepts in the Surgical Management of Acute Cervical Spine Injuries. 26th Annual Combined Surgical Meeting, Singapore, October 29-31, 1992.
285. Garfin, S.R.: Hyperextension Injuries on Cervical Spondylosis. 26th Annual Combined Surgical Meeting, Singapore, October 29-31, 1992.

286. Garfin, S.R.: Non-Operative Treatment/Halo-Vest: Indications and Complications. 26th Annual Combined Surgical Meeting, Singapore, October 29-31, 1992.
287. Garfin, S.R.: Posterior Fusion & Instrumentation for Cervical Spine Trauma. 26th Annual Combined Surgical Meeting, Singapore, October 29-31, 1992.
288. Garfin, S.R.: Current Management of Odontoid Fractures. 26th Annual Combined Surgical Meeting, Singapore, October 29-31, 1992.
289. Garfin, S.R.: Anatomy of the Spine. San Diego Spine Symposium, San Diego, California, November 19-21, 1992.
290. Garfin, S.R.: Lumbar Disc Herniations. Surgical Techniques and Results. San Diego Spine Symposium, San Diego, California, November 19-21, 1992.
291. Garfin, S.R.: Newer Spinal Fixation Techniques. San Diego Spine Symposium, San Diego, California, November 19-21, 1992.
292. Jauregui, N., Lincoln, T., Mubarak, S., and Garfin, S.: Surgically Related Upper Cervical Spine Canal Anatomy. Cervical Spine Research Society 20th Annual Meeting, Palm Desert, California, December 3-5, 1992.
293. Garfin, S.: What's New in Orthopedics & Spine Trauma. The California Trauma Conference, San Diego, California, January 14-16, 1993.
294. Lincoln, T.L., Lind, B., Abitbol, J.J., Akeson, W., Garfin, S.R.: Preventing Postlaminectomy Adhesion: A New Experimental Model. Orthopaedic Research Society 39th Annual Meeting, San Francisco, California, February 15-18, 1993.
295. Lind, B.I., Massie, J.B., Lincoln, T., Swenson, M.R., Myers, R.R., Garfin, S.R.: The Effects of Induced Hypertension and Graded Compression on Impulse Propagation in the Spinal Nerve Roots of the Pig. Orthopaedic Research Society 39th Annual Meeting, San Francisco, California, February 15-18, 1993.
296. Garfin, S.R.: Cauda Equina Compression. Federation of Spine Associations Eighth Annual Meeting, San Francisco, California, February 21, 1993.
297. Smith, S.A., Garfin, S.R., Chesnut, R., Massie, J.B.: The Effects of Fusion on Spinal Nerve Root Motion and Strain Secondary to Straight Leg Raising. Federation of Spine Associations Eighth Annual Meeting, San Francisco, California, February 21, 1993.
298. Garfin, S.R.: Cervical Spine Trauma. AAOS Comprehensive Review Course for Orthopaedic Surgeons, Chicago, Illinois, March 21-26, 1993.
299. Garfin, S.R.: Evaluation of the Spinal Injured Patient. AO/ASIF Spine Course, Coronado, California, March 28-April 2, 1993.
300. Garfin, S.R.: Non-Operative Treatment of Cervical Spine Fractures. AO/ASIF Spine Course, Coronado, California, March 28-April 2, 1993.
301. Garfin, S.R.: Principles of Treatment of Thoracolumbar Fractures. AO/ASIF Spine Course, Coronado, California, March 28-April 2, 1993.
302. Garfin, S.R.: Spondylolysis and Spondylolisthesis--Overview. AO/ASIF Spine Course, Coronado,

California, March 28-April 2, 1993.

303. Garfin, S.R.: Treatment of Scheuermann's Kyphosis. AO/ASIF Spine Course, Coronado, California, March 28-April 2, 1993.
304. Garfin, S.R.: New Spinal Instrumentation Techniques. National Association of Orthopaedic Nurses, San Diego, California, May 12, 1993
305. Garfin, S.R.: Spinal Surgery. Surgical Grand Rounds, UCSD, San Diego, California, May 15, 1993.
306. Garfin, S.R.: Neck/Shoulder/Arm Pain. 6th Annual New Advances in Common Neurologic Disorders, San Diego, CA, August 5-7, 1993.
307. Lind, B.I., Lincoln, T.L., Massie, J.B., Meyers, R.R., Garfin, S.R.: Neurophysical Effects of Nerve Root Compression Together with Hypertension. 8th Annual Meeting of the North American Spine Society, San Diego, CA, October 14-16, 1993.
308. Vaccaro, A.R., Scuderi, G., Chesnut, R., Garfin, S.R.: Metallic Spinal Artifacts in MR Imaging. 8th Annual Meeting of the North American Spine Society, San Diego, CA, October 14-16, 1993.
309. Lincoln, T.L., Abitbol, J.J., Lind, B.I., Garfin, S.R., Amiel, D., Akesson, W.H.: Preventing Post-Laminectomy Adhesion: A New Experimental Model. 8th Annual Meeting of the North American Spine Society, San Diego, CA, October 14-16, 1993.
310. Garfin, S.R.: State of the Spine from A to Z. Las Croabas, Puerto Rico, November 12-15, 1993.
311. Garfin, S.R.: San Diego Spine Symposium and Workshop. Coronado, CA, November 18-20, 1993.
312. Garfin, S.R.: What's New in Spinal Instrumentation. San Diego Chapter of the National Association of Orthopaedic Nurse, San Diego, California, May 12, 1993.
313. Garfin, S.R.: The Physiology of Nerve Root Compression. The Neurologist and Back Pain: Musculoskeletal Diagnosis and Management. Newport Beach, CA, February 11-13, 1994.
314. Van den Noort, S., Garfin, S.R.: The Neurological Examination of the Patient. The Neurologist and Back Pain: Musculoskeletal Diagnosis and Management. Newport Beach, CA, February 11-13, 1994.
315. Zdeblick, T.A., Anderson, P.A., Garfin, S.R., Eismont, F.J., Herkowitz, H.N.: The Role of Internal Fixation in Traumatic and Degenerative Disorders of the Cervical Spine. 61st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, February 24-March 1, 1994.
316. Scuderi, G.J., Vaccaro, A.R., Garfin, S.R.: Incidence of Pseudoarthrosis following Infection Complicating Spinal Arthrodesis. 61st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, February 24-March 1, 1994.
317. Vaccaro, A.R., Maguire, M., Cohen, D.S., Garfin, S.R.: Is Fusion Necessary in the Surgical Management of Adult Low-Grade Spondylolisthesis. 61st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, February 24-March 1, 1994.
318. Garfin, S.R.: Lumbar Spine III: Spinal Stenosis. 61st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, February 24-March 1, 1994.
319. Garfin, S.R.: Halo Immobilization: New Devices, Techniques, Indications Complications. The Spine Current Concepts, Wailea, Maui, Hawaii, March 14-18, 1994.

320. Garfin, S.R.: Complications of Cervical Spine Surgery. The Spine Current Concepts, Wailea, Maui, Hawaii, March 14-18, 1994.
321. Garfin, S.R.: Anatomy of the Lumbar Spine. The Spine Current Concepts, Wailea, Maui, Hawaii, March 14-18, 1994.
322. Garfin, S.R.: Spondylolisthesis. The Spine Current Concepts, Wailea, Maui, Hawaii, March 14-18, 1994.
323. Garfin, S.R.: Lumbar Spinal Stenosis: Indications for Decompression alone and with Fusion. The Spine Current Concepts, Wailea, Maui, Hawaii, March 14-18, 1994.
324. Garfin, S.R.: Techniques of Fusion of the Cervical Spine. The 62nd Annual Meeting of the American Association of Neurological Surgeons, San Diego, California, April 9-14, 1994.
325. Garfin, S.R.: Management of Lower Cervical Spine Fractures-Dislocations. Spine Across the Sea, Maui, Hawaii, April 18-21, 1994.
326. Garfin, S.R.: Thoracolumbar Fractures Except Burst Fractures: Conservative Treatment and Indications for Surgery. Spine Across the Sea, Maui, Hawaii, April 18-21, 1994.
327. Garfin, S.R.: Posterolateral Fusion, Anterior and Posterior Interbody Fusion--What Is Their Role, Results, and Complications? American Academy of Orthopaedic Surgeons-Lumbar Disk Disease and Spinal Stenosis, Dearborn, MI, April 23, 1994.
328. Garfin, S.R.: Allograft, Electrical Stimulation and Fusion Enhancing Substances--Their role in Spine Surgery. American Academy of Orthopaedic Surgeons-Lumbar Disk Disease and Spinal Stenosis, Dearborn, MI, April 23, 1994.
329. Garfin, S.R.: Alternatives to Surgery for the Failed Back Syndrome. American Academy of Orthopaedic Surgeons-Lumbar Disk Disease and Spinal Stenosis, Dearborn, MI, April 23, 1994.
330. Garfin, S.R.: Metallic Spinal Artifacts in MR Imaging. Association of Bone and Joint Surgeons, 46th Annual Meeting, Carlsbad, California, May 11-14, 1994.
331. Grimes, P.F., Massie, J.B., Garfin, S.R.: Anatomic and biomechanical study of foraminal ligaments. The International Society for the Study of The Lumbar Spine Scientific Program, Seattle, Washington, June 21-25, 1994.
332. Scuderi, G., Vaccaro, A.R., Cohen, D.S., Garfin, S.R.: The incidence of pseudarthrosis following infection complicating spinal arthrodesis, Seattle, Washington, June 21-25, 1994.
333. Garfin, S.R.: The Role of Internal Fixation in Lumbar Spine Fusion. Girdlestone Orthopaedic Society Conference, San Diego, California, September 5-11, 1994.
334. Anderson, P.A., Garfin, S.R.: Cervical Spine. American Academy of Orthopaedic Surgeons-Indications for Spinal Instrumentation, Portland, Oregon, September 21, 1994.
335. Garfin, S.R.: Advanced reconstructive surgery of the spine. 2nd International Workshop on Osseointegration in Skeletal Reconstruction and Joint Replacement, Rancho Santa Fe, California, October 27-29, 1994.
336. Klein, J.D., Young, E.P., Klein, B.B., Garfin, S.R.: Perioperative Nutritional Status and Postoperative

Complications in the Surgical Treatment of Vertebral Osteomyelitis. North American Spine Society 9th Annual Meeting, Minneapolis, Minnesota, October 19-22, 1994.

337. Massie, J.B., Grimes, P.E., Swenson, M.R., Garfin, S.R.: Acute Compression and Ischemia as it Affects the Conus Medullaris: Electrophysiologic Study in a Pig Model. North American Spine Society 9th Annual Meeting, Minneapolis, Minnesota, October 19-22, 1994.
338. Lang, E.W., Chestnut, R.M., Beutler, A.S., Patel, P.A., Kalkmann, C.J., Kennely, N.A., Drummond, J.C., Garfin, S.R.: Prediction of Postoperative Neurostatus using Motor Evoked Potential Monitoring. North American Spine Society 9th Annual Meeting, Minneapolis, Minnesota, October 19-22, 1994.
339. Garfin, S.R.: Indications of Instrumentation and Fusion in the Adult Lumbar Spine. State of the Spine from A to Z, Dorado, Puerto Rico, November 3-6, 1994.
340. Garfin, S.R.: Diagnosis and Treatment of Spinal Infections. State of the Spine from A to Z, Dorado, Puerto Rico, November 3-6, 1994.
341. Garfin, S.R.: Thoracolumbar Fractures: Principles of Treatment. San Diego Spine Symposium & Workshop, San Diego, California, November 18-20, 1994.
342. Cooper, P., Abitbol, J.J., Garfin, S.R., Linovitz, R.: Adult Cervical Spine. San Diego Spine Symposium & Workshop, San Diego, California, November 18-20, 1994.
343. Garfin, S.R.: Appelbaum C1/C2 Fixation & Odontoid Fixation Techniques. San Diego Spine Symposium & Workshop, San Diego, California, November 18-20, 1994.
344. Garfin, S.R.: Spinal Stenosis: Surgical Techniques and Results. San Diego Spine Symposium & Workshop, San Diego, California, November 18-20, 1994.
345. Garfin, S.R.: The Future of Spine Surgery. San Diego Spine Symposium & Workshop, San Diego, California, November 18-20, 1994.
346. Garfin, S.R.: Biomechanics of Nerve Root. Eighth International Conference of Biomedical Engineering, Singapore, December 7-10, 1994.
347. Garfin, S.R., Melkerson, M.N., Mishra, N.K., Winter, R.B., Yuan, H.A.: Symposium: Lumbar Spine Fixation - The Pedicle Screw Controversy. Contemporary Ortho, December 1994.
348. Garfin, S.R.: Evaluation & Indications for Disc Surgery. An Instructional Course in Spinal Surgery, Singapore, December 9-11, 1994.
349. Garfin, S.R.: Pathoanatomy of Cauda Equina. An Instructional Course in Spinal Surgery, Singapore, December 9-11, 1994.
350. Garfin, S.R.: Surgery for Spinal Stenosis. An Instructional Course in Spinal Surgery, Singapore, December 9-11, 1994.
351. Garfin, S.R.: Indications for Spinal Fusions. An Instructional Course in Spinal Surgery, Singapore, December 9-11, 1994.
352. Garfin, S.R.: Surgery for Spondylolisthesis. An Instructional Course in Spinal Surgery, Singapore, December 9-11, 1994.
353. Garfin, S.R.: Spinal Instrumentation - Past, Present, Future. An Instructional Course in Spinal Surgery,

Singapore, December 9-11, 1994.

354. Garfin, S.R.: Spine Trauma: What Must Be Fixed Early, Late, or Not at All? The California Trauma Conference 1995. San Diego, California, January 26-28, 1995.
355. Garfin, S.R.: The Future of Spine Surgery. Future Challenges to Spine Surgery Program. Palm Springs, California, February 3, 1995.
356. Booth, R.E., Herkowitz, H.N., Herzog, R., Rauschnig, W., Garfin, S.R.: Lumbar Spine: Spinal Stenosis. American Academy of Orthopaedic Surgeons 62nd Annual Meeting, Orlando, Florida, February 16-21, 1995.
357. Garfin, S.R.: Complications Related to Spinal Injury and Its Treatment. American Academy of Orthopaedic Surgeons 62nd Annual Meeting, Orlando, Florida, February 16-21, 1995.
358. Vaccaro, A.R., Ring, D., Scuderi, G.J., Garfin, S.R.: Vertebral Artery Location in Relation to the Vertebral Body as Determined by Two Dimensional Computed Tomography Evaluation. American Academy of Orthopaedic Surgeons 62nd Annual Meeting, Orlando, Florida, February 16-21, 1995.
359. Garfin, S.R.: Treatment of Spinal Disorders - Plan for Operative Decision, Encinitas, California, March 9, 1995.
360. Garfin, S.R.: Politics and Screws for Spinal Surgery. International Intradiscal Meeting, San Diego, California, March 16-18, 1995.
361. Bradford, D.S., Garfin, S.R., Weinstein, J.N.: Spondylolisthesis. American Academy of Orthopaedic Surgeons - Debating Complex Issues in Spine Surgery, San Francisco, California, April 5-8, 1995.
362. Garfin, S.R.: Spinal Stenosis - Indications, Results, and Complications of Instrumentation Following Lumbar Laminectomy. American Academy of Orthopaedic Surgeons - Debating Complex Issues in Spine Surgery, San Francisco, California, April 5-8, 1995.
363. Garfin, S.R., Hanley, E.N., Zdeblick, T.A.: Case Consultations - Thoracic - Lumbar - Sacral Trauma. American Academy of Orthopaedic Surgeons - Debating Complex Issues in Spine Surgery, San Francisco, California, April 5-8, 1995.
364. Garfin, S.R.: Spinal Stenosis-Indications, Results, and Complications of Instrumentation Following Lumbar Laminectomy. American Academy of Orthopaedic Surgeons-Debating Complex Issues in Spine Surgery, San Francisco, California, April 5-8, 1995.
365. Garfin, S.R.: Low Back Pain. South Brazilian Orthopaedic and Traumatology Congress IX, Gramado, Brazil, April 27-May 1, 1995.
366. Garfin, S.R.: Cervical Instrumentation. South Brazilian Orthopaedic and Traumatology Congress IX, Gramado, Brazil, April 27-May 1, 1995.
367. Garfin, S.R.: Isthmic Spondylolisthesis-Evaluation and Treatment. South Brazilian Orthopaedic and Traumatology Congress IX, Gramado, Brazil, April 27-May 1, 1995.
368. Garfin, S.R.: Degenerative Spondylolisthesis-When to Fuse. South Brazilian Orthopaedic and Traumatology Congress IX, Gramado, Brazil, April 27-May 1, 1995.
369. Garfin, S.R.: Surgical Options for Lumbar Fusions. The Spine Study Group Tenth Symposium, Rancho Mirage, CA, May 18-21, 1995.

370. Wiesel, S.W., Garfin, S.R., Edwards, C.C., Heller, J.G.: Panel Discussion -Lumbar Disc Disease. The Spine Study Group Tenth Symposium, Rancho Mirage, CA, May 18-21, 1995.
371. Garfin, S.R.: Complications of Spine Surgery. The Spine Study Group Tenth Symposium, Rancho Mirage, CA, May 18-21, 1995.
372. Klein, J.D., Young, E.P., Klein, B.B., Garfin, S.R.: Perioperative Nutritional Status and Postoperative Complications In the Surgical Treatment of Vertebral Osteomyelitis, Helsinki, Finland, June 18-22, 1995.
373. Garfin, S.R.: Workshop on Back. Sports Medicine Ninth Annual Meeting, A Practical Approach for the Primary Care Physician, San Diego, CA, July 17-21, 1995.
374. Garfin, S.R.: Low Back Pain in the Athlete. Sports Medicine Ninth Annual Meeting, A Practical Approach for the Primary Care Physician, San Diego, CA, July 17-21, 1995.
375. Garfin, S.R.: Moderator: Opening Lectures. Team Approach to the Operative Treatment of Fractures, Deformities and Degenerative Conditions of the Spine, La Jolla, CA, September 15-17, 1995.
376. Garfin, S.R.: Degenerative Spinal Disease. Team Approach to the Operative Treatment of Fractures, Deformities and Degenerative Conditions of the Spine, La Jolla, CA, September 15-17, 1995.
377. Garfin, S.R.: Degenerative Cervical Spine. Team Approach to the Operative Treatment of Fractures, Deformities and Degenerative Conditions of the Spine, La Jolla, CA, September 15-17, 1995.
378. Anderson, P.A., Garfin, S.R.: Posterior Cervical Fusion/Instrumentation-Live Video Surgical Demonstration. American Academy of Orthopaedic Surgeons, Contemporary Issues in Advanced Spinal Surgery, Rosemont, IL, November 17-19, 1995.
379. Garfin S.R.: Indications/Techniques for Fusion in Spinal Stenosis. American Academy of Orthopaedic Surgeons Contemporary Issues in Advanced Spinal Surgery, Rosemont, IL, November 17-19, 1995.
380. Booth, R.E., Herkowitz, H.N., Herzog, R.J., Rauschnig, W., Garfin, S.R.: Lumbar Spine: Spinal Stenosis. American Academy of Orthopaedic Surgeons, Annual Meeting, Atlanta, GA, February 22-26, 1996.
381. Garfin, S.R., Katz, J.N., Lipson, S.J.: Spinal Stenosis: Strategies for Decision Making and Management. American Academy of Orthopaedic Surgeons, Annual Meeting, Atlanta, GA, February 22-26, 1996.
382. Garfin, S.R., Lipson, S.J. Anderson, P.A.: Spinal Stenosis: Decompression and Fusion. American Academy of Orthopaedic Surgeons, Annual Meeting, Atlanta, GA, February 22-26, 1996.
383. Garfin, S.R., Yuan, H.: Moderators Section IV. Federation of Spine Associations. Specialty Day, Ninth Annual Meeting, Atlanta, GA, February 25, 1996.
384. Garfin, S.R.: Controversy: Thoracolumbar Fractures - Should We Do It from the Front or the Back? Orthopaedic Trauma Association. Specialty Day, Ninth Annual Meeting, Atlanta, GA, February 25, 1996.
385. Garfin, S.R.: Moderator. Cervical Spine Research Society, European Section, XIIth Annual Meeting, Nice, France, June 5-7,1996.

386. Klein, J.D., Hey, L.A., Yu, C.S., Klein, B.B., Coufal, F.J., Young, E.P., Marshall, L.F., Garfin, S.R.: Perioperative Nutrition and Postoperative Complications in Patients Undergoing Spinal Surgery. International Society for the Study of the Lumbar Spine, 23rd Annual Meeting, Burlington, VT, June 25-29, 1996.
387. Massie, J., Pathria, M., Lind, B., Garfin, S.: MRI Evaluation of the Neuroforamin and the Corresponding Nerve Root Following a Unilateral Facet Dislocation. North American Spine Society, 11th Annual Conference, Vancouver, BC, Canada, October 23-26, 1996.
388. Blair, B.J., Selz, T., Massie, J., Ahlgren, B., Garfin, S.: Feasibility of Pedicle Screw Placement in the Lower Cervical and Upper Thoracic Spine. North American Spine Society, 11th Annual Conference, Vancouver, BC, Canada, October 23-26, 1996.
389. Leach, T., Massie, J., Pathria, M., Ahlgren, B., Garfin, S.: Pedicle Screw Placement: Evaluation Utilizing Plain Films and Computed Tomography and the Development of a Systematic Approach to Improve Imaging Interpretation and Accuracy. North American Spine Society, 11th Annual Conference, Vancouver, BC, Canada, October 23-26, 1996.
390. Carlson, G., Philips, F., Hoyer, H., Emery, S., Bohlman, H., Garfin, S.: Sagittal Alignment: An Important Factor in Anterior Cervical Interbody Fusion. North American Spine Society, 11th Annual Conference, Vancouver, BC, Canada, October 23-26, 1996.
391. Garfin, S.R.: Indications and Technique for Posterolateral Thoracolumbar Decompression and Rodding. American Academy of Orthopaedic Surgeons, Spinal Decompression and Stabilization, Rosemont, IL, November 15-17, 1996.
392. Garfin, S.R.: Update in Cervical Spine Pathology. American Academy of Orthopaedic Surgeons, Review and Update for Practicing Orthopaedic Surgeons, San Diego, CA, November 21-23, 1996.
393. Leach, T.J., Massie, J.B., Pathria, M.N., Garfin, S.R.: Pedicle Screw Replacement: Evaluation with Plain Radiography and CT and the Development of a Systematic Approach to Improve Imaging Interpretation and Accuracy. Radiology 82nd Scientific Assembly and Annual Meeting, Chicago, IL, December 1-6, 1996.
394. Jacobson, J.A., Starok, M., Pathria, M.N., Garfin, S.R.: US Evaluation of Pseudarthrosis after Posterolateral Spinal Fusion: Work in Progress. Radiological Society of North America, 82nd Scientific Assembly and Annual Meeting, Chicago, IL, December 1-6, 1996.
395. Garfin, S.R.: Update in Cervical Spine Pathology. American Academy of Orthopaedic Surgeons, Review and Update for Practicing Orthopaedic Surgeons, San Diego, CA, November 23, 1996.
396. Garfin, S.R.: Presidential Address. Cervical Spine Research Society, Twenty Fourth Annual Meeting, Palm Beach, Florida, December 5-7, 1996.
397. Carlson, G.D., Phillips, F.M., Hoyer, H.A., Emery, S.E., Garfin, S.R.: Dissociation of Neural Recovery and Regional Blood Flow in a Canine Spinal Cord Compression Model. Cervical Spine Research Society, Twenty Fourth Annual Meeting, Palm Beach, Florida, December 5-7, 1996.
398. Garfin, S.R.: Surgical Treatment of Degenerative Spine Conditions. San Diego Spinal Conference, San Diego, California, February 8, 1997.
399. Garfin, S.R.: Managing Back Care In A Managed Care Environment (Moderator/Organizer). American Academy of Orthopaedic Surgeons 64th Annual Meeting, San Francisco, California, February 13-17, 1997.

400. Klein, J.D., Hey, L.A., Klein, B.B., Yu, C.S., Garfin, S.R.: Perioperative Nutrition and Postoperative Complications in Patients Undergoing Lumbar Spinal Fusion. American Academy of Orthopaedic Surgeons 64th Annual Meeting, San Francisco, California, February 13-17, 1997.
401. Herkowitz, H.N., Herzog, R.J., Rauschnig, W: Lumbar Spine: Spinal Stenosis (Moderator). American Academy of Orthopaedic Surgeons 64th Annual Meeting, San Francisco, California, February 13-17, 1997.
402. Garfin, S.R., Abitbol, J.J. (Moderator): Section IV: Cervical Spine Research Society. Federation of Spine Associations, San Francisco, California, February 16, 1997.
403. Garfin, S.R.: Treatment of Scoliosis in Adults. The American Association of Neurological Surgeons and Congress of Neurological Surgeons 13th Annual Meeting, Newport Beach, California, February 19-22, 1997.
404. Garfin, S.R.: Complications of Cervical Spine Surgery. AO/ASIF Advanced Spinal Techniques Course, Banff, Alberta, Canada, March 6-9, 1997.
405. Garfin, S.R.: Keynote Address: The Failed Back. AO/ASIF Advanced Spinal Techniques Course, Banff, Alberta, Canada, March 6-9, 1997.
406. Garfin S.R.: Spine Care in a Managed Health Environment. American Academy of Orthopaedic Surgeons, Debating Complex Issues in Spine Surgery, Tucson, AZ, March 12-15, 1997
407. Garfin, S.R.: Debate: Pseudarthrosis: Electricity, High Voltage or Science, For Electricity. American Academy of Orthopaedic Surgeons, Debating Complex Issues in Spine Surgery, Tucson, AZ, March 12-15, 1997
408. Garfin, S.R.: Debate: Thoracolumbar Burst Fracture is Surgery Necessary? For Surgery. American Academy of Orthopaedic Surgeons, Debating Complex Issues in Spine Surgery, Tucson, AZ, March 12-15, 1997
409. Garfin, S.R.: Evaluation and Acute Management of Cervical Spine Injuries. Orthopaedic Trauma Association Trauma Update, Newport Beach, CA, April 18-19, 1997.
410. Garfin, S.R.: Cervical Spine Research Society Presidential Address -- A 25 year Correlation with History. Little Orthopaedic Club, Santa Fe, NM, April 30 - May 3, 1997.
411. Massie, J., Chiu, J.J., Abitbol, J.J., Garfin, S.R.: Collagen Membrane as an Agent Used in the Prevention of Postlaminectomy Epidural and Nerve Root Scar Formation. 12<sup>th</sup> Annual Meeting North American Spine Society, New York, NY, October 22-25, 1997.
412. Silveri, C.P., Foley, K.T., Vaccaro, A.R., Shah, S., Garfin, S.R.: Atlantoaxial Transarticular Screw Fixation: Risk Assessment and Bone Morphology Using an Image Guidance System. Cervical Spine Research Society, 25<sup>th</sup> Annual Meeting, Rancho Mirage, CA, December 4-6, 1997.
413. Garfin, S.R.: Biology, Pathophysiology and Natural History of Disk Degeneration. American Academy of Orthopaedic Surgeons, 65<sup>th</sup> Annual Meeting, New Orleans, LA, March 19-23, 1998.
414. Herkowitz, H.N., Herzog, R.J., Rauschnig, W.: Lumbar Spine: Spinal Stenosis. American Academy of Orthopaedic Surgeons, 65<sup>th</sup> Annual Meeting, New Orleans, LA, March 19-23, 1998.
415. Albert, T.J., Emery, S.E., Garfin, S.R., Rehtine, G.R. Herkowitz, H.N.: Cervical Spine: Neck Pain,

Radiculopathy, and Myelopathy. American Academy of Orthopaedic Surgeons, 65<sup>th</sup> Annual Meeting, New Orleans, LA, March 19-23, 1998.

- 416 Garfin, S.R.: Degenerative Conditions of the Spine: Current Diagnostic Procedures and Treatment Modalities. The Bone and Joint Decade 2000-2010 for Prevention and Treatment of Musculo-Skeletal Disorders, Lund, Sweden, April 17-18, 1998.
- 417 Garfin, S.R.: Managed Care: Definitions, California Experience, Not Solutions. American Academy of Orthopaedic Surgeons, Debating Complex Issues in Spine Surgery, Chicago, IL April 30-May 2, 1998.
- 418 Garfin, S.R.; The Disc: Anatomy/Pathophysiology. American Academy of Orthopaedic Surgeons, Debating Complex Issues in Spine Surgery, Chicago, IL April 30-May 2, 1998.
419. Garfin, S.R.: Neck and Back Pain. Primary Care Orthopaedics, San Diego, CA October 10, 1998.
420. Benz, R.J., Ibrahim, Z.G., Afshar, P., Garfin, S.R.: Predicting complications in elderly patients undergoing lumbar spinal surgery. North American Spine Society Annual Meeting, San Francisco, CA, October 28-31, 1998.
421. Garfin, S.R.: Presidential Address. North American Spine Society Annual Meeting, San Francisco, CA, October 28-31, 1998.
422. Garfin, S.R.: Vertebroplasty: A treatment alternative for osteoporotic fractures. North American Spine Society Annual Meeting, San Francisco, CA, October 28-31, 1998.
423. Garfin, S.R.: Moderator: Spine. Orthopaedic Research Society, Anaheim, CA, February 1-4, 1999.
424. Garfin, S.R.: Scientific Program – Spine. American Academy of Orthopaedic Surgeons, Anaheim, CA, February 4-8, 1999.
425. Garfin, S.R.: Orthopaedic Review Course. American Academy of Orthopaedic Surgeons, Anaheim, CA, February 4-8, 1999.
426. Garfin, S.R.: Cervical Spine: Neck Pain, Radiculopathy, and Myelopathy. American Academy of Orthopaedic Surgeons, Anaheim, CA, February 4-8, 1999.
427. Garfin, S.R.: Cervical and Lumbar Spinal Disc Degeneration. American Academy of Orthopaedic Surgeons, Anaheim, CA, February 4-8, 1999.
428. Garfin, S.R.: Moderator: Lumbar Spine:Spinal Stenosis. American Academy of Orthopaedic Surgeons, Anaheim, CA, February 4-8, 1999.
429. Garfin, S.R.: Evaluation and Treatment of Degenerative Spine Conditions. San Diego Spinal Conference, San Diego, CA , February 13, 1999.
430. Garfin, S.R.: Moderator: Surgical Correction of the Spine in Adults: Practical Aspects. San Diego Spinal Conference, San Diego, CA, February 13, 1999.
431. Garfin, S.R.: Lumbar Microdiscectomy—Far Lateral Discectomy, Barrow Neurological Institute, Phoenix, AZ, May 6, 1999.
432. Garfin, S.R.: Posterior Lumbar Decompression for Stenosis and Degenerative Spondylolisthesis. Fundamental Principles & Techniques of Spinal Surgery, Barrow Neurological Institute, Phoenix, AZ, May 6, 1999.

433. Garfin, S.R.: Degenerative Spinal Stenosis and Spondylolisthesis, Practical Strategies in Spine Surgery: Current Applications and Techniques, American Academy of Orthopaedic Surgeons, Rosemont, IL, August 6-8, 1999.
434. Garfin, S.R.: Complications of Posterior Lower Cervical Instrumentation, VII Congress of the Brazilian Spine Society, Ilha de comandatuba, Bahia, Brazil, September 22-25, 1999.
435. Garfin, S.R.: Failed Back Surgery, A Basic Approach, VII Congress of the Brazilian Spine Society, Ilha de comandatuba, Bahia, Brazil, September 22-25, 1999.
436. Kim, C.W., Lee, G., Abrams, R., Hoyt, D., Garfin, S.R. Use of Vascularized Fibular Grafts for the Treatment of Failed Spinal Fusions. VII Congress of the Brazilian Spine Society, Ilha de comandatuba, Bahia, Brazil, September 22-25, 1999.
437. Garfin, S.R.: Salvage Fusion with Vascularized Fibrular Graft, 5<sup>th</sup> Stryker Spinal Invitational Symposium, Ilha de comandatuba, Bahia, Brazil, September 27-29, 1999.
438. Garfin, S.R.: Critical Outcomes Following Spine Injury: The Evidence, 10<sup>th</sup> Annual California Trauma Conference, San Diego, CA, January 13-15, 2000.
439. Garfin, S.R.: Algorithm for Low Back Surgery, Spine Network of California Annual Meeting, Las Vegas, Nevada, February 27-27, 2000.
440. Garfin, S.R.: Posterior Fusions - Indications, Spine Network of California Annual Meeting, Las Vegas, Nevada, February 27-27, 2000.
441. Linovitz, R., Garfin S.R., Magee, F.P., Faden, J.S., Ponder, R., Muenz, L.: Combined Magnetic Fields Accelerate Primary Spine Fusion: A Double Blind, Randomized, Placebo Controlled Study, AAOS, Orlando, Fla., March 2000.
442. Garfin, S.R. : Spine Trauma. Orthopaedic Review Course. American Academy of Orthopaedic Surgeons, Orlando, FLA, March 15-18, 2000.
443. Garfin, S.R.: Surgical Treatment of Cervical Myelopathy: Posterior Cervical Laminectomy and Plating- The Optimal Posterior Approach. Federation of Spine Associations. American Academy of Orthopaedic Surgeons, Orlando, FLA, March 18, 2000.
444. Garfin, S.R.: AAOS Instructional Course "Lumbar Spinal Disc Degeneration", American Academy of Orthopaedic Surgeons, Orlando, FLA, March 15-18, 2000
445. Garfin, S.R.: AAOS Instructional Course "Cervical Spine: Neck Pain, Radiculopathy and Myelopathy", American Academy of Orthopaedic Surgeons, Orlando, FLA, March 15-18, 2000.
446. Garfin, S.R.: AAOS Instructional Course "Lumbar Spine: Spinal Stenosis", American Academy of Orthopaedic Surgeons, Orlando, FLA, March 15-18, 2000.
447. Garfin, S.R.: Pitfalls in Diagnosis for Radicular Pain, Failures of Spinal Surgery: A Tribute, Baltimore, MD, May 12-14, 2000.
448. Garfin, S.R.: What Cases of Lumbar Spinal Stenosis Require Associated Fusion? , Failures of Spinal Surgery: A Tribute, Baltimore, MD, May 12-14, 2000.
449. Garfin, S.R.: Cervical Nonunions: Posterior or Anterior Repair, Failures of Spinal Surgery: A Tribute,

Baltimore, MD, May 12-14, 2000.

450. Garfin, S.R.: Cirugia de revision en columna fallida. Curso Internacional Avances en Ortopedia. Puerta Vallarta, Jal., July, 2000.
451. Garfin, S.R.: Patofisiologia de la estenosis espinal. Curso Internacional Avances en Ortopedia. Puerta Vallarta, July, 2000.
452. Garfin, S.R.: Infecciones Vertebrates (hematologicas). Curso Internacional Avances en Ortopedia. Puerto Vallarta, July, 2000.
453. Garfin, S.R.: Cirugia de revisión en columna fallida. Osteosintesis Vertebral. Puerto Vallarta, July 26, 2000.
454. Garfin, S.R.: Patofisiologia del la estenosis espinal. Osteosintesis Vertebral. Puerto Vallarta, Jal., July 27, 2000.
455. Garfin, S. Rretrospective Analysis of the Outcomes of Balloon Kyphoplasty to Treat Vertebral Body Compression Fractures (VCF) Refractory to Medical Management. 3rd Annual Meeting of the Spine Society of Europe. Gothenburg, Sweden, September 4-8, 2000.
456. Garfin, S.R.: Moderator: Advances in the Treatment of Osteoporotic Vertebral Compression Fractures, New Orleans, LA, October 25, 2000.
457. Garfin, S. (Moderator): Spine Section. Review and Update for Practicing Orthopaedic Surgeons. American Academy of Orthopaedic Surgeons, Washington, DC, December 8-10, 2000.
458. Garfin, S.: Evaluation of Adult Back Pain. Review and Update for Practicing Orthopaedic Surgeons. American Academy of Orthopaedic Surgeons, Washington, DC, December 8,-10, 2000.
459. Garfin, S.: Lumbar Spine. Review and Update for Practicing Orthopaedic Surgeons. American Academy of Orthopaedic Surgeons, Washington, DC, December 8,-10, 2000.
460. Garfin, S.R.: Non-Operative Rx for DDD. Controversies and Challenges in Spine Surgery. Naples, FL, December 9-10, 2000.
461. Garfin, S.: Spine Trauma. Orthopaedic Review Course. American Academy of Orthopaedic Surgeons 68th Annual Meeting. San Francisco, CA, March 1, 2001.
462. Garfin, S.: Spine: Have Emerging Technologies Altered Outcomes: Percutaneous Procedures. American Academy of Orthopaedic Surgeons 68th Annual Meeting. San Francisco, CA, March 1, 2001.
463. Garfin, S., Yuan, H., Lieberman, I., Phillips, F., Lane, J., Wong, W., Sachs, B., Reiley, M.: Early Results of 300 Kyphoplasties for the Treatment of Painful Vertebral Body Compression Fracture. American Academy of Orthopaedic Surgeons 68th Annual Meeting. San Francisco, CA, March 1, 2001.
464. Garfin, S.: Orthopaedic Review Course. American Academy of Orthopaedic Surgeons 68th Annual Meeting. San Francisco, CA, March 1, 2001.
465. Albert, T., Anderson, P., Garfin, S., Zdeblick, T., Herkowitz, H.: Lumbar Spinal Disc Degeneration. American Academy of Orthopaedic Surgeons 68th Annual Meeting. San Francisco, CA, March 1, 2001.

466. Albert, T., Emery, S., Fargin, S., Rehtine II, G., Herkowitz, H.: Cervical Spine: Neck Pain, Radiculopathy and Myelopathy. American Academy of Orthopaedic Surgeons 68th Annual Meeting. San Francisco, CA, March 1, 2001.
467. Herkowitz, H., Herzog, R., Rauschnig, W., Garfin, S. (Moderator): Lumbar Spine: Spinal Stenosis. American Academy of Orthopaedic Surgeons 68th Annual Meeting. San Francisco, CA, March 2, 2001.
468. Garfin, S.: Treatment of Degenerative Spinal Deformity. The San Diego Spinal Deformity Conference. San Diego, CA, March 17, 2001.
469. Garfin, S.: Non-Operative and Operative Treatment of Adult Spinal Deformities. The San Diego Spinal Deformity Conference. San Diego, CA, March 17, 2001.
470. Garfin, S.: Flat-Back Syndrome and Spinal Osteotomies. Current Strategies in Spine Surgery. American Academy of Orthopaedic Surgeons. Charleston, SC, May 10-12, 2001.
471. Garfin, S.: The Halo-Vest: It's Role in the Era of Internal Fixation. Current Strategies in Spine Surgery. American Academy of Orthopaedic Surgeons. Charleston, SC, May 10-12, 2001.
472. Garfin, S.: Kyphoplasty vs. Vertebroplasty: What Are They? How Do They Fit In? Current Strategies in Spine Surgery. American Academy of Orthopaedic Surgeons. Charleston, SC, May 10-12, 2001.
473. Garfin, S.: Didactic Session #3: Kyphoplasty. First Annual Spine Evolution Nucleus Clinicians' Meeting, San Diego, CA, June 28-July 1, 2001.
474. Garfin, S.: Updates in Techniques & Standards of Care in Spinal Disorder. American Pain Management, Advances in Treatment of Spinal Disorders. San Diego, CA, July 26, 2001.
475. Garfin, S. (Leader), Kauffman, CI, Girardi, F., Goldstein, J., Silber, J., Berven, S., Bradford, D.: MIS Vertebroplasty/Kyphoplasty. First Annual Spine Evolution Nucleus Clinicians' Meeting, San Diego, CA, June 28-July 1, 2001.
476. Massie, J., Giurea, AI, Waters, S., Amiel, D., Garfin, S., Akesson, W.: Anti-Fibrotic Gels Versus a Barrier Sheet in the Prevention of Epidural fibrosis Postlaminectomy. North American Spine Society 16th Annual Meeting, Seattle, WA, October 31-November 3, 2001.
477. Garfin, S.: A Prospective Study of Early Outcomes of Balloon Kyphoplasty. North American Spine Society 16th Annual Meeting, Seattle, WA, October 31-November 3, 2001.
478. Garfin, S.: A Retrospective Review of Early Outcomes of Balloon Kyphoplasty. North American Spine Society 16th Annual Meeting, Seattle, WA, October 31-November 3, 2001.
479. Mayer, T., Rainville, J., Gatchel, R., Garfin, S., Marras, W., Herkowitz, H.: *The Spine Journal* Researchers' Workshop. Seattle, WA, November 3, 2001.
480. Garfin, S.: Evaluation of Adult Back Pain. Review and Update for Practicing Orthopaedic Surgeons. American Academy of Orthopaedic Surgeons, San Francisco, CA, November 30-December 2, 2001.
481. Garfin, S.: Lumbar Spine Surgical Treatment. Review and Update for Practicing Orthopaedic Surgeons. American Academy of Orthopaedic Surgeons, San Francisco, CA, November 30-December 2, 2001.

482. Herkowitz, H., Herzog, R., Garfin, S. (Moderator). Lumbar Spine: Spinal Stenosis. American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, Texas, February 13, 2002.
483. Albert, T., Anderson, P., Garfin, S., Zdeblick, T.: Lumbar Spinal Disc Degeneration. American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, Texas, February 14, 2002.
484. Garfin, S. (Moderator): Osteoporotic Vertebral Compression Fractures. American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, Texas, February 15, 2002.
485. Albert, T., Anderson, P., Garfin, S., Zdeblick, T.: Lumbar Spinal Disc Degeneration. American Academy of Orthopaedic Surgeons 69th Annual Meeting, Dallas, Texas, February 14, 2002.
486. Garfin, S.: New Advances in Orthopaedics: Spine. California Orthopaedic Association Annual Meeting QME Course. Palm Springs, CA, April 7, 2002.
487. Garfin, S. (Moderator): Spine II SICOT XXII World Congress. San Diego, CA, August 24, 2002.
488. Garfin, S (Moderator): Treatment of Osteoporotic Spine. SICOT XXII World Congress. San Diego, CA, August 27, 2002.
489. Garfin, S.: Lumbar Artificial Discs Related to the United States Trials. SICOT XXII World Congress. San Diego, CA, August 28, 2002.
490. Garfin, S.: Kyphoplasty. 5<sup>th</sup> Combined Meeting of Spinal & Paediatric Sections, APOA, Beijing, China, October 15-18, 2002.
491. Garfin, S.: Failed Back Surgery. 5<sup>th</sup> Combined Meeting of Spinal & Paediatric Sections, APOA, Beijing, China, October 15-18, 2002.
492. Garfin, S.: Pathophysiology of Spinal Stenosis. 5<sup>th</sup> Combined Meeting of Spinal & Paediatric Sections, APOA, Beijing, China, October 15, 2002.
493. Garfin, S.: Kyphoplasty. International Academic Conference of Spine Surgery, Chongqing, China, October 19, 2002.
494. Garfin, S.: Failed Back Surgery. International Academic Conference of Spine Surgery Chongqing, China, October 19, 2002.
495. Garfin, S: Kyphoplasty. 2002 Combined Orthopaedic Meeting, Singapore, China, October 12-16, 2002.
496. Garfin, S: Pathophysiology of Spinal Stenosis. 2002 Combined Orthopaedic Meeting, Singapore, China, October 12-16, 2002.
497. Kim, C.W. and Garfin, S.R. Commentary and Perspective on "A comprehensive study of patients with surgically treated lumbar spinal stenosis with neurogenic claudication". JBJS Web Commentary. 2002
498. Herkowitz, H., Herzog, R., Garfin, S. (Moderator). Lumbar Spine: Spinal Stenosis. American Academy of Orthopaedic Surgeons 70th Annual Meeting, New Orleans, Louisiana, February 06, 2003.
499. Garfin, S: Kyphoplasty: New Jersey Orthopaedic Society, Spring Conference, San Juan, Puerto Rico, March 15, 2003.
500. Garfin, S: Artificial Disc: New Jersey Orthopaedic Society, Spring Conference, San Juan, Puerto Rico,

March 15, 2003.

501. Garfin, S: Kyphoplasty and Artificial Disc: 12<sup>th</sup> Annual Meeting for American Medical Society for Sports Medicine, San Diego, CA, April 5-9, 2003.
502. Garfin, S.: Thoracolumbar Spine Trauma Update – Is Surgery Needed? If so, Anterior vs. Posterior? When? Why?. 14<sup>th</sup> Annual Spine Study Group Symposium, Palm Beach FL, April 30 – May 5, 2003.
503. Garfin, S.: Design Options and Outcomes in Lumbar Disc Replacement. 14<sup>th</sup> Annual Spine Study Group Symposium, Palm Beach FL, April 30 – May 5, 2003.
504. Garfin, S.: Efficacy of Treatment Modalities for Back Pain. California Workers' Compensation Defense Attorneys' Association 23<sup>rd</sup> Annual Conference, San Diego, CA May 29-June 1, 2003.
505. Garfin, S.: Fusion Biology. 1<sup>st</sup> Orthofix Spine Symposium, Verona, Italy June 24, 2003.
506. Garfin, S.: Fusion Failures Biologic Solutions. 1<sup>st</sup> Orthofix Spine Symposium, Verona, Italy June 24, 2003
507. Garfin, S.: How to Build a Successful Center of Excellence in Any Environment ...Academic, Institutional, or Private Practice. North American Spine Society, San Diego, CA October 21, 2003.
508. Garfin, S.: When is Surgery Necessary? An Algorithm for Low Back Surgery. The Spine Network of California Symposium, Las Vegas, NV, February 8, 2004.
509. Garfin, S.: Has Disc Replacement Arthroplasty Arrived and is it Here to Stay? The Spine Network of California Symposium, Las Vegas, NV, February 8, 2004
510. Massie, JB, Huang, B, Giurea, A, Kim, CW, Sah, R, Garfin, SR, Akeson, WH. Prevention of epidural fibrosis post-laminectomy: 3 weeks and 8 weeks study using a barrier sheet and hyaluronan gel. Poster Presentation. 17<sup>th</sup> Annual North American Spine Society Annual Meeting. Montreal, Canada October 2002.
511. Garfin, S: Vertebroplasty/Kyphoplasty 2004. Innovative Technologies in Spine Surgery Symposium. Los Cabos, Mexico, August 6, 2004.
512. Garfin, S: Motion Controversies: Panel Discussion. Innovative Technologies in Spine Surgery Symposium. Los Cabos, Mexico, August 6, 2004.
513. Kim, C.S., Perry, A., Mahar, A., Arrieta, N., Massie, J., Akeson, W., Lieber, R., Garfin. Biomechanical Evaluation of Vertebral Augmentation with Calcium Sulfate Cement in Cadaveric Osteoporotic Vertebral Compression Fractures. North American Spine Society Annual Meeting, September 2004.
514. Bawa, M., Schimizzi, A.L., Kim, C.W., Leek, B., Bono, C.M., Massie, J.B., Macias, B., Chung, C.B., Cornwall, G.B., Hargens, A.R., Garfin, S.R. Vascular Contribution of Paraspinal Muscles in Posterolateral Spinal Fusion. Oral presentation at North American Spine Society Annual Meeting, September 2004.
515. Schimizzi, A.L., Massie, J.B., Polewski, M.D., Perry, A., Kim, C.W., Garfin, S.R., Akeson, W.H. Topical High Molecular Weight Hyaluronan Application Post Laminectomy Decrease in the Acute Cytokine and Macrophage Response. Oral presentation at the North American Spine Society Annual Meeting, September 2004.
516. Garfin, S: Motion Sparing, Is It Critical? A View. 2<sup>nd</sup> Creta Club Meeting, Brussels- Belgium, March 3,

2005.

517. Garfin, S: Kyphoplasty, a 2 Year Outcome Analysis. 2<sup>nd</sup> Creta Club Meeting, Brussels- Belgium, March 3, 2005.
518. Garfin, S: Injury of Spinal Column & Spinal Cord-2 Injury of the Cervical Spine (Moderator). The Study Group for Nerve and Spine (SGNS) Annual Meeting, Kanagawa, Japan March 20, 2005
519. Garfin, S: Recent Advances in Clinical Research. International Seminar in Fukushima. Fukushima, Japan. March 22, 2005.
520. Garfin, S: Is Motion Preservation Here to Stay. Spine Arthroplasty Society Annual Meeting. New York City, NY, May 7, 2005
521. Garfin, S.: Continuing Significant Improvement in Physical & Emotional Health Following Kyphoplasty for Painful Vertebral Body Compression Fractures: A Two Year Multi-Center Prospective Study. Medicare Coverage Advisory Committee (MCAC), Baltimore, MD, May 24, 2005.
522. Garfin, S: Guest Academic Lecture: The Patho-physiology of Discogenic Back Pain. International Intradiscal Therapy Society, Inc. San Diego, California, May 26, 2005.
523. Garfin, S: Guest Lecture: Medical Errors. AO North American Spine Symposium. Coronado, CA , June 3, 2005
524. Garfin, S.: Invited Panelist: Manage This: Navigating a Product Recall, Realtime. Healthcare CEO Summit, La Jolla, CA, July 17 – 19, 2005.
525. Garfin, S.: Vertebral Augmentation: Vertebroplasty/Kyphoplasty in 2005. 2<sup>nd</sup> Annual Innovative Techniques in Spine Surgery. Los Cabos, Mexico, July 21 – 23, 2005.
526. Bono, C., Khanda A., Vadapalli S., Holekamp, S., Goel, V., Garfin, S. Residual angular motion after simulated solid lumbar fusion – a finite element analysis with implications on interpreting flexion-extension radiographs. North American Spine Society 20<sup>th</sup> Annual Meeting. Philadelphia, PA. September 28 – October 1, 2005.
527. Garfin, S.: Post Traumatic Spine Deformity. XLI Chilean Meeting of Orthopedics and Traumatology. Vina del Mar, Chile. November 16-19, 2005.
528. Garfin, S.: Kyphoplasty/Vertebroplasty 2005 – What's New? XLI Chilean Meeting of Orthopedics and Traumatology. Vina del Mar, Chile. November 16-19, 2005.
529. Garfin, S.: Spinal Stenosis. XLI Chilean Meeting of Orthopedics and Traumatology. Vina del Mar, Chile. November 16-19, 2005.
530. Garfin, S.: Orthopaedic Surgeons/Orthopaedic Industry. XLI Chilean Meeting of Orthopedics and Traumatology. Vina del Mar, Chile. November 16-19, 2005.
531. Garfin, S.: Motion Preservation – Is it Here to Stay? XLI Chilean Meeting of Orthopedics and Traumatology. Vina del Mar, Chile. November 16-19, 2005.
532. Garfin, S.: Kyphoplasty/Vertebroplasty Updates. 23rd Annual Malcolm B. Coultts Western Orthopaedic Association San Diego Visiting Professorship. San Diego, CA February 3, 2006.
533. Garfin, S.: Is There a Role for Cervical Arthroplasty in the Setting of Myelopathy? Controversies in

Contemporary Spine Surgery. San Francisco, CA February 17-18, 2006.

534. Garfin, S.: Motion Preservation—is it Here to Stay? 10<sup>th</sup> Seminar of the Study Group for Nerve and Spine. Tokyo, Japan March 18-19, 2006.
535. Garfin, S.: Kyphoplasty Using Balloon Technique. The Third Tohoku Low Back Pain Forum. Sendai, Japan April 8, 2006.
536. Garfin, S.: Osteoporotic Deformity: Kyphoplasty vs. Vertebroplasty. Kyphoplasty in Reconstruction of Burst Fracture. National Scoliosis Foundation. La Jolla, CA April 29, 2006.
537. Garfin, S.: Adult Scoliosis Surgery. National Scoliosis Foundation. La Jolla, CA April 29, 2006.
538. Garfin, S.: New Technologies to Treat Spinal Pain – Do We Need Them? Innovative Techniques in Spine Surgery. Los Cabos, Mexico, June 22, 2006.
539. Garfin, S.: Vertebral Augmentation – State of the Art. Innovative Techniques in Spine Surgery. Los Cabos, Mexico, June 22, 2006.
540. Caring for the Aging Spine: Advances in Fracture Reduction and Degenerative Disc Diagnosis. Clinical study update reporting short- and long-term outcomes with Balloon Kyphoplasty and Vertebroplasty. NASS Symposium, Seattle, WA, September 27, 2006.
541. Garfin, S.: Treatment of Osteoporotic Vertebral Compression Fractures (Balloon Kyphoplasty). UCSD Hospitalists, San Diego, CA, October 17, 2006.
542. Garfin, S.: Spinal Fusion for the Treatment of Low Back Pain Secondary to Degenerative Disc Disease. Medicare Coverage Advisory Committee (MCAC), Baltimore, MD, November 30, 2006.
543. Garfin, S.: Spine Technologies. First Albany Capital 2<sup>nd</sup> Annual Orthopedics Conference, San Diego, CA, February 13, 2007.
544. Garfin, S.: What's New in Spine Surgery? Motion Preservation – Is it Here to Stay? 11<sup>th</sup> Seminar of the Study Group for Nerve and Spine Program, Fukushima, Japan, March 17, 2007.
545. Garfin, S.R.: New Surgical Approaches to Degenerative Lumbar Spine Disease. UCSD Rheumatology Grand Rounds, San Diego, CA, May 25, 2007.
546. Garfin, S.R. Algorithm for Low Back Pain Treatment Consideration. UCSD Health and Wellness Lecture Series. San Diego, CA. June 20, 2007.
547. Garfin, S.R.: Bone Biopsy Results (Confusions) with Osteoporotic Vertebral Compression Fractures. IMAB/Creta Club Meeting, Lisbon, Portugal, June 28, 2007.
548. Garfin, S.R., Lee, Y.P.: Case Presentation Station 2 - Pathologic Fractures. 2007 Minimally Invasive Surgery of the Spine, San Diego, CA November 16-17, 2007.
549. Garfin, S.R.: When Surgery is the Best Option: Patient Selection and Approach to Back Surgery. Topics and Advances in Internal Medicine, San Diego, CA March 6-8, 2008.
550. Garfin, S.R., Sasso, R. (Moderators): Cervical TDR. 8<sup>th</sup> Annual Spine Arthroplasty Society, Miami Beach, FL, May 6-9, 2008.
551. Regev GJ, Tomiya A, Ward SR, Lieber RL, Garfin SR, Kim CW. Architectural Studies of the Lumbar

Paraspinal Muscles: Insights Into Muscle Design and Function. Oral presentation at the World Congress of Minimally Invasive Spine Surgery & Techniques (WCMISSST), Honolulu, HI June 3-7, 2008. **Awarded the Lyman Smith Award for best basic science presentation.**

552. Garfin, S.R.: Orthopaedic Surgeons and the Orthopaedic Industry, My Perspective. Los Angeles Chapters Western Orthopaedic Association, Beverly Hills, CA June 9, 2008.
553. Garfin, S.R.: Update on Vertebral Augmentation for VCFs, Innovative Techniques in Spine Surgery, Los Cabos, Mexico, June 19, 2008.
554. Garfin, S.R. (Moderator): Posterior Non-Fusion Devices, Innovative Techniques in Spine Surgery, Los Cabos, Mexico, June 19, 2008.
555. Garfin, S.R.: Thoracolumbar Osteotomies. Sisyphean Spinal Society Annual Meeting, Bermuda, July 18, 2008.
556. Garfin, S.R.: Spine Surgeon and Spine Industry: Interactions, Western Spine Symposium, San Diego, CA August 2, 2008.
557. Garfin, S.R. (Moderator): Aging Spine – Vertebral Body Augmentation, Aging and Complex Spine Summit, San Diego, CA, October 2-4, 2008.
558. Garfin, S.R.: Revision of Loose Instrumentation, Aging and Complex Spine Summit, San Diego, CA, October 2-4, 2008.
559. Regev GJ, Tomiya A, Ward SR, Lieber RL, Garfin SR, Kim SW. Tensile Properties of the Different Paraspinal Muscles, in Normal and Pathologic Muscle States, Reflect Changes to the Elastic Modulus of the Muscle's Intracellular and Extracellular Matrix. Oral presentation at the NASS 23<sup>rd</sup> Annual meeting in Toronto, Canada, October 2008.
560. Garfin, S.R.: Motion Sparing – Is it Necessary? 2008 H. Relton McCarroll Distinguished Professor, Washington University in St. Louis, St. Louis, MO November 10-12, 2008.
561. Garfin, S.R.: Orthopaedic Surgeon – Orthopaedic Industry. 2008 H. Relton McCarroll Distinguished Professor, Washington University in St. Louis, St. Louis, MO November 10-12, 2008.
562. Regev GJ, Tomiya A, Ward SR, Lieber RL, Garfin SR, Kim CW. Elastic Modulus of the Paraspinal Muscles Reflects on Their Contribution in Maintaining Spinal Stability. Analysis of the Differences Between Selected Paraspinal Muscles and Between Normal and Pathologic Muscles. Oral presentation at the 2008 Annual Meeting of the Society for Minimally Invasive Spine Surgery, Henderson, NV, November 14, 2008.
563. Garfin, S.R.: Adult Scoliosis. 26<sup>th</sup> Annual Malcolm B. Coutts Visiting Professorship, Western Orthopaedic Association, San Diego Chapter, San Diego, CA January 23, 2009.
564. Garfin, S.R.: Osteoporotic Overview and Balloon Kyphoplasty Compared to Vertebroplasty for Symptomatic Vertebral Body Compression Fractures. Kaiser Permanente National Orthopaedic Conference, San Diego, CA January 23-25, 2009.
565. Garfin SR, Carragee E. Breakout Session with Spine Faculty to Help Discuss/Set Guidelines for Care. Kaiser Permanente National Orthopaedic Conference, San Diego, CA January 23-25, 2009.
566. Garfin, S.R.: An Algorithm for Management of Low Back Pain/Sciatica. UCSD Pain Medicine Grand Rounds, San Diego, CA February 18, 2009.

567. Lee, YP, Regev GJ, Chen L, Dhawan M, Garfin SR, Kim CW. Location of the Lumbar Ventral Nerve Roots and the Retroperitoneal Large Vessels with Respect to Minimally Invasive, Lateral Interbody Fusion Technique, in the Normally Aligned and Deformed Spines. Oral presentation at the Lumbar Spine Research Society meeting in Chicago, IL, April 2-3, 2009.
568. Garfin, S.R.: Can We Accurately Diagnose the Source of Back Pain? 10<sup>th</sup> Annual Spine Arthroplasty Society Meeting, London, England, April 28-May 1, 2009.
569. Garfin, S.R., Halm H. (Moderators): Cervical TDR: Multi-Level. 10<sup>th</sup> Annual Spine Arthroplasty Society Meeting, London, England, April 28-May 1, 2009.
570. Kim CW, Patel N, Regev GJ, Taylor WR, Lee YP, Garfin S. Radiographic Outcomes of the DLIF/XLIF Technique in Comparison to Other Fusion Techniques for the Treatment of Degenerative Lumbar Scoliosis. Oral Presentation at the 10<sup>th</sup> Annual Spine Arthroplasty Society Meeting, London, England, April 28-May 1, 2009.
571. Regev GJH, Taylor W, Lee YP, Garfin SR, Kim CW. Nerve Injury to the Posterior Rami Medical Branch During the Insertion of Pedicle Screws: Comparison of the Mini-Open vs. Percutaneous Pedicle Screw Insertion Techniques. Oral Presentation at the 10<sup>th</sup> Annual Spine Arthroplasty Society Meeting, London, England, April 28-May 1, 2009.
572. Gottschalk LJ, Regev GJ, Taylor WR, Garfin SR, Kim CW. The Use of Posterior Minimally Invasive Approach for Corpectomy. Oral Presentation at the 10<sup>th</sup> Annual Spine Arthroplasty Society Meeting, London, England, April 28-May 1, 2009.
573. Garfin SR (Moderator): Spinal Mets. Spine Study Group, West Palm Beach, FL May 28-31, 2009.
574. Garfin SR (Moderator): Unusual Diagnostic Entities. Spine Study Group, West Palm Beach, FL May 28-31, 2009.
575. Garfin, S.R.: Do We Need New Technologies to Treat Back Pain? Innovative Techniques in Spine Surgery, Scottsdale, AZ October 15-17, 2009.
576. Garfin, S.R. (Moderator): Posterior Non-Fusion Devices. Innovative Techniques in Spine Surgery, Scottsdale, AZ October 15-17, 2009.
577. Garfin, S.R.: Vertebral Augmentation for VCFs: Update. Innovative Techniques in Spine Surgery, Scottsdale, AZ October 15-17, 2009.
578. Garfin, SR (Moderator): Symposium I: My Worst Complications: How I Managed Them and What I Learned. Cervical Spine Research Society, Salt Lake City, UT, December 3-5, 2009.
579. Garfin, SR (Moderator): Session V: Minimally Invasive Surgery. 5<sup>th</sup> Mayo Clinic International Spine Symposium 20 10, Kohala Coast, HI, January 31-February 4, 2010.
580. Garfin, SR: Motion Sparing: Does it Make Sense? 5<sup>th</sup> Mayo Clinic International Spine Symposium 20 10, Kohala Coast, HI, January 31-February 4, 2010.
581. Garfin, SR: Clinical Value of Varying Osteotomies to Treat Kyphosis in the Thoracolumbar Spine. 5<sup>th</sup> Mayo Clinic International Spine Symposium 20 10, Kohala Coast, HI, January 31-February 4, 2010.
582. Garfin, SR, Huddleston, PM. Debate: MIS S.I. Joint Stabilization for Non-Traumatic S.I. Joint Pain/Dysfunction. 5<sup>th</sup> Mayo Clinic International Spine Symposium 2010, Kohala Coast, HI, January 31-

February 4, 2010.

583. Garfin, SR. What's Known About Currently Used Mesenchymal Stem Cell Products (e.g.: Osteocel, Bone Marrow Aspirate). 5<sup>th</sup> Mayo Clinic International Spine Symposium 20 10, Kohala Coast, HI, January 31-February 4, 2010.
584. Garfin, SR. Motion Sparing: An Update From Across the Pacific. Study Group for Nerves and Spine, Tokyo Japan March 19-20, 2010.
585. Garfin, SR: Update on t he Status of Motion Sparing Devices in the US -- -- FDA and Economic Issues. Fukushima International Seminar 2010, March 22, 2010.
586. Garfin, SR. Vertebral Augmentation. 11<sup>th</sup> Israeli Spine Society (ISS) Meeting, Eilat, Israel, April 14-17, 2010.
587. Garfin, SR. The Sacroiliac Joint: An Ignored Area. 11<sup>th</sup> Israeli Spine Society (ISS) Meeting, Eilat, Israel, April 14-17, 2010.
588. Garfin, SR. Spine Surgeons – Spine Industry. 11<sup>th</sup> Israeli Spine Society (ISS) Meeting, Eilat, Israel, April 14-17, 2010.
589. Garfin, SR, Berg S (Moderators): Discussions on Posterior Dynamic Stabilization. 10<sup>th</sup> Annual Spine Arthroplasty Society Meeting, New Orleans, LA, April 27-30, 2010.
590. Garfin, SR (Moderator): The Guy Down the Street is Doing it” – Keeping Up With Dr. Jones. Spine Study Group 21<sup>st</sup> Symposium, West Palm Beach, FL, May 13-15, 2010.
591. Garfin, SR. Transparency in Preoperative Counseling: How the Information We Give Our Patients Influences Their Choices. Spine Study Group 21<sup>st</sup> Symposium, West Palm Beach, FL, May 13-15, 2010.
592. Garfin, SR. Fusion Biologics Update – Attrax – It’s All in the Architecture. 7<sup>th</sup> Annual Innovative Techniques in Spine Surgery, Los Cabos, Mexico, June 17-19, 2010.
593. Garfin, SR. Vertebral Augmentation is Effective for Treatment of VCFs. 7<sup>th</sup> Annual Innovative Techniques in Spine Surgery, Los Cabos, Mexico, June 17-19, 2010.
594. Garfin, SR. Randomized Multi Center Trial of Kiva VCF Treatment vs. Balloon Kyphoplasty. 7<sup>th</sup> Annual Innovative Techniques in Spine Surgery, Los Cabos, Mexico, June 17-19, 2010.
595. Garfin SR. Spinal Motion Sparing: Is It Here to Stay? 7<sup>th</sup> Annual SICOT/SIROT Conference combined meeting with the Swedish Orthopaedic Association, Gothenburg, Sweden, August 31-September 3, 2010.
596. Garfin, SR, Vaccaro, AR, Standaert CJ. Symposium: Controversial Topics in Spine Care. Panel presentation by Past Presidents. North American Spine Society, Orlando, Florida, October 5-9, 2010.
597. Garfin SR. Emergency Management in Spinal Cord Injury. XXI National Congress Mexican Association of Orthopaedics and Trauma, Puerto Vallarta, Mexico, November 2-6, 2010.
598. Garfin SR. Disk Anatomy and Biochemistry. XXI National Congress Mexican Association of Orthopaedics and Trauma, Puerto Vallarta, Mexico, November 2-6, 2010.
599. Garfin SR. How Can I Get a Successful Lumbar Fusion? XXI National Congress Mexican Association

of Orthopaedics and Trauma, Puerto Vallarta, Mexico, November 2-6, 2010.

600. Garfin SR. Spine Osteoporosis. XXI National Congress Mexican Association of Orthopaedics and Trauma, Puerto Vallarta, Mexico, November 2-6, 2010.
601. Garfin SR. Xiphoplasty and Vertebroplasty. XXI National Congress Mexican Association of Orthopaedics and Trauma, Puerto Vallarta, Mexico, November 2-6, 2010.
602. Garfin SR. Laminectomy and Fusion in Lumbar Stenosis. XXI National Congress Mexican Association of Orthopaedics and Trauma, Puerto Vallarta, Mexico, November 2-6, 2010.
603. Garfin SR. Spinal Surgery: Communications, Complications, and Consent. 11<sup>th</sup> Annual Multispecialty Conference on Medical Negligence & Risk Management in Medicine, Surgery, Emergency Medicine, Radiology and Family Medicine, Maui, Hawaii, January 5-8, 2011.
604. Garfin SR. Managing Complications in Spinal Surgery: Anticipation, Prevention, and Avoidance. 11<sup>th</sup> Annual Multispecialty Conference on Medical Negligence & Risk Management in Medicine, Surgery, Emergency Medicine, Radiology and Family Medicine, Maui, Hawaii, January 5-8, 2011.
605. Garfin SR. The Orthopaedic Surgeon and the Orthopaedic Industry: Conflict or Benefit? 11<sup>th</sup> Annual Multispecialty Conference on Medical Negligence & Risk Management in Medicine, Surgery, Emergency Medicine, Radiology and Family Medicine, Maui, Hawaii, January 5-8, 2011.