

SANFORD H. DAVNE, M.D.

CURRICULUM VITAE

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BIRTHDATE: December 25, 1948

EDUCATION:

1970 BA, Biology, LaSalle College, Philadelphia, PA

1973 MS, Pharmacology, Hahneman Medical College, Philadelphia, PA

1976 M.D., Temple University School of Medicine, Philadelphia, PA

POST-GRADUATE EDUCATION:

1976-77 General Surgery Resident
Thomas Jefferson University Hospital, Philadelphia, PA

1977-81 Orthopaedic Surgery Residency
Thomas Jefferson University Hospital, Philadelphia, PA

July - Dec. 1981 Fellowship in Spinal Cord Injury Surgery
Northwestern Memorial Hospital, Northwestern University,
Chicago, IL

SUPPLEMENTAL EDUCATION:

May 1986 Plate Fixation of the Lumbar Spine
St. Vincent Charity Hospital, Cleveland, Ohio

May 1981 Advanced Trauma Life Support Providers Course
Thomas Jefferson University Hospital, Philadelphia, PA

Jan. 1984 Advanced Trauma Life Support Instructors Course
Thomas Jefferson University Hospital, Philadelphia, PA

Nov. 1994 Arthroscopic Microdiscectomy of the Lumbar Spine
The Graduate Hospital, Philadelphia, PA

APPOINTMENTS:

July 1980 Chief Resident, Department of Orthopaedic Surgery
-Oct 1980 Thomas Jefferson University Hospital, Philadelphia, PA

Jan 1982 Instructor, Department of Orthopaedic Surgery
-Present Jefferson Medical College, Thomas Jefferson University,
Philadelphia, PA

CERTIFICATION:

May 1974 National Board of Medical Examiners: Part I
May 1976 National Board of Medical Examiners: Part II
May 1977 National Board of Medical Examiners: Part III
July 1984 American Board of Orthopaedic Surgery

LICENSURE:

Pennsylvania MD 019408E
DEA# BD 8024717

HOSPITAL AFFILIATIONS:

1981-2000 Thomas Jefferson University Hospital, Philadelphia, PA,
Attending Physician

1991-2000 Methodist Hospital, Philadelphia, PA, Attending Physician

1988-1999 Graduate Hospital, Philadelphia, PA, Attending Physician

TEACHING ACTIVITIES:

1982-1998 Medical student and resident teaching, Thomas Jefferson
University Hospital, Graduate Hospital, Methodist Hospital

June 1985 Instructor, Advanced Trauma Life Support Providers Course,
Thomas Jefferson University, Philadelphia, PA.

August 1985 Instructor, Advanced Trauma Life Support Instructors Course,
Thomas Jefferson University, Philadelphia, PA

May 1988 Co-Director, Spinal Plate Workshop,
Thomas Jefferson University, Philadelphia, PA

Mar 1989 Faculty, Surgical Care of the Lumbar Spine,
University of Washington, Seattle, WA

- April 1989 Guest Surgeon and Lecturer, Hokkaido, Sapporo, Japan
- April 1989 Guest Surgeon and Lecturer, Tokai University, Kanagawa, Japan
- Oct 1989 Co-Director, Spinal Plate Workshop,
Thomas Jefferson University, Philadelphia, PA.
- Jan 1990 Guest Surgeon and Lecturer, Genoa University Hospital, Genoa,
Italy
- May 1990 Guest Surgeon and Lecturer, Clinic du Pre, Le Mans, France
- Oct 1990 Faculty, Techniques in Spinal Instrumentation,
Johns Hopkins University, Baltimore, MD
- Sept 1991 Faculty, ISOLA Spinal Implant: Principles and Practice,
Secaucus, NJ
- Nov 1991 Faculty, VSP Workshop, Osaka, Japan
- Nov 1991 Guest Surgeon and Lecturer, Koseinenkin Hospital, Osaka, Japan
- Mar 1992 Faculty, Contemporary Update on Disorders of the Spine,
Nashville, TN
- Feb 1993 Faculty, Versatility in Spinal Instrumentation, San Francisco, CA
- Feb 1993 Faculty, Fifth International Course on Segmental Spinal
Reconstructive Surgery, Cleveland, OH
- Mar 1993 Faculty, Spinal Fixation Symposium, Philadelphia, PA
- Apr 1993 Faculty, Contemporary Update on Disorders of the Spine,
Nashville, TN
- July 1993 Faculty, Controversies in Spine Surgery, Dearborn, MI

COMMITTEE AND ADMINISTRATIVE SERVICES:

- 1984-92 Tissue Committee, Thomas Jefferson University Hospital
- 1988-90 Operating Room Committee, Thomas Jefferson University Hospital
- 1992-94 Utilization Review Committee, Methodist Hospital

OTHER POSITIONS AND INTERESTS:

- 1992-2003 Board of Directors, Thorncroft Equestrian Center, Malvern, PA
(Charitable Organization that utilizes therapeutic riding for children and adults with various spinal and brain disorders)

MEMBERSHIPS IN SOCIETIES:

- 1976- Temple University Medical School Alumni Association
- 1981- Jefferson Orthopaedic Society
- 1982-93 Philadelphia County Orthopaedic Society
- 1982- Jefferson Volunteer Faculty Association
- 1985-92 Pennsylvania Orthopaedic Society
- 1985- North American Spine Society
- 1987-2001 American Academy of Orthopaedic Surgeons
- 1987-90 Eastern Orthopaedic Association
- 1992- Thomas Jefferson University Alumni Association

THESIS:

- 1973 Effects of High Sucrose and High Fat Diets on Aryl Hydrocarbon Hydroxylase Activity in Rat Liver and Lung
Master of Science Thesis, Hahneman Medical College

CLINICAL INTERESTS:

- 1986- Lumbar Spinal Fusion with Transpedicular Instrumentation for Degenerative Pathology
- 1987-1989 Clinical Investigator, Spinal Bone Growth Stimulation System
- 1991-1998 Clinical Investigator, Carbon Fiber Cage for Interbody Fusion

PUBLICATIONS:

1. Ciaccio, E.I., Shadle, C.A., Davne, S.H.: Decreased Drug Metabolism Activity by Corn Oil Feeding and Various Drugs. *Pharmacologist*, 13:194, 1971.
2. Davne, S.H., Skinner, S.H., Berman, A.T., Schwenker, E.P.: Orthopaedic Aspects of Neurofibromatosis. *Orthopaedic Transactions*, 4:362, 1980.
3. Davne, S.H.: Emergency Care of Acute Spinal Cord Injury. *Journal of the American Paraplegia Society* 6:42-46, 1983.
4. Cotler, H.B., Miller, L.S., DeLucia, F.A., Cotler, J.M., Davne, S.H.: The Closed Treatment of Cervical Spine Dislocation. *Jefferson Orthopaedic Journal*, 1983.
5. Northrup, B.E., Bose, B., Myers, D.L., Osterholm, J.L., Cotler, J.M. and Davne, S.H.: A Re-Appraisal of Central Cervical Cord Injury Treatment. *Orthopaedic Transactions*, 8:7, 1984.
6. Davne, S.H., Myers, D.L., Moore, J.H., Jarrell, B.E. and Carabasi, R.A.: Simultaneous Anterior and Posterior Thoraco-lumbar Decompression and Fusion. Videotape, American Academy of Orthopedic Surgeons, 1985.
7. Cotler, H.B., Miller, L.S., DeLucia, F.A., Cotler, J.M., Davne, S.H.: Closed Reduction of Cervical Spine Dislocation. *Clinical Orthopaedics and Related Research*, #214, January 1987, 185-199.
8. Davne, S.H., Myers, D.L.: Complications of Lumbar Spinal Fusion with Pedicle Screw Fixation. *Spine*, June, 1992, 17:6S,184-189.
9. Davne, S.H., Myers, D.L.: Complications of Lumbar Pedicle Instrumentation. *Proceedings of the Fifth International Conference on Lumbar Fusion and Stabilization*. Held in November 1991 in Osaka, Japan
10. Myers, D.L., Battle, F.J., Davne, S.H., Mandel, S.: Cervical Spine Injury Associated with Minor Head Trauma, Chapter 15. *Minor Head Trauma: Assessment, Management, and Rehabilitation*, Mandel, S., Sataloff, R., Schapiro, S. editors. Springer-Verlag, New York, 1993.

LECTURES AND PRESENTATIONS:

1. "Orthopaedic Aspects of Neurofibromatosis," Elizabethtown Hospital for Children and Youth, Elizabethtown, PA, October 1979.
2. "Orthopaedic Aspects of Neurofibromatosis," AOA Residents Conference, Rochester, MN, May 1980.

3. "Orthopaedic Aspects of Neurofibromatosis," Jefferson Orthopaedic Society, Philadelphia, PA, November 1980.
4. "Traumatic Retrolisthesis in Fracture Dislocation of the Cervical Spine," Jefferson Orthopaedic Society, Philadelphia, PA, November 1982
5. "Emergency Care of Acute Spinal Cord Injury," American Paraplegia Society, Las Vegas, NE, Sept 1982.
6. "Simultaneous Anterior-Posterior Spinal Column Neural Decompression and Fusion for Fracture-Dislocation of the Thoraco-Lumbar Spine," American Academy of Orthopaedic Surgeons, Anaheim, CA, March 1983.
7. "Combined Simultaneous Anterior-Posterior Spinal Column Neural Decompression and Fusion for Fracture Dislocation of the Thoracic and Lumbar Spine," American Spinal Injury Association, Denver, CO, April 1983.
8. "Segmental Spinal Instrumentation in the Thoracolumbar Spine," Jefferson Orthopaedic Society, Philadelphia, PA, November 1983.
9. "Cervical Spinal Cord Injuries," Orthopaedic Grand Rounds, Northwestern Memorial Hospital, Chicago, IL, October 1982.
10. "Cervical and Lumbar Spinal Injuries," Albert Einstein and Temple University combined Orthopaedic Grand Rounds, Philadelphia, PA, April 1983.
11. Northrup, B.E., Bose, B., Myers, D.L., Osterholm, J.L., Cotler, J.M. and Davne, S.H.: "A Re-appraisal of Central Cervical Cord Injury Treatment," Cervical Spine Research Society, December 1983.
12. "Management of Acute Spinal Cord Injuries," Philadelphia College of Osteopathic Medicine, Orthopaedic Grand Rounds, Philadelphia, PA, October 1984.
13. Davne, S.H., Myers, D. L., et al.: "Simultaneous Anterior and Posterior Thoraco-Lumbar Decompression and Fusion," American College of Surgeons, San Francisco, CA, October 1984.
14. Davne, S.H., Myers, D. L., et al.: "Simultaneous Anterior and Posterior Thoraco-Lumbar Decompression and Fusion," American Academy of Orthopaedic Surgeons, Las Vegas, NE, January 1985.
15. "Surgery of the Spinal Injured Patient," Magee Rehabilitation Hospital, Philadelphia, PA, January 1985.

16. "Cervical Spine Injuries," John F. Kennedy Hospital Residency Training Program, Cherry Hill, NJ, April 1985.
17. "Internal Fixation of the Lumbar Spine," Neurosurgical Grand Rounds, Thomas Jefferson University, Philadelphia, PA, September 1986.
18. "Musculoskeletal Injuries: A Clinical Multidisciplinary Approach to Rehabilitation of the Spine," American Occupational Medical Association, Philadelphia, PA, April 1987.
19. "VSP Plate Fixation in the Lumbar Spine," PLIF Symposium, Cleveland, OH, July 1987.
20. "VSP Plate Fixation in the Lumbar Spine," Pennsylvania Orthopaedic Society, Philadelphia, PA, November 1987.
21. "Current Treatment Techniques in Degenerative Disc Disease of the Lumbar Spine," Neurosurgical Grand Rounds, Thomas Jefferson University Philadelphia, PA, March 1988.
22. "The Treatment of Degenerative and Discal Pathology of the Lumbar Spine with VSP Transpedicular Fixation," VSP Plate Course, Philadelphia, PA, May, 1988.
23. "VSP Plate Fixation in the Lumbar Spine: Clinical Series," PLIF with Internal Fixation Symposium, Colorado Springs, CO, July 1988.
24. "Surgical Management of Lumbar Spinal Disorders," Pennsylvania Academy of Chiropractic Physicians, Philadelphia, PA, August 1988.
25. "Lumbar Spinal Fusion for Degenerative and Discal Disease using Transpedicular Plate Fixation," American Academy of Orthopaedic Surgeons, Las Vegas, NE, February 1989.
26. "Lumbar Spinal Fusion for Degenerative and Discal Disease using Transpedicular Plate Fixation," Poster Presentation, American Academy of Orthopaedic Surgeons, Las Vegas, NE, February 1989.
27. "The Treatment of Degenerative and Discal Pathology of the Lumbar Spine with VSP Transpedicular Fixation," Lumbar Spinal Instrumentation Seminar and Course, Seattle, WA, March 1989.
28. "Lumbar Spinal Fusion for Degenerative and Discal Disease Using Transpedicular Plate Fixation," Hokkaido University, Sapporo, Japan, April 1989.
29. "Lumbar Spinal Fusion for Degenerative and Discal Disease Using Transpedicular Plate Fixation," Kanawangen, Japan, April 1989.

30. "Comparative Studies of Internal Fixation With and Without Weight Sharing," Lumbar Interbody Fusion With Internal Fixation Symposium, Quebec, Canada, July 1989.
31. "Futility of Radiological Evaluation of Lateral Fusion after VSP Fixation," Lumbar Interbody Fusion with Internal Fixation Symposium, Quebec, Canada, July 1989.
32. "Revision Lumbar Spine Surgery," Orthopaedic Grand Rounds, John F. Kennedy Hospital Residency Training Program, Cherry Hill, NJ, September 1989.
33. "The Treatment of Degenerative and Discal Pathology of the Lumbar Spine with VSP Transpedicular Fixation," Spinal Surgery Seminar, Philadelphia, PA, October 1989.
34. "PLIF with Plates," Spinal Surgery Seminar, Philadelphia, PA, October 1989.
35. "Lumbar Fusion with Instrumentation: An Overview," University of Genoa, Genoa, Italy, January 1990.
36. "Factors Influencing Outcome of Lumbar Spinal Fusion with Instrumentation," Poster Presentation, North American Spine Society, Colorado City, CO, August 1990.
37. "The Treatment of Degenerative and Discal Pathology of the Lumbar Spine with VSP Transpedicular Fixation," Spinal Surgery Seminar, Baltimore, MD, October 1990.
38. "Factors Influencing Outcome of Lumbar Spinal Fusion with Instrumentation," Neurosurgical Grand Rounds Presentation, Thomas Jefferson University, Philadelphia, PA, February 1991.
39. "A Comparison of Outcome in L4-L5 vs. L5-S1 Fusions with Instrumentation," Jefferson Orthopaedic Society, Thomas Jefferson University, Philadelphia, PA, November 1990.
40. "Level Fused vs. Outcome in Lumbar Spinal Fusion with Instrumentation," North American Spine Society, CO, July 1991.
41. "Complications of Lumbar Spinal Fusion with Instrumentation," North American Spine Society, CO, July 1991.
42. "Spondylolisthesis," Brick Hospital Orthopaedic Grand Rounds, Brick, NJ September 1991.
43. "The Effect of Level(s) Fused on Outcome in Lumbar Spinal Fusion with Instrumentation," Poster Presentation, Fifth International Conference on Lumbar Stabilization, Osaka, Japan, November 1991.

44. "A Five Year Experience with VSP Internal Fixation in the Lumbar Spine," Poster Presentation, Fifth International Conference on Lumbar Stabilization, Osaka, Japan, November 1991.
45. "Response to Prior Surgery as a Factor Influencing Outcome in Lumbar Spinal Fusion," Fifth International Conference on Lumbar Stabilization, Osaka, Japan, November 1991.
46. "Complications of Lumbar Spinal Fusion with Pedicle Screw Fixation," Fifth International Conference on Lumbar Stabilization, Osaka, Japan, November 1991.
47. "Techniques and Pitfalls of Lumbar Spinal Fusion with VSP Instrumentation," Kagoshima University, Kagoshima, Japan, November 1991.
48. "Outcome of Lumbar Spinal Fusion with Instrumentation," Kawasaki Hospital, Kawasaki, Japan, November 1991.
49. "Factors Affecting Outcome of Instrumented Lumbar Fusion," Koseinenkin Hospital, Osaka, Japan, November 1991.
50. "Lumbar Spinal Fusion with Instrumentation," Issues in Back Surgery, Magee Hospital, Philadelphia, PA, November 1991.
51. "Complications of Lumbar Spinal Fusion with Pedicle Screw Instrumentation," Federation of Spinal Associates Meeting, Washington, DC, February 1992.
52. "Techniques, Pitfalls, and Complications of Pedicle Screw Fixation in the Lumbar Spine," A Contemporary Update on Disorders of the Spine, Nashville, TN, March 1992.
53. "Results Following Removal or Revision of Lumbar Pedicle Screw Instrumentation," The North American Spine Society, Boston, MA, July 1992.
54. "Clinical Experience with Posterior Lumbar Spinal Instrumentation," Versatility in Spinal Instrumentation, San Francisco, CA, February 1993.
55. Myers, D. L., Davne, S.H.: "Prior Lumbar Surgery Response Correlated with Outcome of Lumbar Fusion," The American Academy of Orthopaedic Surgeons, San Francisco, CA, February 1993.
56. Davne, S.H., Myers, D. L.: "Prior Lumbar Surgery Response Correlated with Outcome of Lumbar Fusion," The Joint Section on Spine of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons, Tucson, Arizona, February 1993.
57. Davne, S.H., Myers, D.L.: "Level Fused Correlated with Outcome of Instrumented Lumbar Spinal Fusion: L4-5 vs. L5-S1," Poster Presentation, The Joint Section on Spine

of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons, Tucson, Arizona, February 1993.

58. "Postoperative Management and Hospital Course of Lumbar Spinal Fusion Patients," Fifth International Course on Segmental Spinal Reconstructive Surgery, Cleveland, OH, February 1993.

59. "Postsurgical Recurrent Disc Pathology," Fifth International Course on Segmental Spinal Reconstructive Surgery, Cleveland, OH, February 1993.

60. Myers, D.L., Davne, S.H.: "Prior Lumbar Surgery Response Correlated with Outcome of Lumbar Fusion," Poster Presentation at The American Association of Neurological Surgeons, Boston, MA, April 1993.

61. Myers, D.L., Davne, S.H.: "Reexploration of Pedicle Screw Instrumented Lumbar Spinal Fusion," The American Association of Neurological Surgeons, Boston, MA, April 1993.

62. "Techniques, Pitfalls, and Complications of Pedicle Screw Fixation in the Lumbar Spine," A Contemporary Update on Disorders of the Spine, Nashville, TN, April 1993.

CONTINUING MEDICAL EDUCATION:

Oct. 1975 American College of Surgeons, San Francisco, CA
April 1979 Prosthetics, New York University, New York, NY
March 1979 American Academy of Orthopaedic Surgeons, San Francisco, CA
March 1980 American Academy of Orthopaedic Surgeons
May 1980 AOA Residents Conference, Rochester, MN
May 1980 Spine and Upper Extremity Injuries in Sports, Kiawah Island, SC
March 1981 American Academy of Orthopaedic Surgeons
May 1981 Advanced Trauma Life Support Providers Course, Philadelphia, PA
April 1981 American Spinal Injury Association, New Orleans, LA
April 1982 American Spinal Injury Association, New York, NY
Sept. 1982 American Paraplegia Society, Las Vegas, NE
Nov. 1982 Jefferson Orthopaedic Society, Philadelphia, PA
April 1983 American Spinal Injury Association, Denver, CO
Oct. 1983 Eastern Orthopaedic Society
Nov. 1983 Jefferson Orthopaedic Society, Philadelphia, PA
Dec. 1983 Operative Treatment of Fractures and Non-Unions, Davos, Switzerland
Jan. 1984 Advanced Trauma Life Support Instructors Course, Philadelphia, PA
March 1984 American Association of Orthopaedic Surgeons, San Francisco, CA
June 1984 Southwestern Orthopaedic Surgery Review, Dallas, TX
June 1984 Maine Orthopaedic Review
June 1984 Orthopaedic Pathology, Biomechanics and Pediatric Orthopaedic Surgery, New York, NY

Oct. 1984 American College of Surgeons, San Francisco, CA
 Jan. 1985 American Academy of Orthopaedic Surgeons, Las Vegas, NE
 Jan. 1985 American College of Spinal Surgeons, Las Vegas, NE
 Nov. 1985 Jefferson Orthopaedic Society, Philadelphia, PA
 March 1986 American Academy of Orthopaedic Surgeons
 March 1986 Federation of Spine Associations
 May 1986 Plate Fixation of The Lumbar Spine, Cleveland, OH
 Oct. 1986 Eastern Orthopaedic Society, Bermuda
 Nov. 1986 Jefferson Orthopaedic Society, Philadelphia, PA
 July 1987 Third International PLIF Symposium, Cleveland, OH (21.5)
 Nov. 1987 Pennsylvania Orthopaedic Society, Philadelphia, PA
 Nov. 1987 Jefferson Orthopaedic Society, Philadelphia, PA (9)
 May 1988 Spinal Plate Workshop, Philadelphia, PA (10)
 July 1988 North American Spine Society, Colorado Springs, CO (12.5)
 July 1988 PLIF with Internal Fixation Symposium, Colorado Springs, CO (7)
 Nov. 1988 Jefferson Orthopaedic Society, Philadelphia, PA (9)
 Feb. 1989 American Academy of Orthopaedic Surgeons, Las Vegas, NE (32.5)
 March 1989 Surgical Care of the Lumbar Spine, Seattle, WA (10)
 April 1989 Japanese Orthopaedic Association, Tokyo, Japan
 April 1989 Japanese Scoliosis Society, Tokyo, Japan
 July 1989 North American Spine Society, Quebec, Canada (12.5)
 July 1989 Lumbar Interbody Fusion with Instrumentation Symposium, Quebec, Canada (7)
 Oct. 1989 Spinal Surgery Seminar, Philadelphia, PA (10)
 Nov. 1989 Jefferson Orthopaedic Society, Philadelphia, PA (9)
 Feb. 1990 Federation of Spine Associations, New Orleans, LA (8)
 March 1990 American Academy of Orthopaedic Surgeons, New Orleans, LA (34.5)
 Aug. 1990 North American Spine Society, Carmel, CA (15)
 Oct. 1990 Spinal Surgery Seminar, Baltimore, MD (10)
 Nov. 1990 Jefferson Orthopaedic Society, Philadelphia, PA (9)
 March 1991 American Academy of Orthopaedic Surgery, Anaheim, CA (34.5)
 March 1991 Federation of Spine Associates, Anaheim, CA (8)
 July 1991 North American Spine Society, Keystone, CO (15)
 Sept. 1991 ISOLA Spinal Implant: Principles and Practice, Secaucus, NJ (7)
 Nov. 1991 Fifth International Conference on Lumbar Fusion and Stabilization, Osaka, Japan (21)
 Feb. 1992 American Academy of Orthopaedic Surgery, Washington, DC (30.5)
 Feb. 1992 Federation of Spine Associates, Washington, DC (7.5)
 March 1992 A Contemporary Update on Disorders of the Spine, Nashville, TN (14.5)
 July 1992 North American Spine Society, Boston, MA (21)
 Nov. 1992 Jefferson Orthopaedic Society, Philadelphia, PA (11)
 Feb. 1993 Versatility in Spinal Instrumentation, San Francisco, CA (8)
 Feb. 1993 American Academy of Orthopaedic Surgeons, San Francisco, CA (30)
 Feb. 1993 The Fifth International Course on Segmental Spinal Reconstructive Surgery, Cleveland, OH
 March 1993 Spinal Fixation Symposium, Philadelphia, PA (8)

April 1993 A Contemporary Update on Disorders of the Spine, Nashville, TN (15)
July 1993 Controversies in Spine Surgery, Dearborn, MI (10)
Nov. 1993 Jefferson Orthopaedic Society, Philadelphia, PA (7)
Feb. 1994 American Academy of Orthopedic Surgeons, New Orleans, LA (30.5)
Feb. 1994 Federation of Spine Associations, New Orleans, LA (7)
Oct. 1994 North American Spine Society, Minneapolis, MN (20)
Nov. 1994 Arthroscopic Microdiscectomy of the Lumbar Spine, Phila., PA (16)
Nov. 1994 Jefferson Orthopaedic Society, Philadelphia, PA (8)
Feb. 1995 American Academy of Orthopaedic Surgeons, Orlando, FL (30.5)
Oct. 1995 North American Spine Society, Washington, DC (18.0)
Feb. 1996 American Academy of Orthopaedic Surgeons, Atlanta, GA (28.5)
Oct. 1996 North American Spine Society, Vancouver, BC, Canada (16)
Oct. 1997 North American Spine Society, New York, NY (29)
Feb. 1998 American Academy of Orthopaedic Surgeons, New Orleans, LA (26.5)
Oct. 1998 North American Spine Society, San Francisco, CA (21.65)
Oct. 1999 North American Spine Society, Chicago (24.5)
Oct. 2002 North American Spine Society, Montreal, Canada (30.25)
Oct. 2003 North American Spine Society, San Diego, CA (31)