

CURRICULUM VITAE

PERSONAL DATA

Name: **Paul C. McAfee, MD, MBA**

Address: Chief of Spine Surgery
Towson Orthopaedic Associates, P.A.
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Home Address: 521 Belfast Road
Sparks, Maryland 21152

Date of Birth: October 8, 1953; Baltimore, Maryland

Wife: Leah Beth McAfee, R.N. Neonatal I.C.U.

Children: John Patrick McAfee, 10-13-82
Jordan Paul McAfee, 9-6-85

EDUCATION

Business School: Executive MBA Program
Fordham University
Executive MBA
Business Management, 2010
Ranked #25 EMBA Program Globally--"Wall Street Journal" 2009
Beta Gamma Sigma MBA Honor Society
Phi Kappa Phi Business Management Honor Society
New York, New York
(August 2008- May 2010)

Fellowship: Spinal Reconstructive Surgery
Henry H. Bohlman, M.D., Chief, Division of Spinal Surgery, Case Western Reserve
University/University Hospitals
Cleveland, Ohio

(July 1983-June 1984)

- Residency: Orthopaedic Surgery
State University of New York
Upstate Medical Center
Syracuse, New York
Chairman, David G. Murray, M.D.
(President, American Academy of Orthopaedic Surgeons)
(July, 1979 -June, 1983)
- Internship: Department of General Surgery
University of Virginia
Charlottesville, Virginia
Chairman, William H. Muller, M.D. (President, American College of Surgeons)
(July 1978 - June 1979)
- Externship: Toronto Hospital for Sick Children
Toronto, Canada.
Preceptor, Walter Bobechko, M.D.
(April 1978 - June 1978)
- Medical School: State University of New York
Upstate Medical Center, Syracuse, NY
Doctor of Medicine
(September 1974 - June 1978)
- Undergraduate: University of Rochester
Rochester, New York
BA with Distinction, June 1975
Senior year in absentia (participated in an accelerated program that allowed matriculation to medical school one year early)
- High School: Jamesville-DeWitt High School
DeWitt, New York
Received diploma June, 1971.
Scholarship winner in National Honor Society

SPECIALTY BOARDS

American Board of Orthopaedic Surgery Certification

July 26, 1986

Recertification 1996

Recertification 2006 – date of most recent recertification is 1/1/2007 through 12/31/2016

SPECIALTY BOARD EXAMINER

Oral Examiner

American Board of Orthopaedic Surgery

July 1998 to present

ACADEMIC APPOINTMENTS

Chief, Spinal Reconstructive Surgery

St. Josephs Hospital

Towson, Maryland

(March 1, 1989 - present)

Associate Professor, Department of Orthopedic Surgery

The Johns Hopkins Hospital and Johns Hopkins University School of Medicine

Courtesy Clinical Staff

(March 31, 1988 - present)

Chief, Spinal Reconstructive Surgery Service

The Johns Hopkins Hospital and Johns Hopkins University School of Medicine

(July 1, 1984 - March 1, 1989)

Assistant Professor, Department of Orthopaedic Surgery

The Johns Hopkins Hospital and Johns Hopkins University School of Medicine

(July 1, 1984 - March 31, 1988)

Assistant Professor, Department of Neurological Surgery

The Johns Hopkins Hospital and Johns Hopkins University School of Medicine

(July 1, 1984 - June 30, 1994)

SPECIAL NON-ACADEMIC ACHIEVEMENTS

Work/study program sponsored by Pebble Hill Presbyterian Church (Dewitt, New York) to
Dominica, British West Indies, (June - August, 1970).

Summer Service Scholarship Winner, United Presbyterian Church of the United States of
America (1972) to Wales, England, France, Switzerland.

Guest Speaker at the New Wilmington Missionary Conference

High School Varsity Football and Varsity Wrestling, University of Rochester, Varsity Lacrosse.

ACADEMIC SOCIETIES

2010 Summa Cum Laude
2010- Phi Kappa Phi MBA Honor Society
2010- Beta Gamma Sigma MBA Honor Society
Fordham EMBA Transnational Program
Lincoln Center Campus

American Academy of Orthopedic Surgeons
International Cervical Spine Research Society
Scoliosis Research Society
Orthopaedic Research Society
North American Spine Society
Spine Arthroplasty Society

National Committee

Committee on the Spine - American Academy of Orthopaedic Surgeons (June 24, 1992 - present)

EDITORIAL BOARDS OF JOURNALS

Spine
Journal of Spinal Disorders
The Spine Journal

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

1. McAfee, Paul C.; Ullrich, C.G.; Yuan, H.A.; Sherry, R.G.; and Lockwood, R.C.: Computed Tomography in Degenerative Spinal Stenosis. Clin Orthop 161:221-234, November/December, 1981.
2. McAfee, Paul C.; and Yuan, H.A.: Computed Tomography in Spondylolisthesis. Clin Orthop 166:62-71, June, 1982.
3. McAfee, Paul C.; Yuan, H.A.; and Lasda, N.A.: The Unstable Burst Fracture. Spine 7:365-373, July/August, 1982.

4. McAfee, Paul C.; Ullrich, C.G.; Cacayorin, E.D.; Lockwood, R.C.; Levinsohn, E.M.; and Yuan, H.A.: Computed Tomography in Degenerative Lumbar Spinal Stenosis: The Value of Multiplanar Reconstruction. *Radiographics: The Official Journal of the Radiological Society of North America*, 2(4):529-551, 1982.
5. McAfee, Paul C.; Yuan, H.A.; Fredrickson, B.E.; Lubicky, J.P.: The Value of Computed Tomography in the Thoracolumbar Fractures, An Analysis of 100 Consecutive Cases and a New Classification. *J Bone Joint Surg [Am]* 65(4):461-473, April, 1983.
6. McAfee, Paul C.; Lubicky, J.P.; and Werner, F.W.: The Use of Segmental Spinal Instrumentation to Preserve Longitudinal Spinal Growth: An Experimental Model. *J Bone Joint Surg [Am]* 65(7):935-942, September, 1983.
7. McAfee, Paul C., and Cady, R.B.: Endocrinologic and Metabolic Factors in Atypical Presentations of Slipped Capital Femoral Epiphysis: Report of Four Cases and Review of the Literature. *Clin Orthop* 180:188-197, November, 1983.
8. McAfee, Paul C.: Consulting Orthopaedist: Fracture-Dislocation of the Cervical Spine with Incomplete Quadriplegia. *Orthopaedic Consultation* 5(6):1-10, July, 1984.
9. McAfee, Paul C.; Werner, F.W.; and Glisson, D.A.: Biomechanical Analysis of Spinal Instrumentation Systems in Thoracolumbar Fractures - A Comparison of Traditional Harrington Distraction Instrumentation with Segmental Spinal Instrumentation. *Spine* 10(3):204-217, 1985.
10. McAfee, Paul C.; Bohlman, H.B.; and Yuan, H.A.: Anterior Decompression of Traumatic Thoracolumbar Fractures with Incomplete Neural Deficit Using a Retroperitoneal Approach. *J Bone Joint Surg [Am]* 67-A(1):89-104, January, 1985.
11. McAfee, Paul C.: Biomechanical Approach to Instrumentation of Thoracolumbar Spine: A Review Article. *Advances in Orthopaedic Surgery* 8(5):313-327, March/April, 1985.
12. McAfee, Paul C., and Bohlman, H.H.: Complications of Harrington Instrumentation for Fractures of the Thoracolumbar Spine. *J Bone Joint Surg [Am]* 67-A(5):672-686, June, 1985.
13. Bohlman, H.H.; Heller, John; and McAfee, Paul C.: One Stage Transperitoneal Anterior Reduction, Fibular Transfixion and Iliac Fusion for Salvage of Progressive Iatrogenic Spondylolisthesis. *J Bone Joint Surg [Am]* .
14. McAfee, Paul C.; Bohlman, H.H.; Han, J.S.; and Salvagno, R.T.: Comparison of Magnetic Resonance Imaging and Computed Tomography in the Diagnosis of Upper Cervical Spinal Cord Compression. *Spine*, 11:295-304, 1986.
15. Carroll, C.C., McAfee, Paul C., and Riley, L. H.: Objective Findings for Making the Diagnosis of Whiplash Injuries. *J Musculoskeletal Med* 3:57-76, 1986.

16. Pattee, G.A.; Bohlman, H.H.; and McAfee, Paul C.: Compression of a Sacral Nerve as a Complication of Screw Fixation of the Sacro-Iliac Joint. J Bone Joint Surg [Am] 68-A:769-711, June, 1986.
17. McAfee, Paul C.; Bohlman, H.H.; Ducker, D.; and Eismont, F.J.: Failure of Methylmethacrylate in Spinal Stabilization. An Analysis of 24 Cases. J Bone Joint Surg [Am] 68-A:1145-1157, 1986.
18. Regan, J.J.; McAfee, Paul C.; and Achuff, S.C.: The Induction of Cardiac Arrhythmia and Hypotension from Spinal Cord Monitoring. Spine, 11:1301, 1986
19. Zinreich SJ, Rosenbaum AE, Wang H, Quinn CB, Townsend TR, Kim WS, Ahn HS, Rybock JD, McAfee, Paul C, Long DM: The critical role of 3-D CT reconstructions for defining spinal disease. Acta Radiol Suppl 369:699-702.:699-702, 1986.
20. McAfee, Paul C.: Thoracolumbar Spine - Reconstruction. American Academy of Orthopaedic Surgeons. Orthopaedics Knowledge Update 2:303-311, 1987.
21. McAfee, Paul C.; Regan, J.J.; and Bohlman, H.H.: Cervical Spinal Cord Compression from Ossification of the Posterior Longitudinal Ligament in Non-Orientals. J Bone Joint Surg [Br] 69-B:569-575, August, 1987.
22. Nachlas, N.E., McAfee, Paul C., and Johns, M.E.: Anterior Extraoral Approach to the Atlas and Axis. Laryngoscope 97:814-819, 1987.
23. McAfee, Paul C.; Bohlman, H.H.; Riley, L.H., Jr.; Robinson, R.A.; and Nachlas, N.E.: Anterior Retropharyngeal Approach to the Upper Cervical Spine (Clivus to C-2). The Evolution of the Procedure at The Johns Hopkins Hospital Representing a Twenty-Five Year Experience. J Bone Joint Surg 69-A:1371-1383, December 1987.
24. Mandelbaum, B.R.; Tolo, V.T.; McAfee, Paul C.; and Buresh, P.: Nutritional Deficiencies After Staged Anterior and Posterior Spinal Reconstructive Surgery. Clin Orthop 234:5-11, 1988.
25. Jones, A.A.; McAfee, Paul C.; Robinson, R.A.; Wang, H.; and Zinreich, S.J.: Failed Arthrodesis of the Spine for Severe Spondylolisthesis. Salvage by Interbody Arthrodesis. J Bone Joint Surg [Am] 70-A:25-30, January 1988.
26. Gurr, K.R.; McAfee, Paul C.; and Shih, C.M.: Biomechanical Analysis of Posterior Instrumentation Systems Following Decompressive Laminectomy. An Unstable Calf Spine Model. J Bone Joint Surg [Am] 70-A:680-691, June 1988.
27. Gurr, K.R.; McAfee, Paul C.; Shih, C.-M.: Biomechanical Analysis of Anterior and Posterior Instrumentation Systems following Corpectomy. A Calf Spine Model. J Bone Joint Surg [Am] 70-A:1182-1191, September 1988.

28. Sutterlin, C.E., McAfee, Paul C., Warden, K.E., Rey, R.M., and Farey, I.D.: A Biomechanical Evaluation of Cervical Spinal Stabilization Methods in a Bovine Model: Static and Cyclical Loading. *Spine*, 13:795-802, 1988.
29. Chang, K.W.; Dewei, Z.; McAfee, Paul C.; Warden K.E.; Farey, I.D.; Gurr, K.R.: A comparative biomechanical study of spinal fixation using the combination spinal rod-plate and transpedicular screw fixation system. *J Spinal Disord* 1:257-266, 1988.
30. McAfee, Paul C., Regan, J.J., Farey, I.D., Gurr, K.G., and Warden, K.E.: The Biomechanical and Histomorphometric Properties of Anterior Lumbar Fusions. A Canine Model. *J Spinal Disorders* 1:101-110, 1988.
31. McAfee, Paul C.: Discussion of Cervical Spondylitic Myelopathy. *J Spinal Disorders* 1:97, 1988.
32. Chang, K.-W., and McAfee, Paul C.: Degenerative Spondylolisthesis and Degenerative Scoliosis Treated with a Combination Segmental Rod-Plate and Transpedicular Screw Instrumentation System. A Preliminary Report. *J Spinal Disorders* 1:247-256, 1988.
33. Gurr, K.R. and McAfee, Paul C.: Cotrel-Dubousset Instrumentation in Adults. A Preliminary Report. *Spine* 13:510-520, 1988.
34. Chang, K.-W., and McAfee, Paul C.: A Combination Segmental Spinal Rod-Plate Transpedicular Screw Instrumentation System for Unstable Thoracolumbar Fractures. A Preliminary Report *Spine*.
35. Gurr, K.R., McAfee, Paul C., Warden, K.E., and Shih, C.-M.: A Roentgenographic and Biomechanical Analysis of Lumbar Fusions. A Canine Model. Part I. *J Orthop Res* 7:838-848, 1989.
36. McAfee, Paul C., and Bohlman, H.H.: Combined Anterior Decompression and Posterior Stabilization with Circumferential Spinal Fusion. An Analysis of Twenty-Four Cases. *J Bone Joint Surg* 71A: 78-88, January 1989.
37. Farey, I.D., McAfee, Paul C., Gurr, K.R., and Randolph, M.S.: A Quantitative Histologic Study of the Influence of Spinal Instrumentation on Lumbar Fusions. A Canine Model. Part II. *J Orthop Res* 7:709-722, 1989.
38. Ashman, R.B., Bechtold, J.E., Edwards, W.T., Johnston, C.E., McAfee, Paul C., and Tencer, A.F.: *In Vitro* Spine Implant Mechanical Testing Protocol. *J Spinal Disorders* 2:274-281, 1989.
39. Coe, J.D., Becker, P.S., McAfee, Paul C., and Gurr, K.R.: Neuropathological Changes with Spinal Instrumentation. A Canine Model. Part III. *J Orthop Res* 7: 359-370, 1989.

40. Rauschwing, W., McAfee, Paul C., and Jonsson H. Pathoanatomical and Surgical findings in Cervical Spinal Injuries. *J Spinal Disorders* 2: 213-222, 1989.
41. McAfee, Paul C.: Symposium: Spinal Instrumentation and the FDA. Introduction. *J Spinal Disorders* 2: 272-273, 1989.
42. Whitehill, R.: Laboratory Evaluations of Cervical Internal Fixation Devices: In Vivo Testing. Edited by McAfee, Paul C., in *Spinal Instrumentation and the FDA. J Spinal Disorders* 2: 272-273, 1989.
43. Whitecloud, T.S.: Clinical Trials for Spinal Implants. Edited by McAfee, Paul C. in *Spinal Instrumentation and the FDA. J Spinal Disorders* 2: 272-273, 1989.
44. Callahan, T.J.: The Process of FDA Approval of a Spinal Implant: Governmental Perspective. Edited by McAfee, Paul C. in *Spinal Instrumentation and the FDA. J Spinal Disorders* 2: 288-291, 1989.
45. Buckman, P.M.: Spine Instrumentation and the FDA: What Spine Surgeons Should Know. Edited by McAfee, Paul C. in *Spinal Instrumentation and the FDA. J Spinal Disorders* 2: 292-295, 1989.
46. Wagner, E.J.: Developing New Instrumentation: A Business View. Edited by McAfee, Paul C. in *Spinal Instrumentation and the FDA. J Spinal Disorders* 2: 296-300, 1989.
47. McAfee, Paul C., Farey I.D., Sutterlin, C.E., Gurr, K.R., Warden K.E., and Cunningham, B.W.: 1989 Volvo Award in Basic Science. Device-Related Osteoporosis with Spinal Instrumentation. *Spine* 14:919-926, 1989.
48. McAfee, Paul C., and Zdeblick, T.A.: Tumors of the Thoracic and Lumbar Spine: Surgical Treatment via the Anterior Approach. *J Spinal Disorders* 2: 145-154, 1989.
49. Coe, J.D., Warden, K.E., Sutterlin, C.E., and McAfee, Paul C.: Biomechanical Evaluation of Cervical Spinal Stabilization Methods in A Human Cadaveric Model. *Spine* 14: 1122-1131, 1989.
50. Farey ID, McAfee, Paul C., Davis RF, Long DM: Pseudarthrosis of the cervical spine after anterior arthrodesis. Treatment by posterior nerve-root decompression, stabilization, and arthrodesis. *J Bone Joint Surg Am* 72:1171-1177, 1990.
51. Coe, J.D., Warden, K.E., Herzig, M.A., and McAfee, Paul C.: Influence of Bone Minimal Density on the Fixation of Thoracolumbar Implants: A Comparative Study of Transpedicular Screws, Laminar Hooks, and Spinous Process Wires. *Spine* 15:902-906, 1990.
52. Zinreich, S.J.; Long, D.M.; Davis, R.; Quinn,C.B.; McAfee, Paul C.; Wang, H.: 3-D Imaging in the Post-Surgical "failed back" Syndrome. *J. Comput Assist Tomog* 14:574-580, 1990.

53. McAfee, Paul C.; Cassidy, J.R.; Davis, R.F., North, R.B, and Ducker, T.B.: Fusion of The Occiput to The Upper Cervical Spine: A Review of 37 Cases. Spine 16:S490-S494, 1991.
54. Weiland, D.J., and McAfee, Paul C.: Posterior Cervical Fusion with Triple Wire Strut Graft Technique: One Hundred Consecutive Patients. J Spinal Disorders 4:15-21, 1991.
55. Zdeblick, T.A., Becker, S., McAfee, Paul C., Sutterlin, C.E., Coe, J.D., and Gurr, K.R.: Neuropathic Changes with Experimental Spine Instrumentation - Transpedicular versus Sublaminar Fixation. J. of Spinal Disorders 4:221-229, 1991.
56. McAfee, Paul C., Weiland, D., and Carlow, J.: Survivorship Analysis of Pedicle Spine Instrumentation. Spine 16:5422- 5427, 1991.
57. Zdeblick, T.A.; Shirado, O.; McAfee, Paul C.; DeGroot, H.; and Warden, K.: Anterior Spinal Fixation After Lumbar Corpectomy. A Study in Dogs. Journal Bone Joint Surg [Am] 73-A 527-534, 1991.
58. Ruland, C.M.; McAfee, Paul C.; Warden, K.E.; and Cunningham, B.: Triangulation of Pedicular Instrumentation: A Biomechanical Analysis. Spine 16:5270-5276, 1991.
59. Zdeblick, T.; Smith, G.S.; Warden, K.E.; and McAfee, Paul C.: Two-Point fixation of the Lumbar Spine: Differential Stability in Rotation. Spine 16:S298-S301, 1991.
60. McAfee, Paul C.; Farey, I; Sutterlin, C.; Gurr, K.R.; Warden, K.E.; and Cunningham, B.: The Effect of Spinal Implant Rigidity on Vertebral Bone Density: A Canine Model. Spine 16:S190-S197, 1991.
61. McCord, D.H., Cunningham, B.W., Shono, Y., Myers, J.J., and McAfee, Paul C.: Biomechanical Analysis of Lumbosacral Fixation. Spine 17:S235-S243, 1992.
62. North, R.B., LaRocca, R., North, C.A., Zahurak, M., Davis, R.F., and McAfee, Paul C.: Surgical Management of Spinal Metastasis. J Neurosurg
63. Shirato, O.; Zdeblick, T.A.; McAfee, Paul C.; Cunningham, B.; DeGroot, H.; and Warden, K: Quantitative Histologic Study of the Influence of Anterior Spinal Instruction and Biodegradable Polymer on Lumbar Interbody Fusion After Corpectomy. A Canine Model. Spine 17:795-803, 1992.
64. Shirado, O.; Kaneda, K.; Tadano, S.; Ishikawa, H; McAfee, Paul C.; Warden, K: Influence of Disk Degeneration on the Mechanism of Thoracolumbar Burst Fractures. Spine 17:286-292, 1992.
65. Fedder, I.L. and McAfee, Paul C.: Biomechanical Consideration of Spinal Surgery. Sem Spine Surg Vol 4 No.3, 136-141, 1992.

66. Shono Y, McAfee, Paul C, Cunningham BW, Brantigan JW: A biomechanical analysis of decompression and reconstruction methods in the cervical spine. Emphasis on a carbon-fiber-composite cage. *J Bone Joint Surg Am* 75:1674-1684, 1993.
67. Shono Y, McAfee, Paul C, Cunningham BW: The pathomechanics of compression injuries in the cervical spine. Nondestructive and destructive investigative methods. *Spine* 18:2009-2019, 1993.
68. Cunningham BW, Seftor JC, Shono Y, McAfee, Paul C: Static and cyclical biomechanical analysis of pedicle screw spinal constructs. *Spine* 18:1677-1688, 1993.
69. Brantigan JW, Cunningham BW, Warden K, McAfee, Paul C, Steffee AD: Compression strength of donor bone for posterior lumbar interbody fusion. *Spine* 18:1213-1221, 1993.
70. Zdeblick TA, Warden KE, Zou D, McAfee, Paul C, Abitbol JJ: Anterior spinal fixators. A biomechanical in vitro study. *Spine* 18:513-517, 1993.
71. Brantigan, J.W.; McAfee, Paul C.; Cunningham, B.W.; Wang, H.; Orbegoso, C.M.: Interbody Lumbar Fusion Using a Carbon Fiber Cage Implant Versus Allograft Bone. An Investigational Study in the Spanish Goat. *Spine* 19:1436-1444, 1994.
72. McAfee, Paul C.: Complications of Anterior Approaches to the Thoracolumbar Spine. Emphasis on Kaneda Instrumentation. *Clin Orthop* 306:110-119, 1994.
73. Shono, Y.; McAfee, Paul C.; and Cunningham, B.: Experimental Study of Thoracolumbar Burst Fractures: A Radiographic and Biomechanical Analysis of Anterior and Posterior Instrumentation Systems. *Spine* 19: 1711-1722, 1994.
74. Kotani, Y.; Cunningham, B.W.; Abumi, K. and McAfee, Paul C.: Biomechanical Analysis of Cervical Stabilization Systems: An Assessment of Transpedicular Screw Fixation in the Cervical Spine. *Spine* 19: 2529-2539, 1994.
75. Seftor, J. and McAfee, Paul C.: Salvage Spinal Surgery For Spinal Stenosis. *Sem Spine Surg* 6: 146-156, 1994.
76. McAfee, Paul C.; Bohlman, H.H.; Ducker, T.B.; Zeidman, S.M.; and Goldstein, J.A.: One-Stage Anterior Cervical Decompression and Posterior Stabilization. A Study of 100 Patients with a minimum of two years of follow-up. *J. Bone Joint Surg [Am]* 77-A:1791-1800, 1995.
77. McAfee, Paul C.; Regan, J.J.; Zdeblick, T.; Zuckerman, J.; Picetti, G.D.; Heim, S.; Geis, W.P.; Fedder, I.A.: The Incidence of Complications in Endoscopic Spinal Reconstructive Surgery. A Prospective Multicenter Study Comprising the First 100 Consecutive Cases. *Spine* 20:1629-1632, 1995.
78. McAfee, Paul C.; Regan, J.J.; Fedder, I.L.; Mack, M.J.; and Geis, W.P.: Anterior Thoracic Corpectomy for Spinal Cord Decompression Performed Endoscopically. *Surg Laparoscopy Endoscopy* 5:339-348, 1995.

79. McAfee, Paul C.: Anterior Laparoscopic Lumbar Fusion. Orthopaedics Today February 1995.
80. Regan, J.J.; Ben-Yishay, A.; McAfee, Paul C. and Mack, M.J.: Video-Assisted Thoracoscopic Excision of Herniated Thoracic Disk: Description of Technique and Experience in the First 28 Cases. Spine.
81. Mack, M.J.; Regan, J.J.; McAfee, Paul C.; Picetti, G.; Ben-Yishay, A. and Acuff, T.E.: Video-Assisted Thoracic Surgery for the Anterior Approach to the thoracic Spine. Ann Thoracic Surg 59:110-1106, 1995.
82. Weis, J.C. and McAfee, Paul C.: Anterior Interbody Fusion. A Review Article. Spine.
83. Levine, A.M.; McAfee, Paul C. and Anderson, P.A.: Evaluation and Emergent Treatment of Patients with Thoracolumbar Trauma. American Academy of Orthopedic Surgeons. Instruct Course Lect 44: 33-46, 1995.
84. McAfee, Paul C.; Levine, A.M. and Anderson, P.A.: Surgical Management of Thoracolumbar Fractures. American Academy of Orthopedic Surgeons. Instruct Course Lect 44:47-56, 1995.
85. McAfee, Paul C.: Anterior Laparoscopic Lumbar Fusion. Orthopedics Today 15:10-14, 1995.
86. Parker, L.M.; McAfee, Paul C.; Fedder, I.L.; Weis, J.C.; and Geis, W.P.: Minimally Invasive Surgical Techniques to Treat Spine Infections. Orthop Clin N Am 27:183-200, 1996.
87. Goldstein, J.A. and McAfee, P.C.: Video-Assisted Thoracic Surgery of the Spine. Curr Opinion Orthop 7:54-60, 1996.
88. Goldstein, J.A. and McAfee, P.C.: Minimally Invasive Endoscopic Surgery of the Spine. Journal of the Southern Orthopaedic Association. 5:251-262, 1996.
89. Geis, W.P.; Kim, H.C.; McAfee, Paul C.; Kang, J.G. and Brennan, E.J.: Synergistic Benefits of Combined Technologies in Complex, Minimally Invasive Surgical Procedures. Clinical Experience and Educational Processes. Surg Endoscopy 10:1025-1028, 1996.
90. Parker, L.M.; McAfee, Paul C.; Fedder, I.L.; Weis, J.C. and Geis, W.P.: Minimally Invasive Surgical Techniques to Treat Spine Infections. Orthop Clin N Am 27: 183-199, 1996.
91. Regan, J.J.; McAfee, Paul C.; Guyer, R.D.; Aronoff, R.J.: Laparoscopic fusion of the lumbar spine in a multicenter series of the first 34 consecutive patients. Surg Laparosc Endosc 6:459-468, 1996.
92. Weis JC, Cunningham BW, Kanayama M, Parker L, McAfee, Paul C.: In vitro biomechanical comparison of multistrand cables with conventional cervical stabilization. Spine 21:2108-2114, 1996.

93. Kotani Y, Cunningham BW, Cappuccino A, Kaneda K, McAfee, Paul C: The role of spinal instrumentation in augmenting lumbar posterolateral fusion. *Spine* 21:278-287, 1996.
94. Geis WP, Kim HC, Brennan EJ, Jr., McAfee, Paul C, Wang Y: Robotic arm enhancement to accommodate improved efficiency and decreased resource utilization in complex minimally invasive surgical procedures. *Stud Health Technol Inform* 29:471-81.:471-481, 1996.
95. McAfee, Paul C, Bohlman HH, Ducker TB, Zeidman SM, Goldstein JA: One-stage anterior cervical decompression and posterior stabilization. A study of one hundred patients with a minimum of two years of follow-up. *J Bone Joint Surg Am* 77:1791-1800, 1995.
96. Goldstein, J.A.; Parker, L.M.; and McAfee, Paul C.: Minimally Invasive Endoscopic Surgery of the Lumbar Spine. *Op Techn Orthop* 7:27-35, 1997.
97. Kanayama, Masahiro; Cunningham, B.W.; Weis, J.C.; Parker, L.M.; Kaneda, K.; and McAfee, Paul C.: Maturation of the Posterolateral Spinal Fusion and Its Effect on Load-Sharing of Spinal Instrumentation. An In Vivo Sheep Model. *J Bone Joint Surg* 79-A: 1710-1720, 1997.
98. Cunningham, B.W.; Kotani, Y.; McNulty, P.S.; Cappuccino, A., and McAfee, Paul C.: The Effect of Spinal Destabilization and Instrumentation on Lumbar Interdiscal Pressure. An In vitro Biomechanical Analysis. *Spine* 22: 2655-2663, 1997.
99. Cunningham, B.W.; Kotani, Y., McNulty, P.S.; Cappuccino, A; Kanayama, M.; Fedder, I.L.; and McAfee, Paul C.: Video-Assisted Thoracoscopic Surgery Versus Open Thoracotomy for Anterior Thoracic Spinal Fusion. A Comparative Radiographic Biomechanical and Histologic Analysis in a Sheep Model. *Spine* 23:1333-1340, 1998.
100. Kanayama, M.; Cunningham, B.W.; Weis, J.C.; Parker, L.M.; Kaneda, K.; McAfee, Paul C.: The effects of rigid spinal instrumentation and solid bony fusion on spinal kinematics: a posterolateral spinal arthrodesis model. *Spine* 23:767-773, 1998.
101. Kotani, Y.; McNulty, P.S.; Abumi, K.; Cunningham, B.W.; Kaneda, K. and McAfee, Paul C.: The Role of Anteromedial Foramenotomy and the Uncovertebral Joints in the Stability of the Cervical Spine. A Biomechanical Study. *Spine* 23:1559-1565, 1998.
102. McAfee, Paul C.; Endoscopic Discectomy Increases Thoracic Spine Flexibility as Effectively as Open Discectomy: A Mechanical Study in a Porcine Model -- Point of View. *Spine* 23:15, 1998.
103. McAfee, Paul C.; Regan, J.J.; Geis, W.P.; and Fedder, I.L.: Minimally Invasive Anterior Retroperitoneal Approach to the Lumbar Spine: Emphasis on the Lateral BAK. *Spine* 23:1476-1484, 1998.
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RESEARCH GRANTS AND AWARDS

1991 North American Spine Society AcroMed Award For Spinal Research - Biomechanical Analysis of Lumbosacral Fixation.

1989 VOLVO AWARD for Spinal Research] Device-Related Osteoporosis with Spinal Instrumentation.

National Institutes of Health - National Institute of Arthritis and Musculoskeletal Diseases.

Principal Investigator: Paul C. McAfee, M.D.

F.I.R.S.T. Award = 1 R29 AR38489-01.

Project Title: "The Histomorphometry and Biomechanics of Spinal Instrumentation." Amount: \$345,000., Funding Period: May 1, 1987, to April 30, 1992.

Orthopedic Research and Education Fund
Principal Investigator: Paul C. McAfee, M.D.
Career Development Award
Amount: \$150,000
Funding Period: March 1, 1988, to February 28, 1991.

Johns Hopkins Institutional Grant
Principal Investigator: Paul C. McAfee, M.D.
Project Title: "Biomechanical Analysis of Posterior Instrumentation Systems following Decompressive Laminectomy. An Unstable Calf Spine Model."
Amount: \$10,000
Funding Period: April 1, 1987, to September 30, 1987.

Hendrick's Fund for Medical Research: State University of New York. Lubicky, J.P. and McAfee, Paul C. Project Title: The Effect of Luque Instrumentation on the Development of Spontaneous Spinal Fusions. Amount: \$8,600.

The Research Foundation of the State University of New York. Lubicky, J.P.; Spadero, J.A., and McAfee, Paul C. Project Title: Spinal Cord Monitoring System for Use in Spinal Surgery.
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Hendrick's Fund for Medical Research: State University of New York. Cady, R.B.; Spadero, J.A., and McAfee, Paul C. Project Title: Growth Plate Cartilage. Amount: \$8,800.

Keim Foundation Eastern Orthopaedic Association, SPINAL RESEARCH AWARD (October, 1981). McAfee, Paul C.; Yuan, H.A. and Lasda, N.A. Project Title: The Use of the Middle Osteoligamentous Column in the Classification of Unstable Thoracolumbar Fractures. Amount: \$5,000.

Eastern Orthopaedic Association, FOUNDER'S AWARD (October, 1981). McAfee, Paul C.; Yuan, H.A. and Lasda, N.A. Project Title: The Unstable Burst Fracture. Amount: \$1,300.

American Orthopaedic Association, NORTH AMERICAN TRAVELING FELLOWSHIP. (October, 1983). Amount: \$1,500, plus travel expenses.

Scoliosis Research Society, RUSSELL HIBBS AWARD. San Diego, California, (September, 1985). Project Title: Nutritional Deficiencies After Staged Anterior and Posterior Spinal Reconstructive Surgery.

Blaustein Spinal Research Award (July 1, 1986 to June 30, 1987). Project Title: The Histomorphometry of Spinal Instrumentation Techniques. Amount: \$35,000.

Blaustein Spinal Research Award (July 1, 1987 to June 30, 1987). Project Title: Dual Photon Absorptiometry of Spinal Fusions. Amount: \$35,000.

Glasser Fellowship for Spinal Surgery (November, 1986). Fellowship with Klaus Zielke, M.D., in Bad Wildungen, West Germany and Participation in the Fiftieth Anniversary Meeting of the German-Speaking World.

Japanese Orthopaedic Fellowship to Sapporo, Japan (July, 1987). Fellowship with Kiyoshi Kaneda. Memorial Lecturer at Fortieth Anniversary of the Founding of the Department of Orthopedic Surgery, Hokkaido University of Medicine, Sapporo, Japan.

Hokkaido University Fellowship (July 1997). Guest Lecturer at 50th Anniversary Meeting of the Japanese Orthopaedic Association.

Scoliosis Research Society, MOE Exhibit Award, New York City, New York (September 1998). Project Title: An In Vitro Study Investigating the Stability of Reconstruction Methods Following Total Spondylectomy.

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