

Curriculum Vitae

M. Darryl Antonacci, MD, FACS, FAAOS

SPECIALIZATION: Complex Reconstructive Spine Surgery
 Pediatric and Adult Scoliosis
 Minimally Invasive Spine Surgery

CURRENT POSITIONS:

1. Clinical Assistant Professor Orthopaedic Surgery, Mount Sinai School of Medicine, New York, NY, (2005-Present)
2. Attending, Dept. of Orthopaedic Surgery, University Hospital at Plainsboro, Princeton NJ, (2002-present)
3. Attending, Dept. of Orthopaedic Surgery, St. Peter's University Hospital, New Brunswick, NJ (2013-present)
4. Attending, Dept. of Orthopaedic Surgery, Lenox Hill Hospital, New York, NY (2002-present)
5. Associate, Dept. of Orthopaedic Surgery, Somerset Hospital, Somerville, NJ (2002-present)
6. Attending, Dept. of Orthopaedic Surgery, Cooper Hospital, Camden, NJ, (2008-present)

OFFICES:

New Jersey: Institute for Spine & Scoliosis, P.A., (2001-present)
 3100 Princeton Pike, Building 1-D
 Lawrenceville, N.J. 08648
 Tel (609) 912-1500
 Fax (609) 912-1600
 www.spineandscoliosis.com

New York: 800A Fifth Avenue @ 61st Street
 New York, NY 10065
 (Between 3rd & Lexington)
 Tel (800) 372-6001

HOSPITAL AFFILIATIONS:

1. Mount Sinai School of Medicine, New York, NY
2. University Medical Center at Plainsboro, Princeton, NJ
3. Saint Peter's University Hospital, New Brunswick, NJ
4. Lenox Hill Hospital, 77th & Park Avenue, New York, NY
5. Somerset Hospital, Somerville, NJ
6. Cooper University Hospital, Camden, NJ

FORMER POSITIONS:

Assistant Professor of Orthopaedic Surgery, 1999-2001
MCP-Hahnemann Univ. School of Medicine, Dept. of Orthopaedic Surgery, Philadelphia, PA, 1999-2001

Director, Spine Diagnostic & Treatment Center, 1999-2002
Graduate Hospital, Philadelphia, PA

Director, Acute Spine Injury Program, 2000-2001
Department of Orthopaedic Surgery, Hahnemann University Hospital, Philadelphia, PA

Consultant Attending Spine Surgeon, (2000-2014)
Shriners Hospital for Children, Philadelphia, PA

GENERAL EDUCATION:

High school:

- 1980-1984 The Hotchkiss School
Lakeville, Connecticut
First Honors
Award of Excellence in German, 1982, 1983
- 1983 Harvard University Summer Program
Elective coursework: National Security Studies; Computer Programming

UNDERGRADUATE EDUCATION:

- 1984-1988 Georgetown University, Washington, D.C.
Bachelor of Science in Biology
Cum Laude
- 1986-1987 Warwick University
Coventry, England
Elective coursework: Philosophy, Cognitive Psychology
Varsity Tennis
- 1985 Scuola per Stranieri Summer Program
Bagno di Romagna, Italy

GRADUATE EDUCATION:

- 1988-1992 Georgetown University School of Medicine
Doctor of Medicine
Cum Laude (rank: 14 of 200)
AOA Honors Society

POSTGRADUATE EDUCATION:

- Internship:* Department of General Surgery
Chairman: Michael E. DeBakey, M.D.
Baylor College of Medicine
Houston, Texas
July, 1992 - June, 1993
- Residency:* Department of Orthopaedic Surgery
Chairman: Hugh S. Tullos, M.D.
Baylor College of Medicine
Houston, Texas
July, 1993 - June, 1998
- Fellowship:* University of Miami Department of Orthopaedic Surgery and Rehabilitation,
Miami Project to Cure Paralysis
Fellow in Spine Surgery
Faculty: Frank J. Eismont, M.D., Mark D. Brown, M.D., Nathan Lebowhl, M.D., and Harry
L. Shufflebarger, M.D.
July 1, 1998 - August 31, 1999

AWARDS and HONORS:

- 1988 Georgetown University Bachelor of Science, Cum Laude
Dean's List (3 of 6 semesters), First Honors (1 of 6), Second Honors (1 of 6).
- 1991 **Georgetown University School of Medicine Research Award: \$1500**
Heterogeneity of Benzodiazepine Recognition Site Ligands.
- 1991 Alpha Omega Alpha Honor Society
- 1992 Georgetown University Medical School, Cum Laude, Rank: 14/200
- 1994 **Diplomate**, National Board of Medical Examiners
- 1994 Baylor College of Medicine, Department of Orthopaedic Surgery
Paul Harrington Award for Orthopaedic Research: \$1000
Age-related Changes in Vertebral Bone Density and Trabecular Architecture are Influenced by Degenerative Change and Osteoporosis.
- 1998 Baylor College of Medicine, Department of Orthopaedic Surgery
Paul Harrington Award for Orthopaedic Research: \$1000
Histology of Fractured Human Vertebral Bodies: Documentation of Intraosseous Nerves
- 2000 **Grant Recipient**, Cervical Spine Research Society: **\$30,000** for SCI research
- 2001 **Board Certified**, American Academy of Orthopaedic Surgery.
- 2001 **Russell Hibbs Basic Science Award**, Scoliosis Research Society, Cleveland
"Axonal Regeneration Using Transplants of Genetically Engineered Fibroblasts in Spinal Cord Injury"
- 2002 **American Spinal Injury Association Research Award: \$1000.00**, Vancouver, for SCI Research, First Place Paper.
- 2002 **Golden Stethoscope Award** – Most Dedicated Physician, Graduate Hospital, Philadelphia
- 2002 **Physician of the Year**—Orthopaedic Residency Award for Teaching, PCOM, Philadelphia
- 2003 **Fellow American Academy of Orthopaedic Surgery: FAAOS**
- 2003 **Elected Active Member**, Cervical Spine Research Society
- 2003 **SDEG Fellow**—Scoliosis Research Society- Spinal Deformity Education Group Fellowship
- 2003 **Grant Recipient**: Shriners Hospitals For Children: **\$25,000** for Spinal Cord Injury Research
- 2003 **Russell Hibbs Basic Science Award**, Scoliosis Research Society, Quebec,
"Human Marrow Stromal Cell Transplants In a Collagen Matrix Support Axonal Regeneration of Descending Pathways Across Complete Spinal Cord Transections"
- 2003 **Invited Speaker**, Spine Study Group 14th Annual Symposium, Palm Beach, FL
- 2003 **Invited Lecturer**, Shriners Hospitals for Children 3rd Howard H. Steel Conference on Pediatric Spinal Cord Injury, Orlando, FL

- 2004 **I Congreso Internacional de Cirugia de Columna Vertebral, Leon, Mexico**—Invited Guest Lecturer
- 2004 **Contemporary Topics in Pediatric Spinal Cord Injury, Shriners Hospital For Children**—Invited Lecturer.
- 2004 **Invited Faculty**, Spine Study Group 15th Annual Symposium, Palm Beach, FL
- 2005 **Elected Active Member**, Scoliosis Research Society.
- 2005 **Grant Recipient**: Shriners Hospital For Children: **\$150,000** for SCI Research
- 2005 **Top Physician**: Spine Surgery. Guide to America's Top Physicians. Consumers Research Council of America. Washington D.C.
- 2005 **Cervical Spine Research Society**, Nominated for best Paper Award.
- 2005 **Fellow American College of Surgeons**: FACS
- 2005 **Invited Faculty**, Spine Study Group 16th Annual Symposium, Palm Beach, FL
- 2006 **European Cervical Spine Research Society**: Invited Guest Speaker, Berlin, Germany
- 2006 **AO SPINE Europe**: Invited Guest Lecturer, Majorca, Spain.
- 2006 **Co-chair**, Precourse-*Spinal Cord Regeneration: Injury Modulation, Repair Strategies, and Clinical Trials*, 4th Howard H. Steel Conference on Pediatric Spinal Cord, Orlando, FL
- 2006 **Pitié-Salpêtrière Hospital, Dept. Orthopaedics**, Invited Guest Lecturer, Paris
- 2006 **Invited Faculty**, Advanced Spine Techniques, Depuy Spine Tutorial, Shriners Hospital for Children, Philadelphia, PA
- 2006 **Invited Faculty**, Minimally Invasive Course, Depuy Spine, New York, NY
- 2007 **Invited Faculty**, Spine Study Group 18th Annual Symposium, Palm Beach, FL
- 2007 **Invited Speaker**, European BIOSPINE II, Leipzig, Germany
- 2007 **Invited Faculty**, American Academy Orthopaedic Surgery, San Diego.
- 2008 **Invited Faculty**, Spine Study Group 19th Annual Symposium, Palm Beach, FL
- 2008 **Invited Presenter**, Int'l Congress, Scoliosis/Growing Spine, Montreal
- 2008 **Invited Presenter**, North American Spine Society, Toronto, Canada
- 2008 **Invited Presentation**, Scoliosis Research Society, Salt Lake City, Utah
- 2009 **Appointed Member**, Cervical Spine Research Society, Scientific Program Committee, 3 year term
- 2009 **Invited Moderator**, Cervical Spine Research Society, Salt Lake City, Utah
- 2010 **Invited Moderator**, Cervical Spine Research Society, Charlotte, North Carolina
- 2010 **Invited Presenter**, Cervical Spine Research Society, Charlotte, North Carolina

LICENSURE:

New Jersey MA69991
Pennsylvania MD-068-759L
New York 213845

Diplomat, National Board of Medical Examiners, 1994
Board Certified Orthopaedic Surgery—American Academy of Orthopaedic Surgery, 2012
Fellow American Academy of Orthopaedic Surgery, 2015
Fellow American Academy of Surgeons, 2015

EMPLOYMENT 1984-1992

1984 Computer programmer
 Surgical Immunology Laboratory: The New York Hospital-CUMC

1988-1990 Research
 Fidia-Georgetown Institute for the Neuroscience

1990-1992 Publications editor
 Fidia-Georgetown Institute for the Neurosciences

1990 Research

 Department of Anatomy and Cell Biology, Georgetown University:
 Histo-chemical staining of Acetylcholine receptors in rat CNS and in situ-hybridization
 techniques

ADDITIONAL TRAINING:

1. Complications and Revisions of Total Hip and Total Knee Replacements, St. Luke's Episcopal Hospital 30th Annual Orthopaedic Symposium, Houston, Texas, April, 1994
2. Arbeitsgemeinschaft für Osteosynthesfragen (AO), Basic Course, New York, NY, Aug., 1994
3. American Orthopaedic Foot and Ankle Society Review Course, Houston, Texas, Oct., 1994
4. Percutaneous Evaluation and Treatment of Spinal Pathology, St. Lukes Episcopal Hospital 31st Annual Orthopaedic Symposium, Houston, Texas, April, 1995
5. Ilizarov Essential Concepts and Methodology Course, St Louis, Missouri, Sept., 1995
6. Pediatric Orthopaedics: Current Perspectives, North Carolina, Oct., 1995
7. Update in Shoulder and Elbow Surgery, The Edward T. Smith Lectureship, The University of Texas-Houston Medical School, Nov., 1995
8. Treatment of Hip and Knee Arthritis in the Young Adult, St Luke's Episcopal Hospital 32nd Annual Orthopaedic Symposium, Houston, Texas, April, 1996
9. Zimmer Resident Program, Chicago, Illinois, Aug., 1996
10. Orthopaedic Elective, Università degli studi di Verona, Istituto Di Clinica Ortopedica e Traumatologica, Italy: Prof. Pietro Bartolozzi, M.D., and Rizzoli Institute of Orthopaedics, Bologna, Italy: Prof. Pier G. Marchetti, M.D., May, 1997

11. XX Congresso Nazionale G.I.S. Societa' Italiana Di Patologia Vertebrale. Il Trattamento Chirurgico Precoce Della Scoliosi Idiopatica e Congenita; Rivalutazione Dell'Esame Clinico e Radiographico Nei Traumi Vertebrali. Rapallo, Italy. June, 1997
12. International Congress of Orthopaedics and Traumatology, Torino, Italy, June, 1997
13. 4th International Meeting on Advanced Spine Techniques, Scoliosis Research Society. July, 1997
14. Scoliosis Research Society 32nd Annual Meeting, St. Louis, Missouri, Sept., 1997
15. Cervical Spine Research Society, Rancho Mirage, CA, Dec., 1997
16. North American Spine Society, 1994, 1996, 1997, 1998
17. OLC course: Advanced Techniques in Spine Surgery, Nov., 1998
18. Cervical Spine Research Society, Dec., 1998
19. Scoliosis Research Society 34th Annual Meeting, Sept., 1999
20. North American Spine Society, Chicago, IL, Oct., 1999
21. Cervical Spine Research Society, Seattle, WA, Dec., 1999
22. Scoliosis Research Society 35th Annual Meeting, Cairns, Australia, Oct., 2000
23. Cervical Spine Research Society, Charleston, NC, Nov., 2000
24. Scoliosis Research Society 36th Annual Meeting, Cleveland, OH, Sept., 2001
25. Cervical Spine Research Society, Monterey, CA, Nov., 2001
26. American Academy of Surgeons, Dallas, TX, Feb., 2002
27. Spine Summit Meeting, Colorado, March, 2002
28. The Spine Study Group 13th Annual Symposium, Palm Beach, FL April, 2002
29. American Spinal Injury Association, Vancouver, CA, May, 2002
30. Scoliosis Research Society 37th Annual Meeting, Seattle, WA, Sept., 2002.
31. Cervical Spine Research Society, Miami, FL, Dec., 2002
32. American Academy of Surgeons, New Orleans, LA, Feb., 2003
33. Scoliosis Research Society Tutorial: Johns Hopkins, Adult Scoliosis/John Kostuik, March, 2003
34. SDEG Fellowship Tutorial, SRS, Tucson Arizona, May, 2003
35. The Spine Study Group 14th Annual Symposium, Palm Beach, FL, 2003
36. Scoliosis Research Society 38th Annual Meeting, Quebec, Canada, Sept., 2003
37. Shriners Hospitals for Children 3rd Howard H. Steel Conference on Pediatric Spinal Cord Injury, Orlando, FL, Dec., 2003

38. Cervical Spine Research Society, Scottsdale, Arizona, Dec., 2003
39. SDEG Visiting Fellowship, Texas Scottish Rite Hospital, Dec., 2003
40. The Spine Study Group 15th Annual Symposium, Palm Beach, FL 2004
41. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, 2004
42. I Congreso Internacional de Cirugia de Columna Vertebral, Leon, Mexico, Sept., 2004
43. Contemporary Topics in Pediatric Spinal Cord Injury, Shriners Hospital For Children, Philadelphia, PA, Oct., 2004
44. Cervical Spine Research Society, Boston, MA, 2004
45. Charite Total Disk Replacement Certification, Dec. 2004
46. The Spine Study Group 16th Annual Symposium, Palm Beach, Florida, June, 2005
47. Scoliosis Research Society 40th Annual Meeting, Miami, FL, Sept 2005
48. Cervical Spine Research Society, San Diego, CA, Dec. 2005.
49. Masters Deformity Summit, Depuy, Miami, FL, April, 2006
50. One week visitation, Professor Harms, Karlsbad, Germany, May 2006
51. European Cervical Spine Research Society, Berlin, Germany, May 2006
52. Depuy Spine, Minimally Invasive Course, New York, NY, June, 2006
53. AO Spine Europe, Majorca, Spain, Sept., 2006
54. Depuy Spine, Advanced Spine Techniques, Shriners Hospital for Children, Philadelphia, PA, Oct., 2006.
55. Precourse-*Spinal Cord Regeneration: Injury Modulation, Repair Strategies, and Clinical Trials*, 4th Howard H. Steel Conference on Pediatric Spinal Cord Injury, Orlando, FL, Nov., 2006
56. American Academy of Surgeons, San Diego, CA, Feb., 2007
57. European Biospine II Congress, Leipzig, Germany, Sept., 2007
58. The Spine Study Group 18th Annual Symposium, Palm Beach, FL, May, 2007
59. The Spine Study Group 19th Annual Symposium, Palm Beach, FL, May, 2008
60. The Scoliosis Research Society 15th International Meeting on Advanced Spine Techniques, Hong Kong, China, July, 2008
61. Scoliosis Research Society and AAOS Course: Current Trends and Treatment Methods in Pediatric and Adult Spinal Deformity, Dallas, TX, May 2008
62. Int'l Congress, Scoliosis/Growing Spine, Montreal, 2008
63. North American Spine Society, Toronto, Canada, 2008

64. Scoliosis Research Society 43rd Annual Meeting, Salt Lake City, Utah, Sept., 2008
65. Cervical Spine Research Society 37th Annual Meeting, Salt Lake City, Utah, Dec., 2009
66. 17th IMAST International Meeting, Toronto, Canada, July 2010
67. 45th Annual IMAST Meeting, Kyoto, Japan, Sept., 2010
68. Cervical Spine Research Society 38th Annual Meeting, Charlotte, North Carolina, Dec., 2010
69. Pediatric Spine Deformity: On the Cutting Edge, Coral Gables, FL, April 2011
70. Scoliosis Research Society 46th Annual Meeting, Louisville, KY, Sept., 2011
71. Cervical Spine Research Society 39th Annual Meeting, Scottsdale, AZ, Dec., 2011
72. Scoliosis Research Society 47th Annual Meeting, Chicago, IL, Sept., 2012
73. Cervical Spine Research Society 40th Annual Meeting, Chicago, IL, Dec., 2012
74. Scoliosis Research Society 48th Annual Meeting, Lyon, France, Sept. 2013
75. Cervical Spine Research Society 41st Annual Meeting, Orlando, FL, Dec. 2014
76. Scoliosis Research Society 50th Annual Meeting, Minneapolis, MN, Sept. 2015
77. Cervical Spine Research Society 43rd Annual Meeting, San Diego, CA, Dec. 2015
78. Cervical Spine Research Society 44th Annual Meeting, Toronto, Ontario, Canada, Dec. 2016
79. Pediatric Spinal Deformity: On the Cutting Edge, Coral Gables, FL, March 2017
80. Scoliosis Research Society 52nd Annual Meeting, Philadelphia, PA, Sept. 2017

SOCIETY MEMBERSHIPS:

Alpha Omega Alpha Medical Honor Society
American Academy of Orthopaedic Surgery
Scoliosis Research Society
Cervical Spine Research Society
American Spinal Injury Association
American Medical Association
New Jersey Medical Society
National Board of Medical Examiners
American Academy of Surgery

ABSTRACTS AND PRESENTATIONS:

1. Schlichting, J.L., Massotti, M., **Antonacci, M.D.**, Guidotti, A., *Differences in the Pharmacological Profiles of Benzodiazepine Recognition Site Ligands Reflect Interactions with Heterogeneous Population of GABA_A Receptors*. Society for Neuroscience Annual Meeting, 1989
2. **Antonacci, M.D.**, Noble, P.C., Tullos, H.S., *Sub-regional Cancellous Bone Loss in the Proximal Femur as a Predictor of Fracture Risk*. The American Orthopaedic Association's 27th Annual Residents' Conference, Atlanta, Georgia, March 1994
3. **Antonacci, M.D.**, Mody, D.R., Hanson, D.S., Heggeness, M.H., *Age-related Changes in Vertebral Bone Density and Trabecular Architecture are Influenced by Degenerative Change and Osteoporosis*. Grand Rounds Presentation for the Department of Orthopaedic Surgery, Baylor College of Medicine, Houston, TX, Aug., 1994
4. **Antonacci, M.D.**, Joshi, A.B., Hanson, D., Tullos, H.S., *The Trabecular Architecture of the Patella: Implications for Design and Fixation*. The American Association of Hip and Knee Surgeons 4th Annual Fall Meeting, Washington, D.C., Sept., 1994.
5. **Antonacci, M.D.**, Mody, D.R., Heggeness, M.H., *A Histologic Study of the Human Vertebral Body*. North American Spine Society 9th Annual Conference, Minneapolis, MN, Oct., 1994
6. Hanson, D.S., **Antonacci, M.D.**, Mody, D.R., Heggeness, M.H., *A Histologic Study of the Vertebral Endplate*. North American Spine Society 9th Annual Conference, Minneapolis, Minnesota, Oct., 1994
7. **Antonacci, M.D.**, Mody, D.R., Hanson, D.S., and Heggeness, M.H.: *Age-related Changes in Vertebral Bone Density and Trabecular Architecture are Influenced by Degenerative Change*. (Poster Exhibit). American Academy of Orthopaedic Surgeons 62nd Annual Meeting, Feb., 16-21, 1995, Orlando, Florida.
8. **Antonacci, M.D.**, Hanson, D.S., and Heggeness, M.H. *Pitfalls in the Use of Bone Mineral Density Measurements by Dual Energy X-Ray Absorptiometry*. (Poster Exhibit). American Academy of Orthopaedic Surgeons 62nd Annual Meeting, Feb., 16-21, 1995, Orlando, Florida.
9. **Antonacci, M.D.**, *Biology of Fracture Repair, A Symposium*, Wyeth-Ayerst Orthopaedic Resident Reporter Program, AAOS, February 16-21, 1995, Orlando, Florida.
10. **Antonacci, M.D.**, Mody, D.R., Hanson, D.S., Heggeness, M.H., *Age-related Changes in Vertebral Bone Density and Trabecular Architecture are Influenced by Degenerative Changes*. Mid-America Orthopaedic Association Thirteenth Annual Meeting, Palm Beach, FL, April, 1995
11. **Antonacci, M.D.**, Mody, D.R., and Heggeness, M.H.: *A Histologic Study of the Effects of Degenerative Change and Osteoporosis on the Vertebral Body*. Grand Rounds Presentation for the Department of Internal Medicine and Rheumatology at the Houston Veterans Affairs Medical Center, Aug., 14, 1995.
12. **Antonacci, M.D.**, Feinstein, W.K., Diliberti, T.C., and Landon, G.C.: *Hip Dislocation Following Total Hip Arthroplasty*. Grand Rounds Presentation for the Department of Orthopaedic Surgery, Baylor College of Medicine, Feb., 1996.
13. Noble, P.C., Elliot, A., **Antonacci, M.D.**, and Tullos, H.S.: *The Effect of Osteoporosis on the Cancellous Bone Distribution of the Proximal Tibia*. The American Association of Hip and Knee Surgeons 6th Annual Fall Meeting, Nov. 10, 1996, Dallas, TX.
14. **Antonacci, M.D.**, Rutz, K., Mody, D.R., Weilbacher, D.G., and Heggeness, M.H.: *A Histologic Study of Fractured Human Vertebral Bodies*. North American Spine Society 11th Annual Conference, October 23-26, 1996, Vancouver, Canada.

15. **Antonacci, M.D.**, Hanson, D.S., and Heggeness, M.H.: *Regional Variation in Vertebral Bone Density and Trabecular Architecture are Influenced by Degenerative Change and Osteoporosis*. North American Spine Society, 12th Annual Meeting, October, 1997, New York City, New York.
16. **Antonacci, M.D.**, Mody, D.R., and Heggeness, M.H.: *Histology of Human Vertebrae: Documentation of Intraosseous Nerves*. North American Spine Society, 13th Annual Meeting, Oct. 28-31, 1998, San Francisco, CA.
17. **Antonacci, M.D.**, and Heggeness, M.H.: *Osteonecrosis and Osteoporotic Compression Fractures*. North American Spine Society, 13th Annual Meeting, Oct. 28-31, 1998, San Francisco, CA.
18. **Antonacci, M.D.** *Lumbar Radiculopathy*, Medicine Grand Rounds, MCPHU, Dec., 1999
19. **Antonacci, M.D.** *Update on Lumbar Disorders*, Neurology Grand Rounds, MCPHU, Dec., 1999
20. **Antonacci, M.D.** Program Director: *Update on the Management of Spinal Disorders*, Jan. 29th, 2000. Speakers: Joseph Torg, M.D., Peter Pizzutillo, M.D., Darryl Antonacci, M.D., Robert Corba, D.O, and Steve Yokum, D.O.
21. **Antonacci, M.D.**: *Cervical Radiculopathy and Myelopathy*, General Surgery Grand Rounds, March 14th, 2000; MCP-Hahnemann School of Medicine.
22. **Antonacci, M.D.**: *Cervical Myelopathy and Surgical Approaches*, Dept. of Neuroanatomy- Spinal Cord Injury Research Center, MCP-Hahnemann School of Medicine, April 7th, 2000.
23. **Antonacci, M.D.**: *Role of Transplanted Grafts in Spinal Cord Injury Recovery*, Symposium: Spine in the New Millennium May 5th, 2000. Program Director: Parviz Kambin, M.D., Graduate Hospital, Philadelphia, PA.
24. **Antonacci, M.D.**: *Surgical Treatment of Cervical Myelopathy and Radiculopathy*, MCP-Hahnemann University School of Medicine, Dept. of Neurology Grand Rounds, June 23rd, 2000. Hahnemann University Hospital, Philadelphia, PA.
25. **Antonacci, M.D.**: *Surgical Treatment of Cervical Myelopathy and Radiculopathy*, Dept. of Surgery Grand Rounds, Oct 28, 2000. Graduate Hospital, Philadelphia, PA.
26. **Antonacci, M.D.**: *Surgical Treatment of Cervical Myelopathy and Radiculopathy*, MCP-Hahnemann University School of Medicine, Dept. of Surgery Trauma Grand Rounds, Nov 2nd, 2000. Hahnemann University Hospital, Philadelphia, PA.
27. **Antonacci, M.D.**, Nothias, J.M., Humphreys, C., Tessler, A., Fisher, I., and Murray, M.: *Regeneration of Mammalian CNS axons across complete spinal cord transection using transplants of fibroblasts genetically modified to secrete neurotrophic factors*. Cervical Spine Research Society, Charleston, SC, Nov 29-Dec3, 2000.
28. **Antonacci, M.D.**, Nothias, J.M., Humphreys, C., Tessler, A., Fisher, I., and Murray, M.: *Axonal Regeneration Using Transplants of Genetically Engineered Fibroblasts in Spinal Cord Injury*. **Scoliosis Research Society**, Cleveland OH, Sept, 2001; **Winner: Russell Hibbs Basic Science Award**.
29. **Antonacci, M.D.**, Rutz, K., Mody, D.R., Weilbacher, D.G., and Heggeness, M.H.: *A Histologic Study of Fractured Human Vertebral Bodies*. Scoliosis Research Society, Cleveland OH, Sept, 2001
30. **Antonacci, M.D.**, Nothias, J.M., Humphreys, C., Tessler, A., Fisher, I., and Murray, M.: Grant Update on: *Regeneration of Mammalian CNS axons across complete spinal cord transection using transplants of fibroblasts genetically modified to secrete neurotrophic factors*. Cervical Spine Research Society, Monterrey, CA, Nov-Dec, 2001.

31. **Antonacci, M.D.**, Nothias, J.M., Humphreys, C., Tessler, A., Fisher, I., and Murray, M.: *Regeneration of Mammalian CNS axons across complete spinal cord transection using transplants of fibroblasts genetically modified to secrete neurotrophic factors*. American Academy of Orthopaedic Surgery, Dallas, TX, February, 2002.
32. **Antonacci, M.D.**, Nothias, J.M., Parks, T., Cawley, C., Murray, M.: *Axonal Regeneration Using Transplants of Genetically Engineered Cells in SCI*, **American Spinal Injury Association**, Vancouver, CA, 2002. **Winner: First Place Paper.**
33. **Antonacci, M.D.**, Nothias, J.M., Parks, T., Cawley, C., Murray, M.: Transplants of Unmodified Human Bone Marrow Stromal Cells in a Collagen Matrix Support Brainstem-Spinal Axonal Regeneration Across Complete Spinal Cord Transections. Cervical Spine Research Society. Dec. 5-7, 2002, Miami, Florida.
34. **Antonacci, M.D.**: *Strategies for Spinal Cord Regeneration*. American Academy of Orthopaedic Surgery, FOSA, Specialty Day, Feb. 7th, 2003.
35. **Antonacci, M.D.**, Nothias, J.M., Parks, T., Fritsch, R., Cawley, C., Murray, M.: *Human Marrow Stromal Cell Transplants In a Collagen Matrix Support Axonal Regeneration of Descending Pathways Across Complete Spinal Cord Transections*, Paper Presentation. **Scoliosis Research Society** 38th Annual Meeting, Quebec, Canada, Sept., 2003: **Winner Russell Hibbs Basic Science Award.**
36. **Antonacci, M.D.**, Lecturer: *Injuries and Dysfunction of the Spinal Cord in Children, Strategies in Spinal Cord Regeneration*, Shriners Hospitals for Children 3rd Howard H. Steel Conference on Pediatric Spinal Cord Injury, Orlando, FL, Dec., 2003
37. **Antonacci, M.D.** SDEG Visiting Fellowship Lecture, Texas Scottish Rite Hospital, Dallas Texas, Dec: 14-18, 2003; *Strategies for Spinal Cord Regeneration.*
38. **Antonacci, M.D.** Visiting Lecturer, I Congresso Internacional de Cirurgia de Columna Vertebral. Mexican Neurosurgery Congress, Leon, GTO, Mexico, Sept., 28-30, 2004
39. **Antonacci, M.D.**, Lecturer. *Contemporary Topics in Pediatric Spinal Cord Injury*. Shriners Hospital For Children, Oct. 11, 12, 2004. Cell therapies for Spinal Cord Repair.
40. Nothias, J.M., **Antonacci, M.D.**, Mitsui, T., Spencer, C.G., Jacob, J., Shumsky, J.S., Fisher, I., Murray, M., *Passive Cycling Exercise in Combination With Serotonergic Agonist Therapy Improves Motor Recovery Following Experimental Spinal Cord Injury*, Paper Presentation. Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, Sept., 2004.
41. Mehta, S., Betz, R.R., Mulcahey, M.J., MacDonald, C., Vogel, L., Anderson, C., D'Andrea, L., **Antonacci, M.D.**, *The Effect of Bracing on Paralytic Scoliosis Secondary to Spinal Cord Injury*. Paper Presentation, Scoliosis Research Society 39th Annual Meeting, Buenos Aires, Argentina, Sept., 2004.
42. **Antonacci, M.D.**, *Rehabilitation after Spinal Cord Injuries*. Spine Deformity Summit, Palm Beach Florida, June, 2005.
43. **Antonacci, M.D.**, Invited Lecturer. Pediatric Spinal Cord Injury Annual Conference. Shriners Hospital For Children, Oct., 2005.
44. Hiroyuki Yoshihara, Shumsky, J.S., **Antonacci, M.D.**, Murray, M., Fischer, I., *Combination Therapy of Rat Bone Marrow Stromal Cells and Training*. Scoliosis Research Society 40th Annual Meeting, Miami, Oct., 2005.
45. **Antonacci, M.D.** *Current Strategies for Spinal Cord Repair*. Lecturer. Cervical Spine Research Society, Instructional Courses. San Diego, Dec., 2005.

46. **Nothias, M., Antonacci, M.D.** et al. *Repetitive Passive Cycling Exercise in Combination with Serotonergic Agonist Therapy Improves Motor Recovery Following Experimental Spinal Cord Injury*. CSRS San Diego, Dec., 2005.
47. **Antonacci, M.D.**, *Spinal Cord Injury Repair*, Lecture. European Cervical Spine Research Society Annual Meeting, Berlin, Germany, May, 2006.
48. **Antonacci, M.D.**, *Strategies of Repair in Spinal Cord Injuries*. Invited Guest Lecturer, AO Spine Europe, Majorca, Spain, Sept., 2006.
49. **Antonacci, M.D.** Shriners Hospital for Children-Depuy Spine Tutorial. *Advanced Spine Techniques*. Oct. 12, 2006. Participant and invited faculty.
50. **Antonacci, M.D.**, *Strategies for Spinal Cord Injury Recovery*. Lecture, Pitié-Salpêtrière Hospital, Paris, France, Nov., 2006.
51. **Antonacci, M.D.**, *Repair Strategies for Spinal Cord Injury*, Lecture. European Biospine II Congress, Leipzig, Germany, Sept., 2007
52. **Antonacci, M.D.**, Cahill, P.J., Nydick, J., Asghar, J.G., Tantorski, M., Clements, D.H., Betz, R.R., Samdani, A.F., Harms Study Group, *Cervical Sagittal Plane Decomensation After Pediatric AIS Surgery*, Paper Presentation. The 14th International Meeting on Advanced Spine Techniques, Hong Kong, China, June, 2008.
53. Asghar, J.G., Samdani, A.F., Sciubba, D.M., Clements, D.H., Cahill, P.J., **Antonacci, M.D.**, Betz, R.R., Harms Study Group, *Surgical Trunk Rotation Correction in Patients with Moderate AIS(< 75 deg.): An All Pedicle Screw Construct with Derotation is Better than Thoracoplasty*, ePoster. The 14th International Meeting On Advanced Spine Techniques, Hong Kong, China, 2008
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1. \$30,000: December 2000. Cervical Spine Research Society. Spinal Cord Injury Research
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3. \$25,000: Shriners Hospital for Children, 2003 for Spinal Cord Injury Research.
4. \$150,000: Shriners Hospital for Children, 2005 for Spinal Cord Injury Research.

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