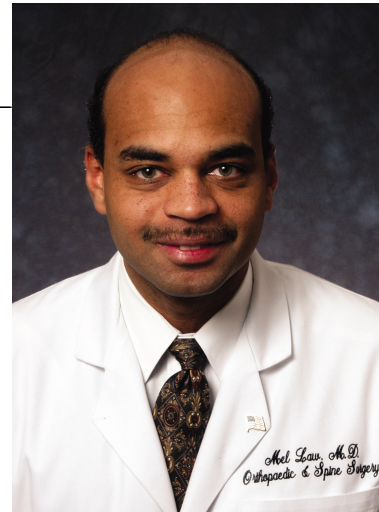

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Nashville, TN 37203
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CURRICULUM VITAE

Melvin Douglas Law, Jr., M.D.

EDUCATION: M.D., Medical College of Virginia, Richmond, VA, 1986.

B.S., Chemistry, Virginia Commonwealth University, Richmond, VA, 1982.

INTERNSHIP: University of Tennessee College of Medicine, Chattanooga Unit. Erlanger Medical Center. General Surgery, 7/1986-6/1987. Director: R. Philip Burns, M.D.

RESIDENCY: University of Tennessee College of Medicine, Chattanooga Unit. Erlanger Medical Center. Orthopaedic Surgery, 7/1987-6/1991. Director: Robert C. Coddington, M.D.

**CHIEF
RESIDENT:** University of Tennessee College of Medicine, Chattanooga Unit. Erlanger Medical Center. Orthopaedic Surgery, 7/1991-6/1992. Director: Robert C. Coddington, M.D.

FELLOWSHIPS: Harvard Medical School.
 Beth Israel Hospital.
 Daniel E. Hogan Spine Fellow, 7/1992-6/1993.
 Director: Augustus A. White, III, M.D., Ph.D.

University of Washington.
 Harborview Medical Center.
 AO/ASIF (Association for the Study of Internal Fixation) Traveling Fellowship.
 Fellowship in Trauma and Spine 5-6/1991.
 Directors: Sigvard T. Hansen, M.D.
 Paul A. Anderson, M.D.

BOARD CERTIFIED: American Board of Orthopaedic Surgery (ABOS), 1995.
 ABOS Recertification, 2004.
 ABOS Recertification, 2013. Expires 2025

LICENSE: Tennessee: MD018073 (Expires 3/31/2024)
 Massachusetts: 75467 (Inactive since 3/17/1995)
 DEA Registration: FL1615775 (Expires 3/31/2025)
 NPI Number: 1922099340

EMPLOYMENT: Private practice Nashville TN, Orthopaedic Spine Surgeon, Current.

Choice Spine LP, Knoxville TN, Medical Director, 2016 to present. Responsibilities include oversight of Medical issues and participating in Hands-on courses training surgeons in techniques of minimally invasive surgery and other innovative spine procedures using cadavers.

Cohere Health, 239 Causeway St, Boston, MA 02114. Medical Reviewer for Utilization Management. Third party case review for Insurance Companies and Medicare. Reviews for Surgery and Therapy.

Premier Orthopaedics and Sports Medicine, Nashville TN, Orthopaedic and Spine Surgeon, 1997-2016.

Tennessee Spine Center, Nashville TN, Orthopaedic and Spine Surgeon, 1993-1997.

Coastal Emergency Physicians, Chattanooga TN
 Emergency Room coverage, 1987-1992.

- HONORS:** Tissuelink Surgeon of the year 2007. Tissuelink Medical, Inc. Suite 400, One Washington Center. Dover, NH 03820. www.tissuelink.com
- Cited in Cambridge Who's Who Among Professional Physicians. 2007-2008 Edition. Cambridge Who's Who 333 Earle Ovington Blvd., Suite 240, Uniondale, NY 11553. (516)742-7907. www.cambridgewhoswho.com.
- Elected to "Guide to America's Top Surgeons" For Top 100 Spine Surgeons in America. 2006-2007 Edition. Consumers' Research Council of America, 2020 Pennsylvania Ave. NW Suite 300-A, Washington, DC 20006.
- Elected to "Guide to America's Top Surgeons" For Top 100 Spine Surgeons in America. 2005-2006 Edition. Consumers' Research Council of America, 2020 Pennsylvania Ave. NW Suite 300-A, Washington, DC 20006.
- Elected to "Guide to America's Top Surgeons" For Top 100 Spine Surgeons in America. 2004-2005 Edition. Consumers' Research Council of America, 2020 Pennsylvania Ave. NW Suite 300-A, Washington, DC 20006.
- Cited in National Register's Who's Who in Executives and Professionals. 2004-2005 Edition. National Register's Who's Who In Executives and Professionals. 400 Montauk Hwy. Suite 103, West Islip, NY 11795.
- Best Presentation Award for paper: Law MD, and Hahn KE: Treatment of Symptomatic Transitional Lumbosacral Spine (Bertolotti) Syndrome with Resection of the Painful False Joint at the L5 Transverse Process and Sacral Ala. Presented at the ARGOS North America Third Annual Meeting. Farmington, PA. August, 2004.
- Listed in "America's Top Doctors for Spinal Fusion." Money Magazine. Special Report: The Best Healthcare for your family, p. 40, Fall 2003.
- Best Presentation Award for paper: Law MD, McCord DH, and Hahn KE: Lumbar Interbody Fusion with Morselized Autograft, Cage and Pedicle Screw Stabilization. Presented at the ARGOS North America Second Annual Meeting. Farmington, PA. August, 2003.
- Elected to "Guide to America's Top Surgeons" For Top 100 Spine Surgeons in America. 2002-2003 Edition.

Consumers' Research Council of America, 2020
 Pennsylvania Ave. NW Suite 300-A, Washington, DC
 20006.

Orthopaedic In Training Examination, Highest
 National Score (100th percentile), 1988.

Merck Award, 1985.

Phi Kappa Phi Honor Society, 1982.

Laurel's Honor Society, 1981.

American Chemical Society, 1980.

American Orthopaedic Association, 2008.

LEADERSHIP: American Orthopaedic Association 2008 - present.

Centennial Medical Center, Nashville, TN.
 Spine Quality Committee.
 Chairman: 2001 to 2008.

Baptist North Tower Hospital, Nashville, TN.
 Chief of Orthopaedic Surgery 2003 - 2005.

University of Tennessee, Erlanger Medical Center
 House Staff Association
 President 1989 - 1990.
 Secretary 1988 - 1989.
 Treasurer 1987 - 1988.

VCU Pre Health Science Club
 President 1981 - 1982.
 President 1980 - 1981.
 Member 1978 - 1980.

National Honor Society
 President 1977 - 1978.
 Vice President 1976 - 1977.

BOARDS: Medical Director and Chairman of Medical Advisory
 Board, Choice Spine, LP. 2016 to present.
 ARGOS North America Spine Society Board 2002 to
 2006.
 Centennial Medical Center Board of Trustees. 2002 to
 2004.
 Nursing Resource Solutions LLC. Board member 2001 to
 2004.

Premier Orthopaedics and Sports Medicine PLC. Board member 2000 to 2003.

COMMITTEES: Chief of Orthopaedic Surgery. Baptist North Tower Hospital, Nashville, TN. 2003 to 2005.
 Chairman: Spine Quality Committee. Centennial Medical Center, Nashville, TN. 2001 to 2012.
 Infection Control Committee. Centennial Medical Center, Nashville, TN. 1994, 2012-2016.
 Surgery Advisory Committee. Centennial Medical Center, Nashville, TN. 1994-1996, 1999, 2003.
 Reviewer for Journal: Spine 2002-2003.
 Reviewer for Journal: Spine 2005- 2015.

COMMUNITY SERVICE: Volunteer Physician & Sponsor for Race for the Cure Susan G. Kohman Foundation, 2000 to present.
 Team Physician for Centennial Sportsplex Benefit Events Feb and Oct 1997, Nashville, TN.
 Team Physician, Soccer Team, Brentwood YMCA, Brentwood, TN 1993 to 1996.
 Team Physician, Howard High School Football Team, Chattanooga, TN, 1986-1992.
 Poison Control Center, 1982-1986.
 American Red Cross Volunteer, 1979-1982.

PERSONAL: Born: 3/17/60 Charlestown, WV
 Selective Service: 60-1048109-8
 Wife: Katharina
 Outside Interests: Enjoy skiing, skating, swimming, water sports, traveling, automobiles, architecture, engineering, computers and antique medical textbooks.

MEMBERSHIPS: North American Spine Society, Member 1994 - present.
 American Academy of Orthopaedic Surgeons, Member 1995 - present.
 American Orthopaedic Association, Member. 2008 - present.
 Nashville Academy of Medicine, Member 1995 - 2016.
 Tennessee Orthopaedic Society, Member 1995 - 2016.
 ARGOS Europe Spine Society, Member, 2002 - present.
 ARGOS North America Spine Society, Founding Member 2002 - present.
 J. Robert Gladden Orthopaedic Society, Member 2002 - present.

Student National Medical Association, Member 1982-1986.

SCIENTIFIC PRESENTATIONS

1. Law MD: Open reduction internal fixation of displaced acetabular fractures. Presented at Tennessee Orthopaedic Society Meeting. Knoxville, TN. February, 1989.
2. Law MD, Cole RJ, Coddington RC: Clinical rickets induced by growth hormone stimulation: A case report. Presented at Tennessee Orthopaedic Society Meeting. Nashville, TN. April, 1992.
3. Law MD, Stein RE: Late infection of healed fractures after open reduction and internal fixation. Presented at Tennessee Orthopaedic Society Meeting. Nashville, TN. April, 1992.
4. Law MD, Tencer AF, Anderson PA: Caudo-cephalad loading of pedicle screws: Failure mechanism and augmentation. Presented at Tennessee Orthopaedic Society Meeting. Nashville, TN. April, 1992.
5. Law MD, Bernhardt M, Hopkins TJ, Kleefield J, White AA: Deterioration of outcome after two years in patients treated with posterolateral lumbar spine fusion with and without pedicle screw instrumentation. Presented at the Eighth Annual Meeting, North American Spine Society. San Diego, CA. October 1993.
6. Law MD, Bernhardt M, Kleefield J, Crowell RR, White AA: Failure of lumbar spine fusion with freeze-dried cancellous allograft bone. Presented at the Eighth Annual Meeting, North American Spine Society. San Diego, CA. October 1993.
7. Law MD, Bernhardt M, Hopkins TJ, Kleefield J, White AA: Deterioration of outcome after two years in patients treated with posterolateral lumbar spine fusion with and without pedicle screw instrumentation. Presented at the Thirtieth Annual Meeting, Scoliosis Research Society. Asheville, NC. September 13-17, 1995.
8. Law MD, Bernhardt M, Hopkins TJ, Kleefield J, White AA: Flexion/Extension instability as a predictor of failure of posterolateral lumbar spine fusion. Presented at the 84th Annual Meeting, Clinical Orthopaedic Society. Gatlinburg, TN. October 3-5, 1996.

9. Law MD, Bernhardt M, Hopkins TJ, Kleefield J, White AA: Flexion/Extension instability as a predictor of failure of posterolateral lumbar spine fusion. Presented at the Eleventh Annual Meeting, North American Spine Society. Vancouver, BC, Canada. October 1996.
10. Law MD, Bernhardt M, Hopkins TJ, Kleefield J, White AA: Flexion/Extension instability as a predictor of failure of posterolateral lumbar spine fusion. Poster Exhibit at the 64th Annual Meeting, American Academy of Orthopaedic Surgeons. San Francisco, CA. February 1997.
11. Law MD, McCord DH, Evans RB, Baylor JL: Lumbar Interbody Fusion with Morselized Autograft, Cage and Pedicle Screw Stabilization. Presented at the 14th Annual Meeting, North American Spine Society. Chicago, IL. October 1999.
12. Law MD, Hahn KE: Biportal Transforaminal Endoscopy for Treatment of Pyogenic Lumbar Discitis without Neurologic Compromise. Poster Exhibit at the 19th Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Tampa, FL. March 5-8, 2003.
13. Law MD, Hahn KE: Biportal Transforaminal Endoscopy for Treatment of Pyogenic Lumbar Discitis without Neurologic Compromise. Presented at the North American Spine Society, Spine Across the Seas Meeting. Maui, HI. July 2003.
14. Law MD, Hahn KE: Lumbar Interbody Fusion with Morselized Autograft, Cage and Pedicle Screw Stabilization. Presented at the North American Spine Society, Spine Across the Seas Meeting. Maui, HI. July, 2003.
15. Law MD, Hahn KE: Biportal Transforaminal Endoscopy for Treatment of Pyogenic Lumbar Discitis without Neurologic Compromise. Presented at the ARGOS North America Second Annual Meeting. Farmington, PA. August, 2003.
16. Law MD, Hahn KE: Lumbar Interbody Fusion with Morselized Autograft, Cage and Pedicle Screw Stabilization. Presented at the ARGOS North America Second Annual Meeting. Farmington, PA. August, 2003.
17. Law MD, Hahn KE: Biportal Transforaminal Endoscopy for Treatment of Pyogenic Lumbar Discitis without Neurologic Compromise. Presented at the Second Interdisciplinary Congress on Spine Care. World Spine II Meeting. Chicago, IL. August, 2003.
18. Law MD, McCord DH, Hahn KE: Lumbar Interbody Fusion with Morselized Autograft, Cage and Pedicle Screw Stabilization. Presented at the Second Interdisciplinary Congress on Spine Care. World Spine II Meeting. Chicago, IL. August, 2003.

19. Law MD, McCord DH, Hahn KE: Lumbar Interbody Fusion with Morselized Autograft, Cage and Pedicle Screw Stabilization. Presented at the 8th International Argos Symposium. Adjacent Level Degeneration after Lumbar Fusion. How to Prevent it? What to do? Paris, France. January, 2004.
20. Law MD, Hahn KE: Biportal Transforaminal Endoscopy for Treatment of Pyogenic Lumbar Discitis without Neurologic Compromise. Presented at the 8th International Argos Symposium. Adjacent Level Degeneration after Lumbar Fusion. How to Prevent it? What to do? Paris, France. January, 2004.
21. Law MD, Hahn KE: Redo Graft Harvest after Previous Cancellous Iliac Crest Graft Harvest Through a Small Cortical Window without Muscle Dissection and Backfilling of Defect. Presented at the 3rd annual ARGOS North America meeting. Farmington, PA. August 7, 2004.
22. Law MD, Hahn KE: Treatment of Symptomatic Transitional Lumbosacral Spine (Bertolotti) Syndrome with Resection of the Painful False Joint at the L5 Transverse Process and Sacral Ala. Presented at the 3rd annual ARGOS North America meeting. Farmington, PA. August 7, 2004.
23. Law MD, Hahn KE: Redo Graft Harvest after Previous Cancellous Iliac Crest Graft Harvest Through a Small Cortical Window without Muscle Dissection and Backfilling of Defect. Presented at the 9th International ARGOS Symposium. Paris, France. January, 2005.
24. Law MD, Hahn KE: Treatment of Symptomatic Transitional Lumbosacral Spine (Bertolotti) Syndrome with Resection of the Painful False Joint at the L5 Transverse Process and Sacral Ala. Presented at the 9th International ARGOS Symposium. Paris, France. January, 2005.
25. Law MD, Hahn KE: Biportal Transforaminal Endoscopy for Treatment of Pyogenic Lumbar Discitis without Neurologic Compromise. Presented at the 2005 Augustus White Spine Fellows Meeting. Harvard Medical School. Boston, MA. October 18, 2005.

PRESENTATIONS AND INVITED LECTURES

1. Emergency Transport of Children with Possible Cervical Spine Injuries. Bradley County Emergency Medical Services. Cleveland, TN. May, 1992.
2. Acute Management of Spinal Trauma. Hospital Staff Conference. Erin, TN. August, 1993.
3. Third Annual Spine Symposium, University of Mississippi, Instructor and Lecturer. Nashville, TN. August 1995.
4. Fourth Annual Update in Clinical Medicine, Columbia/HCA Center for Research and Education. Freeport, Grand Bahama Island, Bahamas. February 28 - March 4, 1996.
5. Eighth Annual International Spine Workshop, Uniformed Services University of the Health Sciences, Spinal Research Education Foundation. Bethesda MD. Minimally Invasive Course. June 6 - June 8, 1996.
6. Management of Low Back Pain and Sciatica In the Era of Managed Care. Harvard Medical School, Department of Orthopaedic Surgery. Boston, MA. October 17-19, 1996.
7. Ninth Annual International Spine Workshop, Uniformed Services University of the Health Sciences, Spinal Research Education Foundation. Bethesda MD. Minimally Invasive Course. May 14 - May 16, 1997.
8. Tenth Annual International Spine Workshop, Uniformed Services University of the Health Sciences, Spinal Research Education Foundation. Bethesda MD. Minimally Invasive Course. June 11 - June 13, 1998.
9. Transforaminal Lumbar Interbody Fusion Course and Workshop. St. Louis, MO. Director: Richard Holt, M.D. June 1999.
10. Posterior Lumbar Interbody Fusion Course. Instructor and Lecturer. Nashville, TN. October 7, 2000.
11. Low Back Pain and Sciatica. Harvard Medical School, Department of Orthopaedic Surgery. Boston, MA. October 12-14, 2000.

12. Failed Back Syndrome. National Medical Association Annual Meeting. Nashville, TN. August 7, 2001.
13. Annual Update in Clinical Medicine, HCA Center for Research and Education. Montego Bay, Jamaica. April 15 - 18, 2002.
14. Advanced Spinal Techniques: Cadaver Workshop. Memphis, TN. Director: Nathan H Lebowhl, M.D. June 14-15, 2002.
15. ARGOS North America First Annual Meeting. Moderator and Workshop presenter. Farmington, PA. August 2-3, 2002.
16. Eurosurgical Degenerative Spine Course. Hands on Workshop Moderator. Lecture: Degenerative Low Back Issues (Polyaxial Screws). Beurains, France, January 28, 2004.
17. ARGOS North America Third Annual Meeting. Moderator and Presenter. Farmington, PA. August 6-7, 2004.
18. American College of Spine Surgery, Annual Review Course. Lectures: Clinical Evaluation of the Spine, and Failed Back Syndrome. Moderator: Minimally Invasive Spine Surgery, Osteobiologics, and Deformity. Nashville, TN. May 2-6, 2007.
19. Alphatec Spine Meeting Lecture: Spinal Fusions: Why Posterior Lumbar Interbody Fusion? San Diego, CA. June 8, 2007.
20. Tissuelink Medical: Dynamic Lumbar Stabilization: Methods and Results San Francisco, CA. March 8, 2008.
21. Clinical Medicine Update. HCA Center for Research and Education. Dynamic Lumbar Stabilization. HCA Center for Research and Education. Cozumel, QROO Mexico. June 15-20, 2008.
22. Clinical Medicine Update. HCA Center for Research and Education. Prevention and Management of Failed Back Surgery Syndrome. Beaver Creek, CO. January 23-26, 2012.
23. Clinical Medicine Update. HCA Center for Research and Education. Evaluation and Management of Cervical Spondylotic Myelopathy, Beaver Creek, CO. January 2013.
24. Tennessee Society of Orthotics and Prosthetics Annual Meeting. Bracing and Surgical Treatment of Scoliosis. Murfreesboro, TN September 27, 2013.

25. Clinical Medicine Update. HCA Center for Research and Education. Clinical Evaluation of Low Back Pain and Sciatica, Beaver Creek, CO. January 2014.
26. Clinical Medicine Update. HCA Center for Research and Education. Biomechanical Basis for the Treatment of Spinal Disorders. Beaver Creek, CO. January 2015.
27. Clinical Medicine Update. HCA Center for Research and Education. Health Literacy. Beaver Creek, CO. January 2016.
28. Clinical Medicine Update. HCA Center for Research and Education. Physician Industry Relationships and Conflicts of Interest. Beaver Creek, CO. January 2017.
29. Clinical Medicine Update. HCA Center for Research and Education. Asperger's Syndrome. Beaver Creek, CO. January 2018.
30. Clinical Medicine Update. HCA Center for Research and Education. Plantar Fasciitis, Beaver Creek, CO. January 2019.
31. Clinical Medicine Update. HCA Center for Research and Education. Spine Surgery 101. The Basics of Spine Surgery, Beaver Creek, CO. January 2020.
32. Clinical Medicine Update. HCA Center for Research and Education. The History of Spine Surgery, Beaver Creek, CO. February 2023.
33. Clinical Medicine Update. HCA Center for Research and Education. Failed Back surgery update, Beaver Creek, CO. February 2023.

PUBLICATIONS

1. Henley MB, Law MD, Henry SL: Removal of broken Syndesmotic screws: A technical tip. *Orthopedics* 17:641-644, 1994. Abstract available online at www.ncbi.nlm.nih.gov/pubmed/7937380
2. Law MD: Best oral presentation award: Lumbar Interbody Fusion with Morselized Autograft, Cage and Pedicle Screw Stabilization. In *Argos Spine News* 8:9, October 2003. Available online at www.argospine.org/pdf/argos-spinenews-viii.pdf (page 8).
3. Law MD, Bernhardt M, Hopkins TJ, Kleefield J, White AA: Deterioration of outcome after two years in patients treated with posterolateral lumbar spine fusion with and without

- pedicle screw instrumentation. In *Proceedings of the Eighth Annual Meeting, North American Spine Society*. p. 39, October 1993.
4. Law MD, Bernhardt M, Hopkins TJ, Kleefield J, White AA: Deterioration of outcome after two years in patients treated with posterolateral lumbar spine fusion with and without pedicle screw instrumentation. In *Proceedings of the Thirtieth Annual Meeting, Scoliosis Research Society*. October 1993.
 5. Law MD, Bernhardt M, Hopkins TJ, Kleefield J, White AA: Flexion/Extension instability as a predictor of failure of posterolateral lumbar spine fusion. In *Proceedings of the Eleventh Annual Meeting, North American Spine Society*. October 1996.
 6. Law MD, Bernhardt M, Hopkins TJ, Kleefield J, White AA: Flexion/Extension instability as a predictor of failure of posterolateral lumbar spine fusion. American Academy of Orthopaedic Surgeons, Final Program, 64th Annual Meeting, p. 381. February 1997.
 7. Law MD, Bernhardt M, Kleefield J, Crowell RR, White AA: Failure of lumbar spine fusion with freeze-dried cancellous allograft bone. In *Proceedings of the Eighth Annual Meeting, North American Spine Society*. p. 117, October 1993.
 8. Law MD, Bernhardt M, Kleefield J, White AA: Lumbar Flexion/Extension instability as a predictor of failure of posterolateral lumbar spinal fusion. *Orthop Trans* 21(1):301, 1997.
 9. Law MD, Bernhardt M, White AA: Cervical spondylotic myelopathy: A review of surgical indications and decision making. *Yale J Biol and Med* 66:165-177, 1993. Full Text article available at www.ncbi.nlm.nih.gov/pmc/articles/PMC2588867/ and <https://pubmed.ncbi.nlm.nih.gov/8209553/>
 10. Law MD, Bernhardt M, White AA: Evaluation and management of cervical spondylotic myelopathy. *J Bone and Joint Surg* 76-A:1420-1433, 1994. Full article reprint available online at https://journals.lww.com/jbjsjournal/Citation/1994/09000/Instructional_Course_Lectures,_The_American.20.aspx.
 11. Law MD, Bernhardt M, White AA: Evaluation and management of cervical spondylotic myelopathy. *Instructional Course Lectures* 44. American Academy of Orthopaedic Surgeons, Rosemont, IL. 1995, pp 99-110. <https://pubmed.ncbi.nlm.nih.gov/7797896/>
 12. Law MD, Hahn KE: Biportal Transforaminal Endoscopy for Treatment of Pyogenic Lumbar Discitis without Neurologic

- Compromise. In *Proceedings of the Nineteenth Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves*. p. 49, March 2003.
13. Law MD, Hahn KE: Biportal Transforaminal Endoscopy for Treatment of Pyogenic Lumbar Discitis without Neurologic Compromise. In *Proceedings of the Spine Across the Sea Meeting*. p. 37, July, 2003.
 14. Law MD, Hahn KE: Biportal Transforaminal Endoscopy for Treatment of Pyogenic Lumbar Discitis without Neurologic Compromise. In *Proceedings of the Second Interdisciplinary Congress on Spine Care. World Spine II Meeting*. p. 81, August, 2003.
 15. Law MD, Hahn KE: Biportal Transforaminal Endoscopy for Treatment of Pyogenic Lumbar Discitis without Neurologic Compromise. In *8th International Argos Symposium Scientific Book*. Argos Association 64 rue Tiquetonne 75002 Paris France. 2004. Citation available at www.argospine.org/pdf/argos-spinenews-ix.pdf (page 10).
 16. Law MD, Hahn KE: Lumbar Interbody Fusion with Morselized Autograft, Cage and Pedicle Screw Stabilization. In *Proceedings of the Spine Across the Sea Meeting*. p. 94, July, 2003.
 17. Law MD, Hahn KE: Treatment of Symptomatic Transitional Lumbosacral Spine (Bertolotti) Syndrome with Resection of the Painful False Joint at the L5 Transverse Process and Sacral Ala. In *9th International Argos Symposium Scientific Book*. Argos Association 64 rue Tiquetonne 75002 Paris France. 2005.
 18. Law MD, McCord DH, Hahn KE: Lumbar Interbody Fusion with Morselized Autograft, Cage and Pedicle Screw Stabilization. In *Proceedings of the Second Interdisciplinary Congress on Spine Care. World Spine II Meeting*. p. 133, August, 2003.
 19. Law MD, McCord DH, Hahn KE: Lumbar Interbody Fusion with Morselized Autograft, Cage and Pedicle Screw Stabilization. In *8th International Argos Symposium Scientific Book*. Argos Association 64 rue Tiquetonne 75002 Paris France. 2004.
 20. Law MD, McCord DH, Hahn KE: Redo Graft Harvest after Previous Cancellous Iliac Crest Graft Harvest Through a Small Cortical Window without Muscle Dissection and Backfilling of Defect. In *9th International Argos Symposium Scientific Book*. Argos Association 64 rue Tiquetonne 75002 Paris France. 2005.

21. Law MD, Stein RE: Late infection in healed fractures after open reduction and internal fixation. *Orthop Rev* 22:545-552, 1993. Abstract available online at www.ncbi.nlm.nih.gov/pubmed/8316418.
22. Law MD, Tencer AF, Anderson PA: Caudo-cephalad loading of pedicle screws: Mechanisms of loosening and methods of augmentation. *Spine* 18:2438-2443, 1993. Abstract available at [http://journals.lww.com/spinejournal/Abstract/1993/12000/Cau do Cephalad Loading of Pedicle Screws .12.aspx](http://journals.lww.com/spinejournal/Abstract/1993/12000/Cau-do-Cephalad-Loading-of-Pedicle-Screws.12.aspx)
23. Law MD, White AA, Panjabi MM: Biomechanics of the Spine. Book Chapter. Atlas of Orthoses and Assistive Devices, Ed. 3, American Academy of Orthopaedic Surgeons, Mosby-Year Book 1997, pp 93-114.
24. Linovitz RJ, Pathria M, Bernhardt M, Green D, Law MD, McGuire RA, Montesano PX, Rehtine G, Salib RM, Ryaby JT, Faden JS, Ponder R, Muenz LR, Magee FP, Garfin SA. Combined magnetic fields accelerate and increase spine fusion: a double-blind, randomized, placebo controlled study. *Spine*. 2002 Jul 1;27(13):1383-9. Abstract available at www.ncbi.nlm.nih.gov/pubmed/12131732.
25. Olsen D, McCord D, Law M: Laparoscopic Discectomy with Anterior interbody Fusion of L5-S1. *Surg Endosc* 10:1158-1163, 1996. Abstract available at www.ncbi.nlm.nih.gov/pubmed/8939834.
26. Vincent Morelli and Andrew Gregory. Sports Medicine, An Issue of Primary Care Clinics in Office Practice. Contributor and reviewer of Spine Chapters. Elsevier Health Sciences. 1600 John F. Kennedy Boulevard Suite 1800 Philadelphia, Pennsylvania, 19103-2899

COURSES ATTENDED

1. AO/ASIF Association for the Study of Internal Fixation Basic Course. Los Angeles, CA. Director: Michael Chapman, M.D. January, 1989.
2. Scottish Rite Pediatric Orthopaedic Course. Scottish Rite Hospital. Atlanta, GA. Director: Raymond T. Morrisy, M.D. March, 1989.
3. Circular (Ring) External Fixation Course. University of Tennessee, Chattanooga. Director: Rene Dumont, M.D., Danek Medical. May, 1989.

4. Basic Science in Orthopaedics Course. Harvard Combined Residency Program. Newport, RI. Director: Mark Gebhart, M.D. June, 1989.
5. Musculoskeletal Pathology Course. University of Florida, Gainesville. St. Augustine, FL. Director: William F. Enneking, M.D. November, 1990.
6. Current Concepts of the Lumbar Spine Diagnosis and Treatment. Scottsdale, AZ. Director: The Spine Study Group. October, 1991.
7. Techniques in Spinal Fixation Course. Tucson, AZ. Directors: Walt Simmons, M.D., Chaim Rogozinski, M.D., and Abraham Rogozinski, M.D. November 23, 1991.
8. American Academy of Orthopaedic Surgeons Annual Meeting. Washington, DC. February, 1992.
9. Northwestern Prosthetics Course. Director: Northwestern University, Chicago, IL. March, 1992.
10. Current Methodology of Spinal Instrumentation; Degenerative and Deformity Applications. Boston, MA. Director: F. Todd Wetzel, M.D., The Institute for Medical Studies. July 8, 1992.
11. North American Spine Society Annual Meeting. Boston, MA. July, 1992.
12. Cotrell-Duboset, Jackson Intrasacral Rod Technique Course. Kansas City, MO. Director: Roger Jackson, M.D., Stuart Medical. October, 1992.
13. Automated Percutaneous Lumbar Discectomy Course. Atlanta, GA. Director: Gary Onik, M.D., Surgical Dynamics. November, 1992.
14. Spine Symposium. Nashville, TN. Director: David H. McCord, M.D., Robert McGuire, M.D. April, 1993.
15. Arthroscopic Microdiscectomy Course. Denver, CO. Director: Jonathan Schaffer, M.D., Smith-Nephew Spine. August, 1993.
16. North American Spine Society Annual Meeting. San Diego, CA. October 14-16, 1993.
17. Endoscopic Laser Microdiscectomy. Clarus Medical Corporation. San Diego, CA. October, 1993.
18. Interbody Fusion Techniques Course, Anterior Column Support and Use of the Harms Titanium Cage. Gainesville, FL.

- Director: Gary Lowrey, M.D., Ph.D., Depuy-Motech. October, 1993.
19. American Academy of Orthopaedic Surgeons Annual Meeting. New Orleans, LA. February 24 - March 1, 1994.
 20. Academic Visitation: Professor Jurgen Harms, M.D. SRH-Karlsbad, Medical School of University of Heidelberg. Karlsbad, Germany. March, 1994.
 21. Academic Visitation: Guiseppe Tabasso, M.D. Turin, Italy. March, 1994.
 22. North American Spine Society Annual Meeting. Minneapolis, MN. October 19-21, 1994.
 23. 2nd Advanced ISOLA Spinal Instrumentation Seminar. Kansas City, MO. Director: Marc A. Asher, M.D. December 2-3, 1994.
 24. American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL. February, 1995.
 25. Third Annual Spine Symposium, University of Mississippi. Nashville, TN. Director: Robert Mcguire, M.D. August 1995.
 26. North American Spine Society Annual Meeting. Washington, DC. October, 1995.
 27. American Academy of Orthopaedic Surgeons Annual Meeting. Atlanta, GA. February, 1996.
 28. Fourth Annual Update in Clinical Medicine, Columbia/HCA Center for Research and Education. Freeport, Grand Bahama Island, Bahamas. February 28 - March 4, 1996.
 29. Eighth Annual International Spine Workshop, Uniformed Services University of the Health Sciences, Spinal Research Education Foundation. Bethesda MD. Minimally Invasive Course. June 6 - June 8, 1996.
 30. Academic Visitation: Arthur D. Steffee, M.D. Cleveland, OH. June, 1996.
 31. Contemporary Issues of Spinal Reconstruction. Toronto Ontario Canada. Directors: Jurgen Harms, M.D. and Harry Shufflebarger, M.D. July, 1996.
 32. Management of Low Back Pain and Sciatica In the Era of Managed Care. Harvard Medical School, Department of Orthopaedic Surgery. Boston, MA. October 17-19, 1996.

33. Clinical Orthopaedic Society Annual Meeting. Gatlinburg, TN. October, 1996.
34. North American Spine Society Annual Meeting. Vancouver, BC. October, 1996.
35. American Academy of Orthopaedic Surgeons Annual Meeting. San Francisco, CA. February, 1997.
36. Ninth Annual International Spine Workshop, Uniformed Services University of the Health Sciences, Spinal Research Education Foundation. Bethesda MD. Minimally Invasive Course. May 14 - May 16, 1997.
37. North American Spine Society Annual Meeting. New York, NY. October, 1997.
38. American Academy of Orthopaedic Surgeons Annual Meeting. New Orleans, LA. March, 1998.
39. Spinal Surgery in Children and Adolescents. Director: Harry L. Shufflebarger, M.D. University of Miami School of Medicine, April 4, 1998.
40. Tenth Annual International Spine Workshop, Uniformed Services University of the Health Sciences, Spinal Research Education Foundation. Bethesda MD. Minimally Invasive Course. June 11 - June 13, 1998.
41. North American Spine Society Annual Meeting. San Francisco, CA. October, 1998.
42. American Academy of Orthopaedic Surgeons Annual Meeting. Anaheim, CA. February, 1999.
43. Advanced Ray Interbody Fusion Cage Course and Case Presentations. Surgical Dynamics. Orlando, FL. March 12-14, 1999.
44. Oratech SpineCath Quality Training and Education Program. Technique for Percutaneous ElectroThermal Treatment of Discogenic Pain. Director: Jeffrey Saal, M.D. June 13, 1999.
45. North American Spine Society CPT Update '99 For Spine Care Professionals. Chicago, IL. October, 1999.
46. North American Spine Society Annual Meeting. Chicago, IL. October, 1999.
47. American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL. March, 2000.

48. North American Spine Society Annual Meeting. New Orleans, LA. October, 2000.
49. Osteoporosis and Problems of the Older Adult. American Academy of Orthopaedic Surgeons. Director: John Kaufman, M.D. Washington, DC. December 1, 2000.
50. American Academy of Orthopaedic Surgeons Annual Meeting. San Francisco, CA. February, 2001.
51. Balloon Kyphoplasty Course. Kyphon. Memphis, TN. March, 31 2001.
52. American Orthopaedic Association Annual Meeting. West Palm Beach, FL. June, 2001.
53. North American Spine Society Annual Meeting. Seattle, WA. October 31 - November 3, 2001.
54. ARGOS 6th International ARGOS Symposium. Paris, France. January 31 - February 1, 2002.
55. American Academy of Orthopaedic Surgeons Annual Meeting. Dallas, TX. February, 2002.
56. 21st. Century Bone Health. 2002 Osteoporosis Specialists Market Research Meeting. Dallas, TX. April 26-28, 2002.
57. Bone Grafting Options in the Lumbar Spine. The Hughston Sports Medicine Foundation and Medical Education Resources. Videoconference. Nashville, TN. May 18, 2002.
58. ARGOS North America First Annual Meeting. Farmington, PA. August 2-3, 2002.
59. North American Spine Society Annual Meeting. Montreal, Canada. October 29 - November 2, 2002.
60. ARGOS 7th International ARGOS Symposium. Paris, France. January 30-31, 2003.
61. American Academy of Orthopaedic Surgeons Annual Meeting. New Orleans, LA. February, 2003.
62. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, 19th Annual Meeting. Tampa, FL. March 5-8, 2003.
63. Academic Visitation: Professor Jurgen Harms, M.D. SRH-Karlsbad, Medical School of University of Heidelberg. Karlsbad, Germany. May, 2003.

64. North American Spine Society. Spine Across the Seas Meeting. Maui, HI. July 27-31, 2003.
65. ARGOS North America Second Annual Meeting. Farmington, PA. August 1-2, 2003.
66. Second Interdisciplinary Congress on Spine Care. World Spine II Meeting. Chicago, IL. August 10-13, 2002.
67. Eliminating Errors in the OR. University of Tennessee College of Medicine. Nashville, TN. September 2, 2003.
68. North American Spine Society Annual Meeting. San Diego, CA. October, 2003.
69. ARGOS 8th International ARGOS Symposium. Paris, France. January 29-30, 2004.
70. American Academy of Orthopaedic Surgeons Annual Meeting. San Francisco, CA. March, 2004.
71. American Orthopaedic Association Annual Meeting. Boston, MA. June, 2004.
72. ARGOS North America Third Annual Meeting. Farmington, PA. August 6-7, 2003.
73. First Annual Spine Symposium. Honoring Augustus A. White III, M.D., Ph.D. Harvard Medical School. Beth Israel Hospital. Boston, MA. October, 2004.
74. North American Spine Society Annual Meeting. Chicago, IL. October, 2004.
75. Pain Management, Dorsal Column Stimulator, Intrathecal Pump Course. Medtronic. Minneapolis, MN. November 5,6 2004.
76. ARGOS 9th International ARGOS Symposium. Paris, France. January 27-28, 2005.
77. Charite Artificial Disc Training Course. Johnson and Johnson, Ethicon. Cinicinnatti, OH. April 14-15, 2005.
78. Academic Visitation: Professeur Jean-Paul Steib Service de Chirurgie Orthopédique du Rachis Pavillon Chirurgical B - Hôpitaux Universitaires B.P.426 - 67091 Strasbourg CEDEX (FRANCE) May 7, 2005.
79. Dynesis Training Course. Zimmer Spine Division. Warsaw, IN. September 17, 2005.
80. North American Spine Society Annual Meeting. Philadelphia, PA. September, 2005.

81. Second Annual Spine Symposium. Honoring Augustus A. White III, M.D., Ph.D. Harvard Medical School. Beth Israel Hospital. Boston, MA. October 18-19, 2005.
82. J. Robert Gladden Orthopaedic Society Inaugural Meeting. Chairman -Augustus A. White, III, M.D., Ph.D. Harvard Medical School. Lausanne, Switzerland. July 6-10, 2006.
83. North American Spine Society Annual Meeting. Seattle, WA. September, 2006.
84. Third Annual Spine Symposium. Honoring Augustus A. White III, M.D., Ph.D. Harvard Medical School. Beth Israel Hospital. Boston, MA. October 11, 2006.
85. American College of Spine Surgery, Annual Review Course. (American College of Spine Surgery, P.O. Box 2405 Riverside, CA 92516). Nashville, TN. May 2-6, 2007.
86. Alphatec Spine Meeting. June 7-9, 2007.
87. American Orthopaedic Association Annual Meeting. Asheville, NC. June 13-16, 2007.
88. American Academy of Orthopaedic Surgeons Annual Meeting. San Francisco, CA. March, 2008.
89. Preservation of Motion in The Spine. Florida Orthopaedic Institute Research Foundation Continuing Medical Education. Duck Key, FL. April 2-5, 2008.
90. Clinical Medicine Update. HCA Center for Research and Education. Cozumel, QROO Mexico. June 15-20, 2008.
91. Prodisc-C Cervical Disc Arthroplasty Training Course. Synthes Spine. Los Angeles, CA July 12, 2008.
92. Telling the Whole Truth: Orthopaedists as Expert Witnesses and the Grievance Process. AAOS Webinar. September 10, 2008.
93. North American Spine Society Annual Meeting. Toronto, ON. Canada October, 2008.
94. American Academy of Orthopaedic Surgeons Annual Meeting. Las Vegas, NV. February, 2009.

95. American Orthopaedic Association Annual Meeting. Bonita Springs, FL. June, 2009.
96. Mazama Spine Summit Meeting. Winthrop, WA. March 5-7, 2010.
97. American Academy of Orthopaedic Surgeons Annual Meeting. New Orleans, LA. March, 2010.
98. North American Spine Society Annual Meeting. Orlando, FL. October, 2010.
99. American Orthopaedic Association Annual Meeting. Boston, MA. June, 2011.
100. North American Spine Society Annual Meeting. Chicago, IL. November, 2011.
101. Clinical Medicine Update. HCA Center for Research and Education. Beaver Creek, CO. January 23-26, 2012.
102. Academic Visitation: Professor Dr. Univ. Rudi Bertagnoli, M.D. Straubing, Germany. February, 2012.
103. Intensive Course in Medical Record Keeping with Individual Preceptorships. Case Western Reserve University School of Medicine. Cleveland, OH. November 1-2, 2012.
104. Clinical Medicine Update. HCA Center for Research and Education. Beaver Creek, CO. January, 2013.
105. North American Spine Society Annual Meeting. New Orleans, LA. October, 2013.
106. Clinical Medicine Update. HCA Center for Research and Education. Beaver Creek, CO. January, 2014.
107. Movement Is Life Caucus. Washington, DC. November 13-14 2014.
108. Clinical Medicine Update. HCA Center for Research and Education. Beaver Creek, CO. January, 2015.
109. American Academy of Orthopaedic Surgeons Annual Meeting. Las Vegas, NV. March, 2015.
110. American Orthopaedic Association Annual Meeting. Providence, RI. June, 2015.
111. Movement Is Life Caucus. Washington, DC. November 12-13 2015.
112. Clinical Medicine Update. HCA Center for Research and Education. Beaver Creek, CO. January, 2016.

113. Movement Is Life Caucus. Washington, DC. November 10-11 2016.
114. Clinical Medicine Update. HCA Center for Research and Education. Beaver Creek, CO. January, 2017.
115. American Academy of Orthopaedic Surgeons Annual Meeting. San Diego, CA. March, 2017.
116. Clinical Medicine Update. HCA Center for Research and Education. Beaver Creek, CO. January, 2018.
117. Clinical Medicine Update. HCA Center for Research and Education. Beaver Creek, CO. January, 2019.
118. American Academy of Orthopaedic Surgeons Annual Meeting. Las Vegas, NV. March, 2019.
119. American Orthopaedic Association Annual Meeting. San Diego, CA. June, 2019.
120. Clinical Medicine Update. HCA Center for Research and Education. Beaver Creek, CO. January, 2020.
121. North American Spine Society 36th Annual Meeting September 29-October 2, 2021 Boston, MA. (Virtual Attendance).
122. American Orthopaedic Association Annual Meeting. Providence, RI. June, 2019. (Virtual Attendance).
123. Ascension Radiation Safety Fluoroscopy Training. Nashville, TN. July 21, 2022.
124. North American Spine Society 37th Annual Meeting October 12-15, 2022 Chicago, IL. (Virtual Attendance).
125. Clinical Medicine Update. HCA Center for Research and Education. Beaver Creek, CO. February, 2023.

PATENTS HELD

- 1. US 8,043,340**
- 2. US 8,535,351**
- 3. US 8,784,453**
- 4. US 9,017,385**

CONFLICTS OF INTEREST

1. None