

## Curriculum Vitae

David Alfred Hanscom, MD

### Current Position:

Orthopedic spine surgeon  
Swedish Neuroscience Specialists, 550 17<sup>th</sup> Ave, Suite 500, Seattle, WA, 98122

### Practice Positions:

Swedish Neuroscience Specialists  
Swedish Medical Center, Seattle, WA  
September 1, 2008-present

Orthopedics International  
Seattle, WA  
July 1, 2003 – August 30, 2008

Sun Valley Spine Institute  
Ketchum, ID  
December 21, 1998 – June 30, 2003

Orthopedic Physicians  
A Division of Orthopedic Consultants of Washington, Inc., PS  
August 3, 1986 – December 18, 1998

Robert Ching, M.D.  
Associate in private practice of orthopedic surgery  
Oroville, California  
January – August 1985

### Education:

High School: Rio Lindo Academy Healdsburg, CA  
1969-1971

College: B.S., Biochemistry, Pacific Union College, Angwin, CA  
1971-1975

Medical School: M.D., Loma Linda University, Loma Linda, CA  
1975-1979

Internship and Residency, Internal Medicine  
Sacred Heart Medical Center, Spokane, WA  
1979-1981

Residency, Orthopedics  
University of Hawaii, Honolulu, HI

Chief: Lawrence Gordon  
1981-1984

Fellowship, Orthopedic Trauma  
UC Davis Medical Center, Sacramento, CA  
Chief: Mike Chapman  
July- December 1984

John H. Moe Spinal Deformity Fellowship  
Minneapolis, Minnesota  
Chief: David Bradford  
September 1985- June 1986

**Medical Licensure:**

Washington, 1972 – 2/15/19  
Hawaii, 1980 -  
California, 1981 – 2/29/20  
Idaho, 1998 – 6/30/18

**Board Certified:**

American Board of Orthopedic Surgeons, July 1988  
American Board of Orthopedic Surgeons, Recertified 1996, 2007, 2017

**Certifications:**

Kyphon, Phoenix, AZ—2001  
Charite Artificial Lumbar Disc—2005  
Dynesys Stabilization Training - October 30,2006  
Medtronic Artificial Cervical Disc—2007

**Active Staff:**

Swedish Hospital Medical Center, Seattle: Washington – 1986-present

**Honors and awards:**

Magna Cum Laude  
Pacific Union College, Angwin, CA  
1971- 1975

Alpha Omega Alpha  
Loma Linda University  
Loma Linda, CA  
1975-1979

Best Doctors of America, 2007—2017

Washington Magazine “Best Docs” 2010

Checkbook – Best Doctor - 2015

President’ Honor Roll – WorkCompCentral – 2015 – Contribution to Worker’s Comp

**Professional Activities**

**Affiliations:**

Alpha Omega Alpha, 1978  
American Medical Association, 1979  
King County Medical Society, 1986-Present  
Washington State Orthopedic Association, 1987-Present  
Washington State Medical Association, 1988-Present  
North American Spine Society, 1988-Present  
Fellow American Academy of Orthopedic Surgeons, 1990  
Western Orthopedic Association, Puget Sound Chapter, 1991-1998  
American College of Physician Executives, March 1995-1999  
Idaho Medical Association, January 1999-2003  
Idaho Orthopedic Society 1999-2003  
Scoliosis Research Society- March 2008 - 2018  
Charter for Compassion—Partner, May 2011-present

**Directorships:**

President of the Puget Sound Spine Society – 2017-2019  
  
Co-director of Seattle Combined Spine Fellowship, June 2009 - present  
  
Premera associate medical director—orthopedic surgery  
November 2006- December 2015

**Committee Positions:**

Chairman-elect of the non-operative care committee for the Scoliosis Research Society 2019  
  
Puget Sound Health Alliance  
March- October 2006  
  
Non-Operative Care Committee--North American Spine Society 1999  
  
Medical Standards Subcommittee  
Washington State Department of Labor and Industry  
1989-1993  
  
WMSA Orthopedic Representative on the DOLI Liaison committee  
1987-1989

**Board Positions:**

Swedish Spine Institute, June 1990  
Swedish Hospital Foundation Board, 1991

**Faculty Positions:**

Clinical Faculty, Department of Orthopedics, University of Washington School of Medicine,  
Seattle, Washington, January 1, 1989 – 1996  
  
Clinical Faculty, UC Davis, Sacramento, California, July 1984 – December 1984

**Miscellaneous Professional Activities:**

President: Puget Sound Spine Society, 1997-1998 and 2016-18

Founder: Puget Sound Spine Society.  
Founded January 1987

Hoffman Institute Process, February 20-27, 2009, Napa, CA

### **Consulting**

Medical Consultant for First Health for surgical approval of orthopedic surgery, State of Washington Department of Labor and Industries 1996-1998

Founder and Medical Director, Swedish Hospital Spine Registry  
1991-1998

Premera - consultant for musculoskeletal care. November 2006 – December 2015

### **Program chair/ co-chair**

*Optimizing Adult Spinal Deformity Surgery: It Takes a Village.* Swedish Medical Center, Seattle, WA, Jan 16<sup>th</sup>, 2015.

*Treating Chronic Pain Using the MBS model.* Two-hour symposium for the American Osteopathic Association Annual Meeting, Seattle, WA, October 27<sup>th</sup>, 2014. Faculty: Dave Clarke, MD, David Schechter, MD, Joel Konikow, MD. and Gordon Irving, MD

*Optimizing Performance in the OR and Life.* Scoliosis Research Society Annual Meeting, Anchorage, AK, September 2014

*A Course on Compassion: Empathy in the Face of Chronic Pain,* Swedish Medical Center, Seattle, WA, March 11<sup>th</sup>, 2011

*Pressure Performance: An Athletic Performance Paradigm for Treating and Preventing Disability in Axial Low Back Pain.* Seattle, WA, April 3<sup>rd</sup>, 2009

*Stress Management Using the Awareness Model—*Seattle, WA, September 2008

*Overview of Chronic Pain.* Elks Rehab, Boise, ID, 2001

*Comprehensive Management of Low Back Pain.* Sun Valley, ID, 2000

*Toward a New Understanding of pain.* Puget Sound Spine Interest Group. Seattle, WA, 1994

*Team Management of Low Back Pain.* Annual Post Graduate Convention - Neufeld Society, Loma Linda, 1993

*Medical/Surgical Symposium of the Osteoporotic Spine.* Swedish Spine Institute, Seattle, WA, November 1993.

*Cervical and Head Trauma in Athletes.* Swedish Spine Institute, Seattle, WA, October 1990

### **Workshops/ Seminars**

*Rewiring Your Brain to Alleviate Pain.* Omega Institute, Rhinebeck, New York. Five-day experiential workshop for chronic pain using the MBS model. Co-presenters: Fed Luskin, PhD and Babs Yohai. August 18-23<sup>rd</sup>, 2013, August 15-19<sup>th</sup>, 2014, July 19-24, 2015

*Relief from Chronic Pain.* Omega Institute, July 2017 and Talaris, Seattle, WA, September 2017. Three-day experiential workshop using the *Back in Control* principles to create a safe and structured environment.

*Awake at the Wound Seminar—Athletic Performance Principles for Surgeons*

- Newcastle Golf Club, March 2007 and October 2007
- Grand Targhee, Idaho, March 2008
- Swedish Hospital, Seattle, WA, March 2010
- Maine Medical Center, Portland, Maine, March 18<sup>th</sup>, 2010
- Swedish Hospital Administration, April 29<sup>th</sup>, 2010

*Stress Management for Teachers*

Annual Hyde Parent Teacher Symposium  
Woodstock, CN, June 21<sup>st</sup>, 2008

#### **Businesses:**

Founder/ President of Vertus, Inc. 2001.

- Back in Control/ Direct your Own Care (DOC) – Structured approach to chronic pain
- Awake at the Wound – Applying athletic performance principles to surgery
- Creating Connection in Class (CCC) – Addressing anxiety in the classroom

#### **Author:**

Hanscom, David. *Back in Control: A Surgeon's Roadmap Out of Chronic Pain, second edition,* Vertus Press. Seattle, WA, 2016.

Hanscom, David. *Back in Control: A Spine Surgeon's Roadmap Out of Chronic Pain.* Vertus Press, Seattle, WA, 2012.

Co-editor of the STOMP (Structuring the Management of My Pain) introductory chronic pain booklet: August 2012.

#### **Peer Review Publications:**

Garland D, Hanscom D, Keenan M, Smith C, Moore. Resection of heterotopic ossification in the adult with head trauma. *J Bone and Joint Surg*1985; 67A: 1261 –1269.

Hanscom DA. Acute management of the multiply injured head trauma patient. *J head Trauma Rehab* 1987; 2:1-12.

Hanscom DA, Bloom BA. The spine in osteogenesis imperfecta. *Orthop Clin of North Am* 1988; 19(2): 446-458.

Hanscom DA, Winter R, Lutter L, Lonstein JE, Bloom BA, Bradford D. Osteogenesis Imperfecta: Radiographic classification, natural history, and treatment of spine deformities. *J Bone and Joint Surg* 1991; 74A: 598-616.

Cameron DE, Hanscom DA, Herring S. Rapid development of a spinal synovial cyst. *Spine* 1992; 17:1528-1530.

Carpenter C, Dietz J, Hanscom DA, Leung KYK, Wagner T. Repair of a Pseudarthrosis of the Lumbar Spine: A functional Outcome Study. *Journal of Bone and Joint Surgery* 1996; 78-A: 712-720.

Hanscom DA, Jex R. Sleep Disorders, Depression and Musculoskeletal Pain. *SpineLine* September/October 2001; 56-58.

Robinson J, Ricketts D, Hanscom DA. Musculoskeletal Pain. *The Paths of Pain* 2005; IASP Press, Seattle: 353-366.

Knight RZ, Schwaegler P, Hanscom DA, Roh J. Direct lateral lumbar interbody fusion for degenerative conditions: early complication profile. *J Spinal Disord Tech.* 2009; Feb; 22(1): 34-7.

Hussain N, Hanscom DA, and Oskouian R. Chyloretroperitoneum following anterior spinal surgery: report of 4 cases. *J Neurosurg: Spine* 2012; September 14<sup>th</sup>, 1-7.

Hussain N, Page J, Perez-Cruet M, Hanscom, D, Oskouian, R. Same Site Autologous Bone Graft Harvesting in Spinal Fusions. Submitted to *JNS Spine*, 5.14.

Hanscom, David A, Brox JI, and Bunnage R. Defining the Role of Cognitive Behavioral Therapy in Treating Chronic Low Back Pain: An Overview. *Global Spine Journal* 2015; 5:496-504.

Shoakazemi A, Moisi M, Tubbs R, Wingerson A, Ajayi O, Zwillman M, Gottlieb J and Hanscom D. (January 25, 2016) Necrotizing Fasciitis: A Life-threatening Complication of Intraoperative Electromyography. *Cureus* 8(1): e468. DOI 10.7759/cureus.468

Moisi, M, Fisahn C, Tkachenko L, Tubbs S, Ginat D, Grunert P, Jeyamohan S, Reintjes S, Ajayi O, Page J, Oskouian R, Hanscom D. Unilateral Laminotomy with Bilateral Spinal Canal Decompression for Lumbar Stenosis: A Technical Note. *Cureus* (2016); 8:e623, pp 1-11.

Moisi M, Fisahn C, Tubbs S, Page J, Paulson D, Kazemi N, Hanscom D, Oskouian, R. Lateral thoracic osteoplastic rib-sparing technique used for lateral spine surgery. *Cureus* (2016); 8: e668. DOI 10.7759/cureus.668.

**Published Abstracts:**

Hanscom, DA; Sinter, R; Lutter; Lonstein, J; Bradford, D: Spinal deformity in osteogenesis imperfecta: Natural history and treatment. *Orthop. Trans* 11(1): 120, 1987

**Exhibits:**

Poster: Spinal deformities in Osteogenesis Imperfecta. American Academy of Orthopedic Surgeons Annual Meeting, San Francisco, CA, February 1986

### **Published Articles:**

*Aching Back? Why Surgery Is Not Indicated for Lower Back Pain, Case In Point*, July 2012.  
(Reproduced with permission from Case in Point)

*A Surgeons' Perspective on the Hoffman Process. Staying Connected*, March 2012.

*Defining Solutions for Workers' Comp: Ability and Motivation. American Chronic Pain Association Chronicle*, March 2012.

*Physician Suicide: My Journey. SpineLine*, p. 42, November/ December, 2011.

*Back from the Edge: Coping with Physician Stress. The Doctor's Advocate*, 4<sup>th</sup> quarter, 2011.

*The Cry of Chronic Pain-No One is Listening. WSMA Preceptor*, pp. 1-2, 3<sup>rd</sup> quarter, 2011.

### **Published Books:**

*Back in Control: A Spine Surgeon's Roadmap Out of Chronic Pain*. Vertus Press, Seattle, WA, October 2012.

*Back in Control: A Surgeon's Roadmap Out of Chronic Pain, 2<sup>nd</sup> edition*, Vertus Press, Seattle, WA, November 2016.

*What You Really Need to Know About Back Surgery: Advice from a Spine Surgeon*. Being submitted for publication, 4.14.

### **Presentations:**

1. *Surgical management of non-radicular neck pain*

Washington Spine Institute  
Bellevue, WA, November 2, 1995

2. *Early fractures stabilization in the poly-traumatized patient*

AAOS, New Orleans, LA, February 1986

3. *Management of Dupuytren's contractures*

Panel discussant, Residents' and Fellows' Hand Conference  
Las Vegas, NV, January 1985 and Grand Rounds UC Davis, Sacramento, CA, May 1985

4. Table Instructor

AO Course  
Sun Valley, ID, March 1985

5. *Spinal deformities in Osteogenesis Imperfecta: Natural history and treatment.*

- Minnesota Medical Society, Minneapolis, May 1986
- Scoliosis Research Society, Bermuda, September 1986
- American Academy of Orthopedic Surgeons, San Francisco, 1986
- Pediatric Orthopedic Society, Toronto, May 1987

6. *Operative management of L1 burst fractures.* Washington State Medical Association Meeting, Lake Chelan, WA, June 1998
7. *Surgical Indications for Back Surgery in Injured Workers.* Washington State Labor and Industries Conference, Seattle, WA, 1989
8. *Comparative Lumbar Fusion Rates in Smokers versus Non-smokers.* Puget Sound Spine Interest Group, Seattle, WA, September 1990
9. *Boston Brace Treatment of Low Back Pain in Patients.*
  - Puget Sound Spine Interest Group, Seattle, WA, November 1989
  - North Pacific Orthopedic Society, Semi-Ah-Moo, WA, May 1990
10. *Surgical treatment of the osteoporotic spinal deformity.* Medical/Surgical Symposium of the osteoporotic spine, Swedish Medical Center, Seattle, WA, November 1991
11. *Anterior/Posterior Spine Fusion: Simultaneous vs. Sequential vs. Staged.* With: Wagner, T; Leung, L; Heegard, E; Flener, J; Yamamoto, S. Puget Sound Chapter of the Western Orthopedic Association Semi-Ah-Moo, WA, May 1992
12. *Primary Steffee fusion for positive discograms.* With: Mark Remington. Puget Sound Chapter of the Orthopedic Association, Semi-Ah-Moo, WA, May 1992
13. *Low back pain: The physician part of the problem.* Symposium of Non-Radicular Low Back Pain, Loma Linda, CA February 1993
14. *The use of the Boston brace.* Symposium of Non-Radicular Low Back Pain, Loma Linda, CA February 1993
15. *The use of Spine Intake Questionnaires.* Symposium of Non-Radicular Low Back pain, Loma Linda, CA February 1993
16. *Failed low back syndrome.* Northwest Spine Review, Virginia Mason, Seattle, Washington, May 1993
17. *Complications of lumbar spine surgery.* Northwest of Spine Review, Virginia Mason, Seattle Washington, May 1993
18. *Surgical management of non-radicular neck pain.* Washington Spine Institute, Bellevue, WA, November 2, 1995
19. *Role of spine Fusion in the injured worker.* Idaho Annual Workers Comp Symposium, June 2002, Boise ID
20. *When is a chronic pain perspective appropriate?* Physical Medicine and Rehabilitation Review Course, Univ. of Wash, Seattle, WA, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2017, 2018.



21. *Axial neck pain- Surgeons Perspective*  
Advances in The Treatment of Spinal Dysfunction - Physiotherapy Associates, Seattle, WA,  
March 3, 2005
22. *Defined Organized Conservative Spine Care*. Washington State Society Pain Annual  
Meeting- November 2006
23. *Treating the Imperfect Patient: What to do with those who do not meet the Inclusion Criteria*,  
NASS 22<sup>nd</sup> Annual Meeting, Austin, TX, October 25, 2007
24. *Orthopedic Surgeon's Perspective on Axial Neck Pain after Motor Vehicle Accident,  
including Causality*. Washington State Trial Lawyers Association, Seattle, WA, November 1,  
2007
25. *Axial Low Back Pain—State of the Union and New Patient Classification*.
  - U of Washington Grand Rounds—January 2007, Seattle, WA
  - Henry Ford Hospital Grand Rounds—March 2008, Detroit, MI
  - Swedish Hospital Annual Nursing Symposium—October 2008, Seattle, WA
26. *Pressure Performance—A New Paradigm in Treating and Preventing Disability in Low Back  
Pain Patients*; Swedish Hospital Symposium, April 3<sup>rd</sup>, 2009
  - *Medical Profession's Contribution to the Problem*
  - *DOC Project—Implementation*
  - *A New Definition of Conservative Care*
  - *Overview of the Athletic Performance Model Applied to Stress Management  
Awareness Applied to You and Your Patients*
27. *Professional Burnout*. Puget Sound Spine Interest Group, Bellevue, WA, March 23<sup>rd</sup>, 2010
28. *DOC Overview*. Provsorce Alliance, SeaTac, WA, May 21<sup>st</sup>, 2010.
29. *Creating a Vision—Awake or Asleep at the Wound*. Annual Residents' and Fellows' Course,  
Seattle Science Center, Seattle, WA, June 5<sup>th</sup>, 2010
30. *LBP—State of the Union—DOCC Principles*. Spine Management for the Primary Care  
Physician. Swedish Medical Center, Seattle, WA, June 25<sup>th</sup>, 2010.
31. *Low Back Pain - State of the Union*. Lecture to University of Washington Pain Center  
Conference, Seattle, WA, July 6<sup>th</sup>, 2010.
32. *Creating Your Vision*. Awake at the Wound lecture - SpineOne fellows course, Seattle  
Science Foundation, Seattle, WA, August 22<sup>nd</sup>, 2010.
33. *DOC Project Basics*. Lecture to family practice residents, Swedish Medical Center, Cherry  
Hill, Seattle, WA, August 31<sup>st</sup>, 2010.
34. *Physician Burnout*, Lecture to pain fellows, University of Washington Pain Center, Seattle,

WA, September 16<sup>th</sup>, 2011.

35. *DOC Project Basics*, Presentation to Northwest Sports and Spine Physicians, Bellevue, WA, September 21<sup>st</sup>, 2010.

36. *Athletic Performance Principles Applied to the Operating Room*. Awake at the Wound presentation to the New England Vascular Society annual meeting, Rockport, ME, Sept 25<sup>th</sup>, 2010.

37. *Overview of the Athletic Performance Model Applied to Surgeons*. Seattle Surgical Society bi-monthly meeting, Seattle, WA, Sept 27<sup>th</sup>, 2010.

38. *LBP—State of the Union—DOC principles*. Seattle Sports and Spine bi-monthly Interest Group meeting, Seattle, WA, September 28<sup>th</sup>, 2010.

39. *Empathy in Evaluating Patients in Chronic Pain*. Seminar for pain fellows, University of Washington Pain Center, Seattle, WA, September 30<sup>th</sup>, 2010.

40. *Complex Spinal Surgery in the Context of the DOC Principles*. Orthopedic Conference, Swedish Medical Center, Seattle, WA, October 8<sup>th</sup>, 2010.

41. *Compassion in Dealing with Patients in Chronic Pain*. Annual Pain Seminar of the Pain Society of Oregon, Vancouver, WA, Feb 28<sup>th</sup>, 2011.

42. *Perfectionism—the Disconnect*. A Course on Compassion seminar, March 11<sup>th</sup>, 2011, Swedish Medical Center, Seattle, WA

43. *Awake at the Wound: Applying Athletic Performance Principles to Surgery*. One Spine fellows and residents' seminar, Swedish Medical Center, Seattle, WA, August, 20<sup>th</sup> and 21<sup>st</sup>, 2011.

44. *Enjoying the Management of Chronic Pain*

- Puget Sound Spine Interest Group, Seattle, WA, Nov 17<sup>th</sup>, 2011
- Peace South Hospital Staff Meeting, Vancouver, WA, Jan 16, 2012
- Webinar hosted by the “Workfitnessdisabilityroundtable”, Sept 13<sup>th</sup>, 2012
- North Pacific Orthopedic Society, Seattle, WA, Sept 15<sup>th</sup>, 2012
- Impairment Without Disability conference hosted by The Mayo Clinic, St Paul, MN, Oct 11<sup>th</sup>, 2013

45. *Indications for Spine Surgery: Structural versus Non-structural Issues*

- University of Washington Pain Center, Sept 18<sup>th</sup>, 2012, Sept 30, 2013.
- Premera Assistant Medical Director's Retreat, Oct 8<sup>th</sup>, 2012.

46. *Pediatric Spine for Primary Care*. Ninth Annual Pediatric Specialty Update for the Primary Care Physician. Swedish Hospital, Seattle, WA, Jan 25, 2013

47. *Managing the Difficult Patient*. Swedish Medical Center In-service, May 23, 2013.

- University of Washington Pain Service. Weekly lecture series, Sept 3<sup>rd</sup>, 2013.

48. *Assembling a Spine Center*. Spine Business Summit, Barrow Neurological Institute, Phoenix,

AZ, Jan 31<sup>st</sup>, 2013.

49. *Assembling a Spine Center*. Spine Business Summit, Texas Back Institute, Dallas, TX, Feb 27<sup>th</sup>, 2014.

50. *Not Doing Spinal Deformity Surgery*. Swedish Medical Center Cherry Hill Grand Rounds, May 1<sup>st</sup>, 2014.

51. *Structured Approach to Chronic Pain*. Speaker, Russo CME, Eugene Oregon, June 7<sup>th</sup>, 2014.

52. *Am I Operating on Your Pain or Anxiety?* American Osteopathic Association Annual Meeting, Seattle, WA, October 27<sup>th</sup>, 2014.

53. *Optimizing Patient Selection for Deformity Surgery*. Presentation at the course, "Optimizing Adult Spinal Deformity Surgery: It Takes a Village." Swedish Medical Center, Seattle, WA, Jan 16<sup>th</sup>, 2015.

54. *Prehab: Optimizing Spine Surgery Outcomes*. CME Russo, Wenatchee, WA, January 30, 2015.

55. *Implementing a Prehab Approach for Spine Surgery*. Peace Health Primary Care Conference, Bellingham, WA, March 6th, 2015.

56. *Implementing a Structured Care Approach for Chronic Pain*. Lecture to the medical community, Wenatchee, WA, April 2015.

57. *Am I Operating on Your Pain or Anxiety?* SIRPA Course on Mind Body Syndrome. London, April 2015.

58. *Putting it All Together*. One Spine Course, Seattle Science Foundation, Seattle, WA, August 15th, 2015.

59. *A Structured Approach to Solving Chronic Pain and Spine Surgery in the Presence of Chronic Pain*. WOMA, Yakima, WA, March 19<sup>th</sup>, 2015

60. *Spine Surgery in the Presence of Chronic Pain*. Swedish/ Russo LBP conference, Yakima, WA, March 19<sup>th</sup>, 2015.

61. *The Role of Sleep in Chronic Pain*. Lecture to Swedish Cherry Hill Sleep Center, Seattle, WA, April 27<sup>th</sup>, 2016

62. *The Neurological Basis of Chronic Pain. Mental Health in Workers Compensation*, Seattle, WA, April 16<sup>th</sup>, 2016.

63. *Integrating Behavioral Health into Spine Care*. Behavioral Health Business Summit, Chicago, IL, May 12, 2016.

64. *From Reactive to Creative: Transforming Anger*. Keynote speaker, ARPA, Melbourne, Australia, Aug 7<sup>th</sup>, 2016.

65. *Neurophysiological Basis of Chronic Pain and Treating Chronic Pain from a Whole Person*

*Perspective*. Keynote speaker, Southern Pain Society, New Orleans, LA, October 1, 2016.

66. *Reactive to Creative: Transforming the Anger of Pain*. WSIA Spring Conference, Seattle, WA, March 17<sup>th</sup>, 2017.

67. *Neurophysiological Basis of Chronic Pain*. South Central Foundation, Anchorage, AK. March 21<sup>st</sup>, 2017.

68. *Implementing a Structured Spine Care Program*. Tri-Cities Pain Conference, Pasco, WA, April 28<sup>th</sup>, 2017.

69. *Automated Systems Approach to Profiling Patients*. One Spine Masters Course, Seattle, WA. June 24, 2017.

70. *The Neurophysiological Basis of Chronic Pain*. Keynote speaker, Oregon Physical Therapy Association Annual meeting, Portland, OR, September 30<sup>th</sup>, 2017.

71. *Curing Chronic Pain*. SIRPA conference, London, October 15<sup>th</sup>, 2017.

72. *Optimizing Surgical Outcomes through Prehab*. Spokane Pain Conference, Spokane, WA, October 28<sup>th</sup>, 2017.

73. *The Perils of Spine Surgery: A Surgeon's Roadmap Out of Chronic Pain*. Google talks, February 27<sup>th</sup>, 2018. <https://www.youtube.com/watch?v=B5cwZ2iu8jU&t=2912s>.

74. *The Neurophysiological Basis of Chronic Pain*. Therapeutic Associates, Seattle, WA, March 3<sup>rd</sup>, 2018.

75. *Optimizing Surgical Outcomes: Prehab*. Wenatchee Valley Medical Conference, Wenatchee, WA, April 13<sup>th</sup>, 2018.

76. *Optimizing Surgical Outcomes: Prehab*. Seattle Science Foundation, Seattle, WA, April 18<sup>th</sup>, 2018.

### **Outside interests:**

#### **Current:**

Golf, tennis, snow skiing, weight training, reading, bird watching, writing poetry, table tennis, public speaking, non-fiction writing

#### **Past:**

Water skiing, basketball, racquet ball, jogging, slow-pitch softball, hiking, fishing, trumpet

**Updated 4.23.18**