

## Miguel ('Mick') Antonio Schmitz, M.D.

Alpine Orthopaedic and Spine, P.C.

Correspondence address: P.O. Box 7521; Spokane, WA 99207  
Physical location: 1123 North Evergreen; Spokane Valley, WA 99216

P: (509) 435-0973

F: (509) 420-9313

C: (509) 688-9236

[mschmitz@alpineorthospine.com](mailto:mschmitz@alpineorthospine.com)

<http://www.AlpineOrthoSpine.com>

<https://orcid.org/0000-0002-7350-2605>

Qualified Medical Examiner; Workers' Compensation; State of California

### Education

#### Fellowship

Massachusetts General Hospital/Brigham and Women's Hospital/Harvard Combined Orthopaedic Programs; Kirkham Wood, MD, Christopher Bono, MD, Mitchell Harris, MD; 9 other orthopaedic and neurosurgeon spine surgeons; <b>Spine Surgery</b> ; 55 Fruit Street; Boston, MA 02115; 617-525-7743 or 617-724-3262	August 1, 2007-July 31, 2008
University of Rochester/Strong Memorial Hospital; Kenneth DeHaven, MD; Lucien Rouse, MD; Robert Bronstein, MD; <b>Sports Medicine/Arthroscopy</b> ; 601 Elmwood Avenue; PO Box 604; Rochester, NY 14642	August 1, 1995-July 31, 1996

#### Residency; Orthopaedic Surgery

University of Texas Southwestern Medical School and affiliated hospitals; 5323 Harry Hines Blvd.; Dallas, TX 75235; 214-648-5617	July 1, 1991-June 30, 1995
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#### Internship

General Surgery, University of Texas Southwestern and affiliated hospitals; Dallas County Hospital District; 5200 Harry Hines Blvd; 214-648-9845	July 1, 1990-June 30, 1991
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#### Medical School

University of Washington Medical School; Graduated with Honors; Inducted into <i>Alpha Omega Alpha</i> Medical Honor society-1990; Medical Honors Thesis in Biochemistry-1989, University of Washington Medical School; Seattle, Washington; 1400 NE Campus Pkwy; Office of the Registrar; Seattle, WA 98195; 206-543-7212; registrar@u.washington.edu	September 1986-June 19, 1990
Montana State University (within WWAMI system of University of Washington), Bozeman, Montana	September 1986-June 1987

#### Undergraduate

Carroll College; Graduated <i>Summa Cum Laude</i> and with Honors; Delta Epsilon Sigma Honor Society; B.A. in Biology; Minor in Chemistry, Helena, Montana	August 1982-May 1986
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#### High School

Salpointe Catholic High School; National Honor Society; Tucson Student-Athlete Nominee, Tucson, Arizona	August 1978-May 1982
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### Academic Positions [Post-training]

Washington State University; Elson S. Floyd College of Medicine Clinical Assistant Professor	2019-Present
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University of Washington MEDEX Physician Assistant Training Program Clinical Assistant Professor	2022-Present
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Heritage University: Physician Assistant Educational Program Preceptor	2017-Present
Oregon Health Sciences University Adjunct Assistant Professor, Department of Family Medicine	2000-2007
Oregon Health Sciences University Clinical Instructor, Department of Family Medicine	2000

<b>Journal Peer Reviewer</b>	
Spine	2020-Present
Journal of Orthopaedic Surgery & Research	2025-Present
<b>Current Position</b>	
Alpine Orthopaedic & Spine, PC Correspondence address: P.O. Box 7521; Spokane, WA 99207 Physical address: 1123 North Evergreen; Spokane Valley, WA 99216 ExamWorks; Providing Independent Medical Evaluations Idaho MES Solutions; Providing Independent Medical Evaluations Idaho	2009-Present 2024-Present 2024-Present
Qualified Medical Examiner California Department of Workers' Compensation; January 2026	2026-Present
<b>Professional Experience</b>	
Spokane Orthopedic Clinic 220 East Rowan; Suite 100 Spokane, WA 99207 ( <b>CLOSED CLINIC</b> ) Massachusetts General Hospital/Assistant in Orthopaedic Surgery 55 Fruit Street; Boston, MA 02114 Brigham and Women's Hospital 75 Francis Street; Boston, MA 02115 Klamath Orthopedic and Sports Medicine Clinic 2200 Bryant Williams Klamath Falls, OR 97601 Lakewood Orthopaedic Clinic 1805 Kipling Street Lakewood, CO 80215 ( <b>CONSOLIDATED INTO PANORAMA ORTHOPAEDICS</b> ) Sports Medicine Center of Metro Detroit Troy, MI ( <b>CLOSED CLINIC</b> ) Irving Emergency Care Center; H.E.B. Emergency care, Texas	2008-2009 2007-2008 2007-2008 1999-2007 1998-1999 1996-1998 1994-1995
<b>Research-Related Employment</b>	
University of Rochester Department of Orthopaedics Laboratory University of Texas Southwestern Orthopaedics Laboratory Edwin Krebs, MD and Steven Pelech, PhD; Howard Hughes Medical Institute; University of Washington, Seattle, WA Argonne National Laboratory; Chicago, IL; Under management of University of Chicago Argonne National Laboratory; Chicago, IL; Under management of University of Chicago	1996(August-October) 1994 1987(Summer) 1986(Summer) 1985(Summer)
<b>Sports Medicine &amp; Team Coverage</b>	
University of Rochester; Assistant Attending in Orthopedics Rochester, NY	1995-1996
St. John Fisher College (NCAA Division III); Team Physician	1995-1996

Rochester, NY	
Rochester Amerks (Hockey); Assistant Team Physician Rochester, NY	1995-1996
Rochester Red Wings (AAA Baseball); Assistant Team Physician Rochester, NY	1995-1996
Empire State Games; Team Physician Buffalo, NY	1996
Empire State Games; Team Physician Ithica, NY	1995

<b>Hospital Affiliations</b>		
<b>Hospital[Since 2008 Spokane]</b>	<b>Address</b>	<b>Time period</b>
Multicare Valley Hospital	12606 East Mission Avenue; Spokane Valley, WA 99216	September 25, 2020-Current
Whitman Hospital	1200 West Fairview Street; Colfax, WA 99111	2013-Current
Multicare Deaconess Medical Center	800 W 5 <sup>th</sup> Avenue; Spokane, WA 99204	February 1, 2009- November 2024
Holy Family Medical Center	5633 N. Lidgerwood; Spokane, WA 99208	August 1, 2008- September 2024
<b>Hospital[Before 2008]</b>	<b>Address</b>	<b>Time period</b>
Massachusetts General Hospital/Harvard Combined Orthopaedic Program	55 Fruit Street; Boston, MA 02114	August 1, 2007-July 31, 2008
Brigham and Women's Hospital/Harvard Combined Orthopaedic Program	75 Francis Street; Boston, MA 02115	August 1, 2007-July 31, 2008
Skylakes Medical Center	2865 Daggett Avenue; Klamath Falls, OR 97601	October 18, 1999-2008
Klamath Surgical Center	2640 Biehn Street; Klamath Falls, Oregon 97601	2000-2008
Centura St. Anthony Hospital – Central	4231 W. 16th Avenue; Denver, CO 80204	1998-1999
Centura St. Anthony Hospital – North	2251 W. 84 Avenue; Westminster, CO 80033	1998-1999
Exempla Lutheran Hospital	8300 W. 38th Avenue; Wheat Ridge, CO 80033	1998-1999
Columbia Lakewood Surgical Center	2210 Wadsworth Blvd; Lakewood, CO 80215	1998-1999
HealthSouth Denver West Surgical Center	13952 Denver West Parkway Bldg. 53, #100; Golden, CO 80401	1999
Columbia North Suburban Medical Center	9191 Grant Street; Thornton, CO 80229	1998-1999
Detroit Receiving	4201 St Antoine;Detroit, MI 48201; 313-745-3120; 313- 745-3000	1996-1998
Grace Hospital	6071 West Outer Dr; Detroit, MI 48235; 313-966-3224; 248-966-3224	1996-1998
Harper Hospital	3990 John R; Detroit, MI 48201; 313-745-2332; 313- 745-8040	1996-1998
Huron Valley Hospital	1 William Carls Drive; Commerce, MI 48382; 248- 360-3335; 248-360-3300	1996-1998
Hutzel Hospital	3990 John R Street; Detroit, MI 48201; 313-745-7278	1996-1998
Rehab Institute of Michigan	261 Mack; Detroit, MI 48201; 313-745-9848; 313-745-1203	1996-1998

Sinai Hospital	6767 W. Outer Drive; Detroit, MI 48235; 313-493-5087; 313-493-6800; HOSPITAL CLOSED	1996-1998
William Beaumont Troy	44201 Dequindre Road; Troy, MI 48098-1198; 248-828-5150; 248-828-5100	1996-1998
North Oakland Medical Center	461 West Huron; Pontiac, MI 48341; 248-857-7226; 248-857-7200	1996-1998
St Joseph Mercy Oakland Hospital	44405 Woodward, Avenue; Pontiac, MI 48341; 248-858-3132; 248-858-3000	1996-1998
Oakland General	27351 Dequindre Road; Madison Heights, MI 48071; 248-967-7790; 248-967-7000	1996-1998
Strong Memorial Hospital & University of Rochester	601 Elmwood Ave, Rochester, NY 14642; (585) 275-2100	1995-1996
Texas Health Presbyterian Hospital Dallas	8200 Walnut Hill Lane; Dallas, TX 75231	1994-1995
Dallas Spine Hospital	Closed	1993-1995
Texas Scottish Rite Hospital	2222 Welborn Street; Dallas, TX 75219	1991-1995
Parkland Memorial Hospital Dallas	5200 Harry Hines; Dallas, TX 75235	1990-1995
St Paul's Hospital Dallas	Closed	1995
Dallas Children's Hospital	1935 Medical District Drive; Dallas, TX 75235	1990-1995
Baylor University Medical Center; Now Baylor Scott & White Health	3500 Gaston Avenue; Dallas, TX 75246	1992-1995
Dallas Veterans Administration Medical Center	4500 S Lancaster Road; Dallas, TX 75216	1990-1995
Zale Lipshy Medical Center	5151 Harry Hines Blvd; Dallas, TX 75390	1990-1995
Norfolk & Norwich Medical Center-Norwich, U.K.	Colney Lane; Norwich NR4 7UY; United Kingdom; +44 1603 286286	1994-1995
University of Washington Hospital; Harborview Medical Center; Seattle VAMC; Seattle Children's Hospital; Northwest Hospital-Seattle; Sacred Heart Medical Center-Spokane; Valley Medical Center-Spokane Valley, St. Vincent's Hospital-Billings, MT; Deaconess Medical Center-Billings, MT; University of California San Diego Neurosurgery; University of Texas Southwestern-Dallas Orthopaedic Surgery	University of Washington Medical School only	1988-1990

## Certification and Licensure

### Board Certification

<b>American Board of Orthopaedic Surgery</b>	1998-2028
July 16, 1998, through December 31, 2028	
Recertified 2008 via written <b>99%ile score</b> and 2018 via oral pathway	
<b>American Board of Orthopaedic Surgery Certificate of Added Qualification for Sports Medicine</b>	2008-2028
November 7, 2008, through December 31, 2028	
Certified in 2008 with <b>95%ile score</b> & Recertified 2018 via oral pathway	

### Active/Inactive Licensure

WA 38062; Issued: 11/4/1999	Active
ID M-15421; Issued: 10/7/2020	Active
CA A70719; Issued: 1/21/2000	Active
OR MD22103; Issued: 10/15/1999	Inactive
CO 36788; Issued: 2/12/1998	Inactive: 5/31/2011
MA 230712; Issued: 1/24/2007	Expired: 3/14/2010
TX J0248; Issued: 12/4/1991	Expired: 5/31/1998
NY 199663; Issued: 6/14/1995	Expired: 5/31/1997
MI 4301068871; Issued: 7/23/1996	Expired: 1/31/2000

### Other Certifications

Advanced Trauma Life Support	1990
Advanced Cardiac Life Support	1990

## Credentialing Numbers

NPI for Alpine Orthopaedic and Spine, PC	1922334804
NPI for Miguel Schmitz	1023031119
Miguel Schmitz PTAN	G8887851
Federal Employer ID Number	27-1137489
Federal DEA	BS 5857961
Idaho DEA	FS 2120260
Idaho State Board of Pharmacy Number	CS 68016

## Board Positions

YMCA-Member of Board of Directors	2000-2002
Klamath Falls Independent Physicians Association-Member of Board of Directors	2002-2006

## Hospital Committee Positions

Merle West Medical Center [now known as Skylakes Medical Center]:  
Trauma Committee  
Skylakes Medical Center: Transfusion Committee

## Society Memberships

North American Spine Society	2009-Present
Spokane County Medical Society	2009-Expired
Arthroscopy Association of North America	2002-Present
American Orthopaedic Society for Sports Medicine	2002-Present
American Academy of Orthopaedic Surgeons Member	2000-Present
Alpha Omega Alpha Medical Honor Society (University of Washington)	1990-Present
American Medical Association	1987-Present
Delta Epsilon Sigma Honor Society (Carroll College)	1985-Present
Oregon Medical Society	1999-2008

Clear Creek Valley Medical Society	1998-1999
Denver Medical Society	1998-1999
Colorado Medical Society	1998-1999
Oakland County Medical Society	1997-1998

### Honors and Awards

The John Richardson Prize for Anatomical Studies; Montana State University; Bozeman, MT	1986
Medical Thesis Honor in Biochemistry; University of Washington; Seattle, WA	1989

### Publications

Kubitschek H: Increase in Cell mass during the Division Cycle of <i>Escherichia coli B/rA</i> . <i>Journal of Bacteriology</i> 168(2): 613-618, 1986; Involved in technical assistance for this study at Argonne National Laboratories, Illinois	1985-1986
Cell Growth of <i>Saccharomyces cerevisiae</i> , submitted in partial fulfillment of the requirements for graduation with honors in the Department of Biology at Carroll College-Helena, Montana	
Cell Cycle Studies of <i>Escherichia coli</i> exposed to cephalexin, unpublished.	
Honors Thesis-University of Washington: Characterization of a Trypsin Activated Kinase that may be related to Protein Kinase C in Swiss Mouse 3T3 Cells, under Edwin Krebs, MD and Steven Pelech, PhD. (Howard Hughes Medical Institute)	1986
<b>Schmitz MA</b> , Burton D, Rodrigo J, Finnegan M, May H, Silliman J: The Effect of Synovial Fluid from Acute and Chronic Knee Injuries and Osteoarthritis on <i>In Vitro</i> Chondrocyte Proliferation. <i>Orthopaedic Transactions</i> 18(3): 920, 1994.	1994
<b>Schmitz MA</b> , Champine J, Finnegan M: The Effect of Smoking on the Clinical Healing of Tibia Shaft Fractures. <i>Orthopaedic Transactions</i> 19(2): 499, 1995.	1995
<b>Schmitz MA</b> , Harris J, May H, Finnegan M, Silliman J: Synovial fluid versus serum in <i>in vitro</i> chondrocyte proliferation. <i>Orthopaedic Transactions</i> 1996	1996
<b>Schmitz MA</b> , Rouse LM, DeHaven KE: The Management of Meniscal tears in the ACL deficient knee. <i>Clinics in Sports Medicine</i> July 15(3): 573-593, 1996.	
<b>Schmitz MA</b> , Finnegan M, Champine J: The Effect of Smoking on the Healing of Tibia Shaft Fractures. <i>Orthopaedic Transactions</i> 20(2): 329, 1996.	
<b>Schmitz MA</b> , Champine J, Finnegan M: The Effect of Smoking on the Clinical Healing of Tibia Shaft Fractures. <i>Orthopaedic Transactions</i> 19(2): 437, 1995.	
<b>Schmitz MA</b> , Rubin S, DeHaven KE: Results of Repeat Meniscus Repair. <i>Orthopaedic Transactions</i> 1997.	1997
<b>Schmitz, MA</b> , Ciullo JV: The Recognition and Treatment of Superior Labral Anterior-Posterior (SLAP) Lesions in the Shoulder. <i>MedScape: Orthopaedics</i> <a href="http://www.medscape.com">http://www.medscape.com</a>	1999

**Schmitz MA**, Finnegan M, Natarajan R, Champine J: Effect of Smoking on Tibial Shaft Fracture Healing. *Clinical Orthopaedics and Related Research* 365: 184-200, 1999.

**Schmitz MA**: Research Links ACL injury to bone density loss. *Biomechanics* 8(7): 93-98, 2001.

Voloshin I, **Schmitz MA**, DeHaven KE: Results of Repeat Meniscus Repair: *American J Sports Medicine* 31(6): 874-880, 2003.

**Schmitz MA**: Meniscal injuries: Which will resolve and when to refer to an orthopedist. *Journal of Musculoskeletal Medicine* 20(12): 553-560, 2003.

Bono C, Harris M, Warholic N, Katz J, Carreras E, White A, **Schmitz M**, Wood K, Losina E: Pain Intensity and Patients' Acceptance of Surgical Complication Risks with Lumbar Fusion. *Spine (Phila Pa 1976)* 38(2): 140-147, 2013.

Fuller C, Geiger K, Gomez C, **Schmitz M**: Traumatic Hangman's Fracture After Cervical Disk Arthroplasty with Device Intact: A Case Report and Literature Review. *North American Spine Society Journal (NASSJ)* 1 (2020) 100007; <https://doi.org/10.1016/j.xnsj.2020.100007>

**Schmitz M**: Response to: Casper, DS, et al. 2019. Medicaid reimbursement for common spine procedures: Are compensation rates consistent? *Spine Volume* 44 Number 22, pages 1585-1590: Deyo, RA. 2019. Point of view commentary "Medicaid reimbursement for common spine procedures: Are compensation rates consistent?" *Spine* 44(22): 1591-1592; *Spine (Phila Pa 1976)* 45(18): E1210-E1214; doi: 10.1097/BRS.0000000000003607.

Geiger K, Fuller C, Gomez C, **Schmitz MA**: Paramedian Approach to Cocygectomy in the Treatment of Chronic Coccydynia: A Technical Note. *J Minimally Invasive Spine Surgery and Technique* 5(2): 64-68, 2020. eISSN 2508-2043; <https://doi.org/10.21182/jmisst.2020.00143>

**Schmitz MA**: Commentary Regarding: COVID-19 Significantly Impacted Hospital Length of Stay and Discharge Patterns for Adult Spinal Deformity Patients. *Spine (Phila Pa 1976)* 46(22): 1557-1558

Porter M, BS, **Schmitz M, MD**. ACDF and Posterior Spinal Fusion revision for posterior nonunion with deformity, myelopathy, and osteoporosis in an 87-year-old: a Case Report and Literature Review; *International Journal of Surgery Case Reports*: PMCID PMC8715042; <https://doi.org/10.1016/j.ijscr.2021.106650>

Porter M, **Schmitz, M**. Clinical evidence towards hypertensive pathogenesis of Posterior Reversible Encephalopathy Syndrome (PRES) in the setting of spinal fusion. *Journal of Investigative Medicine (JIM)*. 2021, Dec; Pub Status: **Accepted**

Porter M, Johnston M, **Schmitz M**. Radial styloid approach for unstable distal radius fracture open reduction and internal fixation. *Journal of Investigative Medicine (JIM)*. 2021, Dec; Pub Status: **Accepted**

Porter M, **Schmitz, M**. Multistage Combined Anterior-Posterior Decompression and Fusion as Corrective Intervention in octogenarian population with prior spinal fusion attempt and pseudarthrosis. *Journal of Investigative Medicine (JIM)*. 2021, Dec; Pub Status: **Accepted**

Frolov D, BS, Porter M BS, **Schmitz M, MD**. Posterior Cervical Fusion of Occiput-T3 for Unstable Complex Odontoid Fracture in an 80-year-old male with C2-Sacrum

Synostosis from Ankylosing Spondylitis: A Case Report; *Cureus*: PMCID  
PMC9376032

Porter M, BS, **Schmitz M, MD**. Posterior Reversible Encephalopathy Syndrome with post-operative hematoma following C4-C6 spinal fusion: A Case Report *Journal of Bone & Joint Surgery Case Connector*: PMID 35763013

Zhu K, BS, Frolov D, BS, Porter M, BS, Johnston M, MA, Rusev M, MA, **Schmitz M, MD**. Radial Styloid Approach for Unstable Distal Radius Fracture Open Reduction and Internal Fixation; Accepted; *Journal of Orthopaedic Trauma*: Manuscript preparation. 2023

Parhar KPS, Frolov D, Dolgov V, Quan M, **Schmitz MA**. Bilateral upper extremity acute exertional compartment syndrome: A case report. *J Orthopaedic Case Reports*. 2024 February: 14(2); DOI: <https://doi.org/10.13107/jocr.2024.v14.i02> 2024

Parhar K, Frolov D, Tapiro R, Slack K, **Schmitz M**. Measuring the outcomes of medial meniscectomies with a femoral and medial collateral ligament release and reattachment in patients with a tight knee: a case series. *International Journal of Research in Orthopaedics*. March-April 2024; 10(2): 409-415.

Frolov D, Zhu K, Rusev M, Geiger K, Fuller C, **Schmitz M**. Clinical Study: Mind the gap: paramedian approach for coccygectomy. *The Spine Journal*, 2024; 000: 1-7. <https://doi.org/10.1016/j.spine.2024.04.011>

Tapiro RM, Zhu K, Frolov D, Dolgov V, Schmitz M. Open Reduction and Internal Fixation with Bone Morphogenetic Protein-2 for Correction of Nonunion Humeral Shaft Fracture with Pseudoarthrosis in the Geriatric Population: A Case Report. *Journal of Orthopedic Case Reports*. 2024 Nov;14(11):124-128. doi:10.13107/jocr. 2024.v14.i11.4938.

Dolgov V, Frolov D, Tapiro R, Hill S, Schmitz M. Management of Kyphosis, Lumbar Spondylosis, and Mycobacterium avium Discitis in a 70-year Male with Chronic Lymphocytic Leukemia with Vascular Complication. *J Orthop Case Rep*. 2025 Feb;15(2):172-176. doi: 10.13107/jocr. 2025.v15.i02.5272. PMID: 39957931; PMCID: PMC11823854. 2025

Dolgov VS, Twana HS, Schmidt Carsten, Pham Quyen P, Schmitz Miguel: Retrospective study on pre- and postoperative morphine equivalent demand in patients who underwent rotator cuff repair surgery. *International Journal of Research in Orthopaedics*; Jan 2026 12(1): 1-6

## Book Chapters

**Schmitz MA**, Lebl DR, Harris MB: Imaging of the Thoracic and Lumbar Spine During the Emergency Department Evaluation, In Vaccaro AR, Fehlings MG and Dvorak MF, Spine and Spinal Cord Trauma. Thieme, New York/Stuttgart: 95-108, 2011

**Schmitz MA**, Lebl DR, Harris MB: The Benefits of Early Stabilization of Spinal Fractures in the Trauma Patient, In Vaccaro AR, Fehlings MG and Dvorak MF, Spine and Spinal Cord Trauma. Thieme, New York/Stuttgart: 157-165, 2011

## Presentations

Medical Student Research Training Program Seminar, University of Washington, under Edwin Krebs, MD and Steven Pelech, PhD. (Howard Hughes Medical Institute) 1987

Characterization of a Trypsin Activated Kinase, A. Protein Kinase that may be distinct from Protein Kinase C.	
Steadman-Hawkins Fellowship Annual Meeting Vail, Colorado	1992
“Growth Factors in the Intraarticular Environment”	
The Effect of Synovial Fluid on <i>in vitro</i> fibrogenesis	
Charles Gregory Lectureship Series; Dallas, Texas	1993
The Effect of Acute and Chronic Knee Injury Synovial Fluid on <i>in vitro</i> chondrogenesis	
“Orthopaedics” University of Texas Southwestern School of Allied Health/Dietician Department	
27th Annual Residents’ Conference of the American Orthopaedic Association Atlanta, Georgia	1994
The Effect of Synovial Fluid from Acute and Chronic Knee injuries and osteoarthritis on <i>in vitro</i> chondrocyte proliferation	
Richards Annual Orthopaedic Resident’s Conference; Memphis, Tennessee	
The Effect of Smoking on Tibial Shaft Fracture Healing	
“Orthopaedics” University of Texas Southwestern School of Allied Health/Dietician Department	
“Orthopaedics” Dallas County LPN Association 62nd Annual American Academy of Orthopaedic Surgery Meeting; Orlando, Florida	1995
The Effect of Smoking on the Clinical Healing of Tibial Shaft Fractures.	
Orthopaedic Trauma Association, 1995 Meeting; Tampa Bay, Florida	
The Effect of Smoking on the Clinical and Radiographic Healing of Tibial Shaft Fractures.	
Charles Gregory Lectureship Series; Dallas, Texas	
The Effect of Smoking on the Clinical Healing of Tibial Shaft Fractures Healing	
Steadman-Hawkins Fellowship Annual Meeting, 1995 Meeting; Vail, Colorado	
Serum versus Synovial Fluid Stimulation in <i>in vitro</i> human chondrocyte proliferation	
7th Annual Sports Medicine conference for the primary Care Physician, 1996 Meeting; Rochester, New York	
“Pediatric Knee Pain”	
“Anatomy of the Shoulder and Knee”	
29th Annual Meeting of the Canadian Orthopaedic Research Society; Halifax, Nova Scotia, June 3-4	

The Effect of Smoking on Tibial Shaft Fracture Healing.  
Presenter: Maureen Finnegan, MD; Principal author: **Miguel Schmitz, MD**

50th Annual Meeting of the Canadian Orthopaedic Association; Halifax, Nova Scotia, June 3-7

The Effect of Smoking on Tibial Shaft Fracture Healing. Presenter:  
Maureen Finnegan, MD; Principal author: **Miguel Schmitz, MD**

63rd Annual American Academy of Orthopaedic Surgery Meeting; Atlanta, GA 1996

Serum versus Synovial Fluid Stimulation in *in vitro* human chondrocyte proliferation

Linvatec Arthroscopy Conference in Sports Medicine; Scottsdale, Arizona  
March 28-31

Autogenous serum stimulates *in vitro* chondrocyte proliferation more than synovial fluid from knees with acute and chronic injuries and osteoarthritis

*In vitro* and *in vivo* synthesis of matrix metalloproteases by human knee meniscal cells (Second Author)

64th Annual American Academy of Orthopaedic Surgery; Meeting, San Francisco, CA 1997

Results of Repeat Meniscus Repair

Interactive Media Broadcasting Company. "Life Accountability"  
sponsored by "Success Magazine" radio/internet interview with Terry Lyles, PhD.  
August 22 <http://www.imbc.com>

"Sports Medicine and Orthopaedics"

10th Combined Orthopaedic Association Meeting of the English Speaking World 1998  
New Zealand

Results of Repeat Meniscus Repair. Presenter: Kenneth E. DeHaven, MD;  
Principal author: **Miguel Schmitz, MD**

10th Annual Combined Orthopaedic Association Meeting of the English; Speaking World  
New Zealand

Effect of Smoking on Healing of Tibial Shaft Fractures. Presenter:  
Maureen Finnegan, MD; Principal author: **Miguel Schmitz, MD**

25th Annual Spring Symposium  
Golden, Colorado; April 15

Medical and Surgical Treatment of Cartilage Problems

4th Annual Colorado Athletic Trainer's Symposium  
Golden, Colorado; August 5

Emergent Management of Joint Dislocations

8th Annual Colorado Sports Medicine Symposium  
Denver, Colorado; August 28

Results of Repeat Meniscus Repair

Rocky Mountain Health & Fitness Exposition  
Denver, Colorado; October 17

Athletic Injury of the Shoulder and Knee

Nurse Case Managers Luncheon  
Golden, Colorado; November 5

Shoulder Pain-Diagnostic & Treatment Update

Referring Physician's Dinner-Lakewood Orthopaedic Clinic  
Golden, Colorado; November 17

Diagnostic and Surgical Update on the Shoulder

Denver Medical Society to the Denver Public School System  
Denver, Colorado; December 1

Sports Medicine

26th Annual Spring Orthopaedic Day 1999  
Golden, Colorado; April 9

Elbow Arthroscopy

Klamath Sports Medicine Symposium: The Knee 2000  
Klamath Falls, Oregon; Meeting founder; August 5

68th Annual American Academy of Orthopaedic Surgeons 2001  
San Francisco, California; February 28

The Effect of ACL Deficiency and Reconstruction on Hip and Knee Bone Density

2nd Annual Klamath Sports Medicine Symposium  
Klamath Falls, Oregon; May 19

The Shoulder: Diagnosis and Treatment

3rd Annual Klamath Sports Medicine Symposium 2002  
Klamath Falls, Oregon; April 20

The Knee: Diagnosis and Treatment

Oregon Academy of Family Physicians: 55th Annual Scientific Assembly & Congress; Eugene, Oregon; May 17-18

Evaluation and Initial Management of Shoulder Problems

Evaluation and Initial Management of Knee Problems

Physical Exam of the Shoulder: a hands-on course. What's new on the

horizon for management of shoulder problems.

Physical Exam of the Knee: a hands-on course. What's new on the horizon for management of knee problems?

28th Annual Meeting of the American Orthopaedic Society for Sports Medicine

Results of Repeat Meniscus Repair

Authors: Ilya Voloshin, Miguel Schmitz, Kenneth E. DeHaven  
Presenter: Ilya Voloshin

Orlando, Florida; July 3

15th Annual Diamond Lake Seminar for Radiology Technicians  
Diamond Lake, Oregon; September 14, 2002

An Orthopaedic Perspective of Shoulder and Knee Injuries

4th Annual Sports Medicine Symposium 2003  
Klamath Falls, Oregon; May 31

Up to Our Ankles and Elbows; Klamath Falls  
19th Annual Ken Tuttle Infectious Disease Seminar 2004

Case Presentation: Tuberculosis Arthritis in a Diabetic Charcot Foot

5th Annual Klamath Sports Medicine Symposium 2005  
Klamath Falls, Oregon  
May 14

Shoulder Evaluation and Treatment Principles and Unusual Cases and  
Advances in Orthopaedics

Arthroscopy Association of North America: 24th Annual Meeting "E" Poster  
Vancouver, British Columbia, Canada; May 12-15

Transient Decreases in Peripheral Pulses after Uneventful Knee  
Arthroscopy; E-52

AO: Orthopaedic Trauma: Team Approach to Fracture Management: Introduction  
to Imaging; Spokane, Washington; July 17-18 2009

Selby Spine: Pain Intensity Influences Patients' Acceptance of Complications with  
Lumbar Fusion Surgery. Presenter; Co-authors: Christopher M. Bono MD, Natalie  
Warholic BS, Jeffrey N. Katz MD MSc, Mitchel B. Harris MD, William Reichman,  
Edward Carreras MD, Andrew White MD, **Miguel Schmitz MD**, Kirkham B. Wood  
MD, Elena Losina, PhD  
Park City, Utah; February 6, 2010

Spokane County Medical Society: Spine Update 2010  
Spokane, Washington; April 14, 2010

Selby Spine: Effect of an irrigating radiofrequency bipolar devise on open lumbar  
spine surgery blood loss. Presenter; Co-author: Ryan Saunders, PA-C Park City,  
Utah; February 3, 2011 2011

Spokane Pain Conference; Surgical Options for the Treatment of Spine Pain;  
Spokane, Washington; September 29, 2012 2012

Deaconess Hospital Orthopedic Conference: Cauda Equina Syndrome and  
Compartment Syndrome  
Spokane, Washington; September 9, 2014

2014

Deaconess Medical Center Orthopaedic Conference: Neurogenic spine pain: Evaluation and Management Spokane, Washington December 4, 2015	2015
Providence Holy Family Hospital Synthes Nursing Continuing Education Orthopaedic SMART lab Spokane, Washington; March 12, 2016	2016
CHS Deaconess Medical Center Synthes Nursing Continuing Education Orthopaedic SMART lab Spokane, Washington; March 19, 2016	
Washington State Assembly of the Association of Surgical Technologists Spokane, Washington; October 19, 2019; FALL WORKSHOP; " <b>Spine Surgery</b> "	2019
SI BONE: Sacroiliac Conditions and Treatment August 24, 2021	2021
Chen M, Schmidt C, <b>Schmitz M.</b> Use of BMP-2 in a complicated revision distal radius ORIF. Poster presented at: WSU Health Sciences Research Symposium; Spokane, WA; April 7, 2025;	2025
Dolgov V, Tiwana H, Schmidt C, <b>Schmitz M.</b> Retrospective Case-Series on Pre- and Post-operative Morphine Equivalents Demands in Patients Who Underwent Rotator Cuff Repair Surgery. <i>RJOS Western Symposium</i> ; March 30 <sup>th</sup> , 2025; Virtual	

### Continuing Medical Education

American Academy of Orthopaedic Surgeons Course Title: Shoulder Problems in the Throwing Athlete Los Angeles, CA; May 1	1993
62nd Annual American Academy of Orthopaedic Surgeons Meeting Orlando, Florida February 16-21; 30.5 hours Category 1	1995
62nd Annual AAOS: American Orthopaedic Society for Sports Medicine Specialty Day Orlando, Florida February 19; 7 hours Category 1	
Orthopaedic Trauma Association Annual Meeting Tampa, Florida September 29-October 1; 17 hours Category 1	
63rd Annual American Academy of Orthopaedic Surgeons Meeting Atlanta, Georgia February 22-26; 28.5 hours Category 1	1996
63rd Annual AAOS: American Shoulder and Elbow Surgeons Specialty Day Atlanta, Georgia February 25; 8 hours Category 1	
63rd Annual AAOS: American Orthopaedic Society for Sports Medicine Specialty	

Day	
Atlanta, Georgia; February 25; 7 hours Category 1	
Genzyme Tissue Repair Autologous Chondrocyte Implantation Course Cambridge, Massachusetts; November 14	
Cryolife, Inc/Arthrex Meniscus Reconstruction Course Naples, Florida; December 7	
64th Annual American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, California; February 13-17	1997
ForTec Medical Inc. Laser Education Program (Holmium: YAG) Cincinnati, Ohio; March 8	
16th Annual Arthroscopy Association of North America Meeting, San Diego, California; April, 23-26 15.5 hours Category 1	
Michigan Physicians Mutual Liability Company: 1997 MercyInsur Risk Management Seminar. St. Joseph Mercy hospital, Pontiac 2.0 Category 1 Credits.	
PICOM Insurance Company: PICOM Risk Management Education: 3 hours Category I.	
AAOS Shoulder Surgery: Focused Perspectives on Open vs. Arthroscopic management; Chicago, Illinois December 6; 7 hours Category 1	
65th Annual American Academy of Orthopaedic Surgeons Meeting, New Orleans, Louisiana; March 19-23; 26.5 hours Category 1	1998
65th AAOS Annual Meeting: American Shoulder and Elbow Surgery Specialty Day New Orleans, Louisiana March 22; 8.5 hours Category 1	
65th AAOS Annual Meeting: American Orthopaedic Society for Sports Medicine Specialty Day New Orleans, Louisiana March 22; 6.75 hours Category 1	
Southwestern Board Review Course The University of Texas Southwestern Medical Center, Dallas, Texas; May 8-10	
Level II Re-Accreditation Seminar. University of Colorado Denver, Colorado; 14 hours-Category 1; April 16-17	1999
16th Arthroscopy and Arthroplasty of the Shoulder Meeting, San Diego, California June 23-26	
Arthroscopy Association of North America: "The Masters Experience" Comprehensive Knee Arthroscopy course July 16-18, 1999, Rosemont, Illinois July 16-18	
25th Annual American Academy of Orthopaedic Surgeons Summer Institute: Management of Complex Fractures, Seattle, Washington; September 22-23, 1999	
Complex Primary and Revision Total Hip and Knee Arthroplasty, Seattle,	

Washington; September 24-26, 1999; 31 hours Category 1

14th Annual Infectious Disease Seminar-Category 1; Klamath Falls, Oregon 1999  
Foot Surgery for the Practicing Orthopaedic Surgeon, #3546, Rosemont, Illinois; 2000  
April 14-16, 2000; 19 hours-Category 1.

Arthroscopy Association of North America: "The Masters Experience" Wrist  
Arthroscopy course, Rosemont, Illinois; May 6-7, 2000; 17.5 hours-Category I.

26th Annual American Orthopaedic Society for Sports Medicine Meeting, Sun  
Valley, Idaho; June 18-21, 2000

26th Annual AOSSM: 1st Annual Young Sports Medicine Specialists' Workshop,  
Sun Valley, Idaho; June 18, 2000; 2 hours-Category 1.

26th Annual AOSSM: Patellofemoral Controversies: McConnell, Maquet and  
Beyond, 26th Annual AOSSM Meeting, Sun Valley, Idaho; June 19, 2000; 1.5 hours-  
Category 1.

26th Annual AOSSM: Osteotomies About the Knee for the Aging Athlete, 26th  
Annual AOSSM Meeting, Sun Valley, Idaho; June 20, 2000; 1.5 hours-Category 1.

26th Annual AOSSM: The Elbow: Reconstruction, Fixation and Trauma  
Management. Rosemont, Illinois; November 3-5, 2000; 18 hours-Category 1.

68th Annual American Academy of Orthopaedic Surgeons Meeting, San Francisco, 2001  
California; February 28, 2001-March 4, 2001; 28.5 hours Category 1

68th AAOS Meeting: Allograft Meniscus Transplantation: Indications, Surgical  
Techniques, and Results, San Francisco, California; March 4, 2001.

68th AAOS Meeting: Current Legal Pitfalls in Orthopaedic Practice, San Francisco,  
California; March 2, 2001.

68th AAOS Meeting: Developing and Enhancing the Utilization of Physician  
Assistants in an Orthopaedic Practice, San Francisco, California; February 28,  
2001.

68th AAOS Meeting: American Orthopaedic Society for Sports Medicine Specialty  
Day, San Francisco, California; March 3, 2001; 7 hours-Category 1.

20th Annual Arthroscopy Association of North America Meeting, Seattle,  
Washington; April 19-22, 2001; 16 hours-Category 1

20th AANA Meeting: Enhancing Your Orthopaedic Practice Through Ancillary  
Services, Seattle, Washington; April 21, 2001; 1.5 hours-Category 1

Current Concepts in Knee Arthroscopy, Bend, Oregon; July 14, 2001; 6 hours-  
Category 1.

The Shoulder: AOSSM Surgical Skills Course; September 28-30, 2001; 21 hours-  
Category 1

Strategies to Improve Outcomes in Joint Replacement: Featuring Live Surgeries, La  
Quinta, California, October 18-20, 2001, 18 hours-Category 1

Strategies to Improve Outcomes in Joint Replacement Shoulder and Elbow  
Surgery: Featuring Cadaver Surgery, La Quinta, California, October 20, 2001, 5  
hours-Category 1

69th Annual American Academy of Orthopaedic Surgeons Meeting 2002  
Dallas, Texas; February 13, 2002-February 17, 2001; 28 hours Category 1

69th AAOS Meeting: Diagnosis and Management of Pain in an Orthopaedic Practice  
Dallas, Texas; February 13, 2002.

69th AAOS Meeting: Techniques for Arthrodesis of the Foot and Ankle  
Dallas, Texas; February 15, 2002.

69th AAOS Meeting: Computer-Based Multimedia Presentations  
Dallas, Texas; February 13, 2002.

69th AAOS Meeting: Understanding the Numbers: Basic Practice Financial Management  
Dallas, Texas; February 13, 2002.

Arthroscopy Association of North America 2002 Specialty Day  
Dallas, Texas; February 16, 2002/ 7.5 hours Category 1

3rd Annual Klamath Basin Sports Symposium-The Knee  
Klamath Falls, Oregon  
April 20; 5 hours-Category 1

17th Annual Ken Tuttle Infectious Disease Seminar  
Klamath Falls, Oregon; November 1; 7 hours-Category 1  
Minimally Invasive Spine Surgery; St. Louis, MO; April 4-6, 2003; 20 hours- 2003  
Category 1

4th Annual Sports Medicine Symposium: Up to Our Ankles and Elbows; Klamath Falls, OR; May 31, 6 hours-Category 1

AOSSM Annual Meeting, San Diego, CA; July 20-23, 12.5 hours-Category 1

AOSSM Annual Meeting Instructional Course Lecture: PCL Injuries: Isolated and Combined; July 20, 1.5 hours-Category 1

AOSSM Annual Meeting, Instructional Course Lecture: Complex ACL Deficiency: Open Physis, Revision, Associated Ligamentous Laxity, Graft Selection, and Arthritis with Instability; July 21, 1.5 hours-Category 1

AOSSM Annual Meeting; Instructional Course Lecture: Cervical Spine and Brachial Plexus Injuries in Sports; July 22, 1.5 hours-Category 1

Stryker Howmedica Osteonics EIUS Uni Knee and Avon Patello-Femoral System Course; La Jolla, CA; Scripps Clinic; September 19, 2003

Oregon Medical Association; New Frontiers in Risk Management; Bend, OR; October 18, 2.5 hours-Category 1

Arthroscopic Surgery 2004: Robert Metcalf, MD Memorial; Sun Valley, OR; January 31-February 3, 21.0 hours-Category 1 2004

19th Annual Ken Tuttle Infectious Disease Seminar; Klamath Falls, OR; October 29, 7.0 hours-Category 1

Oregon Chapter, Western Orthopaedic Association, Annual Meeting, Shoulder Update; Gleneden Beach, OR; November 12-14, 10.5 hours-Category 1

Arthroscopy Association of North America 2005 Winter Course; Whistler, BC; 2005  
January 8-11, 17.5 hours Category 1

72nd Annual American Academy of Orthopaedic Surgeons Meeting, Washington, D.C.; February 23-27; 28 hours Category 1

Federation of Spine Associations Specialty Day, Washington, D.C.; February 26, 2005; 7.5 hours Category 1

American Orthopaedic Society for Sports Medicine; February 26; 7.5 hours Category 1

5th Annual Klamath Sports Medicine Symposium: Shoulder Evaluation and Treatment Principles and Unusual Cases and Advances in Orthopaedics; Klamath Falls, OR; May 14; 6.5 hours-Category 1

American Orthopaedic Society for Sports Medicine [General Meeting]; Keystone, CO; July 14-17, 2005; 14 hours Category 1

American Orthopaedic Society for Sports Medicine: AC Joint Injuries; Keystone, CO; July 14-17, 2005; 1.5 hours Category 1

American Orthopaedic Society for Sports Medicine: Ligament Injuries of the Elbow; Keystone, CO; July 14-17, 2005; 1.5 hours Category 1

American Orthopaedic Society for Sports Medicine: What Doesn't Work-Complications: Lower Extremity; Keystone, CO; July 14-17, 2005; 1.5 hours Category 1

Arthroscopy Association of North America: Hip Arthroscopy; Orthopaedic Learning Center; Rosemont, IL; August 19-21, 2005; 16 hours Category 1 credits

American Academy of Orthopaedic Surgeons: Evolving Techniques and "Gold Standard" Procedures for Ankle Arthritis; Rosemont, IL; September 30-October 2, 2005; 20 hours Category 1

Oregon Medical Association: Advanced Training in Risk Management; Bend, OR; 2006  
September 30, 2006; 2.5 hours Category 1

AO ASIF Advanced Concepts in the Management of Spinal Disorders; Scottsdale, AZ; October 26-28, 2006; 22.25 hours AMA PRA Category 1

American Academy of Orthopaedic Surgeons: Modern Techniques in Spinal Surgery; Rosemont, IL; November 16-18, 2006; 23 hours Category 1  
Commitment & Compassion: Pain Management and Palliative Care Web Edition-#5E015WEB; University of Oklahoma College of Medicine; January 1, 2007; 12 hours Category 1 2007

Advancing Pain Management in Oregon Web Edition; Oregon Department of Human Services; January 1, 2007; 1 hour Category 1

74nd Annual American Academy of Orthopaedic Surgeons Meeting, San Diego, California; February 14-18, 2007; 31 hours Category 1

American Orthopaedic Society for Sports Medicine Specialty Day; San Diego, California; February 17, 2007; 7.5 hours Category 1

Federation of Spine Associations Specialty Day; San Diego, California; February

17, 2007; 8.5 hours Category 1

Nuvasive Marquis Visit Program for XLIF; San Diego, California; February 16, 2007

Selective Exposures in Orthopedic Surgery: The Spine; August 11, 2007; 3 hours  
DVD

SRO 4 Spine Surgery: Evolving Applications and Techniques; August 26, 2007; 6  
hours AMA PRA

AAOS Board Maintenance of Certification Preparation and Review #3127;  
Cambridge, MA; December 6-9, 2007; 24 hours PRA Category 1 Credits

AAOS Board Maintenance of Certification Preparation and Review #3127; Pre- and  
Post-Course Sample Test Questions. Cambridge, MA; December 6-9; 4 hours PRA  
Category 1 Credits.

2005 Orthopaedic Self-Assessment Examination. American Academy of  
Orthopaedic Surgeons. December 31, 2007

American Board of Orthopaedic Surgery Recertification. Brookline, MA; April 30; 2008  
25 hours AMA PRA Category 1 Credits.

Medtronic Course: Direct Lateral Access Program. Rocky Hill, CT; June 11, 2008.

2008 AOSSM/AAOS Review Course for Subspecialty Certification. Chicago, IL;  
August 1-3, 2008; 18.75 AMA PRA Category 1 Credits

Medtronic MAST DLIF. Spokane, WA; September 19-20, 2008

AAOS Annual Meeting. Las Vegas, NV; February 25-28, 2009; 27 AMA PRA  
Category 1 Credits 2009

Federation of Spine Associations Meeting. Las Vegas, NV; February 28, 2008; 8.5  
AMA PRA Category 1 Credits

Medtronic Minimal Access Spinal Technologies (MAST) DLIF. Las Vegas, NV;  
February 26, 2009

AAOS/Saint Louis University: Novel Minimally Invasive Techniques for Lumbar  
Spine Surgery. Saint Louis, MO; March 20-21, 2009; 16 AMA PRA Category 1  
Credits

Arthroscopy Association of North America: 2009 Annual Meeting. San Diego, CA;  
April 30-May 3; 16 AMA PRA Category 1 Credits

AANA: How to Perform Rotator Cuff Repair. San Diego, CA; April 30; 1.5 AMA PRA  
Category 1 Credits

AANA: How to be more productive and satisfied during our practice years. San  
Diego, CA; May 1; 1.5 AMA PRA Category 1 Credits

AANA: Advanced Hip Arthroscopy. San Diego, CA; May 2; 1.5 AMA PRA Category 1  
Credits

NASS [North American Spine Society] Annual meeting. San Francisco, CA;  
November 11-14, 2009; 28 AMA PRA Category 1 Credits

Selby Spine. Park City, Utah February 3-6, 2010; 12.5 AMA PRA Category 1 Credits 2010

Spokane County Medical Society: Spine Update 2010. Spokane, Washington April 14, 2010; 3 AMA PRA Category 1 Credits

AO Spine Breakthroughs in Spine Surgery: "A critical review of major accomplishments in spine care". October 1-2, 2010; Seattle, WA

North American Spine Society 25th Annual Meeting. Orlando, Florida October 5-9, 2010; 27.25 AMA PRA Category 1 Credits

Selby Spine. Park City, Utah February 3-5, 2011; 12.5 AMA PRA Category 1 Credits 2011

K2 Complex Spine Course. San Diego, California March 25-26, 2011; No credits; Industry sponsored meeting

Stryker Spine Course. Las Vegas, Nevada May 6, 2011; No credits; Industry sponsored meeting

Washington State Orthopaedic Association; 2011 WSOA Spokane Regional Meeting; Spokane, Washington May 20, 2011

Washington State Medical Association; "The Future of Information Technology in Health Care"; 1 AMA PRA Category 1 Credit

Washington State Medical Association; "Making Integration Work"; 1 AMA PRA Category 1 Credit

Washington State Medical Association: "Physician, Cherish Thyself-Don Keith Lecture on Physician Health"; 1 AMA PRA Category 1 Credit

North American Spine Society; "Technique Workshop: Minimal Access to the Lateral Lumbar Spine"; 3.75 AMA PRA Category 1 Credits; Chicago, IL November 2, 2011

North American Spine Society; "NASS 26th Annual Meeting"; 13 AMA PRA Category 1 Credits; Chicago, IL November 2-5, 2011

Orthopaedic Self-Assessment Examination 2011 (OSAE) Scored and Recorded. AAOS; 20 AMA PRA Category 1 Credits.

Orthopaedic Knowledge Update 10 Home Study Program. AAOS. 50 AMA PRA Category 1 Credits.

Medtronic MASTM Techniques Custom Training Course 2012  
Sunnyvale, CA  
March 23, 2012

Spokane Pain Conference; 7 AMA Category 1 Credits  
Spokane, WA  
September 29, 2012

SI FIX: Diagnosis and treatment options for sacroiliac joint conditions  
Beverly Hills, CA  
December 15, 2012

Globus Medical Preceptorship and laboratory in Sacroiliac fusion under Louis Rappoport, MD  
December 17, 2012

Depuy Reverse Total Shoulder observation under Carl Basamania Seattle, WA; January 16, 2013	2013
Hip Arthroscopy; Femoral Acetabular Impingement Surgical observation under Shane Nho, MD; Rush Oak Park Hospital Chicago, IL February 22, 2013	
Arthroscopy Association of North America; Hip Arthroscopy course and lab; LC 204; 12 AMA PRA Category 1 Credits Rosemont, IL February 22-23, 2013	
North American Spine Society: Evaluation and Treatment of Adult Spinal Deformity: Skull to Sacrum; 13.5 AMA PRA Category 1 Credits; Burr Ridge, IL April 5-6, 2013	
American Orthopaedic Society for Sports Medicine Annual Meeting; Main Registration; 13.75 AMA PRA Category 1 Credits; Chicago, IL July 11-14, 2013	
American Orthopaedic Society for Sports Medicine Annual Meeting; Shoulder Instability; 1.5 AMA PRA Category 1 Credits; Chicago, IL July 11-14, 2013	
American Orthopaedic Society for Sports Medicine Annual Meeting; Live Surgical Demonstrations Upper Extremity; 4.25 AMA PRA Category 1 Credits; Chicago, IL July 11-14, 2013	
American Orthopaedic Society for Sports Medicine Annual Meeting; Ultrasound; 1.5 AMA PRA Category 1 Credits; Chicago, IL July 11-14, 2013	
American Orthopaedic Society for Sports Medicine Annual Meeting; Are SLAP repairs going the way of the dinosaur?; 1.5 AMA PRA Category 1 Credits; Chicago, IL July 11-14, 2013	
American Academy of Orthopaedic Surgeons; Self Scored Self-Assessment Examination 2011; 10 AMA PRA Category 1 Credits	
Musculoskeletal Tumors and Diseases Self-Score Self-Assessment Examination 2011; 10 AMA PRA Category 1 Credits	
Upper Extremity Self-Scored Self-Assessment Examination 2011; 15 AMA PRA Category 1 Credits	
Anatomy-Imaging Self-Scored Self-Assessment Examination 2011. AAOS. Upper Extremity Self-Score Self-Assessment Examination 2011. AAOS. 10 AMA PRA Category 1 Credits.	
North American Spine Society Annual Meeting. New Orleans; 16.50 AMA PRA Category 1 Credits; New Orleans, LA October 9-13, 2013	
LDR Mobi-C Surgeon Training Course. Seattle, Washington; October 26, 2013 Hip Arthroscopy; Surgical observation under Stephen Aoki, MD; University of Utah Salt Lake City, UT; July 10, 2014	2014
Medical Examiner's Handbook Examination; Washington State Medical Association and Washington state Department of Labor and Industries; Spokane, WA; 3 AMA PRA Category 1 Credits; August 1, 2014	

Sports Medicine Self-Assessment Examination 2013; 10 AMA PRA Category 1 Credits.

Pediatric Orthopaedic Self-Assessment Examination 2013; 10 AMA PRA Category 1 Credits.

JAAOS SAE: Based on October 2012 through March 2013 issues; 10 AMA PRA Category 1 Credits.

JAAOS SAE CME: Based on April through September; 2013 issues; 10 AMA PRA Category 1 Credits.

Selective Exposures in Orthopaedic Surgery: The Spine 2nd Edition. AAOS; 5 AMA PRA Category 1 Credits.

SRO 06: Wrist Fractures: Treatment Principles and Techniques AAOS. 6 AMA PRA Category 1 Credits.

Arthroscopic Surgical Techniques: Rotator Cuff Repair AAOS. 6 AMA PRA Category 1 Credits.

Massachusetts Medical Society: Corporate Compliance and MA/Part D, Fraud, Waste and Abuse; 1.5 AMA Category 1 Credits; May 17, 2015

Massachusetts Medical Society: HIPPA Privacy & Security Including Omnibus Rule; 1.5 AMA Category 1 Credits; May 17, 2015

Massachusetts Medical Society: OSHA Safety & Bloodborne Pathogens; 1.5 AMA Category 1 Credits; May 17, 2015

Massachusetts Medical Society: Human Resources; 1.5 AMA Category 1 Credits; May 17, 2015

American Academy of Orthopaedic Surgeons: Webinar: Finding Value in Value Based Payment Models; May 12, 2015

American Academy of Orthopaedic Surgeons: Webinar: Hospital Consolidation, Employment, and Co-management; March 17, 2015

American Academy of Orthopaedic Surgeons: Webinar: PQRS, the Physician Value-Based Modifier, and CMS's Proposed elimination of Global Surgical Payments; January 27, 2015

American Academy of Orthopaedic Surgeons: Webinar: Unlocking Meaningful Use: Keys to Successful Reporting; January 6, 2015

Stryker Fall {Spine} Deformity Symposium. Las Vegas, NV; November 6-7, 2015

Orthopaedic In-Training Scored and Recorded Examinations 2014. AAOS. 20 AMA Category 1 credits

Adult Reconstructive Surgery of the Hip and Knee Self-Scored Examination 2013. AAOS. 10 AMA Category 1 credits

Orthopaedic Basic Science Self-Scored Examination AAOS. 2013. AAOS. 10 AMA Category 1 credits

12th Annual Evidence & Technology Spine Summit. 16.50 AMA PRA Category 1 2016

Credits; Park City, UT; February 24-27, 2016

Zyga Symmetry SIJ Fusion System Surgical Certification Course. Spokane, WA; April 13, 2016

OSHA SAFETY & BLOODBORNE PATHOGENS; Massachusetts Medical Society; July 6th, 2016; 2.5 AMA PRA Category 1 Credits

HIPAA Privacy & Security Including Omnibus Rule; Massachusetts Medical Society; July 6th, 2016; 1.50 AMA PRA Category 1 Credits

Corporate Compliance and MA/Part D, Fraud, Waste and Abuse; Massachusetts Medical Society; July 6th, 2016; 1.50 AMA PRA Category 1 Credits

AOSSM/AAOS Orthopaedic Sports Medicine Review Course; August 12-14, 2016; 17.75 AMA PRA Category 1 Credits

Deaconess Medical Center: The Economics Behind Medicare's Triple Aim Approach: What it means for Hospital markets by Victoria Phillips, PhD; Spokane, WA; October 2016; 1 AMA PRA Category 1 Credit

North American Spine Society Annual Meeting. Boston, MA; October 26-29, 2016; 27 AMA PRA Category 1 Credits

3rd Annual Advanced Lateral Approaches to the Spine. Seattle, WA; Seattle Science Foundation; February 25, 2017; 9.0 AMA PRA Category 1 Credits 2017

American Academy of Orthopaedic Surgeons Annual Meeting. San Diego, CA; March 16-18; 16.50 AMA PRA Category 1 Credits

American Orthopaedic Society for Sports Medicine. Specialty Day. San Diego, CA; March 18; 8 AMA PRA Category 1 Credits

Massachusetts Medical Society: Corporate Compliance and MA/Part D, Fraud, Waste and Abuse. September 4; 1.5 AMA PRA Category 1 Credits

Massachusetts Medical Society: HIPAA Privacy & Security Including Omnibus Rule. September 4; 1.5 AMA PRA Category 1.5 Credits

Massachusetts Medical Society: OSHA Safety & Bloodborne Pathogens. September 4; 2.5 AMA PRA Category 1 Credits

AAOS/ASES Management of Massive Rotator Cuff Tears: Repair to Replacement #3086. September 15-16; 13.75 AMA PRA Category 1 Credits

Litigation Education Retreat. The Doctors Company. November 4, 2017; 5.75 AMA PRA Category 1 Credits.

NetCE #96402 Depression and Suicide. January 1, 2018; 15 AMA PRA Category 1 Credits 2018

Musculoskeletal trauma scored and recorded self-assessment examination 2015; AAOS; 10 AMA PRA category 1 credits

Adult spine scored and recorded self-assessment examination 2015; AAOS; 10 AMA PRA category 1 credits

Orthopedic knowledge update 11: Scored and recorded self-assessment

examination; AAOS; 20 AMA PRA category 1 credits

Foot and ankle scored and recorded self-assessment examination 2015; AAOS; 10 AMA PRA category 1 credits

Orthopedic knowledge update 11 home study program; AAOS; 50 AMA PRA category 1 credits

Globus Medical: SECURE-C Cervical Artificial Disc Surgeon Training Program; March 27, 2018

North American Spine Society Annual Meeting 2019; Chicago, IL: 2019

Symposium: Clinical Management of Spinal Cord Injury: Current Literature and Experience; 1.50 AMA PRA category 1 credits; 9/25/2019

Symposium: Endoscopic Spine Surgery: New Techniques and Outcomes 1.00 AMA PRA category 1 credits; 9/25/2019

Symposium: Predictive Analysis and Data Utilization to Improve Patient Assessment and Outcomes in Adult Spinal Deformity Surgery 1.50 AMA PRA category 1 credits; 9/25/2019

Symposium: Ambulatory Surgical Centers: Is This the Next Big Thing? 1.00 AMA PRA category 1 credits 9/25/2019

Section on Biologics and Basic Research: BMP in 2019: The Biologic Hasn't Changed, but the Evidence Has 1.00 AMA PRA category 1 credits 9/25/2019

Symposium: Section on Biologics and Basic Research: Biologics in Spine Surgery: Back to the Future 1.50 AMA PRA category 1 credits 9/25/2019

Interdisciplinary Spine Forum: Future of Spine Care: How Will Spine Care Adapt to the Changing Dynamics of Healthcare Delivery? 1.00 AMA PRA category 1 credits 9/26/2019

Symposium: Using Regenerative Medicine to Treat Chronic Pain Emanating from the Spine 1.00 AMA PRA category 1 credits 9/26/2019

Symposium: A Global Perspective on Cervical Spine (International) 1.50 AMA PRA category 1 credits 9/27/2019

Symposium: Lateral Approach Spine Surgery (co-sponsored with SOLAS) 1.50 AMA PRA category 1 credits 9/27/2019

Surgical Technique Cadaver Demonstrations: Endoscopic Spine Surgery 1.75 AMA PRA category 1 credits 9/27/2019

Surgical Technique Cadaver Demonstrations: MIS Tubular Decompression 1.75 AMA PRA category 1 credits 9/27/2019

Symposium: A Look at Medicare for All Prospects, the Legacy of the ACA and the Path Forward for American Health Care 1.50 AMA PRA category 1 credits 9/27/2019

Surgical Technique Cadaver Demonstrations: Cervicothoracic Osteotomy for Cervical Kyphosis 1.75 AMA PRA category 1 credits 9/27/2019

Surgical Technique Cadaver Demonstrations: Spinal Deformity Correction 2.00  
AMA PRA category 1 credits 9/27/2019

Symposium: Spine Injuries Associated with Contact Sports Part II 1.00 AMA PRA  
category 1 credits 9/28/2019

Symposium: Emerging Technologies in Spine Surgery: Essentials of Navigation and  
Robotics 1.50 AMA PRA category 1 credits 9/28/2019

NAVIGATING THE OSTEOBIOLOGIC LANDSCAPE: WHAT FACTORS INFLUENCE 2020  
YOUR CHOICE? Advisory Board Cerapedics  
Sonoma, CA

AAOS Meeting: August 31, 2021, through September 3, 2021. San Diego, CA; 28.5 2021  
AMA PRA category 1 credits:

Comprehensive Approach to Complex Revision Total Hip Arthroplasty

Current State of Total Disc Replacement

Minimally Invasive Surgery versus Standard Open Techniques in the Lumbar

Spine: Indications, Contraindications, and Controversies

Leadership in Orthopaedics: How to be your own Chief Operations Officer whether  
Leading in the Operating Room or Orchestrating from the Podium

The Spine and Its Influence on Total Hip Arthroplasty and Instability

Management of Humeral and Glenoid Bone Deficiency in Shoulder Arthroplasty

Difficult Revision Total Hip Arthroplasties Through an Anterior Approach:  
Extensile Expansions of Anterior Approach for Revisions, Complex

Coding and Reimbursement for Practicing Surgeons: The Present and the Future

Bullying in Orthopaedic Surgery: The Perfect Crime

Do a Better Total Hip Arthroplasty: Tips and Tricks to Enhance Your Outcomes in  
Both Simple and Complex Cases

How Do I Get Out of this Problem? Effectively Solving Common Intraoperative and  
Early Postoperative Challenges in Primary Total Knee Arthroplasty

SCAPULA Posterior Surgical Approaches--Variations on The Classic Judet

Musculoskeletal Ultrasound of the Extremities: Clinical and Ultrasonographic  
Correlation

The Business of Medicine: Hospital-Based, Academic, Private Practice – Learning  
How to Succeed

All Patients Safe: Suicide Prevention for Medical Providers. University of  
Washington Department of Psychiatry; September 2021; 6.0 AMA PRA category 1  
credits

North American Spine Society Annual Meeting 2021 OnDemand; Released  
October 2, 2021; 91.75 AMA PRA category 1 Credits

Compliance, Privacy and Security Education and Quality and CIA overview 2022; Swedish Medical Center; Seattle, Washington; 1.5 AMA PRA category 1 credits Spine Deformity Solutions. Globus Medical. Seattle Neuroscience Institute. Richard Bransford, MD & Jens Chapman, MD; June 24, 2023. Seattle, WA.	2022
Compliance, Privacy and Security Education and Quality and CIA overview 2023; Swedish Medical Center; Seattle, Washington; 1.5 AMA PRA category 1 credits	2023
Wolters Kluwer: Lippincott Continue Medical Education Institute; manuscript review and editing for: Evolving Trends in the Use of Sacroiliac Fusion from 2015 through 2020 for the Journal, Spine; 3 AMA PRA category 1 credits; February 28, 2023.	
Wolters Kluwer: Lippincott Continue Medical Education Institute; manuscript review and editing for: The Effect of ERAS Protocol on Complex Spine Surgery Complications and Length of Stay: A Single Institution Study. For the Journal, Spine; 3 AMA PRA category 1 credits; July 17, 2023	
North American Spine Society Annual Meeting 2022 OnDemand; Released October 15, 2022; 90.25 AMA PRA category 1 Credits	2024
Cine-Med, Inc. A Physicians Practical Guide to Culturally Competent Care. 3 AMA PRA category 1 credit; September 14, 2024.	
Informed; PO Box 997432; Sacramento, California 95899; Understanding and Compassion: Pain Addiction and End-of-Life Care; 12 AMA PRA category 1 Credits	
InforMed; PO Box 997432; Sacramento, California 95899; substance use disorders: A DEA Requirement; 8 AMA PRA Category 1 Credits	
The Aging World of Spine Deformity Surgery: Epidemiological Trends Over A 12- year period. Peer Review for Spine; 3 AMA PRA Category 1 Credits	2025
Lippincott Continuing Medical Education Institute: The Clinical and Financial Implications of Incremental Increases in Operative Time Utilization Based on Procedural Clusters in Complex Adult Spinal Deformity Surgery; Peer Review for Spine; 3 AMA PRA Category 1 Credits	2025
California Department of Workers' Compensation Qualified Medical Examiner Course; 16 hours training; Not certified by the AMA	2026

**Personal:**

Married; children are college graduates and working. Enjoy weightlifting, skiing, racquetball, running, and  
swimming. Originally from Tucson, Arizona.