CURRICULUM VITAE July 2020

Benjamin Stephens Richards, M.D.

HOSPITAL ADDRESS

Texas Scottish Rite Hospital 2222 Welborn Street Dallas, Texas 75219 (214) 559-7558	
CERTIFICATION AND LICENSURE	Diplomate, National Board of Medical Examiners, July, 1982 FLEX, December, 1987 Medical License, State of Utah Medical License, State of Texas Passed Written Boards in Orthopaedics, July, 1986 Passed Oral Boards in Orthopaedics, July, 1989 Recertification in Orthopaedics, 1998, 2007.
EDUCATION	M.D. from St. Louis University School of Medicine, June, 1981 B.S. from the University of Utah, June, 1977
POSTGRADUATE TRAINING	Surgical Internship - University of California, San Diego, June, 1981 to June, 1982 Orthopedic Surgery Resident - University of Utah, June, 1982 to June, 1986 Fellowship - Pediatric Orthopedics and Scoliosis Texas Scottish Rite Hospital, July, 1986 to June, 1987
AWARDS AND HONORS	Phi Kappa Phi Honor Society Phi Beta Kappa Honor Society Alpha Epsilon Delta Honor Society Graduated Magna Cum Laude, 1977
PROFESSIONAL SOCIETY MEMBERSHIPS	American Orthopaedic Association American Academy of Orthopedic Surgeons Pediatric Orthopedic Society of North America Scoliosis Research Society American Medical Association Dallas County Medical Society Texas Medical Association St. Louis University School, Alumni Association

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APPOINTMENTS

Texas Scottish Rite Hospital for Children; Dallas, Texas Chief Medical Officer, January 2012 to present Assistant Chief of Staff, 1997 to 2012 University of Texas Southwestern Medical Center; Dallas, Texas Professor of Orthopaedic Surgery, September 2001 to present. Associate Professor of Orthopaedic Surgery, 1993 to 2001. Assistant Professor of Orthopaedic Surgery, 1987-1993 Pediatric Orthopaedic Society of North America President, POSNA 2008-2009 President-elect, POSNA 2007-2008 Vice President, POSNA 2006-2007 Board of Directors, POSNA 2006-2011 Treasurer's Committee, POSNA 2004-2007 Public Relations Committee, POSNA 2003-2007 Education Committee, POSNA, 1993-1996 Scoliosis Research Society President, SRS 2011-2012 President-elect, SRS 2010-2011 Vice President, SRS 2009-2010 Board of Directors, SRS 2009-2014 Advocacy Committee, SRS 2003-2007, Chair 2006 Bracing Committee, SRS 1998-2006, Chair 2003-2004 Program Committee, SRS, 1996-1998 American Academy of Orthopaedic Surgeons Section Editor for Pediatrics: Your Orthopaedic Connection/ OrthoInfo, 2006 to present Chair, AAOS Orthopaedic Learning Center Pediatrics Course July 2006 Journal of Pediatric Orthopedics Editorial Board, 1998 to present. Consultant Reviewer, 1992 to 1997 Consultant Reviewer for Spine, 2000 to present. Consultant Reviewer for Spine Deformity, 2013 to present. Member, Council on Child Health, National Association of Children's Hospitals and Related Institutions, 1991-1993.

NATIONAL/ INTERNATIONAL PRESENTATIONS

POSNA Annual Meeting, Austin, TX, May 9-12, 2018 "Ponseti clubfoot bracing: 8 hours each night will result in success"

4th Annual China-TSRH Orthopaedic Surgeons Assoc Meeting, Qingdao, China, October 28-29, 2017 "Syndromic scoliosis – what to do?", "Neurofibromatosis Scoliosis", "Marfans Scoliosis" Benjamin Stephens Richards, M.D. Curriculum Vitae Page 3 of 26

> IPOTT Annual Meeting, Oxford, England, September 13-15, 2017 "In-brace hours needed for successful outcomes in Ponseti-treated clubfeet"

IPOTT Annual Meeting, Austin, TX, October 20-22, 2016 "Distal Tibial Lesion"

SRS Annual Meeting, Prague, Czech Republic, September 22, 2016 "Physiotherapeutic scoliosis specific exercises. Introduction: Current use and indications"

POSNA Annual Meeting, Indianapolis, IN, April 27-30, 2016 "Are radiographs predictive of later clinical outcomes in idiopathic clubfeet?"

EPOS Annual Meeting, Rome, Italy, April 6-9, 2016 "Reoperation following "definitive" fusion for AIS: A 25 year update- e-poster" "Ponseti-treated idiopathic clubfeet: Is brace compliance in the first 90 days predictive of outcome? – e-poster"

AAOS Annual Meeting, Orlando, FL. March 1-5, 2016 "Ponseti-treated idiopathic clubfeet: Is brace compliance in the first 90 days predictive of outcome?"

Sheikh Zayed Institute Pediatric Surgical Innovation Symposium, Washington, DC, October 23, 2015. Panelist on NF1

SRS Annual Meeting, St. Paul, MN, September 20-October 5, 2015 "How Have Goals of Care in AIS Changed Over Time: - Are We Over Treating Scoliosis?" "Repeat Surgical Intervention Following Definitive Instrumentation and Fusion for Adolescent Idiopathic Scoliosis: A 25-Year Update"

IPOTT Annual Meeting, Vienna, Austria, September 17-September 20, 2015 "Congenital Pseudarthrosis of the Tibia: Does treatment choice make a difference."

POSNA Annual Meeting, Atlanta, GA, April 29-May 2, 2015 "How Important Is Brace Compliance In Ponseti-Treated Idiopathic Clubfeet?"

EPOS Annual Meeting, Marseille, France, April 15 – 18, 2015 "How Important Is Brace Compliance In Ponseti-Treated Idiopathic Clubfeet?"

SRS Annual Meeting, Anchorage, Alaska, September 11-14, 2014 "What Pediatric Spine Surgeons can Learn from Adult Deformity Surgeons and What Adult Surgeons Can Learn from Pediatric Surgeon" Benjamin Stephens Richards, M.D. Curriculum Vitae Page 4 of 26

> NF Conference, Washington, DC, June 7-10, 2014 "Rare Diseases in NF1-Vascuopathy, Bone and Pheochromocytoma"

POSNA Annual Meeting, Hollywood, CA, April 30-May 3, 2014. "Ponseti corrected clubfeet at age two years: Is the story finished?"

Japanese Scoliosis Society Annual Meeting, Kochi, Japan, October 22 – 23, 2013. 1) "*The role of scoliosis screening and brace treatment*, 2) *Adolescent Idiopathic Scoliosis – when to fuse or not.*"

SRS Annual Meeting, Lyon France, Sept 18 – 21, 2013. 1) Pre-Meeting Course:
"Schueuermann's kyphosis and roundback: current treatment guidelines."
2) Russell A. Hibbs Basic Science Award Winner: "Induction of ShP2 Deficiency in Chondrocytes Causes Severe Scoliosis and Kyphosis in Mice."

IMAST Annual Meeting, Vancouver, British Columbia, Canada, July 10 – 13, 2013. 1) Faculty: "Whitecloud Clinical Award Nominees"; 2) Moderator ICL 2D: "Spondylolisthesis"

POSNA Half-Day Pre-Course, Toronto, Ontario, Canada, May 1, 2013 *Faculty:* "Care for the young patient with a complex orthopaedic problem: a global perspective"

SRS Worldwide Conference, Florianopolis, Brazil, April 24 – 29, 2013. Faculty: *"Anterior vs posterior approach in thoracolumbar AIS"*

AAOS Annual Meeting, Chicago, IL., March 23, 2013. POSNA Specialty Day - Faculty: "Is sub-specialization good or bad for pediatric orthopaedic training?"

SRS Worldwide Conference, Tel Aviv, Israel, Oct. 16-23, 2012. 1) "Selective vs non-selective fusion for AIS – complications", 2) "Anterior vs posterior approach in TL curve", 3) EOS – Growing Rods, VEPTR, Complication

IPOTT Annual Meeting, Cannes, France, Sept 19-23, 2012. "Congenital tibial pseudarthrosis – what is the role for biological supplementation to rigid fixation?"

IMAST Annual Meeting, Istanbul, Turkey, 7/16-22, 2012. 1) Keynote Address: "What do we learn from complications?", 2) Moderator: "AIS", 3) Moderator: "My worst complication in AIS and strategies to prevent", 4) Debate: "Optimal treatment is selective (thoracic only) posterior instrumentation.

SOSORT Annual Meeting, Milan, Italy, May 9-12, 2012. 1) "Invited SRS Lecture", 2) "When to fuse or not to fuse".

EPOS Annual Meeting, Helsinki, Finland, April 13, 2012. "*Objective measurement of brace compliance in idiopathic clubfoot treatment*."

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AAOS Annual Meeting, San Francisco, Ca, February 11, 2012. "FOSA: SRS efforts to support evidence development for degenerative scoliosis."

Staheli Pediatric Orthopaedic Symposium, Seattle, Wa., January 20-21, 2012. 1) "Repeat surgery for idiopathic scoliosis – is its incidence decreasing?" 2) "Idiopathic clubfoot management- what is the newest information? 3) Congenital tibial pseudarthrosis – what is the role for biological supplementation to rigid fixation?"

Malaysia Spine Society – SRS Meeting, Kuala Lumpur, Malaysia, 12/17-10, 2011. 1) "Surgical management of AIS: past, present, future", 2) "Lenke type V or VI curves – should we stop using ASF and only use PSF now?" 3) "Bracing in EOS", 4) How to select the fusion level in AIS, 5) Infections in idiopathic scoliosis.

Chinese Orthopaedic Association, Beijing and Tianjin, China, 11/29 – 12/7/11. 1)"Bracing, Casting and Traction", 2) "PSF for TL Curves".

IMAST Annual Meeting, Copenhagen, Denmark, 7/13/11 – 7/16/11. E-poster: *"Repeat surgical intervention following definitive instrumentation"*.

8th Combined Congress of the Spine and Pediatric Sections, Asia Pacific Orthopaedic Association, Japan, June 1-4, 2011. APOAsp 2011 Award Finalist, "*Pre-treatment severity-rating of clubfeet is prognostic for clinical outcomes*". <u>Presented by Wanglin Zhang</u>.

POSNA Annual Meeting, Montreal, Canada, 5/11/11 - 5/14/11. Podium presentations: 1) "Ponseti clubfoot treatment – limited surgery is often required for successful outcomes at a minimum 5 year follow-up"; 2) "Lumbar thoracic curve is stable after selective thoracic fusion for AIS, a 20 year follow-up".

EPOS Annual Meeting, Basel, Switzerland, 4/4/11 – 4/9/11. E-Poster: 1) "Relapsed Ponseti clubfeet after age 2 years"; 2) "Rating clubfeet for severity before treatment is predictive of clinical outcomes"; 3) "Ponseti clubfoot treatment – limited surgery is often required for successful outcomes at a 5 minimum 5 year follow-up"; 4) "Lumbar thoracic curve is stable after selective thoracic fusion for AIS, a 20 year follow-up". Free Paper: "Ponseti treatment for non-idiopathic clubfeet has modest success".

POSNA Specialty Day, Symposium. AAOS Annual Meeting, San Diego, CA, 2/12/11 – 2/19/11. "Neurofibromatosis Update: Management of tibial pseudarthrosis."

IPOS Annual Meeting, Orlando, FL, 11/30/10 – 12/04/10. "Limb Deformity and Reconstruction: Options for biologic enhancement of regenerate bone."

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SRS Annual Meeting, Kyoto, Japan, 9/20/10 – 9/24/10. Moderator: "AIS / Basic Science."

IPOTT Annual Meeting, Stockholm, Sweden, 9/9/10 – 9/12/10. "*Treatment of clubfoot*."

IMAST Annual Meeting, Toronto, Canada, 7/21/10 – 7/24/10. ICL Faculty: "AIS/Choosing fusion levels", "Adult-pediatric deformity – worst complications."

Pre-congress POSNA / EPOS / SLAOTI Course, Campos do Jordão, Brazil, 6/15/10 – 6/19/10. Faculty: "Varus and valgus deformities", "Distal tibial deformities – posteromedial bowing and anterolateral bowing", "Adolescents with scoliosis – current approaches to treatment", "Staying out of trouble during treatment of slipped capital femoral epiphysis."

SRS Worldwide Conference, Nanjing, China, 6/3/10 - 6/6/10. "Repeat surgery in idiopathic scoliosis", "Advances in the management of scoliosis in spina bifida", "Workshop on Scoliosis Correction Techniques."

Annual Meeting of the Alabama Orthopaedic Association, Sandestin, FL. 5/12/10 – 5/14/10. "Supracondylar humerus fractures in children – when things go wrong" and "Adolescents with scoliosis – current approaches to treatment".

EPOS Annual Meeting, Zagreb, Croatia. 4/7/10 - 4/10/10. E-poster: "Complications associated with the use of BMP in pediatric patients".

SRS Midwest Winter Meeting, Rosemont, IL. 1/22/10. "A review of revision spinal deformity in children" and panelist: "Brutally hard case presentations".

IPOS Annual Meeting, Orlando, FL, 12/2/09 – 12/05/09. "Modern concepts for spondylosis and spondylolisthesis" and "Scoliosis bracing 2009".

SRS Annual Meeting, San Antonio, TX, 9/23/09 – 9/26/09. Poster: "Thoracoplasty in AIS? It doesn't make a difference!"; Presentation: "Right thoracic curves in AIS? Which clinical and radiographic findings correlate with a preoperative abnormal MRI?"

EPOS Annual Meeting, Lisbon, Portugal, 4/1/09 – 4/4/09. Moderator: "Nonidiopathic EOS: when and how to treat" and "Foot and Ankle: Clubfoot & tumors."

1st Congress on Spina Bifida Research, Orlando, FL, 3/17/09. "Advances in the management of spinal deformities."

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New Zealand Orthopedic Association, Annual Meeting, Hastings, New Zealand, 10/17/08 – 10/22/08. "Nonoperative treatment for clubfeet - a comparison between two methods (Ponseti and French)"

XXVII SAOTI – IV SLAOTI Conjoined Mtg, Buenos Aires, 10/1/08 – 10/4/08. "The Limping Child", "Repeat spine surgery in idiopathic scoliosis-how to decrease its incidence", "Complex traumatic lesions of the lower limbs", "Back pain in children", "Pediatric spine".

SRS Annual Mtg, Salt Lake City, 9/9/08 – 9/13/08. Posters: "Thoracoplasty in idiopathic scoliosis – should we keep doing it?", "Thoracoplasty In Idiopathic Scoliosis – Comparison Between Those Treated With, And Without, During PSF." Moderator: "Session IV – Innovative Methods"

SICOT, Hong Kong, 8/25/08 – 8/28/08. "Nonoperative clubfoot treatment 2008: a comparison between the Ponseti method and the French physiotherapy method."

AOA/COA Annual Mtg, Quebec Canada, 6/5/08 – 6/7/08. "Surgical treatment of spinal deformity: state-of-the-art; from birth to the grave."

EPOS/IFPOS Combined Meeting, Warsaw, Poland, 4/9/08 – 4/12/08. Poster: "Non-operatively Treated Clubfoot Outcomes – do Early Results Deteriorate Over Time?", "Ponseti vs French Physiotherapy for clubfeet? Which is Better?"; Presentation: "Use of rhBMP-2 in Congenital Pseudarthrosis of the Tibia."

FOSA Specialty Day - AAOS Annual Meeting, San Francisco, CA, 3/8/08. "Preoperative Evaluation for Deformity Surgery."

Scoliosis Research Society Annual Meeting, Edinburgh, Scotland, September 2007: "Parent/Patient Preoperative Perception of Appearance in Lenke 2 Curves – Do they correlate with the radiographic and clinical examination?"

POSNA Annual Meeting, Hollywood, FL, May 2007: "Ponseti vs French Physiotherapy for Clubfeet – Which is better?". "Non-operatively treated clubfoot outcomes – Do early results deteriorate over time?"

Scoliosis Research Society Annual Meeting, One-Day Program, Monterey, CA, September 2006: *Developing Appropriate Outcome Measures for Pediatric Scoliosis Surgery*".

Scoliosis Research Society Annual Meeting, Miami, FL, October 2005: "Repeat Surgical Interventions following "Definitive" Instrumentation and Fusion for Idiopathic Scoliosis – Revisited".

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SICOT, Istanbul, Turkey, September 2005: "MRI findings in clubfeet following French functional physical therapy treatment". "Prospective clubfoot study comparing Ponseti method and French PT method".

POSNA Annual Meeting, Ottawa, Canada, May 2005. "Use of rhBMP-2 in Congenital Pseudarthrosis of the Tibia". "Repeat Surgical Interventions following "Definitive" Instrumentation and Fusion for Idiopathic Scoliosis – Revisited".

American Academy of Orthopaedic Surgeons Annual Meeting, Washington, DC. February 2005. "Legg Calve Perthes Disease. Current Concepts – ICL." "Symposium - What's new pediatric orthopaedics? Clubfoot portion"

AAOS Surgical Techniques for Managing Pediatric Orthopaedic Trauma... Avoiding Pitfalls and Problems, Chicago, IL, October 2004. "*Thoracolumbar spine trauma in children*".

Scoliosis Research Society Annual Meeting, Buenos Aires, Argentina, Sept 2004: *"Standardization of Criteria for AIS Brace Studies – SRS Committee on Bracing and nonoperative treatment"*.

POSNA Annual Meeting, St. Louis, MO., April 2004. "Prospective Study of Idiopathic Clubfeet Comparing the Ponseti and the French Methods – Early Results."

AAOS – Review and Update for Practicing Orthopaedic Surgeons, Chicago, IL, Dec 2003 and San Francisco, 2004. "*Pediatric Spine*" & "*Lower Extremity Fractures*."

American Academy of Orthopaedic Surgeons Course – Pediatric Orthopaedics: Current Perspectives and Techniques, Phoenix, AZ, October 2003. "Scoliosis", "Perthes Disease", "Nonoperative Clubfeet Treatment", "Spine Problems in Young Athletes."

Scoliosis Research Society Annual Meeting, Quebec City, Canada, Sept 2003. "Radiographic Assessment of Trunk Imbalance in Thoracic Scoliosis – Poster Presentation", "The Importance of Pelvic Fixation in Posterior Spinal Fusion for Cerebral Palsy – Poster Presentation."

American Orthopaedic Association Annual Meeting, Charleston, SC, June 2003. "Nonoperative Clubfoot Treatment Using Physical Therapy."

Pediatric Orthopaedic Society Annual Meeting, Amelia Island, FL, May 2003. "The Importance of Pelvic Fixation in Posterior Spinal Fusion for Cerebral Palsy." Benjamin Stephens Richards, M.D. Curriculum Vitae Page 9 of 26

> American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, LA, February 2003. "Legg Calve Perthes Disease. Current Concepts – ICL." POSNA Specialty Day: "Debate: Are Thoracic Pedicle Screws in Idiopathic Scoliosis Worth the Cost—No."

Pediatric Orthopaedic Society Annual Meeting, Salt Lake City, UT, May 2002. "Effect of CPM in the non-operative treatment of clubfeet – early results" & "Comparing Reliability of the Lenke and King Classification Systems for idiopathic scoliosis (in radiographs that were not premeasured)".

American Academy of Orthopaedic Surgeons Annual Meeting, Dallas, TX, Feb 2002. "Legg Calve Perthes Disease: Current Concepts – Instructional Course Lecture".

AAOS – Review and Update for Practicing Orthopaedic Surgeons, San Francisco, CA, Dec 2001 and 2002: "*Pediatric Spine*" & "*Lower Extremity Fractures*".

Scoliosis Research Society Annual Meeting, Cleveland, Ohio, September 19-22, 2001. "Comparing Reliability of the Lenke and King Classification Systems for Idiopathic Scoliosis". Poster presentation.

American Academy of Orthopaedic Surgeons Course - Pediatric Orthopaedics: Current Perspectives and Techniques. Washington, D.C., October 5-7, 2001. "Spine Problems in Young Athletes" & "Legg Perthes – Current Concepts".

Pediatric Orthopaedic Society Annual Meeting, Cancun, Mexico, May 2001. *"Repeat Surgical Interventions Following <u>Definitive</u> Instrumentation and Fusion for Scoliosis." <i>"Nonoperative Clubfoot Treatment Using the* French Method – Comparing Clinical Outcome with Radiographs" – Poster Presentation.

Medical Education and Research Institute - Faculty Member, Memphis, TN., May 2001. "Anterior Release for Adolescent Idiopathic Scoliosis with Fusion".

American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, CA, March 2001. "Legg Calve Perthes Disease: Current Concepts – Instructional Course Lecture".

Medical Education and Research Institute - Faculty Member, Memphis, TN., February 2001. "Anterior Release for Adolescent Idiopathic Scoliosis with Fusion".

Review and Update for Practicing Orthopaedic Surgeons – Faculty Member, Washington, D.C., December 2000. "Lower Extremity Fractures", "Pediatric Foot and Ankle".

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> Medical Education and Research Institute - Faculty Member, Memphis, TN., December 2000. "Anterior Release for Adolescent Idiopathic Scoliosis with Fusion".

> Scoliosis Research Society Annual Meeting, Cairns, Australia, October 2000. "Delayed Infections Following Posterior TSRH Spinal Instrumentation for Idiopathic Scoliosis – Revisited".

Pediatric Orthopaedic Society Annual Meeting, Vancouver, B.C., May 2000. "Nonoperative Clubfoot Treatment Comparing the French Method to Serial Below-Knee Casting - A Prospective Study."

Pediatric Orthopaedics: Current Perspectives and Techniques. AAOS, La Jolla, CA. Dec. 1999. "Perthes Disease, Adolescent Idiopathic Scoliosis, Spondylolisthesis in the Adolescent Athlete."

Complications in Management of Spinal Disorders. One-Day SRS Course. San Diego, CA. Sept. 1999. "Postoperative Wound Infection."

Angular Deformities of the Lower Extremities. One-day POSNA Course. Orlando, FL. May 1999. "Blount's Disease - Brace, Osteotomy, Epiphyseolysis."

Pediatric Orthopaedics: Current Perspectives and Techniques. AAOS, Marco Island, FL. October 1997. "Perthes Disease, Adolescent Idiopathic Scoliosis."

Pediatric Orthopaedic Society Annual Meeting, Banff, Canada, May 1997. "A comparison Between the Boston Brace and the Charleston Bending Brace in Adolescent Idiopathic Scoliosis."

Instructional Course Lecture AAOS, 1996-1999: Back Pain in Childhood and Adolescence.

Pediatric Orthopaedic Society Annual Meeting, Phoenix, AZ, May 1996. Effectiveness of Brace Treatment in Early Infantile Blount's Disease.

Scoliosis Research Society, 29th Annual Meeting, Portland, Oregon; September 1994. Delayed Infections Following Posterior Spinal Instrumentation for Idiopathic Scoliosis. Preventing the Crankshaft Phenomenon by Combining Anterior Fusion with Posterior Instrumentation -Does It Work?

Pediatric Orthopaedic Society, Annual Meeting, Memphis, Tennessee, May 1994. Intermediate Follow-Up of a Simple Method of Hip Arthrodesis in Adolescent Patients. Benjamin Stephens Richards, M.D. Curriculum Vitae Page 11 of 26

Scoliosis Research Society, 28th Annual Meeting, Dublin, Ireland; September 1993. Treatment of Idiopathic Scoliosis Using Texas Scottish Rite Hospital (TSRH) Instrumentation.

Pediatric Orthopaedic Society, Annual Meeting, Greenbrier, West Virginia, May 1993. *Behavior of the Immature (Risser O) Spine in Idiopathic Scoliosis Following Posterior Spinal Instrumentation and Fusion.*

Spina Bifida Association of America, 19th Annual Conference, Dallas, Texas, June 1992. *Spinal Deformities in Spina Bifida*.

Pediatric Orthopaedic Society Annual Meeting, Newport, Rhode Island, May, 1992. Lumbar Curve Response in Type II Idiopathic Scoliosis Following Selective Thoracic Fusion.

Scoliosis Research Society, 25th Anniversary Meeting, Minneapolis, Minnesota, September, 1991. *Lumbar Curve Response in Type II Idiopathic Scoliosis Following Selective Thoracic Fusion*.

American Academy of Orthopaedic Surgeons: Challenges to the Pediatric Orthopaedist, Dallas, Texas, May, 1991. *Results of Resection for Partial Physeal Arrest*.

Pediatric Orthopaedic Society Annual Meeting, Dallas, Texas, May, 1991. Treatment of Idiopathic Scoliosis Using Texas Scottish Rite Hospital (TSRH) Instrumentation.

Euromedecine '90, Montpellier, France. November, 1990, *Syme Amputation*.

American Academy of Family Physicians 42nd Annual Meeting, Dallas, Texas. October, 1990. *Pediatric Gait Problems*.

American Academy of Orthopaedic Surgeons 56th Annual Meeting, Las Vegas, Nevada, February, 1989. *Postoperative Balance in Different Idiopathic Curve Configurations Following Cotrel-Dubousset Instrumentation*.

Scoliosis Research Society, 23rd Annual Meeting, Baltimore, Maryland; September, 1988. *Postoperative Balance in Different Idiopathic Curve Configurations Following Cotrel-Dubousset Instrumentation*.

American Academy of Orthopaedic Surgeons: Operative and Nonoperative Techniques in Children's Orthopaedics, Dallas, Texas. October, 1987. *Pavlik*

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Harness Treatment in CDH and Clubfoot Cast Treatment.

Western Orthopedic Association, 50th Annual Meeting, San Francisco, California. September, 1986. *Management of the Extruded Femoral Head in Perthes Disease*.

VISITING PROFESSOR

Eugene Rogala Visiting Professor, Montreal, CA 9/12/19. "Idiopathic Scoliosis – repeat surgery following definitive fusion", "Clubfeet at TSRH", "Congenital Pseudarthrosis of the tibia- challenges of a multicenter RCT"

Akron Children's Hospital Visiting Professor, Akron, OH 7/10/14-7/11/14. *"Spinal deformity – four talks", "Seeing the world"*

Beaumont Health System Visiting Professor, Royal Oaks, MI 5/19/14. "Congenital Pseudarthrosis of the Tibia – it's management"

Cincinnati Children's Hospital Visiting Professor, Cincinnati, OH, 6/25/13 – 6/26/13. "Repeat surgery in idiopathic scoliosis – is it's incidence decreasing?", "Congenital pseudarthrosis of the tibia – what is the role for biological supplementation to rigid fixation?"

Staheli Pediatric Orthopaedic Symposium, Seattle, WA, 1/20/12 – 1/21/12. " Repeat surgery for idiopathic scoliosis - Is its incidence decreasing?", "Idiopathic clubfoot management - what is the newest information?", "Congenital tibial pseudarthrosis - What is the role for biological supplementation to rigid fixation?"

Malaysia Spine Society Visiting Professor, Kuala Lumpur, Malaysia, 12/7/11 – 12/10/11. "Surgical management of AIS: past, present, future", "Lenke type V or VI curves – should we stop using ASF and only use PSF now?", "Bracing in EOS", "How to select the fusion level is AIS?", "Infections in idiopathic scoliosis."

Chinese Orthopaedic Association Visiting Professor, Beijing and Tianjin China, 11/29/11 - 12/7/11. "Bracing, casting & traction", "Posterior spinal fusion for thoracolumbar curves."

Leatherman Spine Symposium, Louisville, KY, 11/17/11 – 11/18/11. "*The role of scoliosis screening and brace treatment in AIS.*"

Herman Robbins Lecturer, NYU Hospital for Joint Diseases, NY, NY. 12/16/10 – 12/17/10. "Repeat surgery in idiopathic scoliosis – how can we decrease it's

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incidence?"

Frank Stelling Lecture, Shriner's Hospital / Medical College of Georgia School of Medicine, Augusta, GA. 11/5/10 – 11/6/10. "*Clubfoot*", *Supracondylar fractures*", "*Repeat scoliosis surgery*."

Caroll M. Silver Lecture, Rhode Island Hospital, Providence, RI. 10/5/10 – 10/6/10. "*Repeat surgery in idiopathic scoliosis – what can we do to decrease its incidence?*"

44th Annual Alumni Day, Univ of Connecticut/Connecticut Children's Medical Center, Hartford, CT. 5/20/10 – 5/21/10. "*Repeat surgery in idiopathic scoliosis – decreasing its incidence*", "*rhBMP in CPT – is BMP safe in the pediatric population*".

Lowman Visiting Professor, LA Orthopaedic Hospital, Santa Monica, CA. 4/22/10 - 4/24/10. "Supracondylar humerus fractures: when things go bad—then what?" and "rhBMP in CPT – is BMP safe in the pediatric population".

Kosair Lecture, Shriner's Hospital, Lexington, KY, 11/5/09 – 11/06/09. "The use of BMP-2 in congenital pseudarthrosis of the tibia", "Nonoperative management of clubfeet – Ponseti's method and the French functional method", "Repeat surgery for idiopathic scoliosis – what can we do to decrease the incidence?", Supracondylar humerus fractures – what to do when things go really bad."

Rainbow Babies and Children's Hospital, Case Western Reserve University, Cleveland, OH, 6/17/09. "BMP in congenital Pseudarthrosis of the Tibia: Is BMP Safe in the Pediatric Population", "Supracondylar humerus fractures-when things go wrong."

Arthur H. Stein Visiting Professor, Washington University at St. Louis, Missouri, 3/10/09 – 3/11/09. "Infection in adolescent idiopathic scoliosis."

Kalamazoo Center for Medical Studies, Michigan State University, Kalamazoo, MI, 2/12/08 – 2/14/08. "The use of BMP-2 in congenital pseudarthrosis of the tibia", "Nonoperative management of clubfeet – Ponseti's method and the French functional method", "Repeat surgery for idiopathic scoliosis – what can we do to decrease the incidence?", Supracondylar humerus fractures – what to do when things go really bad."

Cole Chatterton Minnesota Memorial Pediatric Orthopaedic Conference. Gillette Children's and Shriner's Hospital, St. Paul, MN, 11/14/08-11/15/08. *"rhBMP-2 in congenital pseudarthrosis of the tibia: should there be any hesitancy to use it?"*

Carroll B. Larson - Shrine Memorial Lecture; University of Iowa, Iowa City, IA,

3/27/08 – 3/29/08. "Repeat surgery for idiopathic scoliosis - what can we do to decrease the incidence?", "The use of BMP-2 in congenital pseudarthrosis of the tibia", "Determining fusion levels in adolescent idiopathic scoliosis", Nonoperative management of clubfeet - a comparison of results using Ponseti's method and the French functional method", "Infantile tibia vara".

University of Virginia, Charlottesville, VA, 2/5/08 - 2/7/08. "Repeat surgery in idiopathic scoliosis-what can we do to decrease its incidence?", "Use of rhBMP-2 in congenital pseudarthrosis of the tibia".

Children's Hospital of Boston, Boston, MA, 1/20/08. Grand Rounds: "Repeat surgery in idiopathic scoliosis – what can we do to decrease its incidence?"

Shriner's Hospital, Spokane, WA, Nov 2007. "Why do we return to the Operating Room for more surgery after the "definitive" procedure?"

Sofield Lectureship, Shriner's Hospital, Chicago, IL, November 2006: "Idiopathic Scoliosis – Why do we return to the Operating Room for more surgery after the "definitive" procedure?", "Use of rhBMP-2 in congenital pseudarthrosis of the tibia"

Leatherman Lectureship, Louisville, KY, May 2006. "Congenital Pseudarthrosis of the tibia and bone morphogenetic protein"

Shriner's Hospital, Erie, PA, October 2005. "Clubfeet – my experience over the past 20 years". "Idiopathic Scoliosis – repeat surgical intervention after the "definitive" procedure". "Use of rhBMP-2 in congenital pseudarthrosis of the tibia".

Schneider Children's Hospital, New Hyde Park, NY, November 2003. "Septic Arthritis", "The Pediatric Foot", "Back Pain in Children", "Lower Extremity Fractures", and "The Limping Child."

Shriner's Hospital, Greenville, SC, November 2003. "Clubfoot Treatment: My Cycle Over the Past 20 Years", "Newer Surgical Trends in Scoliosis—What Are We Learning?"

Leon Root Visiting Professor. Hospital for Special Surgery, New York, NY, October 2003. "*Clubfeet—The Past, The Present, The Future.*"

Texas Children's Hospital – Baylor University, Houston, TX, January 2003. *"Nonoperative Clubfoot Treatment."*

Shriner's Hospital, Salt Lake City, Utah, March, 2002. *Nonoperative Clubfoot Treatment, Adolescent Spinal Deformities*.

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Georgetown University, Washington, D.C., February 2002. Pediatric Spine.

Children's Hospital at the University of Alabama, Birmingham, AL. March 2001. *Idiopathic Scoliosis*.

Carrie Tingley Children's Hospital, Albuquerque, NM. Jan. 2000. Legg-Perthes Disease. Hip Arthrodesis Techniques.

14th Annual LeBonheur-Campbell Clinic Pediatric Orthopaedic Symposium, Memphis, Tennessee, April 1997: *Developmental Dysplasia of the Hip. Idiopathic Scoliosis*.

Les Journees de Montpellier, France, March 1996. *Perspectives on The Surgical Management of Idiopathic Scoliosis*.

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