

John G. Birch, M.D.

Publications

- J. Birch and J.J. Wiley: Congenital Dislocation of the Hip - The Pavlik Experience. *The Annals of the Royal College of Physicians and Surgeons of Canada*, 13(2): 147, 1980 Apr.
- J. Birch and O. Portner: The Quadriceps Tendon - Patellar Over-the Top Repair. *The Annals of the Royal College of Physicians and Surgeons of Canada*, 13(2): 147, 1980 Apr.
- J. Birch, J. Herring, and D. Wenger: Surgical Anatomy of Selected Physes. *J. Pediatr. Orthop.*, 4(2):224-231, 1984 Mar.
- J. Birch: Chapter "Osteogenesis Imperfecta: Orthopedic Aspects", *Current Concepts of Bone Fragility*, H.K. Uthoff (ed.), Springer-Verlag, Berlin-Heidelberg, 1986.
- R.T. Loder, J.G. Birch, and C.E. Johnston: Concomitant Discitis and Spondylolisthesis at Adjacent Lumbar Vertebrae. *J. Pediatr. Orthop.*, 9(2): 283-285, February 1986.
- C. Gruel, J.G. Birch, J.W. Roach, and J.A. Herring: Teratologic Dislocation of the Hip. *J. Pediatr. Orthop.*, 6(6):693-702, 1986 Nov-Dec.
- J. Birch, J.A. Herring, and K. Maravilla: Splitting of the Intervertebral Disc in Spondylolisthesis: A Magnetic Resonance Imaging Finding in Two Cases. *J. Pediatr. Orthop.*, 6(5):609-611, 1986 Sep-Oct.
- J. Birch: Slipped Capital Femoral Epiphysis: Still an Emergency. *J. Pediatr. Orthop.*, 7(3):334-337, 1987 May-Jun.
- J. Birch and J. Herring: Spinal Deformity in Marfan Syndrome. *J. Pediatr. Orthop.*, 7(5):546-552, 1987 Sep-Oct.
- R.D. Galpin and J.G. Birch: Congenital Elevation of the Scapula (Sprengel's Deformity). *Orthopedics*, 10(6):965-970, 1987 Jun.
- J.A. Herring and J.G. Birch: Whither the Bar. *J. Pediatr. Orthop.*, 7(6):722-725, 1987 Nov-Dec.
- J. Birch, J. Herring, J. Roach, and C. Johnston: Cotrel-Dubousset Instrumentation in Idiopathic Scoliosis: A Preliminary Report. *Clin. Orthop. Relat. Res.*, 227:24-29, 1988 Feb.
- R.B. Ashman, J.G. Birch, L.B. Bone, J.D. Corin, J.A. Herring, C.E. Johnston, J.F. Ritterbush, and J.W. Roach: Mechanical Testing of Spinal Instrumentation. *Clin. Orthop. Relat. Res.*, 227:113-125, 1988 Feb.
- J. Birch: Decubitus Ulcer. *Current Therapy in Pediatric Infectious Diseases*, J.D. Nelson (ed.), B.C. Decker, Inc., Toronto, 1988, p. 112.

- R.D. Galpin, J.W. Roach, D.R. Wenger, J.A. Herring, and J.G. Birch: One-Stage Treatment of Congenital Dislocation of the Hip in Older Children, including Femoral Shortening. *J. Bone Joint Surg. Am.*, 71(5):734-741, 1989 Jun.
- B.S. Richards, J.G. Birch, J.A. Herring, C.E. Johnston, and J.W. Roach: Frontal Plane and Sagittal Plane Balance following Cotrel-Dubousset Instrumentation for Idiopathic Scoliosis. *Spine*, 14(7):733-737, 1989 Jul.
- J.G. Birch, J.A. Herring, and J. Kramer: Orthopedic Disorders. *Current Therapy in Pediatrics-2*, H.F. Eichenwald and J. Stroder (eds.), B.C. Decker, Inc., Philadelphia, 1989.
- R.G. Viere, J.G. Birch, J.A. Herring, J.W. Roach, and C.E. Johnston: Use of the Pavlik Harness in Congenital Dislocation of the Hip: An Analysis of Failures of Treatment. *J. Bone Joint Surg. Am.*, 72(2):238-244, 1990 Feb.
- J.G. Birch, R.H. Browne, D.L. Carmen, J.A. Herring, C.E. Johnston, B.S. Richards, and J.W. Roach: Measurement of Scoliosis and Kyphosis Radiographs: Intraobserver and Interobserver Variation. *J. Bone Joint Surg. Am.*, 72(3):328-333, 1990 Mar.
- S.L. Weinstein and J.G. Birch: Closed Versus Open Reduction of Congenital Hip Dislocation in Patients Under 2 Years of Age. *Orthopedics*, 13(2):221-227, 1990 Mar.
- D. Wenger, J. Birch, K. Rathjen, R. Tobin, and G. Gillman: Metachondromatosis and Avascular Necrosis of the Femoral Head: A Radiographic and Histologic Correlation. *J. Pediatr. Orthop.*, 11(3):294-300, 1991 May-Jun.
- J.G. Birch: Ilizarov Apparatus for Infected Pseudarthrosis of the Spine: A Case Report. *Bull. Hosp. Jt. Dis.*, 51(1):93-98, 1991.
- J.G. Birch: Surgical Technique of Physeal Bar Resection. *Instr. Course Lect.*, 41:445-450, 1992.
- J. Birch: Epiphysiodese laterale dans la maladie de blount de l'adolescent. *Le Genou de L'enfant et de L'Adolescent A. Dimeglio*, L. Simon and Ch. Herison (eds.), Translated by A. Dimeglio. Collection de Pathologie Locomotrice 22, 1992.
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- C.E. Johnston II, M.J. Bueche, B. Williamson, and J.G. Birch: Epiphysiodesis for Management of Lower Limb Deformities. *Instr. Course Lect.*, 41:437-444, 1992.
- I.C. Tuncay, C.E. Johnston II, and J.G. Birch: Spontaneous Resolution of Congenital Anterolateral Bowing of the Tibia. *J. Pediatr. Orthop.*, 14(5):599-602, 1994 Sep-Oct.

- M.R. Makarov, M.R. Delgado, M.L. Samchukov, R.D. Welch, and J.G. Birch: Somatosensory Evoked Potential Evaluation of Acute Nerve Injury Associated with External Fixation Procedures. *Clin. Orthop. Rel. Res.*, 308:254-263, 1994 Nov.
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- J.G. Birch: Posttraumatic Physeal Arrest. *Management of Pediatric Fractures*, R.M. Letts (ed.), Churchill Livingstone, Inc., New York, 1994, pp. 139-1153.
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- H. Lin, J.G. Birch, M.L. Samchukov, and R.B. Ashman: Computer-assisted Surgery Planning for Lower Extremity Deformity Correction by the Ilizarov Method. *J. Image Guid. Surg.*, 1(2):103-108, 1995.
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- R.W. Bucholz, B.H. Berry, J.G. Birch, H.J. Boulas, M. Finnegan, P.L. Flicker, F.A. Gottschalk, R.J. Heaps, and A.L. Jones: *Orthopaedic Decision Making*. Mosby, St. Louis, MO, 1996.
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- T.L. Lincoln and J.G. Birch: Focal Fibrocartilaginous Dysplasia in the Upper Extremity. *J. Pediatr. Orthop.*, 17(4):528-532, 1997 Jul-Aug.
- M.R. Makarov, M.R. Delgado, J.G. Birch, and M.L. Samchukov: Monitoring Peripheral Nerve Function During External Fixation of Upper Extremities. *J. Pediatr. Orthop.*, 17(5):663-667, 1997 Sep-Oct.
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- J.G. Birch: Orthopedic Management of Neuromuscular Disorders in Children. *Seminars in Pediatric Neurology*, 5(2):78-91, 1998 Jun.
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- G. Currarino, J.G. Birch, and J.A. Herring: Developmental Coxa Vara Associated with Spondylometaphyseal Dysplasia (DCV/SMD): SMD-Corner Fracture Type (DCV/SMD-CF) Demonstrated in Most Reported Cases. *Pediatr. Radiol.*, 30:14-24, 2000 Jan.
- E.L. Sink, L.A. Karol, J. Sanders, J.G. Birch, C.E. Johnston, and J.A. Herring: Efficacy of Perioperative Halo-Gravity Traction in the Treatment of Severe Scoliosis in Children. *J. Pediatr. Orthop.*, 21(4):519-524, 2001 Jul-Aug.
- K.D. Koch, R. Buchanan, J.G. Birch, A.A. Morton, R. J. Gatchel, and R.H. Browne: Adolescents Undergoing Surgery for Idiopathic Scoliosis: How Physical Psychological Characteristics Relate to Patient Satisfaction With the Cosmetic Result. *Spine*, 26(19):2119-2124, 2001 Oct.
- Tachdjian's Pediatric Orthopaedics, from the Texas Scottish Rite Hospital for Children*, 3rd edition, J.A. Herring (ed.), W.B. Saunders, Philadelphia, Sep 2001. Contributing Author.
- D.G. Bronson, M.L. Samchukov, J.G. Birch: Stabilization of a Short Juxta-Articular Bone Segment with Circular External Fixator. *J. Pediatr. Orthop.*, 11(2):143-149, 2002 Apr.
- C. Lindsey, M. Makarov, S. Shoemaker, J.G. Birch, P. Buschang, A. Cherkashin, R. Welch, and M. Samchukov: The Effect of the Amount of Limb Lengthening on Skeletal Muscle. *Clin. Orthop. Rel. Res.*, 402:278-287, 2002.
- G. Currarino, J.A. Herring, C.E. Johnston II, and J.G. Birch: An Unusual Form of Congenital Anterolateral Tibial Angulation - The Delta Tibia. *Pediatr. Radiol.*, 33:346-353, 2003.
- J.A. Ouellet, J. LaPlaza, M.A. Erickson, J.G. Birch, S. Burke, R. Browne: Sagittal Plane Deformity in the Thoracic Spine: A Clue to the Presence of Syringomyelia as a Cause for Scoliosis. *Spine*, 28(18):2147-2151, 2003 Sep.

- R. Buchanan, J.G. Birch, A.A. Morton, R.H. Browne: Do You See What I See? Looking at Scoliosis Surgical Outcomes through Orthopaedists' Eyes. *Spine*, 28(24):2700-2704, 2003 Dec.
- M.R. Makarov, M.L. Samchukov, J.G. Birch, C.E. Johnston, M.R. Delgado, P.L. Rampy, E.M. Van Allen: Acute Deformity Correction of Lower Extremities under SSEP-Monitoring Control. *J. Pediatr. Orthop.*, 23(4):470-477, 2003 Jul-Aug.
- M.R. Ferrick, J.G. Birch, and M. Albright: Correction of Non-Blount's Angular Knee Deformity by Permanent Hemiepiphyseodesis. *J. Pediatr. Orthop.*, 24:397-402, 2004.
- T.M. Roccio, M.B. Younes, D.G. Bronson, J.G. Birch, M.L. Samchukov: Mechanical Effect of Posterior Wire or Half-Pin Configuration on Stabilization Utilizing a Model of Circular External Fixation of the Foot. *Foot Ankle Int*, 25(3):136-143, 2004 Mar.
- J.G. Birch and M.L. Samchukov: Use of the Ilizarov Method to Correct Lower Limb Deformities in Children and Adolescents. *J. American Academy of Orthopaedic Surgeons*, 12(3):144-154, 2004.
- H. Lin, M. Samchukov, and J. Birch: The Multi-level Angular Deformity Determination in 3D Space with Total Curvature Analysis for Long Bones. *Conf. Proc. IEEE Eng. Med. Biol. Soc.*, 6:6172-6175, 2005.
- Instructional Course Lectures - Pediatrics*, 1st edition. J.G. Birch (ed). American Academy of Orthopaedic Surgeons, Rosemont, IL, 2006.
- H. Lin, M. Samchukov, J. Birch, A. Cherkashin: Semi-automated Intra-operative Fluoroscopy Guidance for Osteotomy and External Fixator. *Conf. Proc. IEEE Eng. Med. Biol. Soc.*, 1:3811-3814, 2006.
- J.G. Birch: Book Review, Lovell and Winter's *Pediatric Orthopaedics*, 6th edition; *Atlas of Pediatric Orthopaedic Surgery*, 4th edition. *J. Bone Joint Surg. Am.*, 89:231-232, 2007.
- A. Morton, R. Riddle, R. Buchanan, D. Katz, J.G. Birch: Accuracy in the Prediction and Estimation of Adherence to Bracewear Before and During Treatment of Adolescent Idiopathic Scoliosis. *J. Pediatr. Orthop.*, 28(3):336-341, 2008 April/May.
- L. Karol, C. Chambers, D. Popejoy, J. Birch: Nerve Palsy After Hamstring Lengthening in Patients with Cerebral Palsy. *J. Pediatr. Orthop.*, 28(7):773-6, 2008.
- J.G. Birch: "Lengthening in Specific Conditions: Congenital Deficiencies", *Management of Limb Length Discrepancy*, AAOS, in press 2009.
- J.G. Birch: "Growth and Development of the Musculoskeletal System", *Rudolph's Pediatrics*, 22nd edition, A. Sydor (ed.), McGraw-Hill, New York, NY, 2009.
- J.G. Birch: "Limb Deficiencies and Reconstruction", *Drennan's The Child's Foot and Ankle*, 2nd edition, J.J. McCarthy and J.C. Drennan (eds.), Wolters Kluwer Health, Lippincott Williams and Williams, Philadelphia, PA, 2010.

K.E. Rathjen, J.G. Birch: "Physeal Injuries and Growth Disturbances", *Rockwood and Wilkins' Fractures in Children*, 7th edition, J.H. Beaty and J.R. Kasser (eds.), J.M. Flynn, D.L. Skaggs, P.M. Waters (assoc. eds.), Wolters Kluwer, Lippincott Williams and Williams, Philadelphia, PA, 2010.

Video/Other Projects

J.G. Birch, J.A. Herring, R. Bell, and J. Corolla: Normal Gait (VT-238), 53rd Annual Meeting of the American Academy of Orthopaedic Surgeons, January 1986.

J.G. Birch, and S. Carduff: Surgical Management of Partial Physeal Bars (VT-326), 56th Annual Meeting of the American Academy of Orthopaedic Surgeons, January 1989.

Course Chairman/Co-Chairman

Modern Management of Lower Extremity Growth Disturbances Course at the 57th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, 1990.

Modern Management of Lower Extremity Growth Disturbances Course at the 58th Annual Meeting of the American Academy of Orthopaedic Surgeons, Anaheim, CA, 1991.

Challenges to the Pediatric Orthopaedist, One-Day CME Course, American Academy of Orthopedic Surgeons jointly sponsored by the Pediatric Orthopaedic Society of North America, Dallas, TX, May 1991.

Essential Concepts and Methodology of the Ilizarov Technique, Dallas, TX, April 1992.

The 28th Annual Brandon Carrell Visiting Professorship, Texas Scottish Rite Hospital for Children, Dallas, TX, May 19-20, 2006.

The Texas Scottish Rite Hospital for Children/Israel Orthopaedic Association 1st Instructional Course in Pediatric Orthopaedics, Western Galilee Hospital, Nahariya, Israel, June 6, 2006.

Professional Society Presentations

"The Quadriceps Tendon - Patellar Tendon Over-the-Top Repair", Annual Meeting of the Royal College of Physicians and Surgeons of Canada, Ottawa, Ontario, Canada, June 1980.

"Congenital Dislocation of the Hip - The Pavlik Experience", Annual Meeting of the Royal College of Physicians and Surgeons of Canada, Ottawa, Ontario, Canada, June 1980.

"Surgical Anatomy of Selected Physes", 1984 Meeting of the Pediatric Orthopaedic Society, Vancouver, BC, Canada, May 20-24, 1984.

"Cotrel-Dubousset Instrumentation in Idiopathic Scoliosis - A Preliminary Report", 3rd International Meeting on CD Instrumentation, Paris, France, June 2-6, 1986.

- "Scoliosis and Marfan's Syndrome", 21st Annual Meeting of the Scoliosis Research Society, Hamilton, Bermuda, September 21-25, 1986.
- "Use of the Pavlik Harness in the Treatment of CDH: An Analysis of Treatment Failures", 1988 Meeting of the Pediatric Orthopedic Society of North America, Colorado Springs, CO, May 4-8, 1988.
- "Use of the Pavlik Harness in the Treatment of CDH: An Analysis of Treatment Failures", Meeting of the Canadian Orthopaedic Association, Ottawa, Ontario, Canada, June 5-9, 1988.
- "Intra- and Interobserver Error in the Measurement of Scoliosis and Kyphosis Radiographs", 23rd Annual Meeting of the Scoliosis Research Society, Baltimore, MD, September 29 - October 2, 1988.
- "Use of the Pavlik Harness in the Treatment of CDH: An Analysis of Treatment Failures", 56th Annual Meeting of the American Academy of Orthopedic Surgeons, Las Vegas, NV, February 9-14, 1989.
- "Rotational Stability of Various Pedicle Hook Types", 1989 Meeting of the Pediatric Orthopedic Society of North America, Hilton Head, South Carolina, May 17-20, 1989.
- "Rotational Stability of Various Pedicle Hook Types", Combined Meeting of the Scoliosis Research Society and the European Spinal Deformities Society, Amsterdam, The Netherlands, September 17-22, 1989.
- "Resection of Partial Physal Arrests", Instructional Course on Modern Management of Lower Extremity Growth Disturbances at the 57th Annual Meeting of the American Academy of Orthopedic Surgeons, New Orleans, LA, February, 1990.
- "Ilizarov Apparatus for the Spine - A Case Report", 1st Annual Scientific Meeting of the Association for the Study and Application of the Methods of Ilizarov - North America, Kiawah Island, Charleston, SC, October 1990.
- "Lateral Tibial Epiphysiodesis for Adolescent Blount's Disease", 1991 Meeting of the Pediatric Orthopedic Society of North America, Dallas, TX, May 13-15, 1991.
- "A Multiple Variable Analysis of the Parameters Affecting the Rigidity of the Ilizarov Fixator", 2nd Annual Scientific Meeting of the Association for the Study and Application of the Methods of Ilizarov - North America, Kiawah Island, Charleston, SC, October 3-4, 1991.
- "Pelvic Inlet Reconstitution for Obstruction Associated with Lumbosacral Agenesis using Ilizarov's Apparatus: A Case Report", 2nd Annual Scientific Meeting of the Association for the Study and Application of the Methods of Ilizarov - North America, Kiawah Island, Charleston, SC, October 3-4, 1991.

- "A Biomechanical Study of the Ilizarov: A Systematic Approach", 4th Annual Scientific Meeting of the Association for the Study and Application of the Methods of Ilizarov - North America, New Orleans, LA, February 23, 1994.
- "The Effect of Rhythm of Distraction During Limb Lengthening: An Experimental Investigation", 4th Annual Scientific Meeting of the Association for the Study and Application of the Methods of Ilizarov - North America, New Orleans, LA, February 23, 1994.
- "SSEP Evaluation of Acute Nerve Injury During Ilizarov Instrumentation", 4th Annual Scientific Meeting of the Association for the Study and Application of the Methods of Ilizarov - North America, New Orleans, LA, February 23, 1994.
- "Spinal Lengthening by vertebral Epiphysiolyis Using the Ilizarov", 4th Annual Scientific Meeting of the Association for the Study and Application of the Methods of Ilizarov - North America, New Orleans, LA, February 23, 1994.
- "A Prospective Study of the Effects of Angular Deformity Correction and Lengthening on Joint Range of Motion and Muscle Strength in the Lower Extremity: A Preliminary Report", 4th Annual Scientific Meeting of the Association for the Study and Application of the Methods of Ilizarov - North America, New Orleans, LA, February 23, 1994.
- "The Use of a Pneumatically Powered Tensioner for the Application of K-Wires", 4th Annual Scientific Meeting of the Association for the Study and Application of the Methods of Ilizarov - North America, New Orleans, LA, February 23, 1994.
- "Angular Deformity Correction Using Ilizarov External Fixator with Modified Hinges and Angular Distraction", 4th Annual Scientific Meeting of the Association for the Study and Application of the Methods of Ilizarov - North America, New Orleans, LA, February 23, 1994.
- "Results of Partial Physeal Bar Resection in Patients with Langenskiöld Stage VI Infantile Blount's Disease", 1994 Meeting of the Pediatric Orthopaedic Society of North America, Memphis, TN, May 11-14, 1994.
- "Syme Amputation for Fibular Hemimelia: Evaluation of Long Term Physical and Psychological Function", 5th Annual Scientific Meeting of the Association for the Study and Application of the Methods of Ilizarov - North America, Orlando, FL, February 15, 1995.
- "Partial Physeal Bar Resection: Indications, Management, Technique, Results of T.S.R.H.", Meeting of the Paediatric Orthopaedic Society of New Zealand, March 23-25, 1995.
- "Management of Acute (Unstable) Slipped Epiphysis", Meeting of the Paediatric Orthopaedic Society of New Zealand, March 23-25, 1995.
- "The Ilizarov Apparatus in a Paediatric Population", Meeting of the Paediatric Orthopaedic Society of New Zealand, March 23-25, 1995.

- “Treatment of Idiopathic Adolescent Scoliosis at T.S.R.H.”, Meeting of the Paediatric Orthopaedic Society of New Zealand, March 23-25, 1995.
- “Syme Amputation for Fibular Hemimelia: Evaluation of Long Term Physical and Psychological Function”, 1995 Meeting of the Pediatric Orthopaedic Society of North America, Miami, FL, May 1-4, 1995.
- “Correction of Residual Deformity in Patients with Infantile Blount’s Disease Using Ilizarov’s Apparatus”, 6th Annual Scientific Meeting of the Association for the Study and Application of the Methods of Ilizarov - North America, Atlanta, GA, February 21, 1996.
- “Focal Hypoplasia of Distraction Regenerate Bone: Nature and Treatment”, 6th Annual Scientific Meeting of the Association for the Study and Application of the Methods of Ilizarov - North America, Atlanta, GA, February 21, 1996.
- “Correction of Femoral and Tibial Deformity”, American Academy of Orthopaedic Surgeons 1996 Speciality Day at the 63rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Atlanta, GA, February 22-26, 1996.
- “The Nature of Sagittal Plane Deformity in Scoliosis Associated with Syringomyelia”, 1996 Meeting of the Pediatric Orthopaedic Society of North America, Phoenix, AZ, May 12-15, 1996.
- “Basic Mechanical Principles with Practical Application in the Ilizarov Apparatus”, Meeting of the Australian Pediatric Orthopaedic Society, New Zealand, June 4-12, 1996.
- “Management of Infantile Scoliosis”, Meeting of the Australian Pediatric Orthopaedic Society, New Zealand, June 4-12, 1996.
- “Functional Classification of Fibular Hemimelia”, 7th Annual Scientific Meeting of the Association for the Study and Application of the Methods of Ilizarov - North America, San Francisco, CA, February 13-17, 1997.
- “Modified Ilizarov Apparatus for the Management of Severe Spinal Deformities”, 7th Annual Scientific Meeting of the Association for the Study and Application of the Methods of Ilizarov - North America, San Francisco, CA, February 13-17, 1997.
- “Functional Classification of Fibular Hemimelia”, 1997 Meeting of the Pediatric Orthopaedic Society of North America, Banff, Alberta, Canada, May 13-17, 1997.
- “Treatment Strategies in Blount’s and Other Angular Deformities in Children”, 65th Annual Meeting of the American Academy of Orthopedic Surgeons, New Orleans, LA, March 19-23, 1998.
- “Infection Congenital Developmental Problems”, AAOS Instructional Review Course at the 65th Annual Meeting of the American Academy of Orthopedic Surgeons, New Orleans, LA, March 15-17, 1998.

- “Treatment Strategies in Blount’s and Other Angular Deformities in Children”, 1998 Meeting of the Pediatric Orthopaedic Society of North America, Cleveland, OH, May 5-9, 1998.
- “Infection Congenital Developmental Problems”, 66th Annual Meeting of the American Academy of Orthopedic Surgeons, Anaheim, CA, February 4-7, 1999.
- “Physeal Arrest and Deformity/Etiology and Assessment”, 1999 Meeting of the Pediatric Orthopaedic Society of North America, Lake Buena Vista, FL, May 15-16, 1999.
- “Limb Lengthening Using External Fixation Fibular Deficiencies Femoral Deficiencies”, 2nd International Pediatric Orthopedic Symposium, May 26-30, 1999.
- “Adaptation of Different Muscle Groups to 30% Limb Lengthening”, 10th Annual Scientific Meeting of the Association for the Study and Application of the Methods of Ilizarov - North America, Lake Buena Vista, FL, March 13-14, 2000.
- “Lower Limb Lengthening”, AAOS Instructional Course at the 67th Annual Meeting of the American Academy of Orthopedic Surgeons, Orlando, FL, March 15-19, 2000.
- “Congenital Coxa Vara”, 3rd International Pediatric Orthopedic Symposium, San Francisco, CA, May 23-26, 2000.
- “Congenital Femoral Deficiency”, 3rd International Pediatric Orthopedic Symposium, San Francisco, CA, May 23-26, 2000.
- “Lower Limb Lengthening”, AAOS Instructional Course at the 68th Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, February 28 – March 4, 2001.
- “Functional Classification of Fibular Deficiency”, Meeting of the Australian Pediatric Orthopaedic Association, Adelaide, Australia, March 28 - April 6, 2001.
- “Effect of Low Intensity Pulsed Ultrasound on Regenerate Bone during Lengthening”, 1st Meeting of the A.S.A.M.I. International, Rome, Italy, May 24-26, 2001.
- “Adolescent Tibia Vara”, 4th International Pediatric Orthopaedic Symposium, Orlando, FL, August 28 - September 1, 2001.
- “Lower Limb Lengthening”, Instructional Course at the 69th Annual Meeting of the American Academy of Orthopedic Surgeons, Dallas, TX, February 13-17, 2002.
- “Tibia Vara”, 5th International Pediatric Orthopaedic Symposium, Lake Buena Vista, FL, December 4-8, 2002.
- “Congenital Deficiencies of the Fibula and Tibia”, 5th International Pediatric Orthopaedic Symposium, Lake Buena Vista, FL, December 4-8, 2002.
- “Physeal Injuries and Partial Growth Arrest”, 5th International Pediatric Orthopaedic Symposium, Lake Buena Vista, FL, December 4-8, 2002.

- “The Effect of Fiber Length and Pennation Angle Changes During Limb Lengthening”, 13th Annual Scientific Meeting of the Limb Lengthening and Reconstruction Society of North America, Boston, MA, July 25-27, 2003.
- “Advanced Limb Lengthening in Children”, Meeting of the Puerto Rico Orthopaedic Society, San Juan, Puerto Rico, August 29 - September 1, 2003.
- “Biology in Limb Lengthening”, Meeting of the Puerto Rico Orthopaedic Society, San Juan, Puerto Rico, August 29 - September 1, 2003.
- “Amputation for Fibular Deficiency”, 6th International Pediatric Orthopaedic Symposium, San Diego, CA, December 3-7, 2003.
- “Congenital Deficiency of the Fibula and Tibia”, 6th International Pediatric Orthopaedic Symposium, San Diego, CA, December 3-7, 2003.
- “Partial Physal Closure”, 6th International Pediatric Orthopaedic Symposium, San Diego, CA, December 3-7, 2003.
- “Insufficient Sarcomerogenesis May Contribute to the Development of Muscle Contractures During Limb Lengthening”, 2004 Meeting of The Pediatric Orthopaedic Society of North America, St. Louis, MO, April 29 - May 1, 2004.
- “Insufficient Sarcomerogenesis May Contribute to the Development of Muscle Contractures During Limb Lengthening”, 71st Annual Meeting of the American Orthopaedic Association, Boston, MA, June 23-26, 2004.
- “Effect of Gradual Distraction on Gene Expression in Striated Muscle”, 3rd Meeting of the A.S.A.M.I. International, Istanbul, Turkey, May 27-29, 2004.
- “The Effect of Gradual Stretching on Histomorphometry of Skeletal Muscle Fibers”, 14th Annual Scientific Meeting of the Limb Lengthening and Reconstruction Society North America, Toronto, Ontario, Canada, July 23-25, 2004.
- “Complications of Limb Lengthening and Deformity Correction Using Distraction Osteogenesis”, 72nd Annual Meeting of the American Academy of Orthopedic Surgeons, Washington, DC, February 22-27, 2005.
- “Role of Autologous Blood Donations and Cell Saver on Transfusion Rates After Total Hip Replacement”, 72nd Annual Meeting of the American Academy of Orthopedic Surgeons, Washington, DC, February 22-27, 2005.
- “Prediction of Contralateral Slipped Epiphysis Using the Modified Oxford Bone Age Score”, 2005 Meeting of The Pediatric Orthopaedic Society of North America, Ottawa, Ontario, Canada, May 13-15, 2005.
- AAOS Presentation to U.S. Congress, American Academy of Orthopaedic Surgeons Research Capitol Hill Days 2006, Washington, DC, February 15-16, 2006.

- “Complications in Limb Lengthening”, AAOS Instructional Course on New Methods of Limb Lengthening and Reconstruction at the 73rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 22-26, 2006.
- “Intra- and Inter-Observer Reliability for Modified Oxford Bone Scores”, 2006 Meeting of the Pediatric Orthopaedic Society of North America, San Diego, CA, May 2-6, 2006.
- “Complications in Limb Lengthening”, POSNA Course on Complications in Pediatric Orthopaedics at the 2006 Meeting of the Pediatric Orthopaedic Society of North America, San Diego, CA, May 3, 2006.
- “Overview of Scoliosis”, The Texas Scottish Rite Hospital for Children/Israel Orthopaedic Association 1st Instructional Course in Pediatric Orthopaedics, Western Galilee Hospital, Nahariya, Israel, June 6, 2006.
- “The Management of DDH”, The Texas Scottish Rite Hospital for Children/Israel Orthopaedic Association 1st Instructional Course in Pediatric Orthopaedics, Western Galilee Hospital, Nahariya, Israel, June 6, 2006.
- “Legg-Perthes Disease”, The Texas Scottish Rite Hospital for Children/Israel Orthopaedic Association 1st Instructional Course in Pediatric Orthopaedics, Western Galilee Hospital, Nahariya, Israel, June 6, 2006.
- M Samchukov, M Makarov, N Elmonoufy, C Wise, J Birch, “Comparative MYOZ2 Gene Expression in Different Skeletal Muscles After Limb Lengthening” (poster presentation), 4th Meeting of the A.S.A.M.I. International, Kyoto, Japan, October 11-14, 2006.
- “Complications in Tibial Deformity Correction and Lengthening in Children”, 4th Meeting of the A.S.A.M.I. International, Kyoto, Japan, October 11-14, 2006.
- “Use of a Modified Ilizarov Apparatus for Severe Spinal Deformities in Children”, Scientific Program Course at the 4th Meeting of the A.S.A.M.I. International, Kyoto, Japan, October 11-14, 2006.
- “Back Pain in Children”, 1st European Paediatric Orthopaedic Society/Pediatric Society of North America EPIC Course, Bratislava, Slovakia, January 25-27, 2007.
- “Classification and Conservative Management of Idiopathic Scoliosis”, 1st European Paediatric Orthopaedic Society/Pediatric Society of North America EPIC Course, Bratislava, Slovakia, January 25-27, 2007.
- “Surgical Treatment of Idiopathic Scoliosis”, 1st European Paediatric Orthopaedic Society/Pediatric Society of North America EPIC Course, Bratislava, Slovakia, January 25-27, 2007.
- “Avoidance and Solutions to Complications”, AAOS Instructional Course on New Methods of Limb Lengthening and Reconstruction at the 74th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 14-18, 2007.

“Congenital Lower Extremity Limb Deficiency: Treatment Strategies and Outcome”, 2007 Meeting of the Pediatric Orthopaedic Society of North America (SLAOTI Session), Hollywood, FL, May 23-26, 2007.

"Limb Salvage Reconstruction or Amputation for Severe Fibular Deficiency: A Two-Center Comparison of Psychosocial Adjustment, Quality of Life, Patient Satisfaction, and Physical Function", 2009 Meeting of the Pediatric Orthopaedic Society of North America, Boston, MA, April 29-May 2, 2009.

“DDH: Treatment from Birth to Walking Age”, 2009 Meeting of the Iranian Orthopaedic Society, Tehran, Iran, October 2009.

“Treatment of Residual Dysplasia in DDH”, 2009 Meeting of the Iranian Orthopaedic Society, Tehran, Iran, October 2009.

“Use of the Ilizarov Apparatus for Limb Lengthening in Children”, 2009 Meeting of the Iranian Orthopaedic Society, Tehran, Iran, October 2009.

“Evaluation and Management of Traumatic Growth Arrest”, Operative Management of Fractures and Fracture Complications Session, 7th Annual POSNA/AAOS International Pediatric Orthopaedic Symposium, Orlando, FL, December 2-6, 2009.

“Surgical Options for Infantile Tibia Vara” and “Surgical Options for Fibular Deficiency: Amputation vs. Reconstruction”, Limb Deformity Surgery Session, 7th Annual POSNA/AAOS International Pediatric Orthopaedic Symposium, Orlando, FL, December 2-6, 2009.

“Psychological Profiling in Limb Lengthening: Choosing the Right Patient”, Limb Lengthening and Reconstruction Society Specialty Day Program at the 77th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 9-13, 2010.

Professional Presentations

"The Ellison Procedure", A Rebuttal Surgical Review Day, The University of Ottawa, Ottawa, Ontario, Canada, June 1978.

"The Quadriceps Tendon - Patellar Tendon Over-the-Top Repair", Surgical Review Day, University of Ottawa, Ottawa, Ontario, Canada, June 1979.

"The Quadriceps Tendon - Patellar Tendon Over-the-Top Repair", Canadian Orthopaedic Residents Annual Meeting, Ottawa, Ontario, Canada, May 1980.

"Neuromuscular Scoliosis", Surgical Review Day, University of Ottawa, Ottawa, Ontario, Canada, May 1980.

"Congenital Dislocation of the Hip - The Pavlik Experience", Annual Pediatric Review Day, Children's Hospital of Eastern Ontario, Ottawa, Ontario, May 1979.

- "Range of Motion as a Prognostic Indicator in Legg-Perthes Disease" and "Surgical Anatomy of Selected Physes", Brandon Carrell Visiting Professorship, Dallas, TX, June 1982.
- "Children in the Emergency Room", Children's Hospital of Eastern Ontario, Ottawa, Ontario, Canada, April 7, 1983.
- "Care and Fitting of Amputees" and "Closed versus Open Reduction of Fractures", Canadian Orthopaedic Technicians Association, Ottawa, Ontario, Canada, October 15, 1983.
- "Detection and Evaluation of Scoliosis", Pediatric Refresher Course, Children's Hospital of Eastern Ontario, Ottawa, Ontario, Canada, October 28, 1983.
- "Luque Instrumentation", Canadian Association of Neurological and Neurosurgical Nurses, Ottawa, Ontario, Canada, February 23, 1984.
- "Scoliosis in Marfan's Syndrome", Brandon Carrell Visiting Professorship, Dallas, TX, March 15, 1985.
- "Segmental Spinal Instrumentation in Osteogenesis Imperfecta", SSI Study Group Meeting, Dallas, TX, April 1985.
- "Orthopaedic Aspects of Osteogenesis Imperfecta", 11th Annual Applied Basic Science Seminar, University of Ottawa, Ottawa, Ontario, Canada, May 16, 1985.
- "Children's Hip Problems" and "Children's Lower Extremity Problems", the University of Texas Southwestern Medical Center Orthopaedic Surgery Review Course, Dallas, TX, May 1985.
- "Normal Gait", Texas Orthopedic Orthotic and Prosthetic Training Program, Dallas, TX, September 1985.
- "Children's Hip Problems" and "Children's Lower Extremity Problems", the University of Texas Southwestern Medical Center Orthopaedic Surgery Review Course, Dallas, TX, May 1986.
- "Preliminary Experience with the CD System", 13th Annual Applied Basic Science Seminar, University of Ottawa, Ottawa, Ontario, Canada, May 8, 1986.
- "Normal Gait", Texas Orthopedic Orthotic and Prosthetic Training Program, Dallas, TX, October 1986.
- "Cervical Spinal Deformity in Larsen's Syndrome", Brandon Carrell Visiting Professorship, Dallas, TX, April 23-25, 1987.
- "Surgical Anatomy of the Growth Plate", 14th Annual Applied Basic Science Seminar, University of Ottawa, Ottawa, Ontario, Canada, May 13-15, 1987.
- "Children's Hip Problems" and "Children's Lower Extremity Problems", the University of Texas Southwestern Medical Center Orthopaedic Review Course, Dallas, TX, June 1987.

"Normal Gait", Texas Orthopedic Orthotic and Prosthetic Training Program, Dallas, TX, October 1987.

"Children's Hip Problems" and "Children's Lower Extremity Problems", the University of Texas Southwestern Medical Center Orthopaedic Surgery Review Course, Dallas, TX, April 1989.

"Normal Gait", Texas Orthopedic Orthotic and Prosthetic Training Program, Dallas, TX, October 1989.

"Children's Hip Problems" and "Children's Lower Extremity Problems", the University of Texas Southwestern Medical Center Orthopaedic Review Course, Dallas, TX, May 1990.

"Normal Gait", Texas Orthopedic Orthotic and Prosthetic Training Program, Dallas, TX, October 1990.

"Children's Hip Problems" and "Children's Lower Extremity Problems", the University of Texas Southwestern Medical Center Orthopaedic Review Course, Dallas, TX, April 1991.

"Normal Gait", Texas Orthopedic Orthotic and Prosthetic Training Program, Dallas, TX, October 1991.

"Resection of Partial Physeal Arrests", Instructional Course on Modern Management of Lower Extremity Growth Disturbances at the 58th Annual Meeting of the American Academy of Orthopedic Surgeons, Anaheim, CA, 1991.

"Children's Hip Problems" and "Children's Lower Extremity Problems", the University of Texas Southwestern Medical Center Orthopaedic Review Course, Dallas, TX, June 1992.

"Normal Gait", Texas Orthopedic Orthotic and Prosthetic Training Program, Dallas, TX, October 1992.

"Physeal Bar Resection: Indication, Technique and Results" and "Ilizarov Method in a Pediatric Population: History, Indications and Results", 26th Annual Winter Pediatric Orthopaedic Seminar, Albuquerque, NM, January 12-13, 1996.

"Pelvic, Hip and Femur - Pediatrics", "Knee and Leg - Pediatrics", and "Ankle and Foot - Pediatrics", 4th Southwestern Orthopaedic Recertification Review Course, January 19-21, 1996.

"Introduction of Ilizarov System", Mid-Cities Association of Operating Room Nurses, Dallas, TX, January 22, 1996.

"Children's Hip Problems" and "Children's Lower Extremity Problems", the University of Texas Southwestern Medical Center Orthopaedic Surgery Review Course, Dallas, TX, May 10-12, 1996.

"Knee Pain - Fractures", Pediatric Orthopaedic Symposium, Dallas, TX, May 18, 1996.

“Pediatric Care after Leg Length Correction with Ilizarov Technique”, 16th Annual Congress of National Association of Orthopaedic Nurses, Dallas, TX, June 4, 1996.

“Children’s Hip Problems” and “Children’s Lower Extremity Problems”, University of Texas at Arlington Nursing Program, Arlington, TX, July 25, 1996.

“LegPerfect Computerized Program”, LegPerfect Training Course, Seattle, WA, October 18, 1996.

“Modified Ilizarov Apparatus for the Management of Severe Spinal Deformities in Children”, Joe W. King Orthopaedic Institute, Houston, TX, November 8, 1996.

“Surgical and Rehabilitation Management of Children with Hip Dysplasias”, APTA - Combined Sections Meeting, Dallas, TX, February 16, 1997.

Visiting Professorship: “Fibular Deficiency” and “Use of Ilizarov Apparatus in a Pediatric Population”, 2000 Leslie C. Meyer Visiting Lectureship, Greenville, SC, July 26, 2000.

“Hip Problems”, “Clubfoot”, and “Lower Extremity Problems”, the University of Texas Southwestern Medical Center Orthopaedic Surgery Review Course, Dallas, TX, March 15, 2002.

“Pediatric Orthopedic Screening”, University of Texas at Arlington Nursing Program, Arlington, TX, April 4, 2002.

“The Limping Child, Evaluation of the Limp”, University of Texas at Arlington Nursing Program, Arlington, TX, September 7, 2002.

“Orthotics in Children”, the University of Texas Southwestern Medical Center Dallas Short Course, Dallas, TX, October 24, 2002.

Visiting Professorship: “Children’s Hip Problems”, Cook’s Children’s Hospital, Ft. Worth, TX, March 21, 2003.

“Children’s Hip Problems” and “Children’s Lower Extremity Problems”, University of Texas at Arlington Nursing Program, Arlington, TX, March 27, 2003.

Visiting Professorship: “Management of Fibular Hemimelia at TSRH” and “Halo Gravity Traction in the Management of Severe Spinal Deformity”, Denver Children’s Hospital, Denver, CO, April 11, 2003.

“Pediatric Hip and Lower Extremities”, the University of Texas Southwestern Medical Center Orthopaedic Surgery Review Course, Dallas, TX, April 27, 2003.

“Advances and Controversies in Limb Lengthening”, Baltimore Limb Deformity Course, Baltimore, MD, September 6-11, 2003.

“Lower Extremity Bracing in Children”, the University of Texas Southwestern Medical Center Orthopaedic Surgery Review Course, Dallas, TX, October 23-25, 2003.

Visiting Professorship: “Fibular Deficiency”, Infantile Blount’s Disease”, and “Halo Traction”, Shriners Hospital for Children, Portland, OR, November 7-8, 2003.

“Pediatric Hip and Lower Extremities”, the University of Texas Southwestern Medical Center Orthopaedic Surgery Review Course, Dallas, TX, April 16-18, 2004.

“Treating Clubfoot”, 6th International Moebius Syndrome Conference, Texas Moebius Support Network, Arlington, TX, July 9-11, 2004.

“Lower Extremity Bracing in Children”, the University of Texas Southwestern Medical Center Orthopaedic Surgery Review Course, Dallas, TX, October 21-24, 2004.

Ground Rounds: “Long-term Halogavity Traction for Severe Scoliosis” and “Classification and Management of Fibular Deficiency at TSRH”; and Visiting Professorship: “History of the Ilizarov Apparatus and its Use in a Pediatric Population”; Cincinnati Children’s Hospital Medical Center, Cincinnati, OH, September 27-28, 2005.

“Lower Extremity Bracing in Children”, the University of Texas Southwestern Medical Center Orthopaedic Surgery Review Course, Dallas, TX, October 21-22, 2005.

Visiting Professorship: “History of Ilizarov Apparatus and Applications for the Correction of Foot Deformities in Children” and “Use of the Oxford Bone Score to Predict Risk of Contralateral Slipped Capital Femoral Epiphysis in Patients Presenting with Unilateral Slip”, Shriners Hospital for Children, Springfield, MA, January 19-20, 2006.

Visiting Professorship: Annual Hans K. Uthoff Research Day, Children’s Hospital of Eastern Ontario, Ottawa, Ontario, Canada, April 20-21, 2006. Host: Hans Uthoff, MD.

Visiting Professorship: Western Galilee Hospital, Nahariya, Israel, June 3-8, 2006. Host: Gershon Volpin, MD.

Visiting Professorship, Georgetown University Medical Center, Department of Orthopaedic Surgery, Washington, DC, November 7, 2006. Host: John N. Delahay, M.D.

Visiting Professorship: 11th Kosair Lecture, Shriners Hospital for Children, Lexington, KY, December 14-15, 2006. Host: Chester Tylkowski, M.D.

“ABCs of the Polytrauma Child” and “The Limping Child: Septic Arthritis or Transient Synovitis?”, 20th Ste-Justine Paediatric Orthopaedic Review Course / Interprofessional Paediatric Orthopaedic Course, Montreal University, Ste.-Justine, Shriners and Montreal Children’s Hospitals, Montreal, Quebec, Canada, March 28-30, 2007.

“Classification and Management of Fibular Deficiency”, “Oxford Bone Age for Prediction of Contralateral Slip in Idiopathic SCFE”, and “Use of the Ilizarov Apparatus in a Pediatric Population”, Visiting Professorship, British Columbia Children’s Hospital, Vancouver, BC, Canada, October 25-26, 2007. Host: Charles Reilly, M.D.

“History of the Ilizarov Apparatus” and “Classification and Management of Fibular Deficiency at Texas Scottish Rite Hospital”, Visiting Professorship, 2008 Mercer Rang Lectureship, SickKids-The Hospital for Sick Children, Toronto, Canada, June 19-20, 2008. Hosts: Benjamin Alman, M.D., Reinhard Zeller, M.D., and Jeanne Zeller, M.D.

“Lower Extremity Bracing in Children”, the University of Texas Southwestern Medical Center Prosthetics and Orthotics Course, Dallas, TX, October 23-24, 2008.

"Strategies to Avoid and Treat Muscle and Joint Contractures", LLRS Specialty Day presentation at the 2009 Annual Meeting of the American Academy of Orthopedic Surgeons, Las Vegas, NV, 2009.

“Response of Skeletal Muscle to Mechanical Limb Lengthening in a Goat Model” and “Classification and Management of Congenital Fibular Deficiency”, Visiting Professorship and Ground Rounds Lectureship, Allegheny General Hospital/Shriners’ Hospital, Pittsburgh, PA, February 8-9, 2010.

“Foot Deformities and Pain” and “‘Baby Hippy’ for DDH (Live Demonstration and Lab)”. The University of Texas Southwestern and Texas Scottish Rite Hospital for Children Pediatric Orthopaedic Education Series, Dallas, TX, March 2010.

“History of the Ilizarov Apparatus and Use in a Pediatric Population”. Visiting Professorship, Dayton Orthopaedic Society Meeting, sponsored by Ohio State University College of Medicine/Wright State University/Miami Valley Hospital, Dayton, OH, March 2010.

“Classification and Management of Congenital Fibular Deficiency”. Grand Rounds Lectureship, Dayton Children’s Hospital, Dayton, OH, March 2010. Hosts: James Binski, M.D. and Richard Laughlin, M.D.