**Curriculum Vitae**

**Mark A. Erickson, MD, MMM**

1. **Biographical Sketch**

Business Address: 13123 E 16th Avenue B060

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Business website: [www.childrenscolorado.org](http://www.childrenscolorado.org)

Home Address: 3003 South Oak Way

Lakewood, Colorado 80227

Marital Status: Wife: Susan Fudge-Erickson, MD

Children: Tyler and Cooper

**Professor**, 2015-Present, University of Colorado School of Medicine, Department of Orthopaedic Surgery

**Rose Brown Chair in Pediatric Orthopedics,** 2005-2019,Children’s Hospital Colorado, Aurora, Colorado

**Chairman, Department of Pediatric Orthopedics**, 2005-2019, Children’s Hospital Colorado, Aurora, Colorado

**Medical Director** **Spine Center,** 1998-Present, Children’s Hospital Colorado, Aurora, Colorado

**Fellowship Director, Pediatric Orthopedics Surgery,** 2005-Present, University of Colorado School of Medicine, Department of Orthopedic Surgery

1. **Education**

Miami University, Oxford, Ohio 1984 B.A. Zoology

Wright State University, Dayton, Ohio 1989 M.D. Doctor of Medicine

University of Southern California 2010 MMM Master’s in Medical

Management

1990-1991 **General Surgery Internship**

Wright State University, Dayton, Ohio, Department of Surgery

1994 **Orthopaedic Surgery** **Residency**

Wright State University, Dayton, Ohio, Department of Orthopaedic

Surgery

1995 **Dorothy and Bryant Edwards Fellowship in Pediatric Orthopaedics**

**And Scoliosis**

Texas Scottish Rite Hospital for Children, Dallas, Texas

1. **Academic Appointments**

1997-2004 **Assistant Professor**, Department of Orthopaedics

University of Colorado School of Medicine

2004-2015 **Associate Professor**, Department of Orthopaedics

University of Colorado School of Medicine

2015-Present **Professor,** Department of Orthopaedics

University of Colorado School of Medicine

1. **Hospital Appointments**

1995-Present **Pediatric Orthopaedic Staff Surgeon**, Children’s Hospital Colorado

1998-Present **Medical Director Spine Center**, Children’s Hospital Colorado

2005-2019 **Rose Brown Chair in Pediatric Orthopaedics**, Children’s Hospital

Colorado

2005-2019 **Chairman, Department of Pediatric Orthopaedic**s, Children’s Hospital

Colorado

1. **Other Professional Positions**

2005-Present **Pediatric Orthopaedic Fellowship Director**, University of Colorado School of Medicine

Hospital Affiliations

1995-1998 Presbyterian/St. Luke’s Hospital Denver, Colorado

1996-1998 Denver Health Medical Center Denver, Colorado

2000-2004 Exempla Lutheran Medical Center Wheatridge, Colorado

2002-2004 Swedish Medical Center Englewood, Colorado

2008-Present Memorial Hospital Colorado Springs, Colorado

2007-Present Exempla Saint Joseph Hospital Denver, Colorado

1. **Honors, Special Recognition, and Awards**

1988 AOA Honors Society, Wright State University School of Medicine

1989 Medical Student of the Year, Montgomery County Medical Societies

1989 Resident of the Year, Miami Valley Hospital

1992 Hobart E. Klarrenn Basic Science Award, Wright State University,

Department of Orthopaedic Surgery

2000 Faculty and Teacher of the Year Award, Department of Orthopaedics,

University of Colorado School of Medicine

2007 Surgical Multidisciplinary Specialties Center Award of Patient

Appreciation

2007 Children’s Medical Practice Service Excellence Team Award of

Appreciation

2007 Service Excellence Everyday Customer Service Reward

2013 Recognized in Top 20 Spine Surgeons & Specialists at Children’s

Hospitals by Becker’s Spine Review

2014 Accepted to The American Orthopaedic Association (AOA)

2018 Alan Bucknell Resident Teaching Excellence Award

1. **Membership in Professional Organizations**

1988 American Orthopaedic Association Honors Society

1997-Present American Board of Orthopaedic Surgery

1997-2014 American Medical Association

1997-Present Colorado Medical Society

1997-Present Colorado Orthopaedic Society

1997-Present Pediatric Academic Research Society

1997-Present Pediatric Orthopaedic Society of North America

1997-Present Scoliosis Association

1997-Present Scoliosis Research Society

1996-Present Western Orthopaedic Association

2000-Present American Academy of Orthopaedic Surgeons

2005-2015 Spinal Deformity Study Group

2009-present American College of Physician Leadership

2014-Present American Orthopaedic Association

1. **Major Committee and Service Responsibilities**

Departmental

2005-Present Children’s Orthopaedic Day Program Committee, Children’s Hospital Colorado, Orthopaedic Department

2006-2012 Pediatric Orthopaedics for Primary Care, Program Committee Chair, Children’s Hospital Colorado, Orthopaedic Department

2008-2010 Orthopaedic Clinic Task Force Committee, Children’s Hospital Colorado, Orthopaedic Department

2005-present Musculoskeletal Research Center Steering Committee, Children’s Hospital Colorado

2005-present Fellowship Selection Committee, Children’s Hospital Colorado, Orthopaedic Department

2010-Present Orthopedic Institute Board of Directors, Children’s Hospital Colorado

2012-Present Orthopedic Institute Education Committee, Children’s Hospital Colorado

Hospital

1997-2008 Institutional Committee, Medical Board, Children’s Hospital Colorado

1997-2010 Physician Review Team, Children’s Hospital Colorado

1997-2010 Medical Board, Children’s Hospital Colorado

2001-2010 Family Advisory Council, Children’s Hospital Colorado

2001-2002 Medical Board Nominating Committee, Children’s Hospital Colorado

2002-2003 Surgeon in Chief Task Force Committee, Children’s Hospital Colorado

2003-2019 Planning and Facilities Committee, Children’s Hospital Colorado

2005-2019 Surgical Chairman’s Committee, Children’s Hospital Colorado

2005-2006 Surgical Service Improvement Team, Children’s Hospital Colorado

2006-2007 Inpatient Move Physician Advisory Council, Children’s Hospital Colorado

2006-2008 Medical Executive Committee, Children’s Hospital Colorado

2006-2008 Professional Affairs Committee, Children’s Hospital Colorado

2006-2007 GE Healthcare Surgical Operations Committee, Children’s Hospital

2006-2009 Perioperative Services Steering Committee, Children’s Hospital Colorado

2007-Present Target Zero: Spine Infection Task Force, Children’s Hospital Colorado

2008-2010 Virtual Department Operations Committee, Department of Surgery,

Children’s Hospital Colorado

2008-2009 Secretary, Medical Board, Children’s Hospital Colorado

2009-2019 Children’s North Surgery Center, Board of Directors

2011-2012 Physician Leadership Development Program, Children’s Hospital Colorado

2011-Present Clinical Leadership Council, Children’s Hospital Colorado

2011-Present Monthly Leadership Team, Children’s Hospital Colorado

2012-present Graduate Medical Education, Program Director’s Committee, Children’s

Hospital Colorado

2013-2019 Center for Children’s Surgery Finance & Operations Committee,

Children’s Hospital Colorado

2014-2019 Child Health Clinical Operations Committee, Children’s Hospital

Colorado

2014-2019 Growth and Partnerships Strategic Planning Team, Children’s Hospital

Colorado

University

2004-2019 Finance Committee, Department of Orthopaedic Surgery, University of

Colorado School of Medicine

2006-2019 UPI Sub-Committee on Pediatric Practice and Faculty Affairs, University

Physicians Incorporated

2010-2019 Executive Committee, Department of Orthopaedic Surgery, University of Colorado School of Medicine

National/International

2004 Program Committee 2004 Annual Meeting, Pediatric Orthopaedic Society

of North America

2007-2010 POSNA Publications Committee, Pediatric Orthopaedic Society of North

America

2009-2010 Chairmen, POSNA Publications Committee, Pediatric Orthopaedic

Society of North America

2009-2012 Practice Management Committee, Pediatric Orthopaedic Society of

North America

2011-2018 QSVI Committee, Pediatric Orthopaedic Society of North America

2011-2012 Chairman, Practice Management Committee, Pediatric Orthopaedic

Society of North America

2012 Local Host 2012 Annual Meeting, Pediatric Orthopaedic Society of

North America

2012-2019 Development Committee, Pediatric Orthopaedic Society of North America

2013-2019 Safety and Practice Improvement Committee, Scoliosis Research Society

2013-2019 Board of Directors, Pediatric Orthopaedic Society of North America (POSNA)

2014-2018 Epic National Steering Board

2015-2019 Industry Relations committee, POSNA

2015-2019 Treasurer, POSNA

2017-2021 SRS Safety and Value committee

2020-present SRS Education committee

2022-2023 SRS Education committee Chair

1. **Licensure and Board Certification**

1990-1997 Ohio Medical License

1995-Present Colorado Medical License

1994-Present American Board of Orthopaedic Surgery

1994 Part I Certification, American Board of Orthopaedic Surgery

1997 Part II Certification, American Board of Orthopaedic Surgery

2006 Recertification, American Board of Orthopaedic Surgery

2018 Recertification, American Board of Orthopaedic Surgery

1. **Review and Referee Work**

2008 *Guidelines for Management of Neurological Injury Following the Operative Treatment of Idiopathic Scoliosis*,American Academy of Orthopaedic Surgeons, **Advisory Board**

2009-Present Clinical Orthopaedics and Related Research, **Editor/Reviewer**

2009-presentJournal of the American Academy of Orthopaedic Surgeons, **Editor/Reviewer**

2013-present Journal of Pediatric Orthopaedics, **Editor/Reviewer**

2013-present Journal of Bone and Joint Surgery, **Editor/Reviewer**

2013- present JAAOS, **Editor/Reviewer**

2018-present Journal of Spinal Deformity

1. **Visiting Professorships**

2006 G. Dean MacEwen Basic Concepts in Pediatric Orthopaedic Surgery Visiting Professor, Children’s Hospital New Orleans. New Orleans, Lousiana.

2010 Invited Visiting Professor. Univeristy of Vermont, Department of Surgery. Burlington, Vermont

2011 Robert J. Ruderman Visiting Lecture, Duke University, Orthopedic Surgery Grand Rounds. Durham, North Carolina.

2011 Ralph W. Coonrad Visiting Professor. Duke University. Durham, North Carolina.

2011 Visiting Professor 36th Oleika Lecture. University of Kentucky, Shriner’s Hospital for Children. Lexington, Kentucky.

2014 Visiting Professor. Grand Rounds. Alleghany General Hospital, Pittsburgh, Pennsylvania.

2014 Visiting Professor. Spine Conference. Morgan Stanley Children’s Hospital, New York, New York.

2014 Visiting Professor. Current Concepts in Pediatric Spinal Deformity. Morgan Stanley Children’s Hospital, New York, New York.

2015 Visiting Professor. Orthopaedic Center for Spinal & Pediatric Care. Wright State University, Dayton Children’s Hospital. Dayton, Ohio.

2015 Dickinson Lectureship Visiting Professor. Cleveland Orthopaedic Society-The 2015 Dickinson Lectureship. Cleveland Clinic. Cleveland, Ohio.

2016 Visiting Professor. Current Techniques in Pediatric Spinal Deformity. Morgan Stanley Children’s Hospital, New York, New York.

2016 Visiting Professor. University of Cincinnati, Cincinnati, Ohio.

2017 Charles LeRoy Lowman Visiting Professor, UCLA, Los Angeles, CA

2017 Scientific Advisory Council Visiting Professor. University of Cincinnati, Cincinnati, OH

2018 Visiting Professor, UT-Houston, Houston, TX

2018 Frank H Stelling Visiting Professor, Augusta University, Augusta, GA

2019 Visiting Professor, Stony Brook University, New York, NY

2021 Byron Beattie Visiting Professor, Portland Shriner’s Hospital, Portland, OR

2023 Visiting Professor, Beaumont Hospital, Detroit Michigan

1. **Invited Educational Teaching Records**

Local

1995 Slipped Capital Femoral Epiphysis. Grand Rounds. *University of Colorado School of Medicine, Department of Orthopaedic Surgery*. Denver, Colorado.

1995 Common Pediatric Orthopaedic Deformities. Grand Rounds. *University of Colorado School of Medicine, Department of Physical Medicine and Rehabilitation.* Denver, Colorado.

1996 Fractures in Children. Orthopaedics for the Primary Care Physician. *University of Colorado School of Medicine.* Denver, Colorado.

1996 Spine Trauma in Children. Orthopaedics for the Primary Care Physician. *University of Colorado School of Medicine.* Denver, Colorado.

1996 Sagittal Plane Spine Deformities in Children. Children’s Orthopaedic Day. *Children’s Hospital Colorado.* Denver, Colorado.

1996 Pediatric Limb Deformities. Grand Rounds. *University of Colorado School of Medicine, Department of Orthopaedic Surgery.* Denver, Colorado.

1997 Spondylolisthesis in Children. Children’s Orthopaedic Day. *Children’s Hospital Colorado.* Denver, Colorado.

1998 Spinal Fusion in Children. Grand Rounds. *University of Colorado School of Medicine, Department of Orthoapedic Surgery.* Denver, Colorado.

1998 Thorascopic Anterior Spinal Surgery in Children. Children’s Orthopaedic Day. *Children’s Hospital Colorado.* Denver, Colorado.

1998 Sports Medicine Update: Performance Enhancing Practices. Pediatric Grand Rounds. *Lutheran Medical Center.* Denver, Colorado.

1999 The Effect of Baclofen Pumps on Scoliosis in Cerebral Palsy. Children’s Orthopaedic Day. *Children’s Hospital Colorado.* Denver, Colorado.

2000 The Development of a High Risk Spinal Fusion Pathway. Children’s Orthopaedic Day. *Children’s Hospital Colorado.* Denver, Colorado.

2000 Orthopaedic Considerations in Spasticity Management: Spasticity Management Update. *University of Colorado School of Medicine, Department of Rehabilitation and Physical Medicine.* Denver, Colorado.

2000 Computerized Gait and Movement Analysis: Spasticity Management Update. *University of Colorado School of Medicine, Department of Rehabilitation and Physical Medicine.* Denver, Colorado.

2000 Post-Operative Complications in Pediatric Spinal Surgery. 9th Annual O’Neal Pediatric Update. *Children’s Hospital Colorado.* Denver, Colorado.

2000 *Spine Injuries in Children: Emergent Care of the Injured Child*. Children’s Hospital Colorado. Denver, Colorado.

2001 Pediatric Spinal Deformity. Grand Rounds. *University of Colorado School of Medicine, Department of Neurosurgery.* Denver, Colorado.

2001 Idiopathic Scoliosis: Evaluation, Classification, and Treatment. Grand Rounds. *University of Colorado School of Medicine, Department of Orthopaedic Surgery.* Denver, Colorado.

2001 High Risk Spinal Fusions. Eliza Fernie Neonatal/Pediatric Critical Care Symposium. *Children’s Hospital Colorado.* Denver, Colorado.

2001 Biomechanical Analysis of a Unit Rod Construct with and without Pedicle Screw Fixation: A Human Cadaver Study. Children’s Orthopaedic Day. *Children’s Hospital Colorado.*  Denver, Colorado.

2001 Congenital and Traumatic Amputations in Children. Grand Rounds. *University of Colorado School of Medicine, Department of Physical Medicine and Rehabilitation.* Denver, Colorado.

2001 Development and Evaluation of a High Risk Spinal Fusion Pathway.

Nursing Grand Rounds. *Children’s Hospital Colorado.* Denver, Colorado.

2002 Complications in High Risk Spinal Fusions. Children’s Orthopaedic Day. *Children’s Hospital Colorado*. Denver, Colorado.

2002 Holes in Bones. Grand Rounds. *University of Colorado School of Medicine, Department of Orthopaedic Surgery.* Denver, Colorado.

2002 Pediatric Spine Injuries: Diagnosis and Management. Grand Rounds. *University of Colorado School of Medicine, Department of Orthopaedic Surgery.* Denver, Colorado.

2002 Spinal Fusion in Children: Treatment Trends, Instrumentation, and Complications. Nursing Grand Rounds. *Children’s Hospital Colorado.* Denver, Colorado.

2003 Pediatric Cervical Spine Injuries. Grand Rounds*. University of Colorado School of Medicine, Department of Neurosurgery.* Denver, Colorado.

2003 Surgical Interventions for Children with Cerebral Palsy. Surgical Services Workshop. *Children’s Hospital Colorado*. Denver, Colorado.

2003 Pediatric Spine Fractures. Grand Rounds. *University of Colorado School of Medicine, Department of Orthopaedic Surgery.* Denver, Colorado.

2003 Development and Evaluation of a High Risk Spinal Fusion Pathway.

*Society of Pediatric Nurses.* Denver, Colorado.

2004 Care of the Pediatric and Adolescent Spine Patient. *Denver Association of Operating Room Nurses Meeting.* Denver, Colorado.

2004 Retrospective Analysis of Neurological Injury Occurring In Neuromuscular Scoliosis Surgery. Children’s Orthopaedic Day. *Children’s Hospital Colorado.* Denver, Colorado.

2005 Perioperative Management of the Pediatric Spine Patient.

*8th Annual Preoperative Services Workshop.* Denver, Colorado.

2005 Compartment Syndrome. Children’s Orthopaedic Day. *Children’s Hospital Colorado.* Denver, Colorado.

2005 Newborn Orthopaedic Issues. Pediatric Grand Rounds. *Children’s Hospital Colorado.* Denver, Colorado.

2006 Anterior vs. Posterior Fusion for Thoracic Lumbar Scoliosis. Children’s Orthopaedic Day. *Children’s Hospital Colorado.* Denver, Colorado.

2007 Anterior vs. Posterior Instrumentation for Treatment of Lenke Type 5 Thoracolumbar Scoliosis. The Annual University of Colorado Alumni Association Visiting Professorship. *University of Colorado School of Medicine.* Aurora, Colorado.

2007 Orthopaedics for the Primary Care Provider. *53rd Family Medicine Review.* Denver, Colorado.

2007 Evaluation of Children with Orthopedic Disorders. *53rd Family Medicine Review.* Denver, Colorado.

2007 Pediatric Spine: What Not to Miss. Pediatric Orthopaedics for The Primary Care Provider. *Children’s Hospital Colorado*. Aurora, Colorado.

2008 Back Pain in Children. Pediatric Orthopaedics for the Primary Care Physician Conference. *Children’s Hospital Colorado.* Aurora, Colorado.

2009 Motion Analysis as a Tool to Analyze Chest Wall Dynamics. Children’s Orthopaedic Day. *Children’s Hospital Colorado.* Aurora, Colorado.

2010 3D Measurement of Vertical Expandable Prosthetic Titanium Rib (VEPTR) Surgery on Chest Wall Dynamics: Motion Analysis. *University of Colorado, Department of Pulmonology*. Aurora, Colorado.

2010 Evaluation of High Risk Patients Undergoing Spinal Surgery: A Matched Case Series. *Children’s Orthopaedic Day.* Children’s Hospital Colorado. Aurora, Colorado.

2010 Scoliosis Surgical decision Making. Grand Rounds. *University of Colorado School of Medicine, Department of Orthopaedic Surgery.* Aurora, Colorado.

2011 Management of Spinal Deformity in Spinal Muscular Atrophy. *Spinal Muscular Atrophy Conference.* Aurora, Colorado.

2012 Lowest Instruments Vertebra Selection. Complex Spine Conference. *Children’s Hospital Colorado.* Aurora, Colorado.

2012 High Risk Spine Surgery Pathway. Nursing Grand Rounds. *Children’s Hospital Colorado.* Aurora, Colorado.

2012 Musculoskeletal Infections. Clinical Concepts and Conundrums in Pediatric Hospital Medicine. *Children’s Hospital Colorado.* Aurora, Colorado.

2013 Management of Spinal Deformity in Children with Spinal Muscular Atrophy: Recent Advances in Pediatric Neuromuscular Disease. Grand Rounds. Department Physical Medicine and Rehabilitation. *Children’s Hospital Colorado.* Aurora, Colorado.

2014 Background, Literature, and Evidence. *Complex Spine Symposium: Ethics, Interests, and Decision Making.* Center for Bioethics and Humanities. Children’s Hospital Colordao with University of Colorado School of Medicine. Aurora, CO

2015 Pediatric Spine-Adolescent Idiopathic Scoliosis. *Residency Core Curriculum.* University of Colorado School of Medicine, Department of Orthopaedics. Aurora, CO.

2015 Pediatric Spine-Complications & Management Strategies. *Residency Core Curriculum.* University of Colorado School of Medicine, Department of Orthopaedics. Aurora, CO.

2015 Thoracic Cage and the Lung. *Pediatric Pulmonary Conference.* Children’s Hospital Colorado. Aurora, CO.

2016 Neuromuscular scoliosis. *Residency Core Curriculum.* University of Colorado School of Medicine, Department of Orthopaedics. Aurora, CO.

2016 Spondylolysis and spondylolisthesis. *Residency Core Curriculum.* University of Colorado School of Medicine, Department of Orthopaedics. Aurora, CO.

Regional

1997 Current Concepts in Management of Adolescent Scoliosis. *Western Orthopaedic Association Annual Meeting.* Snowmass, Colorado.

1999 Sports Related Injuries in Pediatric and Adolescent Athletes*. Fifth Annual Pediatric Symposium.* Memorial Hospital. Colorado Springs, Colorado.

2000 Orthopaedic Trauma in Children*. 18th Annual Critical Care Symposium.* Memorial Hospital. Colorado Springs, Colorado.

2001 Thorascopic Spinal Surgery in Children. *Western Orthopaedic Association Annual Meeting.* Steamboat Springs, Colorado.

2002 Scoliosis Update: Classifications and Technological Advances. *Western Orthopaedic Association Annual Meeting.* Maui, Hawaii.

2015 Marfan Sydrome, CDTs and the Spine. *Colorado Symposium on Marfan Syndrome & Related Disorders.* Aurora, Colorado.

2019 Use of Ultrasonic Bone Scalpel in AIS. CU Research symposium. CU, Denver, CO

2019 The Development of a High Risk Spine Pathway: Lessons Learned. Children’s Orthopedic Day, CU. Aurora, CO

2022 Utility of Robotics and Navigation in Pediatric spine deformity. Robert E Eilert Children’s Orthopedic Day. Aurora CO

National/International

1995 Sagittal Plane Deformity in Scoliosis Associated with Syringomyelia.

*Brandon Carrell Visiting Professorship*. Texas Scottish Rite Hospital for Children. Dallas, Texas.

1996 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Colorado Springs, Colorado.

1997 Pediatric Orthopaedic Surgery Review.  *Colorado Orthopaedic Review Course.* Colorado Springs, Colorado.

1997 Post-Laminectomy Cervical Kyphosis. *Brandon Carrell Visiting Professorship.* Texas Scottish Rite Hospital for Children. Dallas, Texas.

1998 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Colorado Springs, Colorado.

1998 Slipped Capital Femoral Epiphysis. Grand Rounds. *Wright State University, Department of Orthopaedic Surgery.* Dayton, Ohio.

1999 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Colorado Springs, Colorado.

1999 The Effect of Baclofen Pumps on Scoliosis in Cerebral Palsy. *Brandon Carrell Visiting Professorship.*  Texas Scottish Right Hospital for Children. Dallas, Texas.

1999 Pediatric Hip Fractures. Grand Rounds. *Wright State University, Department of Orthopaedic Surgery.*  Dayton, Ohio.

1999 Pediatric Femur Fractures. Grand Rounds. *Wright State University, Department of Orthopaedic Surgery.* Dayton, Ohio.

2000 Current Concepts in Idiopathic Scoliosis. Grand Rounds*. Allegheny General Hospital, Department of Orthopaedic Surgery.* Pittsburgh, Pennsylvania.

2000 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Colorado Springs, Colorado.

2001 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Colorado Springs, Colorado.

2001 Biomechanical Analysis of a Unit Rod Construct With and Without Pedicle Screw Fixation: A Human Cadaver Study. *Brandon Carrell Visiting Professorship.* Texas Scottish Rite Hospital for Children. Dallas, Texas.

2002 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Colorado Springs, Colorado.

2003 Pediatric Orthopaedic Surgery Review. *Orthopaedic Recertification Course.* Phoenix, Arizona.

2003 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course*. Colorado Springs, Colorado.

2003 The Use of Three Dimensional Models in the Management of Complex Spine Deformity. *Brandon Carrell Visiting Professorship.* Texas Scottish Rite Hospital for Children. Dallas, Texas.

2004 Pediatric Orthopaedic Surgery Review. *Orthopaedic Recertification Course.* Steamboat Springs, Colorado.

2004 Spine Symposium. *Pediatric Orthopaedic Society of North America.* St. Louis, Missouri.

2004 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Westminster, Colorado.

2005 Pediatric Orthopaedic Surgery Review. *Orthopaedic Recertification Course.* Phoenix, Arizona.

2005 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Westminster, Colorado.

2005 Thoracoscopic Spine Surgery. *Fall Orthopaedic Summit on Minimally Invasive Surgery.* Keystone, Colorado.

2006 Childhood Lower Extremity Angular Deformities*. G. Dean MacEwen Basic Concepts in Pediatric Orthopaedic Surgery.* Children’s Hospital in New Orleans. New Orleans, Louisiana.

2006 The diagnosis and Management of Spondylolysis and Spondylolisthesis in Children and Adolescents*. G. Dean MacEwen Basic Concepts in Pediatric Orthopaedic Surgery.* Children’s Hospital in New Orleans. New Orleans, Louisiana.

2006 Idiopathic scoliosis: Diagnosis and Treatment Options. *G. Dean MacEwen Basic Concepts in Pediatric Orthopaedic Surgery.* Children’s Hospital in New Orleans. New Orleans, Louisiana.

2006 Pediatric Orthopaedic Surgery Review. *Orthopaedic Recertification Course.* Keystone, Colorado.

2006 Pediatric Spine Symposium: Thoracolumbar AIS, Anterior vs. Posterior Approach Debate. *Pediatric Orthopaedic Society of North America 2006 Annual Meeting.* San Diego, California.

2006 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Westminster, Colorado.

2007 Pediatric Orthopaedic Surgery Review. *Orthopaedic Recertification Course.* Phoenix, Arizona.

2007 Pedicle Subtraction Osteotomies in the Treatment of Congenital Kyphosis.

*The 29th Annual Brandon Carrell Visiting Professorship.* Texas Scottish Rite Hospital for Children. Dallas, Texas.

2007 Pediatric Spine Symposium: Spinal Deformity Update. *Pediatric Orthopaedic Society of North America 2007 Annual Meeting.* Hollywood, Florida.

2007 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Westminster, Colorado.

2008 Pediatric Orthopaedic Surgery Review. *Orthopaedic Recertification Course.* Steamboat Springs, Colorado.

2008 Spine Symposium. Symposium Chairman. *Pediatric Orthopaedic Society of North America.* Albuquerque, New Mexico.

2008 Management Options for Young Children with Large Scoliosis” Spine Symposium. *Pediatric Orthopaedic Society of North America Annual Meeting.* Albuquerque, New Mexico.

2008 Pearls and Pitfalls in the Treatment of Severe Adolescent Scoliosis. Spine Symposium. *Pediatric Orthopaedic Society of North America Annual Meeting.* Albuquerque, New Mexico.

2008 Thoracolumbar/Lumbar Idiopathic Scoliosis: Anterior Single vs. Dual Rod or Posterior Pedicle Screw Treatment? *Advanced Techniques in Deformity Surgery.* Los Angeles, California.

2009 Prospective Analysis Comparing Anterior vs Posterior Approach for Treatment of

Thoraclumbar Idiopathic Scoliosis. *Scoliosis Research Society 44th Annual*

*Meeting.* San Antonio, Texas.

2009 Prospective Radiographic and Clinical Outcomes and Complications of 756

Consecutive Operative Adolescent Idiopathic Scoliosis Patients. *Scoliosis Research Society 44th Annual Meeting.* San Antonio, Texas.

2009 Pedicle Screw Constructs Provide Superior Thoracic Rib Hump and Lumbar

Prominence Corrections Following Adolescent Idiopathic Scoliosis Surgery. *Scoliosis Research Society 44th Annual Meeting.* San Antonio, Texas.

2009 Correlation of Pre-op Curve Severity with Pulmonary Function Tests (PFTs) in

Adolescent Idiopathic Scoliosis. *Scoliosis Research Society 44th Annual Meeting.* San Antonio, Texas.

2009 Pediatric Orthopaedic Surgery Review. *Orthopaedic Recertification Course.* Dallas, Texas.

2009 Motion Analysis as a Tool to Analyze Chest Wall Dynamics. *Brandon Carrell Visiting Professorship.* Texas Scottish Rite Hospital for Children. Dallas, Texas.

2009 Pediatric Spine Trauma: Late Complications Associated with Spinal Cord Injury. Instructional Course Lecture. *American Academy of Orthopaedic Surgeons Annual Meeting.* San Francisco, California.

2009 Pediatric Orthopaedic Surgery Review*. Colorado Orthopaedic Review Course.* Westminster, Colorado.

2009 Anterior vs. Posterior Surgery for Thoracolumbar Adolescent Idiopathic Scoliosis. *Advanced Techniques for Spinal Deformity Surgeons.* Boston, Massachusetts.

2009 Lowest Instrumented Vertebrae Selection in Adolescent Idiopathic Scoliosis. Spine Symposium. *Pediatric Orthopaedic Society of North America Annual Meeting.* Boston, Massachusetts.

2009 Prospective Analysis Comparing Anterior vs Posterior Approach for Treatment of

Thoraclumbar Idiopathic Scoliosis. *Scoliosis Research Society 44th Annual*

*Meeting.* San Antonio, Texas.

2010 Selection of Fusion Levels in Idiopathic Scoliosis. *Current Techniques in Spinal Deformity Course.* Denver, Colorado.

2010 Pediatric Spine Trauma: Late Complications Associated with Spinal Cord Injury. Instructional Course Lecture. *American Academy of Orthopaedic Surgeons Annual Meeting.* New Orleans, Louisiana.

2010 Management of Pediatric Spine Trauma. *American Academy of Orthopaedic Surgeons Annual Meeting.* New Orleans, Louisiana.

2010 Evaluation of Spine Deformities Using Motion Analysis. *Gait and Clinical*

*Movement Analysis Society Annual Meeting.* Miami, Florida.

2010 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course*.

Westminster, Colorado.

2010 Creating Accountable Organizations. Grand Rounds. *University of Vermont, Department of Surgery.* Burlington, Vermont.

2010 Choosing Fusion Levels: Too Long….Too Short? *Current Techniques in Spinal Deformity.* Aurora, Colorado.

2010 Pelvic Fixation in the Ambulatory Patient. *Current Techniques in Spinal Deformity.* Aurora, Colorado.

2011 Creating Integrated Clinical Care Pathways. Grand Rounds. *Brooke Army*

*Medical Center, Department of Orthopaedic Surgery.*  San Antonio, Texas.

2011 Selection of Fusion Levels in Idiopathic Scoliosis: Have Pedicle Screws Changed

the Paradigm?” *Complex Spine Deformity Course.* San Francisco, California.

2011 Intra-Operative Safety in Spinal Deformity Surgery. *Complex Spine Deformity*

*Course.* San Francisco, California.

2011 Revision Spinal Deformity Surgery: Evaluation and Management. *Complex Spine*

*Deformity Course.* San Francisco, California.

2011 Pediatric Spine Trauma: Late Complications associated with Spinal Cord Injury. Instructional Course Lecture. *American Academy of Orthopaedic Surgeons Annual Meeting.* San Diego, California.

2011 Pediatric Spine Trauma:Thoracic and Lumbar Spine Trauma. Instructional Course Lecture. *American Academy of Orthopaedic Surgeons Annual Meeting.* San Diego, California.

2011 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.*

Westminster, Colorado.

2011 Does Spinal Fusion for the Treatment of Scoliosis Affect Gait Performance. *Musculoskeletal Research Symposium.* University of Colorado School of Medicine. Aurora, Colorado.

2011 Management of Early Onset Scoliosis. *Robert J. Ruderman Visiting Lecture,* Duke University, Orthopedic Surgery Grand Rounds. Durham, North Carolina.

2011 Development and Implementation of Clinical Care Pathways. *Ralph W. Coonrad Visiting Professor.* Duke University. Durham, North Carolina.

2011 Business Model Governance Applied to Academic Medicine. *Visiting Professor 36th Oleika Lecture.* University of Kentucky, Shriner’s Hospital for Children. Lexington, Kentucky.

2011 Management of Pediatric Femur Fractures. *Visiting Professor 36th Oleika Lecture.* University of Kentucky, Shriner’s Hospital for Children. Lexington, Kentucky.

2011 Principles of Surgical Management of AIS: Choosing Fusion Levels.

*Visiting Professor 36th Oleika Lecture.* University of Kentucky, Shriner’s Hospital for Children. Lexington, Kentucky.

2011 Intra-operative Decision Making. *Visiting Professor 36th Oleika Lecture.* University of Kentucky, Shriner’s Hospital for Children. Lexington, Kentucky.

2012 Use of Osteotomies in Complex Spinal Deformity in Children. One Day Course.

*Scoliosis Research Society Annual Meeting.* Chicago, Illinois.

2012 Pediatric Orthopedic Review. *Orthobullets Webinar.*

2012 Pediatric Orthopaedic Surgery Review.” *Colorado Orthopaedic Review Course.*

Westminster, Colorado.

2012 Pediatric Spinal Trauma. *American Osteopathic Academy of Orthopaedics*

*Annual Meeting.* Colorado Springs, Colorado.

2012 Spondylolysis Repair in Children: When, Why, and How. One Day Course.

*Pediatric Orthopaedic Society of North America.* Denver, Colorado.

2013 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.*

Westminster, Colorado.

2013 Management of the Infected Posterior Spine Fusion. *International Pediatric Orthopaedic Symposium.* Orlando, FL

2013 Exotic Spine Deformity. *International Pediatric Orthopaedic Symposium.* Orlando, FL.

2013 National Orthopaedic Spine Service Line Collaborative. Catholic Health Initiatives. Invited Keynote Speaker. Englewood, Colorado.

2014 A Protocol for Pre-operative Urine Cultures in Spine Surgery. *Neurological Complications in Spinal Deformity Surgery.* Salt Lake City, Utah.

2014 A Multidisciplinary Approach to decreasing Surgical Site Infection in Pediatric Spine Surgery. Allegheny General Hospital. *Department of Orthopedic Surgery Grand Rounds*. Pittsburgh, PA

2014 Update on scoliosis diagnosis and management options. Allegheny General Hospital. *Department of Orthopedic Surgery Grand Rounds.* Pittsburgh, PA

2014 How to Approach the Huge Scoliosis Curve. Morgan Stanley Children’s Hospital. New York, New York

2014 Technical Considerations for Pelvic Fixation in Pediatric Spinal Deformity Surgery. Morgan Stanley Children’s Hospital. New York, New York.

2014 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.*

Westminster, Colorado.

2014 Challenging Case Presentation: VEPTR for Early Onset Scoliosis. *Fall Spine Symposium.* Texas Scottish Right Hospital for Children. Dallas, Texas.

2014 Making the Most of Physician Extenders. *International Pediatric Orthopaedic Symposium*. Orlando, Florida.

2014 Exotic Spine. *International Pediatric Orthopaedic Symposium*. Orlando, Florida.

2014 Strategies to Address the Huge Curve. *Current Concepts in Pediatric Spinal Deformity.* Morgan Stanley Children’s Hospital, New York, New York.

2014 Younger Smaller Stature Patient. *Current Concepts in Pediatric Spinal Deformity.* Morgan Stanley Children’s Hospital, New York, New York.

2015 Choosing Fusion Levels in AIS. *Visiting Professorship.* Dayton Children’s Hospital. Dayton, Ohio.

2015 Multidiscplinary Approach to Diminishing Surgical Site Infection. *Visiting Professorship.*  Dayton Children’s Hospital. Dayton, Ohio.

2015 Pediatric Spine Session-Moderator*. Pediatric Orthopaedic Society of North America Annual Meeting.* Atlanta, Georgia.

2015 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Westminster, Colorado.

2015 Making Spinal Deformity Surgery Sustainable Session-Panel Speaker. *Scoliosis Research Society Annual Meeting*. Minneapolis, Minnesota.

2015 Optimizing Resident & Fellow Education in the Era of Work Hour Restrictions. *Cleveland Orthopaedic Society-The 2015 Dickinson Lectureship.* Cleveland Clinic. Cleveland, Ohio.

2015 Minimizing Surgical Site Infections in Orthopaedic Surgery. *Cleveland Orthopaedic Society-The 2015 Dickinson Lectureship.* Cleveland Clinic. Cleveland, Ohio.

2016 Strategies to Address the Huge Curve. *Current Techniques in Pediatric Spinal Deformity.* Morgan Stanley Children’s Hospital, New York, New York.

2016 Spondylolisthesis: Treatment Options. *Current Techniques in Pediatric Spinal Deformity.* Morgan Stanley Children’s Hospital, New York, New York.

2016 Decision Making in Congenital Scoliosis*. Pediatric Orthopaedic Society of North America Annual Meeting.* Indianapolis. Indiana.

2016 Complications in Pediatric Spinal Deformity Surgery. *University of Cincinnati, Department of Orthopedic Surgery, Grand Rounds.* Cincinnati, Ohio.

2016 A Review of Spine Conditions in Children. *University of Cincinnati, Department of Orthopedic Surgery, Grand Rounds.* Cincinnati, Ohio.

2016 Pediatric Spinal Trauma. *University of Cincinnati, Department of Orthopedic Surgery, Grand Rounds.* Cincinnati, Ohio.

2016 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Denver, Colorado.

2017 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Denver, Colorado.

2017 Early onset scoliosis. UCLA, Los Angeles, CA

2017 Multidisciplinary approach to SSI. UCLA, Los Angeles, CA

2017 Spine Osteotomies in Pediatric Spine Deformity. UCLA, Los Angeles, CA

2018 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Denver, Colorado.

2018 Multidisciplinary approach to SSI.UT-Houston, Houston, TX

2018 EOS, Management principles. UT-Houston, Houston, TX

2018 Lower extremity Disorders in Pediatric Orthopaedics. AAOS ICL, Orlando, FL

2018 Infection and Growth in Pediatric Orthopaedics. AAOS ICL. Orlando, FL

2018 Spine Disorder in Pediatric orthopaedics. AAOS ICL. Orlando, FL

2018 Choosing Fusion Levels in AIS. University of Augusta, Auguista, GA

2018 Pediatric Femus Fractures. University of Augusta, Augusta, GA

2018 Multidisciplinary Approach to Surgical Site infections in Orthopaedics. University of Augusta, Augusta, GA

2018 Management of Complex Pediatric Spine Deformity. Branden Carrell lectureship, TSRH, Dallas, TX

2018 Neuromuscular disorders; Concommitant Spine and Hip Issues. IPOS. Orlando, FL

2018 Global perspectives on Spine Infections. IPOS. Orlando, FL

2018 When to Fuse to the Pelvis in GMFCS 4/5? IPOS. Orlando, FL

2019 Principles of Rib and Spine Based Distraction. AAOS, Instructiuonal Course Lecture

2019 Lower extremity Disorders in Pediatric Orthopaedics. AAOS ICL, Las Vegas, NV

2019 Infection and Growth in Pediatric Orthopaedics. AAOS ICL. Las Vegas, NV

2019 Spine Disorder in Pediatric orthopaedics. AAOS ICL. Las vegas, NV

2019 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Denver, Colorado.

2019 Leadership in Orthopaedics. Stony Brook University. New York, NY

2019 Pediatric Orthopaedics: A day in the life. AAOS subspecialty webinar

2019 How to Start Your Day, and Develop a High Performing Team. Complex Pediatric Spine Deformity Conference. San Diego, CA

2019 LIV: L3 vs L4 in AIS. Complex Pediatric Spine Deformity Conference. San Diego, CA

2019 Ponte’s vs No Ponte’s in AIS. Complex Pediatric Spine Deformity Conference. San Diego, CA

2019 Getting out of trouble in Spine Surgery. Complex Pediatric Spine Deformity Conference. San Diego, CA

2019 NM Scoliosis: When to Fuse to the Pelvis. Complex Pediatric Spine Deformity Conference. San Diego, CA

2019 Untreated, Severe EOS. Complex Pediatric Spine Deformity Conference. San Diego, CA

2019 How big is too big for MAGEC? ICEOS, Atlanta, GA

2019 MAGEC rods vs Fusion in borderline patients. ICEOS, Atlanta, GA

2019 Lyme dz, septic arthritis, osteomyelitis, MRSA, nec fasc, Growth, physis, Leg length difference; ICL AAOS

2019 Idiopathic, congenital, scoli, kyphosis, torticollis, trauma (exclude neuromuscular spine); ICL AAOS

2019 Hip (perthes DDH, SCFE, others), PFFD/Fib hemi, Foot (CVT, clubfoot, others); ICL AAOS

2020 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Denver, Colorado.

2021 Using Medical Animation to Enhance Patient Education; POSNA Spine Subspecialty Day

2021 Pediatric Orthopaedic Surgery Review. *Colorado Orthopaedic Review Course.* Denver, Colorado.

2021 Robotics in Pediatric Spine surgery; IMAST ICL

2021 Leadership in Orthopedics; Portland, OR

2021 The Process Towards Continuous Process Improvement; Portland, OR

2021 Multidisciplinary Approach to Complex Patients in Pediatric Orthopedics; Portland, OR

1. **Teaching Record**

2005-Present Fellowship Director, Pediatric Orthopaedic Surgery Fellowship

Children’s Hospital Colorado, Denver

Mentoring

2004-2010 Peter D’Ambrosia, Orthopaedic Resident

2006 Stephanie Martinez, Undergraduate

2006 Julia Levenson, Undergraduate

2007 Jess Freitas, Undergraduate

2007 Lauren Wilson, Undergraduate

2007 Larissa Gaul, Undergraduate

2007 Hannah McCormick, Physical Therapy Student

2008 Lauren Hastings, Undergraduate

2012 Sabrina Renteria, MS3 Student

2012 Samuel Day, MS3 Student

2012 Robert Hudson, MS3 Student

2012 Thomas Ragole, MS3 Student

2013 Brandon Sawyer, MS3 Student

2013 Andrew Berry, MS3 Student

2013 Justin Mignell-Wilson, MS3 Student

2013 Mathew Lebsack, MS3 Student

2013 Jessica Schneider, MS3 Student

2013 David Soma, Pediatric Sports Fellow

2013 Bridget Ollensch, Undergraduate, Summer Intern

2013 Lillian Hoversten, Undergraduate, Summer Intern

2013 Aly Senz, Undergraduate Summer Intern

2014 Tommy Karrer, Undergradute

2014 Leanne Wellbrock, Nurse Practitioner Student

2014 Mark Reiderer, Pediatric Sports Medicine Fellow

2014 Gregory Carlson, MS4, Sub-I

2014 Damian Iling, MS4, Sub-I

2014 Robin Dunn, MS4, Sub-I

2014 Stephen Mikesell, Physician Assistant Student

2014 Leah Lieber, Physician Assistant Student

2014 Jason Koerner, MS1 Student

2015 Khaled Zaghlouol, Spine Fellow

2015 Danielle Magrini, Pediatric Sports Medicine Fellow

Foundations in Doctoring

2006-2008 Jenna Godfrey Orthopaedic Resident, University of

New Mexico

Pediatric Orthopedic Society of North America Mentor Program

2014 Alvin Jones Orthopaedic Resident, West Virginia

University

Research Assistants

Year Name Current Position

2008-2009 Laurel Hadley General Surgery Resident, Lousiana

State University

2009-2011 David Baulesh Medical Student, Rocky Vista University

College of Osteopathic Medicine

2011-2012 Conner Merritt Medical Student, Creighton University

2012-2013 Brendan Caprio Medicine Student, University of Cincinatti

2013-2015 Cameron Niswander Medicine Student, University of Colorado

2015-2017 Nikki Bloch Medicine Student, University of Colorado

2017-2018 Hannah Quick Medicine student

2018-2020 Eun Be Kim Medicine student

2020-2022 Angela Vu Medicine student

2021-present Florian Miller

Fellows

Year Name Current Position

1996-1997 Mark Sangimino Section Head, Pediatric Orthopaedic

Surgery, Alleghany Medical Center,

Pittsburgh

1997-1998 James McCarthy Chairman, Pediatric Orthopaedics,

Cincinnati Children’s Hospital

1998-1999 Jim Greene Pediatric Orthopaedic Center of Maine

1998-1999 Paul Saluan Cleveland Clinic, Center for Sports Health&

Pediatric Orthopaedic Surgery

2000-2001 Greg Schmale Associate Professor, University of

Washington School of Medicine,

Children’s Hospital of Seattle

2001-2002 Kapil Gangwal Rajasthan, India

2002-2003 Dan Farrell Overland Park Orthopaedics

2002-2003 Laurel Saliman Swedish Pediatric Specialty Care, Seattle

2005-2006 John Polousky Rocky Mountain Hospital for Children

2007-2008 Jefferson Jex Walter Reed Military Medical Center

2008-2009 Terry Mueller Dwight D. Eisenhower Army Medical

Center

2008-2009 Travis Murray Christus Santa Rosa Hospital

2009-2010 Amy Henning Naval Medical Center Porsmouth

2009-2010 Tim Mickel Naval Medical Center San Diego

2010-2011 James Barsi Assistant Professor, Stonybrook University

School of Medicine, New York

2010-2011 Alfred Mansour Section Head, Pediatric Orthopaedic

Surgery, Assistant Professor, University of Texas-Houston School of Medicine

2011-2012 Sayan De Assistant Professor, Children’s Hospital

Colorado, UCSOM

2011-2012 Courtney Holland William Beaumont Army Medical Center

2012-2013 Brien Rabenhorst Assistant Professor, University of Arkansas

School of Medicine, Arkansas Children’s Hospital

2012-2013 Joseph Stone Pediatric Orthopaedic Associates Atlanta

2013-2014 Stephanie Mayer Assistant Professor, Children’s Hospital

Colorado, UCSOM

2013-2014 Curtis Vandenberg Children’s Hospital of Los Angeles

2014-2015 Krister Freese University of Colorado-Hand Fellowship

2014-2015 Khalid Hesham Assistant Professor, SUNY Downstate

2015-2016 Steven Gibbons Tulane Lakeside

Hospital for Women and Children

2015-2016 Courtney O’Donnell Assistant Professor, Children’s Hospital

Colorado, UCSOM

2016-2017 Kimberly Spahn United States Navy, San Diego, CA

2016-2017 David Frumberg Assistant Professor, Yale University

2017-2018 Jessica Traver UT-Houston, Houston, TX

2017-2018 Wendy Ramalingam Assistant Professor, University of Cincinnati

2018-2019 Romie Gibly Assistant Professor, NorthwesternUniversity

2018-2019 Leonard Faulk Hand fellow, CU

2019-2020 Allison Ditmer Assistant Professor, Gillette Childrens

2019-2020 Stephanie Pearce Assistant Professor, University of Virginia

2020-2021 Hannah Mendez Private practice, Colorado Springs

2020-2021 Aaron Brandt Assistant Professor, Johns Hopkins

2021-2022 Oduche Igboechi Assistant Professor, University of Maryland

2021-2022 Brandon Roper Assistant Professor, UT Houston

Journal Club Leader

2010-Present Pediatric Orthopaedic Surgery Children’s Hospital Colorado

Fellowship Journal Club

2014-Present Leadership Journal Club Orthopaedic Residency

Program, University of

Colorado School of Medicine

1. **Grant Support**

**Completed Research Support:**

09/2008 – 08/2012 $126,535 **Medtronic**. “Impact of Spine Fusion Construct with Sacro-Pelvic Fixation on Gait Dynamics”. **M. Erickson, N. Miller, J. Carollo**.

06/2012-05/2018$31,250 **Orthopaedic Research and Education Foundation.** “Minimize Implants Maximize Outcomes Clinical Trial”. **M. Erickson, D. Polly**.

**Ongoing Research Support:**

03/2012-Present $6350 **John and Marcella Fox Foundation.** “FOX Pediatric Spinal Deformity Study”. **M. Erickson, L. Lenke**.

07/2016-Present $10,000 **Scoliosis Research Society**. “Use of Ultrasonic Bone Scalpel in Adolescent Idiopathic Scoliosis: Randomized Clinical Trial.” **M. Erickson, S. Garg, J. Thomas**.

06/2017-Present $9,800 **Pediatric Orthopedic Society of North America**. “3D Modeling Impact on VCR Surgical Plan.” **M. Erickson, S. Garg, T. Hankinson**

June 2012 to December 2017 $7,500 Erickson M, Garg S. FOX Pediatric Spinal Deformity study (John and Marcella Prospective Consortium Research Fund)'. John and Marcella Fox.

January 2013 to May 2018 $9,000 Erickson M, Garg S. Minimize Implants, Maximize

Outcomes Clinical Trial'. Orthopaedic Research and Education Foundation.

May 2016 to July 2018 $10,000 Garg S, Erickson M, Thomas JJ, Carry P. Use of

Ultrasonic Bone Scalpel in Adolescent IdiopathicScoliosis - Randomized Clinical Trial'. Scoliosis Research Society.

June 2017 to May 2019 $9,800 Garg S, Wagner J, Erickson M. VCR Surgical Plan

Pre-3D and Post-3D Modeling'. Pediatric Orthopedic Society of North America.

August 2017 to July 2019 $10,000 Garg S, Erickson M. Effect of I-beam Rod Geometry

on Axial Derotation of the Apical Vertebra in Posterior Spinal Fusion: A Prospective Study with Historical Comparative Cohort'.

1. **Professional Bibliography**

Peer Reviewed Publications

1. Thorascopic Anterior Spinal Procedures in Children. Rothenberg S, **Erickson**

**MA**, Eilert R, Fitzpatrick J, Chang F, Glancy G, Georgopoulos G, Brown C. *J. Pediatr Surg*. 1998 July; 33 (7):1168-1171.

2. Chiari I Malformation Associated with Syringomyelia and Scoliosis: A Twenty-Year Review of Surgical and Nonsurgical Treatment in a Pediatric Population. Eule JM,

O’Brien MF, Handler M., **Erickson MA.** *Spine.* 2002 Jul 1;27(13):1451-5.

3. Long Term Survival After Intralesional Resection and Multi-Modal Therapy of Thoracic Spine Osteosarcoma. Gore L, Greffe ES, Rothenberg SS, **Erickson MA,** Schreiber DF, Handler MH.*Med Pediatric Oncol.* 2003 Jun;40(6):400-2.

4. Sagittal Plane Deformity in Thoracic Spine: A Clue to the Presence of Syringomylia

as a Cause of Scoliosis. Ouellet JA, LaPlaza J, **Erickson MA**, Birch JG, Burke S, Brown R. *Spine.* 2003 Sep 15;28(18):2147-51.

5. Thorascopic Anterior Spinal Procedures in Children. Rothenberg S, **Erickson,**

**MA**, Eilert R, Fitzpatrick J, Chang F, Glancy G, Georgopoulos G, Brown C. *J. Pediat Endosurgery and Innovative Techniques.* 2004.

6. Biomechanical Assessment of Conventional Unit Rod Fixation versus United Rod

Fixation Supplemented with Lumbar Spine Pedicle Screw in a Human Cadaver Model. **Erickson MA**, Oliver T, Alet AL. *Spine.* 2004 Jun 15;29(12):1314-9.

7. Treatment of Adolescent Hallux Valgus with the First Metatarsal Double Osteotomy:

The Denver Experience: Johnson AE, Georgopoulos G, **Erickson MA**, Eilert RE.

*J Pediatr Orthop*. 2004 Jul-aug;24(4):358-62.

8. Non-Neurologic Complications Following Surgery for Adolescent idiopathic

Scoliosis. Carreon LY, Puno RM, Lenke LG, Richards S, Sucato DJ, Emans JB,

**Erickson MA**. *J Bone Joint Surg* *Am*. 2007 Nov;89(11):2427-32.

9. Management of an Open Acetabular Fracture in a Skeletally Immature Patient. Clutter SY, Morgan SJ, **Erickson M**, Smith WR, Stahel PF. *Open Orthop J*. 2007 Nov 20;1:9-12.

10**.** Neural Complications in the Surgical Treatment of Adolescent Idiopathic Scoliosis. Diab M, Smith AR, Kuklo TR, **Spinal Deformity Study Group.** *Spine.* 2007 Nov 15;32(24):2759-63.

11. Biomechanical Contribution of Transverse Connectors to Segmental Stability

Following Long Segment Instrumentation with Thoracic Pedicle Screws. Kuklo TR,

Dmeitriev AE, Cardoso MJ, Lehman RA, **Erickson MA**. *Spine.* 2008 Jul 1;33915):E482-7.

12. Variability in Surgical Outcomes for Spinal Fusion Surgery in U.S. Children’s Hospitals. Morrato EH, **Erickson M**, Beaty B, Benton K, Benefield E, Kempe A. *Am J Epidemol*. 2008; 167(Suppl): S40.

13. Evaluation of High Risk Patients Undergoing Spinal Surgery: A Matched Case

Series. Miller, Nancy H., Benefield, E., Hastings, L, Carry, P, Pan, Z, **Erickson, MA**. *J Pediatric Ortho.* 2010 Jul-Aug;30(5): 496-502.

14. Lowest Instrumented Vertebra Selection in Adolescent Idiopathic Scoliosis. **Erickson MA**, Baulesh D*. J Pediatric Orthop*. 2011 Jan-Feb; 31(1 Suppl):S69-76.

15. Use and Outcome of MRI in the Surgical Treatment of Adolescent Idiopathic Scoliosis. Diab M, Landman Z, Lubicky J, Dormans J, **Erickson M**, Richards BS. *Spine.* 2011 Apr 15;36(8):667-71.

16. Pathways that Distinguish Simple from Complex Scoliosis Repair and their

Outcomes. **Erickson, MA**, Baulesh, DM. *Curr Opin Pediatric.* 2011 Jun;23(3);339-45.

17. Correlation of Preoperative Deformity Magnitude and Pulmonary Function Tests in

Adolescent Idiopathic Scoliosis . Johnston C, Richards BS, Sucato DJ, Bridwell K,

Lenke L, **Erickson MA**. *Spine*: 2011 Jun 15;26(14):1096-102.

18. Fixation Points within the Main Thoracic Curve- Does More Instrumentation Produce Greater Correction and Improved Results? Sanders J, Diab M, Richards BS, Lenke L, Sucato D, Emans J, **Erickson M**. *Spine*. 2011 Oct 1;36(21):E1402-6.

19. Correction of Moderate (<70 degree) Lenke 1A and 2A Curve Patterns: Comparison

of Hook, Hybrid and All-Pedicle Screw Systems at 2-Year Follow-up. Luhmann S, Lenke L, **Erickson MA**, Bridwell K, Richards BS. [*J Pediatr Orthop.*](http://www.ncbi.nlm.nih.gov/pubmed/22411330)*:* 2012 Apr-May;

32(3):253-8.

20. A Multidisciplinary Approach Improves Infection Rates in Pediatric Spine Surgery.

Ballard MR, Miller NH, Nyquist AC, Benefield E, Baulesh DH, **Erickson MA**:

*J Pediatric Orthop.* 2012 Apr-May;32(3):266-70.

21. The Role of Serial Casting in Early Onset Scoliosis (EOS). Huh J, Baulesh DM,

Judkins T, Garg S, Miller NH, **Erickson MA***. J Pediatric Orthop.* 2012 Oct-Nov;32(7):658-63.

22. Use and Outcomes of Wound Drain in Spinal Fusion for Adolescent Idiopathic Scoliosis. [Diab M](http://www.ncbi.nlm.nih.gov/pubmed?term=Diab%20M%5BAuthor%5D&cauthor=true&cauthor_uid=22037527), [Smucny M](http://www.ncbi.nlm.nih.gov/pubmed?term=Smucny%20M%5BAuthor%5D&cauthor=true&cauthor_uid=22037527), [Dormans JP](http://www.ncbi.nlm.nih.gov/pubmed?term=Dormans%20JP%5BAuthor%5D&cauthor=true&cauthor_uid=22037527), [**Erickson MA**](http://www.ncbi.nlm.nih.gov/pubmed?term=Erickson%20MA%5BAuthor%5D&cauthor=true&cauthor_uid=22037527), [Ibrahim K](http://www.ncbi.nlm.nih.gov/pubmed?term=Ibrahim%20K%5BAuthor%5D&cauthor=true&cauthor_uid=22037527), [Lenke LG](http://www.ncbi.nlm.nih.gov/pubmed?term=Lenke%20LG%5BAuthor%5D&cauthor=true&cauthor_uid=22037527), [Sucato DJ](http://www.ncbi.nlm.nih.gov/pubmed?term=Sucato%20DJ%5BAuthor%5D&cauthor=true&cauthor_uid=22037527), [Sanders JO](http://www.ncbi.nlm.nih.gov/pubmed?term=Sanders%20JO%5BAuthor%5D&cauthor=true&cauthor_uid=22037527). [*Spine*.](http://www.ncbi.nlm.nih.gov/pubmed/22037527) 2012 May 15;37(11)966-73.

23. The Efficacy of Intra-articular Injections for Pain Control Following

the Closed Reduction and Percutaneous Pinning of Pediatric Supracondylar Humerus

Fractures: A Randomized Controlled Trial. Georgopoulos G, Carry P, Pan Z, Chang F, Heare T, Rhodes J, Hotchkiss M, Miller NH, **Erickson M.**  *J Bone Joint Surg Am.* 2012 Sep 19;94(18): 1633-42.

24. Aseptic Loosening of Pedicle Screw as a Result of Metal Wear Debris in a Pediatric Patient. Botolin S, Merritt C, **Erickson, MA.** *Spine.* 2013 Jan 1;38(1):E38-42.

25. Variability in Spinal Surgery Outcomes among Children's Hospitals in the US.

**Erickson MA**, Morrato EH, Campagna EJ, Benefield E, Miller NH, Kempe A. *J Pediatric Orthop.* 2013 Jan;33(1):80-90.

26. Pediatric Spinal Fusion Surgery and the Transition to Home-Based Care: Provider

Expectations and Caregiver Experiences. Barnard JG, Albright K, Morrato EH, Nowels CT, Benefield EM, Hadley-Miller NA, Kempe A, **Erickson MA.** *Health Soc Care Community***.** Health Soc Care Community. 2013 May 6.

27.Building Consensus: Development of a Best Practice Guideline (BPG) for Surgical Site Infection (SSI) Prevention in High Risk Pediatric Spine Surgery. Vitale MG, Riedel MD, Glotzbecker MP, Matsumoto H, Roye DP, Akbarnia BA, Anderson RC, Brockmeyer DL, Emans JB, **Erickson M**, Flynn JM, Lenke LG, Lewis SJ, Luhmann SJ, McLeod LM, Newton PO, Nyquist AC, Richards BS 3rd, Shah SA, Skaggs DL, Smith JT, Sponseller PD, Sucato DJ, Zeller RD, Saiman L. *J Pediatric Orthop*. 2013 July-Aug;33(5):471-8.

28.What’s the Evidence? Systematic Literature Review of Risk Factors and Preventive

Strategies for Surgical Site Infection following Pediatric Spine Surgery. Glotzbecker MP,Reide MD, Vitale MG, Matsumoto H, Roye DP, **Erickson M**, Flynn JM, Saiman L.

*J Pediatric Orthop.*  2013 Jul-Aug;33(5): 479-87.

29. Selective Thoracic Fusion in Lenke 1C Curves: Prevalence and Criteria. Crawford

CH 3rd, Lenke LG, Sucato DJ, Richards BS 3rd, Emans JB, Vitale MG, **Erickson ME,** Sanders JO. *Spine*. 2013 Jul 15;38 (16): 1380-5.

30. The Safety of Spinal Pedicle Screws in Children Ages 1-12. Mueller T, Miller NH,

Hastings L, Chang F, Georgopoulos G, Benefield E, Pan Z, **Erickson MA**. *Spine* *J*. 2013 Aug; 13(8):894-901.

31. The Use of Barbed Sutures During Scoliosis Fusion Wound Closure: a Quality

Improvement Analysis Mansour A, Ballard MR, Garg S, Baulesh D, **Erickson ME**.

*J Pediatric Orthop:* 2013 Dec;33(8):786-90.

32. Are More Screws Better? A Systematic review of Anchor Density and Curve

Correction in Adolescent Idiopathic Scoliosis. Larson, AN; Aubin, CE; Polly, DW;Ledonio, CGT; Lonner, BS; Shaw, SA; Richards, BS; **Erickson, MA**; Emans, JB; Weinstein, SL. *Spine Deformity*: Volume 1, Issue 4, July 2013, Pages 237–247.

33. How Much is Too Much? Higher Degrees of Curve Correction Correlated with Worsened Sagittal Balance. Matsumoto H, Emans J, Sucato D, Lenke L, Richards BS. **Erickson, MA**. *Spine.* 2013.

34. Do Intraoperative LIV-Tilt and Disc Angle Remain Stable at 2 Year Follow-up Compared to Upright Radiographs in Patients with Idiopathic Scoliosis:  A Retrospective Cohort Study.  Barsi, J., Caprio, B., Garg, S., Baulesh, D., **Erickson, M**.  Journal of Spinal Disorders and Techniques.  2014 Mar 24. 2015;28(7):264-269.

35. Bacteriology and Risk Factors for Development of Late (Greater than One Year) Deep Infection Following Spinal Fusion with Instrumentation. LaGreca J, Hotchkiss M**,** Garg S, Messacar K, Nyquist C, Carry P, **Erickson M.** *Spine Deformity*. 2014. May 2(3): 186-190.

36. [Predicting Failure of Iliac Fixation in Neuromuscular Spine Deformity.](http://www.spine-deformity.org/article/S2212-134X(14)00005-7/abstract?elsca1=etoc&elsca2=email&elsca3=2212-134X_201405_2_3&elsca4=elsevier)  Sumeet Garg, Courtney Holland, Jaren LaGreca, Bryan McNair, **Mark Erickson.** *Spine Deformity* 2014. May 2(3): 214-218

37. Management of Delayed (Greater than One Year) Deep Infection after Spinal Fusion: A retrospective cohort study. LaGreca J, Hotchkiss M, Garg S, **Erickson M**. *J Pediatric Orthop.* 2015;35(3):266-270.

38. [Best Practices in Intraoperative Neuromonitoring in Spine Deformity Surgery: Development of an Intraoperative Checklist to Optimize Response](http://www.spine-deformity.org/article/S2212-134X(14)00076-8/abstract?elsca1=etoc&elsca2=email&elsca3=2212-134X_201409_2_5&elsca4=elsevier) . Vitale, MG, Skaggs DL, Pace GI, Wright ML, Matsumoto H, Anderson R, Brockmeyer DL, Dormans, JP, Emans JB, **Erickson MA**, Flynn JM, Glotzbecker MP, Ibrahim KN, Lewis SJ, Luhmann SJ, Mendiratta A, Richard BS, Sanders JO, Shah SA, Smith, JT, Song KM, Sponseller PD, Sucato DJ, Roye DP, Lenke LG. *Spine Deformity*. 2014 September; 2(3): 333-339.

39. [Risk Factors for Coronal Decompensation After Posterior Spinal Instrumentation and Fusion in Adolescent Idiopathic Scoliosis. Gomez JA, Matsumoto H,](http://www.spine-deformity.org/article/S2212-134X(14)00074-4/abstract?elsca1=etoc&elsca2=email&elsca3=2212-134X_201409_2_5&elsca4=elsevier) Colacchio ND, Roye DP, Sucato DJ, Richards BS, Emans JB, **Erickson MA**, Sanders JO, Lenke LG, Vitale MG. *Spine Deformity*. 2014 September; 2(3): 380-385.

40. Variation in 60 day Readmission for Surgical Site Infections (SSIs) and Reoperation Following Spinal Fusion Operations for Neuromuscular Scoliosis. McLeod L, Dormans J, Flynn J, **Erickson M**, Miller N, Keren R. *Journal of Pediatric Orthopaedics*. Sept 2016, 36(6): 634-39.

41. Crosslinks Do Not Improve Clinical or Radiograhic Outcomes of Posterior Spinal Fusion with Pedicle Screws in Adolescent Idiopathic Scoliosis: A Multicenter Cohort Study. Garg S, **Erickson M**. *Spine Deformity.* 2015;3(4):338-344.

42. Do Intraoperative LIV-Tilt and Disc Angle Remain Stable at 2 Year Follow-up Compared to Upright Radiographs in Patients with Idiopathic Scoliosis:  A Retrospective Cohort Study.  Barsi, J., Caprio, B., Garg, S., Baulesh, D., **Erickson, M**.  Journal of Spinal Disorders and Techniques. 2015 August Vol 28 (7): 264-269

43. Are Routine Postoperative Radiographs Necessary During the First Year After Posterior Spinal Fusion for Idiopathic Scoliosis? A Retrospective Cohort Analysis of Implant Failure and Surgery Revision Rates. Garg S, Kipper E, LaGreca J, Carry P, **Erickson M**. *J Pediatric Orthop.* 2016 Jan;35(1):33-8.

44. Surgical Consent of Children and Guardians for the Treatment of Adolescent Idiopathic Scoliosis is Incompletely Informed. Theologis, A A, Anaya, A, Sabatini C, Sucato D, Parent S, **Erickson M,** Diab M. *Spine,* Vol 41 (1): 53-61.

45. Management of Scoliosis in Children with Osteogenesis Imperfecta. O’Donnell C, Bloch N, Michael N **Erickson M**, Garg S. *Journal of Bone and Joint Surgery Reviews*, 2017;5(7):e8.

46. Strategies to Minimize Blood Loss and Transfusion in Pediatric Spine Surgery. O’Donnell C, Michael N, Bloch N, **Erickson M**, Garg S. *Journal of Bone and Joint Surgery Reviews*, 2017;5(5):e1.

47. Spine and Thoracic Height Measurements have Excellent Inter-rater and Intra-rater Reliability in Patients with Early Onset Scoliosis. Michael N, Carry P, **Erickson M**, Bloch N, Gibbons S, O’Donnell C, Garg S. *Spine*, 2017:43(4):270-274.

48. Compliance with a Comprehensive Antibiotic Protocol Improves Infection Incidence in Pediatric Spine Surgery. Vandenberg C, Niswander C, Carry P, Pan Z, **Erickson M**, Garg S. *J Pediatric Orthop.* 2018:38(5):287-292.

49. Anterior Spinal Fusion and Posterior Spinal Fusion Both Effectively Treat Lenke Type 5 Curves in Adolescent Idiopathic Scoliosis: A Multicenter Study. O’Donnell C, Michael N, Pan X, Emans J, Garg S, **Erickson M**. *Spine Deformity*, 2018:6(3):231-240.

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44. Loss of Motor Evoked Potentials after Intrathecal Morphine Injection During Posterior Spinal Fusion. Merrit G, Galinkin J, Zuk J, **Erickson MA**. *American Society of Regional Anesthesia and Pain Medicine Annual Meeting.* 2010. **Poster**

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51. The Role of Serial Casting in Early Onset Scoliosis. Huh J, Baulesh DM, Judkins T, Garg S, Miller NH, **Erickson MA**. *Pediatric Orthopaedic Society of North America Annual Meeting.* 2011. **Podium**

52. Frontal or Sagittal Spinal Imbalance Does Not Affect Quality of Life Two Years after Posterior Spinal Instrumentation and Fusion for Adolescent Idiopathic Scoliosis. Vitale MG, Mackenzie WGS, Matsumoto H, Colacchio ND, Sucato DJ, Richards BS, **Erickson MA**, Sanders JO, Lenke LG, Roye DP, Williams BA. *International Meeting on Advanced Spine Techniques 18th Annual Meeting.* 2011. **Podium**

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61. Characteristics of Patients with Adolescent Idiopathic Scoliosis Who Experience Coronal Decompensation Following Posterior Spinal Instrumentation and Fusion. Gomez JA, Matsumoto H, Colacchio ND, Miller DJ, Roye DP, Sucato DJ, Richard BS, Emans JB, **Erickson MA**, Sanders JO, Lenke LG, Vitale MG. *Scoliosis Research Society Annual Meeting.* 2011. **Podium.**

62. Bacteriology and Risk Factors for Development of Late (Greater than One Year) Deep Infection Following Spinal Fusion with Instrumentation. LaGreca J, Hotchkiss M**,** Garg S, Messacar K, Nyquist C, Carry P, **Erickson M**. *Pediatric Orthopedic Society of North America Annual Meeting.* 2012. **Podium.**

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65. What's the Evidence? - Systematic Literature Review of Risk Factors and Preventive Strategies for Surgical Site Infections Following Pediatric Spine Surgery. Glotzbecker MP, Riedel MD, Vitale MG, Matsumoto H, Roye DP, **Erickson MA**, Flynn JM., Saiman L. *International Meeting on Advance Spine Techniques.* 2012. **Poster**

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76. The Use of Barbed Sutures During Scoliosis Fusion Wound Closure: a Quality Improvement Analysis. Mansour A, Garg S, **Erickson M.** *Pediatric Orthopaedic Society of North America.* 2013. **Poster**

77. Building Consensus: Development of a Best Practice Guideline (BPG) for Surgical Site Infection (SSI) Prevention in High Risk Pediatric Spine Surgery . Vitale MG, Riedel MD, Glotzbecker M, Matsumoto H, Roye DP, Azbarnia B, Anderson RC, Brockmeyer DL, Emans JS, **Erickson MA**, Flynn JM, Lenke LG, Lewis SJ, Luhmann SJ, McLeon L, Newton PO, Nyquist AN, Richards BS, Shah SA, Skaggs DL, Smith JT, Sponseller PD, Sucato DJ, Zeller RD, Saiman L*. Pediatric Orthopaedic Society of North America Annual Meeting.* 2013. **Podium**

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79. Predicting Failure of Iliac Fixation in Neuromuscular Spine Deformity. Garg S, Holland C, Carry P, LaGreca J, **Erickson M.** *Pediatric Orthopaedic Society of North America Annual Meeting.* 2013. **Podium**

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82. Are Routine Post-Operative Radiographs Required During the First Year Following Surgery for Idiopathic Scoliosis? Garg S, LaGreca J, **Erickson M**. *Scoliosis Research Society Annual Meeting.* 2013. *Poster*

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85. Impact of Spinal Fusion for Scoliosis Correction on Gait. Carollo JJ, Robertson D, Nicklas TS, **Erickson MA**. *The American Congress of Rehabilitation Medicine.* 2013. **Poster**

86. Spinal Fusion Impacts Range of Motion and Walking Ability in Adolescents with Scoliosis. Carollo JJ, Robertson DM, Nicklas TS, **Erickson MA**. *American Congress of Rehabilitation Medicine Annual Conference.*2013. **Poster.**

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91. Do Crosslinks Improve Clinical or Radiographic Outcomes of Posterior Spinal Fusion with Pedicle Screws in Adolescent Idiopathic Scoliosis? A Multi-center Cohort Study. Garg S, Niswander C, Pan Z, **Erickson M.** *Pediatric Orthopaedic Society of North America Annual Meeting*. 2014. **Podium.**

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93. Is it the Vertebral Column Resection Procedure or the Nature of the Severe Pediatric Deformity that Creates a High Neurologic Complication Risk? Lenke L, Boachie-Adjei O, Sucato D, Samdoni A, Shufflebarger H, Cahill P, Garg S, **Erickson M**, Kelly M, Sides B. *Scoliosis Research Society Annual Meeting*. 2014. **Podium.**

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96. Creation of a Consensus-Based Checklist for the Response to Intraoperative Neuromonitoring Changes in Spine Deformity Surgery. Vitale M, Pace G, Wright M, Hiroko M, **Erickson M**, Flynn J, Glotzbecker M, Ibrahim K, Lewis S, Luhmann S, Richards S, Sanders J, Shah S, Skaggs D, Smith J, Song K, Sponseller P, Sucato D, Roye D, Lenke L. *Scoliosis Research Society Annual Meeting*. 2014. **Poster.**

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98. Antibiotic Compliance Decreases Infection Rates in Pediatric Spine Surgery: A Retrospective Case-Control Study. VandenBurg C, **Erickson M**, Garg S, Niswander C, Carry P, Pan Z. *American Academy of Orthopaedic Surgeons Annual Meeting.* 2015. **Podium.**

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101. Variability of Patient Standing Position in Operative Adolescent Idiopathic Scoliosis: A Motion Capture Analysis. Garg S, Niswander C, Robertson D, Carollo J, **Erickson M**. *American Academy of Orthopaedic Surgeons Annual Meeting.* 2015. **Poster.**

102. Antibiotic Compliance Decreases Infection Rate in Pediatric Spine Surgery: A Retrospective Cohort Study. Vandenberg C, Niswander C, Carry P, Pan Z, **Erickson M**, Garg S. *Pediatric Orthopaedic Society of North America Annual Meeting.* 2015. **Podium.**

103. Delay to Surgery Greater Than 6 Months Leads to Significant Deformity Progression in Risser 0, Pre-Menarchal Adolescent Idiopathic Scoliosis (AIS) Patients: A Retrospective Cohort Study. Ramo B, Tran D, Garg S, **Erickson M**, Reddy A, Niswander C, Brown K. *Pediatric Orthopaedic Society of North America Annual Meeting.* 2015. **Podium.**

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106. Delay to Surgery and Deformity Progression Leads to Increased Levels of Fusion in Risser 0, Premenarchal Adolescent Idiopathic Scoliosis (AIS) Patients: A Retrospective Cohort Study. Ramo B, Tran DP, Garg S, **Erickson MA**, Reddy A, Brown K. *Pediatric Orthopaedic Society of North America Annual Meeting.* 2016 **Podium.**

107. Gabapentin Decreases Time to Meeting Physical Therapy Goals in Patients with Idiopathic Scoliosis Undergoing Posterior Spinal Fusion. Thomas J, Garg S, **Erickson M**, Michael N, Bloch N, Cohen M. *International Meeting on Advanced Spine Technique.* 2016 **Podium**

108. Rib Based Distraction 76% Successful Managing Spinal Muscular Atrophy (SMA) Scoliosis: A Prospective Study. Garg S, Flynn J, Michael N, St. Hilaire T, Palmer C, Bloch N, Vitale M, Strum P, **Erickson M,** Study Group CS. *International Congress on Early Onset Scoliosis*. 2016 **ePoster**

109. Complication Classification for Growing Spine Surgery has Strong Observer Agreement. Michael N, Smith J, St. Hilaire T, Palmer C, Cyr M, Morgan J, Heagy V, Bloch N, **Erickson MA**, Study Group CS, Garg S. *International Congress on Early Onset Scoliosis*. 2016 **ePoster**

110. Closed-suction Drains Do Not Reduce Wound Complications after Posterior Spine Fusion. O’Donnell C, Bloch N, Neustein T, Palmer C, Michael N, Fletcher N, **Erickson M**, Garg S. *American Academy of Orthopaedic Surgeons Annual Meeting*. 2017 **Poster**

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112. Topical Vancomycin in Pediatric Spine Surgery Does Not Reduce Surgical Site Infection: A Retrospective Cohort Study. Garg S, Bloch N, Potter M, Palmer C, Michael N, O’Donnell C, **Erickson MA**. *Safety in Spine Surgery Summit*. 2017 **ePoster**

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115. Rate of Instrumentation and Fusion-related Complications after Surgical Treatment for Severe Pediatric Spinal Deformity within 2 years: A Prospective Multi-center Cohort Study. Gupta M, Lenke L, Asghar J, Boachie-Adjei O, Cahill P, **Erickson M**, Garg S, Newton P, Samdani A, Shah S, Sufflebarger H, Sides B, Sponseller P, Sucato D, Kelly M. *International Meeting on Advanced Spine Techniques*. 2017 **Podium**

116. High Rate of Intraoperative Monitoring (IOM) Alerts in 176 Severe Pediatric Deformity Patients and its Relationship to the Deformity Angularity Ratio (DAR). Gupta M, Lenke L, Asghar J, Boachie-Adjei O, Cahill P, **Erickson M**, Garg S, Newton P, Samdani A, Shah S, Shufflebarger H, Sides B, Sponseller P, Sucato D, Kelly M. *Scoliosis Research Society Annual Meeting*. 2017 **ePoster**

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118. Pre-operative Halo-Gravity Traction: Can it Replace a Vertebral Column Resection? Blumberg T, Nelson S, Garg S, **Erickson M**, Samdani A, Yaszay B, Gupta M, Lenke L, Cahill P. *Scoliosis Research Society Annual Meeting*. 2017 **ePoster**

119. Spine and Thoracic Length Measurements have Excellent Reliability in Patients with Early Onset Scoliosis. Michael N, Carry P, **Erickson M**, Bloch N, Gibbon S, O’Donnell C, Garg S. Scoliosis Research Society Annual Meeting. *Scoliosis Research Society Annual Meeting*. 2017 **ePoster**

120. Planned staged surgery for severe pediatric spinal deformity does not reduce complications within 90 days of surgery: A prospective matched cohort study. Garg S, Bloch N, Carry P, **Erickson M**, Cahill P, Samdani A, Yaszay B, Lenke L, Sides B, Gupta M. *Scoliosis Research Society Annual Meeting*. 2017 **ePoster**

121. Topical Vancomycin in Pediatric Spine Surgery Does Not Reduce Surgical Site Infection: A Retrospective Cohort Study. Garg S, Bloch N, Potter M, Palmer C, Michael N, O’Donnell C, **Erickson MA**. *Scoliosis Research Society Annual Meeting*. 2017 **Podium**

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123. Rate of Instrumentation and Fusion-Related Complications within 2 Years after Surgical Treatment for Severe Pediatric Spinal Deformity: A Prospective Multi-Center Cohort Study. Gupta M, Lenke L, Boachie-Adjei O, **Erickson M**, Sponseller P, Sides B, Yanik E, Kelly M, Cahill P, Asghar J, Newton P, Samdani A, Shah S, Shufflebarger H, Sucato D, Sturm P, Garg S, Jain V, Skaggs D, Yaszay B, Kim HJ, Pahys J, McCarthy R, Bumpass D, Polly Jr D, Emans J, Lonner B. *American Academy of Orthopaedic Surgeons Annual Meeting* 2018 **Podium**

124. Planned Staged Surgery for Severe Pediatric Spinal Deformity Does Not Reduce Complications Within 90 Days of Surgery: A Prospective Matched Cohort Study. Garg S, Bloch N, Carry P, **Erickson M**, Cahill P, Samdani A, Yaszay B, Lenke L, Sides B, Gupta M. *Pediatric Orthopaedic Society of North America*. 2018 **ePoster**

125. Rate of Instrumentation and Fusion-related Complications after Surgical Treatment for Severe Pediatric Spinal Deformity within 2years: A Prospective Multi-center Cohort Study. Gupta M, Lenke L, Asghar J, Boachie-Adjei O, Cahill P, Erickson M, Garg S, Newton P, Samdani A, Shah S, Sufflebarger H, Sides B, Sponseller P, Sucato D, Kelly M., International Meeting on Advanced Spine Techniques, 2017. Cape Town, South Africa. **Podium**

126. Proximal Rib-Based Constructs in Early Onset Scoliosis: Survivorship at or near

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127. Does the Presence of an Intraspinal Anomaly Increase Neurologic Complications and Lessen the Correction Rate in Severe Pediatric Spinal Deformity? Samdani A, Lenke L, Sponseller P, Lonner B, Gupta M, Garg S, Park J, Boachie-Adjei O, Pahys J, Hwang, Children’s Spine Study Group. International Meeting on Advanced Spine Techniques. July 14, 2017. Cape Town, South Africa. **Podium**

128. Planned staged surgery for severe pediatric spinal deformity does not reduce complications within 90 days of surgery: A prospective matched cohort study. Garg S, Bloch N, Carry P, Erickson M, Cahill P, Samdani A, Yaszay B, Lenke L, Sides B, Gupta M. Scoliosis Research Society Annual Meeting. September 6, 2017. Philadelphia, Pennsylvania. **E-Poster**

129. Spine and Thoracic Length Measurements have Excellent Reliability in Patients with Early Onset Scoliosis. Michael N, Carry PM, Erickson M, Bloch N, Gibbons S, O'Donnell C, Garg S. Scoliosis Research Society Annual Meeting. September 6, 2017. Philadelphia, Pennsylvania. **E-Poster**

130. High Rate of Intraoperative Monitoring (IOM) Alerts in 176 Severe Pediatric Deformity Patients and its Relationship to the Deformity Angularity Ratio (DAR). Gupta M, Lenke L, Asghar J, Boachie-Adjei O, Cahill P, Erickson M, Garg S, Newton P, Samdani A, Shah S, Shufflebarger H, Sides B, Sponseller P, Sucato D, Kelly. Scoliosis Research Society Annual Meeting. September 9, 2017.Philadelphia, Pennsylvania.

**E-Poster**

131. Perioperative Complications after Vertebral Column Resection (VCR) for Severe Pediatric Spinal Deformity. Lenke L, Gupta M, Sides B, Sponseller P, Sucato D, Shah S, Samdani A, Yaszay B, Garg S, Erickson M, Boachie-Adjei O, Kelly M. Scoliosis Research Society. September 9, 2017. Philadelphia, Pennsylvania. **Podium**

132. Pre-operative Halo-Gravity Traction: Can it Replace a Vertebral Column Resection? Blumberg T, Nelson S, Garg S, Erickson M, Samdani A, Yaszay B, Gupta M, Lenke L, Cahill P. Scoliosis Research Society Annual Meeting. September 9, 2017. Philadelphia, Pennsylvania. **E-Poster**

133. Who Gets Staged Surgery in Severe Pediatric Spinal Deformity? Blumberg T, Nelson S, Garg S, Erickson M, Samdani A, Yaszay B, Gupta M, Lenke L, Cahill P. Scoliosis Research Society Annual Meeting. September 9, 2017. Philadelphia, Pennsylvania. **E-Poster**

134. All that Glitters is Not Gold - Serial Casting for EOS Negatively Affects

Health-Related Quality of Life even after Discontinuation of Serial Casting: A 2 Year Follow-up. Matsumoto H, Auran E, Chun Wai H, Sturm P, Garg S, Sanders J, Oetgen M, Roye D, Vitale M, Study Group CS, Study Group GS. Scoliosis Research Society Annual Meeting. September 9, 2017. Philadelphia, Pennsylvania. **Podium**

135. Proximal Rib-Based Constructs in Early Onset Scoliosis: Survivorship at or

near Skeletal Maturity. Kondratyeva A, Feinberg N, Bloom Z, Chun Wai H, Matsumoto J, Smith J, Payhs J, Garg S, Roye D, Vitale M, Study Group CS. Scoliosis Research Society Annual Meeting. September 9, 2017. Philadelphia, Pennsylvania. **E-Poster**

136. Topical Vancomycin in Pediatric Spine Surgery Does Not Reduce Surgical Site Infection: A Retrospective Cohort Study. Garg S, Bloch N, Potter M, Palmer C, Michael N, O'Donnel C, Erickson M. Scoliosis Research Society Annual Meeting. September 9, 2017. Philadelphia, Pennsylvania. **Podium**

137. Does Establishing a Faculty-Funded Research Center Improve Research Productivity? Baschal RM, Carry PM, Baschal EE, Erickson MA, Carollo JJ, Miller NH. Society of Clinical Research Associates Annual Meeting. October 6, 2017. Orlando, FL. **Poster**

138. High Rate of Intraoperative Monitoring (IOM) Alerts in 176 Severe Pediatric Deformity Patients and its Relationship to the Deformity Angularity Ratio (DAR). Gupta M, Lenke L, Asghar J, Boachie-Adjei O, Cahill P, Erickson M, Garg S, Newton P, Samdani A, Shah S, Shufflebarger H, Sides B, Sponseller P, Sucato D, Kelly M. North American Spine Society. October 25, 2017. Orlando, FL. **Podium**

139. Planned Staged Surgery for Severe Pediatric Spinal Deformity does not Reduce Complications within 90 Days of Surgery: A Prospective Matched Cohort Study. Garg S, Bloch N, Carry P, Erickson M, Cahill P, Samdani A, Yaszay B, Lenke L, Sides B, Gupta M. Pediatric Orthopaedic Society of North America. May 9, 2018. Austin, TX. **E-Poster**

140. New Neurologic Deficit and Recovery Rates in Treatment of Complex Pediatric Spine Deformities Exceeding 100 Degrees or Treated by 3CO. Oheneba Boachie-Adjei, MD; Henry Ofori Duah, RN, MPH; Kwadwo Poku Yankey, MD; Lawrence G. Lenke, MD; Paul D. Sponseller, MD, MBA; Daniel J. Sucato, MD, MS; Amer F. Samdani, MD; Peter O. Newton, MD; Suken A. Shah, MD; Mark A. Erickson, MD; Harry Akoto, MD, MB ChB; Brenda A. Sides, MS; Munish C. Gupta, MD; Fox Pediatric Spinal Deformity Study. Scoliosis Research Society, September 2019. Montreal, CA. **Podium**

141. Current Use in Growth-Friendly Implants for Early Onset Scoliosis: A Ten-Year Update. Walter Klyce, BA; Stuart L. Mitchell, MD; Jeff Pawelek, BS; David L. Skaggs, MD, MMM; James O. Sanders, MD; Suken A. Shah, MD; Richard E. McCarthy, MD; Scott John Luhmann, MD; Peter F. Sturm MD, MBA; John (Jack) M. Flynn MD; John T. Smith, MD; Michael G. Vitale, MD, MPH; Behrooz A. Akbarnia, MD; Paul D. Sponseller, MD, MBA; Children's Spine Study Group; Growing Spine Study Group. Scoliosis Research Society, September 2019. Montreal, CA. **Podium**

142. Magnetically-Controlled Growing Rod Patients Have Similar HRQOL Scores Compared to Traditional Growing Rod Patients After Two Years of Treatment  
David L. Skaggs, MD, MMM; Behrooz A. Akbarnia, MD; Jeff Pawelek, BS; Hiroko Matsumoto, PhDc; Tricia St. Hilaire, MPH; Peter F. Sturm, MD, MBA; Francisco Javier Sanchez Perez-Grueso, MD; Scott John Luhmann, MD; Paul D. Sponseller, MD, MBA; John T. Smith, MD; Klane K. White, MD, MS; Michael G. Vitale, MD, MPH; Children's Spine Study Group; Growing Spine Study Group. Scoliosis Research Society, September 2019. Montreal, CA. **Podium**

143. Prospective Randomized Controlled Trial of Implant Density in AIS: Results of the Minimize Implants Maximize Outcomes Study. A. Noelle Larson, MD; David W. Polly Jr., MD; Paul D. Sponseller, MD, MBA; B. Stephens Richards, MD; Sumeet Garg, MD; Hubert Labelle, MD, FRCS(C); Stuart L. Weinstein, MD; Suken A. Shah, MD; Charles H. Crawford III, MD; Matthew E. Oetgen, MD; James O. Sanders, MD; Nicholas D. Fletcher, MD; Laurel C. Blakemore, MD; Ann M. Brearley, PhD; Mark A. Erickson, MD; Stefan Parent, MD, PhD; Carl-Eric Aubin, PhD, ScD(h.c.), P.Eng; Daniel J. Sucato, MD, MS; Minimize Implants Maximize Outcomes Study Group.Scoliosis Research Society, September 2019. Montreal, CA. **Podium**

144. Effects of Post-operative Complications in Complex Pediatric Spine Deformity on SRS Scores: Does Complication Adversely Affect Quality of Life of Patients?  
Oheneba Boachie-Adjei, MD; Kwadwo Poku Yankey, MD; Henry Ofori Duah, RN, MPH; Lawrence G. Lenke, MD; Paul D. Sponseller, MD, MBA; Daniel J. Sucato, MD, MS; Amer F. Samdani, MD; Peter O. Newton, MD; Suken A. Shah, MD; Mark A. Erickson, MD; Harry Akoto, MD, MB ChB; Brenda A. Sides, MS; Munish C. Gupta, MD; Fox Pediatric Spinal Deformity Study.Scoliosis Research Society, September 2019. Montreal, CA. **Podium**

145. Does Thoracoplasty adversely Affect Long Term Lung Function in Complex Pediatric Spine Deformity? Oheneba Boachie-Adjei, MD; Arthur Sackeyfio, MD; Henry Ofori Duah, RN, MPH; Lawrence G. Lenke, MD; Paul D. Sponseller, MD, MBA; Daniel J. Sucato, MD, MS; Amer F. Samdani, MD; Peter O. Newton, MD; Suken A. Shah, MD; Mark A. Erickson, MD; Irene Wulff, MD; Brenda A. Sides, MS; Munish C. Gupta, MD; Fox Pediatric Spinal Deformity Study. Scoliosis Research Society, September 2019. Montreal, CA. **Podium**

146. Effect of I-beam Rod on Axial De-rotation of the Apical Vertebra in Posterior Spinal Fusion. **Garg S**., Quick H., **Erickson M**., Center for Children’s Surgery Research Symposium, March 1, 2019. Aurora, CO. **Podium**.

147. Use of Ultrasonic Bone Scalpel in Adolescent Idiopathic Scoliosis: Randomized Clinical Trial. Quick H., **Garg S**., Thomas J., **Erickson M**., Carry P., Center for Children’s Surgery Research Symposium, March 1, 2019. Aurora, CO. **Podium.**

### 148. Surgical Fixation of Ipsilateral Lateral Condylar Mass and Olecranon Fractures. Nicole E. Look,Sarah E. Sibbel, Mark A. Erickson. WOA 83rd Annual Meeting. July 2019. Monterey, CA. Podium.

149. Use of Ultrasonic Bone Scalpel in Adolescent Idiopathic Scoliosis: Randomized Clinical Trial. Quick H., **Garg S**., Thomas J., **Erickson M**., Carry P., POSNA 2020. **Podium.**

150. Prospective Randomized Controlled Trial of Implant Density in AIS: Results of the Minimize Implants Maximize Outcomes Study. A. Noelle Larson, MD; David W. Polly Jr., MD; Paul D. Sponseller, MD, MBA; B. Stephens Richards, MD; Sumeet Garg, MD; Hubert Labelle, MD, FRCS(C); Stuart L. Weinstein, MD; Suken A. Shah, MD; Charles H. Crawford III, MD; Matthew E. Oetgen, MD; James O. Sanders, MD; Nicholas D. Fletcher, MD; Laurel C. Blakemore, MD; Ann M. Brearley, PhD; Mark A. Erickson, MD; Stefan Parent, MD, PhD; Carl-Eric Aubin, PhD, ScD(h.c.), P.Eng; Daniel J. Sucato, MD, MS; Minimize Implants Maximize Outcomes Study Group.POSNA 2020 **Podium**

151. Intraoperative and Early Postoperative Complications after Surgery for Severe Pediatric Spinal Deformity Have a High Rate of Resolution at 2 Years but Affect Outcome Scores. Oheneba Boachie-Adjei, MD; Arthur Sackeyfio, MD; Henry Ofori Duah, RN, MPH; Lawrence G. Lenke, MD; Paul D. Sponseller, MD, MBA; Daniel J. Sucato, MD, MS; Amer F. Samdani, MD; Peter O. Newton, MD; Suken A. Shah, MD; Mark A. Erickson, MD; Irene Wulff, MD; Brenda A. Sides, MS; Munish C. Gupta, MD; Fox Pediatric Spinal Deformity Study. Euro Spine, Vienna, 2019

152. Surgical Treatment of Severe Pediatric Spinal Deformity Significantly Improves Pulmonary Function . Oheneba Boachie-Adjei, MD; Arthur Sackeyfio, MD; Henry Ofori Duah, RN, MPH; Lawrence G. Lenke, MD; Paul D. Sponseller, MD, MBA; Daniel J. Sucato, MD, MS; Amer F. Samdani, MD; Peter O. Newton, MD; Suken A. Shah, MD; Mark A. Erickson, MD; Irene Wulff, MD; Brenda A. Sides, MS; Munish C. Gupta, MD; Fox Pediatric Spinal Deformity Study. Euro Spine, Vienna, 2019

153. Surgery for Severe Pediatric Spinal Deformity Results in Improved Spinal Appearance Questionnaire Scores at 2 Years. Oheneba Boachie-Adjei, MD; Arthur Sackeyfio, MD; Henry Ofori Duah, RN, MPH; Lawrence G. Lenke, MD; Paul D. Sponseller, MD, MBA; Daniel J. Sucato, MD, MS; Amer F. Samdani, MD; Peter O. Newton, MD; Suken A. Shah, MD; Mark A. Erickson, MD; Irene Wulff, MD; Brenda A. Sides, MS; Munish C. Gupta, MD; Fox Pediatric Spinal Deformity Study. Euro Spine, Vienna, 2019

154. **F\_a\_u\_s\_e\_r\_ \_T\_**, **P\_o\_w\_e\_l\_l\_ \_J\_**, Baldini T, Burnim K, Skelton AM, **E\_r\_i\_c\_k\_s\_o\_n\_ \_M\_**, **M\_a\_y\_e\_r\_ \_S\_**, **O\_’D\_o\_n\_n\_e\_l\_l\_ \_C\_M\_**. Utilization of a transverse screw construct in periacetabular osteotomy: does this impact initial fragment stability and version control? International Society of Hip Arthroscopy Annual Conference, Madrid, Spain. October 17-19, 2019. ePoster Presentation.

155. "Uncorrected Pelvic Obliquity is Associated with Lower Health Related Quality of Life in Ambulatory but not in Non-Ambulatory Patients After Surgical Treatment in Patients with Early Onset Scoliosis" has been selected as an ePoster at the 2020 POSNA Annual Meeting, May 13 - 16, 2020 in San Diego, California.

156. “Preoperative Halo-Gravity Traction for Severe Pediatric Spinal Deformity: Can it Replace a Vertebral Column Resection?” was **accepted** for **Podium Presentation** at the 2020 POSNA Meeting. Oheneba Boachie-Adjei, MD; Arthur Sackeyfio, MD; Henry Ofori Duah, RN, MPH; Lawrence G. Lenke, MD; Paul D. Sponseller, MD, MBA; Daniel J. Sucato, MD, MS; Amer F. Samdani, MD; Peter O. Newton, MD; Suken A. Shah, MD; Mark A. Erickson, MD; Irene Wulff, MD; Brenda A. Sides, MS; Munish C. Gupta, MD; Fox Pediatric Spinal Deformity Study

157. Gupta MC, Lenke LG, Boachie-Adjei O, Bumpass DB, **Garg S,** Sponseller PD, Shah SA, Erickson MA, Sucato DJ, Sandani A, Yaszay B, Pahys JM, Newton PO, Sides BA, Kelly MP, Fox Pediatric Spinal Deformity Study Group. Vertebral Column Resection Improves the Sagittal Plane Greater than Other Techniques but Risks Symptomatic Junctional Kyphosis. Scoliosis Research Society. Montreal, CANADA September 18-21, 2019

**Podium**

158. Gupta MC, Lenke LG, Boachie-Adjei O, Bumpass D, McCarthy R, Erickson MA, **Garg S**, Newton PO, Yaszay B, Pahys JM, Shufflebarger HL, Samdani A, Sponseller PD, Sucato DJ, Shah SA, Sides BA, Kelly MP, Fox Pediatric Spinal Deformity Study Group. Surgery for Severe Pediatric Spinal Deformity has a Significant Rate of Revision: A Prospective Multicenter Cohort Study. Scoliosis Research Society. Montreal, CANADA September 18-21, 2019

**Podium**

159. Matsumoto H, Ball J, Roye BD, **Garg S**, Erickson M, Samdani A, Skaggs D, Roye DP, Vitale MG, Pediatric Spine Study Group. Uncorrected pelvic obliquity is associated with lower health related quality of life in ambulatory but not in non-ambulatory patients after surgical treatment in patients with early onset scoliosis. Internal Congress on Early Onset Scoliosis. Atlanta, GA November 21-22, 2019.

**ePoster**

160. **Garg S,** Larson AN, Polly D, Sponseller P, Richards B, Labelle H, Weinstein S, Shah S, Crawford C, Oetgen M, Sanders J, Fletcher N, Kelly M, Blakemore L, Erickson M, Brearley A, Aubin C, Parent S, Sucato D. Minimize implants maximize outcomes study group. Prospective Randomized Controlled Trial of Implant Density in Adolescent Idiopathic Scoliosis: Results of the Minimize Implants Maximize Outcomes Trial. American Academy of Orthopedic Surgeons. Orlando, FL March 24-28, 2020.

**Poster**

**161. Garg S**, Thomas J, Quick H, Carry P, Kim E, Erickson M. Ultrasonic bone scalpel (USBS) does not reduce blood loss in adolescent idiopathic scoliosis (AIS): Randomized clinical trial. American Academy of Orthopedic Surgeons. Orlando, FL March 24-28, 2020.

**Poster**

162. Gupta M, Lenke L, Boachie-Adjei O, Bumpass D, Cahill P, Emans J, Erickson M, **Garg S,** McCarthy R, Newton P, Pahys J, Samdani A, Shah S, Shufflebarger H, Sponseller P, Sucato D, Yaszay B, Sides B, Kelly M. Surgery for severe pediatric spinal deformity has a significant rate of revision: A prospective multicenter cohort study. American Academy of Orthopedic Surgeons. Orlando, FL March 24-28, 2020.

**Podium**

163. LaValva P, Pahys J, **Garg S**, Bumpass D, Sucato D, Samdani A, Emans J, Erickson M, Kelly M, Lenke M, Gupta M, Boachie-Adjei O, Sponseller P, Newton P, McCarthy R, Shah S, Shufflebarger H, Yaszay B, Cahill P. Preoperative halo gravity traction for severe pediatric spinal deformity: Can it replace a vertebral column resection? Pediatric Orthopaedic Society of North America. San Diego, CA May 13-16, 2020.

**Podium**

**164. Garg S**, Thomas J, Quick H, Carry P, Kim E, Erickson M. Ultrasonic bone scalpel (USBS) does not reduce blood loss in adolescent idiopathic scoliosis (AIS): Randomized clinical trial. Pediatric Orthopaedic Society of North America. San Diego, CA May 13-16, 2020.

**Podium**

165. Larson AN, Polly D, Sponseller P, Richards B, **Garg S**, Labella H, Weinstein S, Shah S, Crawford C, Oetgen M, Sanders J, Fletcher N, Blakemore L, Kelly M, Brearley A, Erickson M, Parent S, Aubin C, Sucato D. Prospective randomized controlled trial of implant density in AIS: Results of the minimize implants maximize outcomes study. Pediatric Orthopaedic Society of North America. San Diego, CA May 13-16, 2020.

**Podium**

166. Matsumoto H, Ball J, Roye B, **Garg S**, Erickson M, Samdani A, Skaggs D, Roye D, Vitale M, Pediatric spine study group. Uncorrected pelvic obliquity is associated with lower health related quality of life in ambulatory but not non-ambulatory patients after surgical treatment for early onset scoliosis. Pediatric Orthopaedic Society of North America. San Diego, CA May 13-16, 2020.

**Podium**

167. **Garg S**, Thomas J, Quick H, Carry P, Kim E, Erickson M. Ultrasonic bone scalpel (USBS) does not reduce blood loss in adolescent idiopathic scoliosis (AIS): Randomized clinical trial. Scoliosis Research Society. Phoenix, AZ Sept 9-13, 2020.

**Podium**

168. Gupta M, Lenke LG, Boachie-Adjei O, Bumpass DB, Erickson MA, **Garg S**, McCarthy RE, Newton PO, Pahys JM, Samdani AF, Shah SA, Shufflebarger HL, Sponseller PD, Sucato DJ, Yaszay B, Sides BA, Kelly MP, Fox Pediatric Spinal Deformity Study Group. Intraoperative and early postoperative complications after surgery for severe pediatric spinal deformity have a high rate of resolution at 2 years but affect outcome scores. Scoliosis Research Society. Phoenix, AZ Sept 9-13, 2020.

**Podium**

169. Gupta M, Lenke LG, Boachie-Adjei O, Bumpass DB, Erickson MA, **Garg S**, McCarthy RE, Newton PO, Pahys JM, Samdani AF, Shah SA, Shufflebarger HL, Sponseller PD, Sucato DJ, Yaszay B, Sides BA, Kelly MP, Fox Pediatric Spinal Deformity Study Group. Surgical treatment of severe pediatric spinal deformity significantly improves pulmonary function. Scoliosis Research Society. Phoenix, AZ Sept 9-13, 2020.

**Podium**

170. Gupta M, Lenke LG, Boachie-Adjei O, Bumpass DB, Erickson MA, **Garg S**, McCarthy RE, Newton PO, Pahys JM, Samdani AF, Shah SA, Shufflebarger HL, Sponseller PD, Sucato DJ, Yaszay B, Sides BA, Kelly MP, Fox Pediatric Spinal Deformity Study Group. Surgery for severe pediatric spinal deformity results in improved spinal appearance questionnaire scores at 2 years. Scoliosis Research Society. Phoenix, AZ Sept 9-13, 2020.

**ePoster**

Products of Scholarship

“Living with a Halo Brace.” CD developed for patient education. Collaboration between Children’s Hospital Colorado, Denver and PMT, 2007.

Spine Center at Children’s Hospital Colorado

Musculoskeletal Research Center at Children’s Hospital Colorado

Orthopedic Institute at Children’s Hospital Colorado

Sports Program for Young Athletes at Children’s Hospital Colorado

Idiopathic Spine Fusion Clinical Care Guidelines

High Risk Spine Fusion Clinical Care Guidelines