

GROWING SPINE STUDY GROUP ABSTRACT ACCEPTANCES 2010-2016

	STUDY TITLE	MEETING/YEAR	ACCEPTED AS	AUTHORS
1	Nutritional Improvement Following Growing Rod Surgery in Children with Early Onset Scoliosis	AAOS 2010	PODIUM	Myung, Skaggs, Thompson, Emans, Akbarnia, GSSG
2	Pedicle Screws Have Fewer Complications than Hooks in Children with Growing Rods	AAOS 2011	PODIUM	David L. Skaggs, Karen S. Myung, Charles E. Johnston, Behrooz A. Akbarnia, Growing Spine Study Group
3	Growing rod graduates: Lessons from 58 patients who have completed their lengthenings	AAOS 2011	POSTER	John Flynn, Lauren Tomlinson, Jeff Pawelek, George Thompson, Richard McCarthy, Behrooz Akbarnia, GSSG
4	Preoperative thoracic kyphosis can predict complications in growing rod surgery for early onset scoliosis	AAOS 2011	PODIUM	Sam Schroerlucke, Pooria Salari, Jeff Pawelek, Greg Mundis, Behrooz Akbarnia
5	Is There a Significant Increase in Thoracic Height after Growing Rod Surgery for Early Onset Scoliosis?	AAOS 2013	POSTER	Behrooz Akbarnia, Nima Kabirian, Daniel Zhang, Jeff Pawelek, Greg Redding, John Emans, Suken Shah, Charles Johnston, GSSG
6	The Effect of Serial Growing Rod Lengthening on the Sagittal Profile and Pelvic Parameters in Early Onset Scoliosis	AAOS 2013	POSTER	Suken A. Shah, Ali Karatas, Arjun A. Dhawale, Ozgur Dede, Laurens Holmes Jr., Petya Yorgova, Geraldine Neiss, Gregory M. Mundis, Jeff B. Pawelek
7	Operative Idiopathic Early Onset Scoliosis and AIS Curves Have Different Characteristics	AAOS 2013	POSTER	McElroy M, Sponseller P, Fuhrhop S, Russell C, Newton P, Marks M, Sanders J, Yazici M, Pawelek J, Akbarnia B, Harms Study Group, Growing Spine Study Group
8	Traditional Growing Rods Versus Magnetically Controlled Growing Rods in Early Onset Scoliosis: A Case-Matched Two Year Study	AAOS 2014	PODIUM	Behrooz A. Akbarnia, Kenneth Cheung, Gokhan Demirkiran, Hazem Elsebaie, John Emans, Charlie Johnston, Greg Mundis, Hilali Noordeen, Jeff Pawelek, Matthew Shaw, David Skaggs, Paul Sponseller, George Thompson, Muharrem Yazici, Growing Spine Study Group
9	Early onset scoliosis treated with Growing Rods has a greater increase in T1-S1 length, better Cobb correction, and more than twice the number of surgeries compared to Shilla	AAOS 2014	PODIUM	Lindsay M. Andras, MD1; Elizabeth R. A. Joiner, BS1; Richard E. McCarthy, MD2; Scott J. Luhmann, MD3; Paul D. Sponseller, MD4; John B. Emans5, MD; David L. Skaggs, MD, MMM1; and Growing Spine Study Group*
10	Proximal Rib Anchors Have Less Risk of Rod Breakage Than Proximal Spine Anchors in Growing Rods	AAOS 2014	PODIUM	Kent Yamaguchi, David Skaggs, Karen Myung, Muharrem Yazici, Charles Johnston, George Thompson, Paul Sponseller, Behrooz Akbarnia, Michael Vitale
11	Do Thoracic Dimensions Predict Restrictive Pulmonary Function in Early Onset Scoliosis?	AAOS 2015	POSTER	Glottzbecker, Johnston, Smith, Perez-Grueso, Woon, Flynn, Gold, Cahill, Emans
12	Case-Matched Comparison of Spinal Fusion Versus Growing Rods for the Surgical Treatment of Progressive Idiopathic Scoliosis in Skeletally Immature Patients	AAOS 2015	PODIUM	Jeff B. Pawelek, Burt Yaszay, Stacie Nguyen, Peter O. Newton, Gregory M. Mundis, Behrooz A. Akbarnia, Harms Study Group, Growing Spine Study Group
13	Final Fusion After Growing Rod Treatment for Early Onset Scoliosis: Is it Really Final?	AAOS 2015	PODIUM	Connie Poe-Kochert CNP, Claire Shannon MD, Jeff B. Pawelek, George H. Thompson MD, Christina K. Hardesty MD, David Marks, Behrooz A Akbarnia MD, Richard E McCarthy MD, GSSG
14	Is There An Optimal Time Interval to Distract Dual Growing Rods?	AAOS 2015	POSTER	Michael Paloski, DO; Paul Sponseller, MD; Behrooz Akbarnia, MD; George Thompson, MD; David Skaggs, MD; Jeff Pawelek, BS; Phuong Nguyen, MA; Susan Odum, PhD; Leslie Thaxton
15	Can a "Final Fusion" Procedure be Avoided in Early Onset Scoliosis Patients Who Reach Skeletal Maturity After Growing Rod Treatment?	AAOS 2015	POSTER	Amit Jain, Paul Sponseller, Urvij Modhia, Suken Shah, George Thompson, Jeff Pawelek, Behrooz A. Akbarnia, Growing Spine Study Group
16	Does the "Law of Diminishing Returns" apply to guided growth Shilla constructs?	AAOS 2016	PODIUM	Lindsay Andras, Haleh BadkooBehi, Alexander Broom, Frances McCullough, Richard McCarthy, David Skaggs, Growing Spine Study Group
17	Distraction-Based Surgical Treatment of Progressive Idiopathic Early-Onset Scoliosis: A comparison of Growing Rods versus VEPTR	AAOS 2016	PODIUM	Paul D. Sponseller MD, Anna McClung BSN, RN, Jeff Pawelek BS, Ron El Hawary MD, George H. Thompson MD, John T. Smith MD, Michael G. Vitale MD, Behrooz A. Akbarnia MD, Children's Spine Study Group, Growing Spine Study Group
18	Superior Extension of Upper Instrumented Vertebrae in Distraction Based Surgery: A Surrogate for Clinically Significant PJK	AAOS 2016	POSTER	R. El-Hawary, O. Kubat, J. Heflin, N. Joukhadar, M. Yasin, A. McClung, T. Flynn, D. Skaggs Children's Spine Study Group, Growing Spine Study Group
19	Rod Fracture and Lengthening Intervals in Traditional Growing Rods: Is There a Relationship?	AAOS 2016	PODIUM	Pooria Hosseini, Jeff Pawelek, Stacie Nguyen, George Thompson, Suken Shah, John Flynn, John Dormans, Behrooz Akbarnia, Growing Spine Study Group
20	Preoperative thoracic kyphosis can predict complications in growing rod surgery for early onset scoliosis	AAP 2010	PODIUM	Sam Schroerlucke, Pooria Salari, Jeff Pawelek, Behrooz Akbarnia, GSSG
21	"EOS-Imaging" system is available for EOS patients and can reduce their ionizing radiation exposure	AAP 2014	PODIUM	Burt Yaszay, MD, Nima Kabirian, MD, Gregory M. Mundis, MD, Jeff B. Pawelek, Carrie E. Bartley, MA, Behrooz A. Akbarnia, MD

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	STUDY TITLE	MEETING/YEAR	ACCEPTED AS	AUTHORS
22	Case-Matched Comparison of Spinal Fusion Versus Growing Rods for the Surgical Treatment of Progressive Idiopathic Scoliosis in Skeletally Immature Patients	AAP 2014	PODIUM	Jeff Pawelek, Burt Yaszay, Stacie Nguyen, Peter Newton, Greg Mundis, Behrooz Akbarnia, Harms, Study Group, Growing Spine Study Group
23	Does the "Law of Diminishing Returns" Apply to Guided Growth Shilla Constructs?	AAP 2015	PODIUM	Lindsay Andras, Haleh Badkoobei, Alexander Broom, Frances McCullough, Richard McCarthy, David Skaggs, Growing Spine Study Group
24	Distraction Based Treatment Maintains Predicted Thoracic Dimensions in Early Onset Scoliosis	AOA 2014	PODIUM	Michael Glotzbecker, John Emans, Meryl Gold, Patricia Miller, Behrooz Akbarnia, Charles Johnston, Suken Shah, Francisco Perez-Grueso, GSSG
25	Final Fusion After Growing Rod Treatment for Early Onset Scoliosis: Is it Really Final?	EPOS 2014	POSTER	Connie Poe-Kochert CNP, Claire Shannon MD, Jeff B. Pawelek, George H. Thompson MD, Christina K. Hardesty MD, David Marks, Behrooz A Akbarnia MD, Richard E McCarthy MD, GSSG
26	Pedicle Screws Have Fewer Complications than Hooks in Children with Growing Rods	ICEOS 2010	PODIUM	David L. Skaggs, Karen S. Myung, Charles E. Johnston, Behrooz A. Akbarnia, Growing Spine Study Group
27	Growing Rods for Scoliosis in Spinal Muscular Atrophy	ICEOS 2010	PODIUM	Paul Sponseller, Mark McElroy, Rishi Kadakia, Adam Shaner, George Thompson, Behrooz Akbarnia, GSSG
28	Growing rod graduates: Lessons from 58 patients who have completed their lengthenings	ICEOS 2010	PODIUM	John Flynn, Lauren Tomlinson, Jeff Pawelek, George Thompson, Richard McCarthy, Behrooz Akbarnia, GSSG
29	Growing Rods for Pediatric Spinal Deformity: Examining Principles and Practice	ICEOS 2010	POSTER	Justin Yang, Mark McElroy, George Thompson, Behrooz Akbarnia, Paul Sponseller, GSSG
30	Outcomes of Growing Rod Techniques in Early Onset Scoliosis: Does the Etiology Matter?	ICEOS 2010	POSTER	Behrooz Akbarnia, Pooria Salari, George Thompson, GSSG
31	Growing Rods for Cerebral Palsy	ICEOS 2010	POSTER	Paul Sponseller, Aaron Wild, GSSG
32	Preoperative thoracic kyphosis can predict complications in growing rod surgery for early onset scoliosis	ICEOS 2010	PODIUM	Sam Schroerlucke, Pooria Salari, Jeff Pawelek, Behrooz Akbarnia, Greg Mundis, GSSG
33	Is There a Significant Increase in Thoracic Height after Growing Rod Surgery for Early Onset Scoliosis?	ICEOS 2011	PODIUM	Behrooz Akbarnia, Nima Kabirian, Daniel Zhang, Jeff Pawelek, Greg Redding, John Emans, Suken Shah, Charles Johnston, GSSG
34	Growing Rods in Early Onset Scoliosis with Neurofibromatosis Type 1 (NF1)	ICEOS 2011	PODIUM	Jain, Viral V.1; Ray, Abhishek1; Crawford, Alvin H.1; Emans, John B.2; Sponseller, Paul3; Study Group, Growing Spine4
35	Post-Operative Wound Infection in Growing Rod Surgery for Early-Onset Scoliosis	ICEOS 2011	PODIUM	Akbarnia, Behrooz A.1; Kabirian, Nima 1; Pawelek, Jeff1; Alam, Milad5; Mundis, Gregory M.1; Acacio, Ricardo1; Thompson, George H.2; Marks, David S.4; Gardner, Adrian C.4; Skaggs, David L.3; Study Group, Growing Spine1
36	Hemoglobin Levels in Patients with Early Onset Scoliosis Treated with Growing Rods	ICEOS 2011	POSTER	Myung, Karen S.1; Lee, Christopher1; Wall, Eric 5; Jain, Viral5; Shah, Suken A.3; Johnston, Charles E.4; Akbarnia, Behrooz A.2; Skaggs, David L.1; Study Group, Growing Spine2
37	Curve characteristics of preoperative idiopathic early onset scoliosis	ICEOS 2011	PODIUM	McElroy, Mark1; Sponseller, Paul1; Yazici, Muharrem2; Akbarnia, Behrooz A.3; Thompson, George H.4; Skaggs, David L.6; Emans, John B.5; Pawelek, Jeff3; Study Group, Growing Spine3
38	Growing Rods for Scoliosis in Patients with Cerebral Palsy	ICEOS 2011	PODIUM	Wild, Aaron T.1; Sponseller, Paul1; Thompson, George H.3; Akbarnia, Behrooz A.2; Shah, Suken A.4; Wall, Eric 5; Pawelek, Jeff2; Study Group, Growing Spine2
39	The Value of Flexibility Radiographs in Predicting Coronal Curve Correction Following Growing Rod Surgery	ICEOS 2011	POSTER	Yaszay, Burt1; Pawelek, Jeff2; Kabirian, Nima 2; Bastrom, Tracey1; Emans, John B.3; Thompson, George H.4; McCarthy, Richard E.5; Mundis, Gregory M.2; Akbarnia, Behrooz A.2; Study Group, Growing Spine2
40	Beware the risks of instrumenting to the pelvis in ambulatory early onset scoliosis patients treated with growth sparing surgery	ICEOS 2011	POSTER	Yaszay, Burt2; Kabirian, Nima 1; Pawelek, Jeff1; Emans, John B.3; Johnston, Charles E.4; Shah, Suken A.5; Mundis, Gregory M.1; Akbarnia, Behrooz A.1; Study Group, Growing Spine1
41	Recommendations for Patients and Families After Growing Rod Surgery: Surgeon Agreement on Post-operative Care	ICEOS 2012	PODIUM	Nima Kabirian, MD; Gregory M. Mundis, MD; Patricia Kostial, RN, BSN; Burt Yaszay, MD; Jayla Kyaw, BS; Jeff B. Pawelek; Behrooz A. Akbarnia, MD, Growing Spine Study Group
42	What do coronal flexibility films really tell us about the treatment of idiopathic early-onset scoliosis patients using growing rods?	ICEOS 2012	PODIUM	Burt Yaszay, MD; Nima Kabirian, MD; Jeff B. Pawelek; Tracey Bastrom, MA; John Emans, MD; George H. Thompson, MD; Gregory M. Mundis, MD; Behrooz A. Akbarnia, MD; Growing Spine Study Group

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43	Are Proximal Rib Anchors Protective Against Rod Breakage in Distraction-Based Growing Rods?	ICEOS 2012	PODIUM	Kent Yamaguchi Jr., BA; David Skaggs, MD; Shaun Mansour; Julia Levitan; Karen S. Myung, MD, PhD; Muharram Yazici, MD; Charles Johnston, MD; George Thompson, MD; Paul Sponseller, MD; Behrooz Akbarnia, MD; Michael Vitale, MD
44	Five to Sixteen-Year Results of 201 GR Patients: Is There a Difference Between Etiologies?	ICEOS 2013	PODIUM	Akbarnia, Kabirian, Pawelek, Emans, Thompson, Skaggs, Sponseller, GSSG
45	Quantifying Anesthesia Exposure in Growing Rod Treatment	ICEOS 2013	POSTER	Nima Kabirian, Matthew Goldstein, Jeff Pawelek, Gregory Mundis, Burt Yaszay, Peter Newton, Behrooz Akbarnia
46	Does distraction based treatment predict thoracic dimensions?	ICEOS 2013	PODIUM	Michael Glotzbecker, John Emans, Meryl Gold, Patricia Miller, Behrooz Akbarnia, Charles Johnston, Suken Shah, Francisco Sanchez Perez-Grueso, GSSG.
47	Effectiveness of Sublaminar Wires in Growing Constructs for Early Onset Scoliosis with Severe Curvatures in Preventing Proximal Anchor Pullout	ICEOS 2013	PODIUM	McClung, Johnston, Sucato, Ramo, GSSG
48	Traditional Growing Rods Versus Magnetically Controlled Growing Rods in Early Onset Scoliosis: A Case-Matched Two Year Study	ICEOS 2013	PODIUM	Behrooz A. Akbarnia, Kenneth Cheung, Gokhan Demirkiran, Hazem Elsebaie, John Emans, Charlie Johnston, Greg Mundis, Hilali Noordeen, Jeff Pawelek, Matthew Shaw, David Skaggs, Paul Sponseller, George Thompson, Muharrem Yazici, Growing Spine Study Group
49	Do Thoracolumbar/lumbar Curves Respond Differently To Growing Rod Surgery Compared To Thoracic Curves?	ICEOS 2013	PODIUM	Navid Arandi, Jeff Pawelek, Nima Kabirian, George Thompson, John Emans, John Flynn, John Dormans, Behrooz Akbarnia, GSSG
50	Radiographic Analysis of Cervicothoracic and Spinopelvic Changes After Dual Growing Rod Surgery for Early Onset Scoliosis	ICEOS 2013	PODIUM	Daniel Barba, Gregory M. Mundis, Jr., Burt Yaszay, Jeff Pawelek, Stacie Nguyen, Nima Kabirian, Suken Shah, John B. Emans, Charles E. Johnston, Behrooz A. Akbarnia, Growing Spine Study Group
51	Case-Matched Comparison of Spinal Fusion Versus Growing Rods for the Surgical Treatment of Progressive Idiopathic Scoliosis in Skeletally Immature Patients	ICEOS 2013	PODIUM	Jeff B. Pawelek, Burt Yaszay, Stacie Nguyen, Peter O. Newton, Gregory M. Mundis, Behrooz A. Akbarnia, Harms Study Group, Growing Spine Study Group
52	Final Fusion After Growing Rod Treatment for Early Onset Scoliosis: Is it Really Final?	ICEOS 2013	PODIUM	Connie Poe-Kochert CNP, Claire Shannon MD, Jeff B. Pawelek, George H. Thompson MD, Christina K. Hardesty MD, David Marks, Behrooz A Akbarnia MD, Richard E McCarthy MD, GSSG
53	Is There An Optimal Time Interval to Distract Dual Growing Rods?	ICEOS 2013	PODIUM	Michael Paloski, DO; Paul Sponseller, MD; Behrooz Akbarnia, MD; George Thompson, MD; David Skaggs, MD; Jeff Pawelek, BS; Phuong Nguyen, MA; Susan Odum, PhD; Leslie Thaxton
54	The Use of Spinal and Rib Based Distraction Systems in Early Onset Scoliosis Associated with Myelomeningocele	ICEOS 2013	PODIUM	John T. Smith MD, John A. Heflin MD, Paul Sponseller MD, Larry Karlin MD
55	Early Onset Scoliosis Treated With Growing Rods Has More Spinal Growth, Better Cobb Correction, But More Than Twice The Number Of Surgeries Compared To Shilla	ICEOS 2013	PODIUM	Lindsay M. Andras, MD1; Elizabeth R. A. Joiner, BS1; Richard E. McCarthy, MD2; Scott J. Luhmann, MD3; Paul D. Sponseller, MD4; John B. Emans, MD; David L. Skaggs, MD, MMM1; and Growing Spine Study Group
56	Defining Pre-operative Age and Deformity Magnitude Cut-offs for the Initiation of Surgical Treatment with Dual Growing Rods	ICEOS 2014	PODIUM	Vidyadhar V. Upasani, MD; Kevin C. Parvaresh, MD; Jeff Pawelek; Patricia E. Miller, MS; George H. Thompson, MD; David L. Skaggs, MD, MMM; John B. Emans, MD; Michael P. Glotzbecker, MD; Growing Spine Study Group
57	Can a "No Final Fusion" Produce Equal Results to Final Fusion After Growing Rod Treatment?	ICEOS 2014	PODIUM	Amit Jain, MD; Paul D. Sponseller, MD, MBA; Urvi Modhia, MD; Suken A. Shah, MD; George H. Thompson, MD; Jeff B. Pawelek; Behrooz A. Akbarnia, MD; Growing Spine Study Group
58	Pelvic Anchor Outcomes in Growing Rod Constructs: An Analysis of Patients with a Minimum of 4 Years of Post-Operative Follow-Up	ICEOS 2014	PODIUM	Jaysson T. Brooks, MD; Amit Jain, MD; Francisco Sanchez Perez-Grueso, MD; David L. Skaggs, MD, MMM; George H. Thompson, MD; Behrooz A. Akbarnia, MD; Paul D. Sponseller, MD, MBA; Growing Spine Study Group
59	The Effect of Growth Friendly Surgery on Coronal and Sagittal Plane Spine Growth in Idiopathic Scoliosis	ICEOS 2014	PODIUM	Ron El Hawary, Charles Johnston, Anna McClung, Chukudi Chukwunyerenna, CSSG, GSSG
60	Prospective Study Comparing the Effects of Proximal Rib Anchors versus Proximal Spine Anchors: Examining Complications, Curve Correction, and Quality of Life	ICEOS 2014	PODIUM	Michael G. Vitale, Mark Sullivan, Evan Trupia, Hiroko Matsumoto, Sumeet Garg, John Flynn, Peter F. Sturm, Francisco Sanchez Perez-Grueso, Children's Spine Study Group, Growing Spine Study Group, David P. Roye
61	Radiographic Outcomes of Shilla Growth Guidance System and Traditional Growing Rods through Definitive Treatment	ICEOS 2015	PODIUM	Scott J. Luhmann, MD; June C. Smith, MPH; Ann McClung, RN; Lynn McCullough; Richard E. McCarthy, MD; George Thompson, MD; Growing Spine Study Group
62	Radiographic Outcome Differences in Growing Rod Constructs Using Tandem vs. Wedding Band Connectors	ICEOS 2015	PODIUM	Oetgen, Matthews, Wang, Blakemore, McClung, Pawelek, Sponseller, Perez-Grueso, Akbarnia, GSSG
63	Distraction-Based Surgical Treatment of Progressive Idiopathic Early-Onset Scoliosis: A comparison of Growing Rods versus VEPTR	ICEOS 2015	PODIUM	Paul D. Sponseller MD, Anna McClung BSN, RN, Jeff Pawelek BS, Ron El Hawary MD, George H. Thompson MD, John T. Smith MD, Michael G. Vitale MD, Behrooz A. Akbarnia MD, Malick Bachabi MD, Children's Spine Study Group, Growing Spine Study Group

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64	Best Practice Guidelines for the Surgical Treatment of Early Onset Scoliosis	ICEOS 2015	PODIUM	Michael Glotzbecker1, Tricia St Hilaire MPH,2 Jeff Pawelek BS3, George Thompson MD,4 Michael Vitale MD MPH5, Children's Spine Study Group, Growing Spine Study Group
65	Does Initial Cast Correction Predict Treatment Success for Infantile Scoliosis?	ICEOS 2015	PODIUM	Jaime Andres Gomez1, Alexandra Grzywna2, Patricia E. Miller2, Lawrence I. Karlin2, John B. Emans2, Sumeet Garg3, James O. Sanders4, Paul D. Sponseller5, Jacques L D'Astous6, Michael P. Glotzbecker2, Children's Spine Study Group7, Growing Spine Study Group8
66	Variation in Surgeon Practices for Early Onset Scoliosis Casting	ICEOS 2015	PODIUM	Alexandra Grzywna, BA; Anna McClung, BSN, RN; James Sanders, MD; Peter Sturm, MD; Michael Glotzbecker, MD, CSSG, GSSG
67	Proximal Rib vs Proximal Spine Anchors in Growing Rods: A Multicenter Prospective Cohort Study	ICEOS 2015	PODIUM	Michael G. Vitale, Hiroko Matsumoto, Nicholas Feinberg, Stephen Maier, Evan Trupia, Shay Warren, Matthew Shirley, Sumeet Garg, John Flynn, Peter F. Sturm, Francisco Sanchez Perez-Gruoso, David P. Roye Jr, David L Skaggs, and the Children's Spine Study Group and the Growing Spine Study Group
68	Upper Foundations Implanted Cephalad to Upper End Vertebrae of Kyphosis Decreases Post-Operative Proximal Junctional Angle	ICEOS 2015	PODIUM	Ron El-Hawary, Ozren Kubat, John A Heflin, Nadim Joukhadar, Mohamad S. Yasin, Anna M. McClung, Tara Flynn, David L. Skaggs, CSSG, GSSG
69	Rod Fracture and Lengthening Intervals in Traditional Growing Rods: Is There a Relationship?	ICEOS 2015	POSTER	Pooria Hosseini, Jeff Pawelek, Stacie Nguyen, George Thompson, Suken Shah, John Flynn, John Dormans, Behrooz Akbarnia, Growing Spine Study Group
70	Comparison of Weight Percentile Gain with Growth-Friendly Constructs in Early Onset Scoliosis	ICEOS 2015	POSTER	Liam Harris BS, Lindsay Andras MD, Paul Sponseller MD, Charles Johnston MD, John Emans MD, David Skaggs MD. MMM, Growing Spine Study Group
71	Pelvic Obliquity Correction in Distraction-Based Growing Spine Constructs	ICEOS 2015	POSTER	Mathew Schur BA, Lindsay M Andras MD, Paul D Sponseller MD MBA, John B Emans MD, David L Skaggs MD MMM, Growing Spine Study Group
72	The Utility of Growth-friendly Surgery in Early-onset Scoliosis Secondary to Beals Syndrome	ICEOS 2015	POSTER	Burt Yaszay1; Jeff Pawelek2; John B. Emans3; Patrick Cahill4; Bo Robertson2; Greg Mundis2; Behrooz Akbarnia2; Children's Spine Study Group5; Growing Spine Study Group6
73	Growth Friendly Spinal Surgery for Scoliosis in Children with Osteogenesis Imperfecta	ICEOS 2015	POSTER	Lawrence Karlin, MD; Amer Samdani, MD; Anna McClung, BSN, RN, Michael Troy; Children's Spine Study Group; Growing Spine Study Group
74	Complications and Radiographic Outcomes of Posterior Spinal Fusion (PSF) in Patients with Spinal Muscular Atrophy (SMA) Following Growth Friendly Treatment.	ICEOS 2015	POSTER	Mendonca RM , Helfin JA, Sponseller PD, Thompson GH, Vitale MG, Smith JT, Flynn T, Murphy R, Flournoy J, Sawyer JR, CSSG, GSSG
75	Classification of Early Onset Scoliosis (C-EOS) Has Almost Perfect Inter and Intra Observer Reliability	ICEOS 2015	POSTER	Micaela Cyr, BA; Tricia St. Hilaire, MPH; Zhaoxing Pan, PhD; George H. Thompson, MD; Children's Spine Study Group; Growing Spine Study Group; Sumeet Garg, MD
76	Short Term Health Related Quality of Life and Family Burden after Surgical or Casting Treatment	ICEOS 2015	POSTER	Vitale, Skaggs, Matsumoto, Sanders, Smith, Garg
77	Post-Operative Wound Infection in Growing Rod Surgery for Early-Onset Scoliosis	IMAST 2011	POSTER	Akbarnia, Behrooz A.1; Kabirian, Nima 1; Pawelek, Jeff1; Alam, Milad5; Mundis, Gregory M.1; Acacio, Ricardo1; Thompson, George H.2; Marks, David S.4; Gardner, Adrian C.4; Skaggs, David L.3; Study Group, Growing Spine1
78	Curve characteristics of preoperative idiopathic early onset scoliosis	IMAST 2011	POSTER	McElroy, Mark1; Sponseller, Paul1; Yazici, Muharrem2; Akbarnia, Behrooz A.3; Thompson, George H.4; Skaggs, David L.6; Emans, John B.5; Pawelek, Jeff3; Study Group, Growing Spine3
79	The Value of Flexibility Radiographs in Predicting Coronal Curve Correction Following Growing Rod Surgery	IMAST 2011	POSTER	Yaszay, Burt1; Pawelek, Jeff2; Kabirian, Nima 2; Bastrom, Tracey1; Emans, John B.3; Thompson, George H.4; McCarthy, Richard E.5; Mundis, Gregory M.2; Akbarnia, Behrooz A.2; Study Group, Growing Spine2
80	Beware the risks of instrumenting to the pelvis in ambulatory early onset scoliosis patients treated with growth sparing surgery	IMAST 2011	POSTER	Yaszay, Burt2; Kabirian, Nima 1; Pawelek, Jeff1; Emans, John B.3; Johnston, Charles E.4; Shah, Suken A.5; Mundis, Gregory M.1; Akbarnia, Behrooz A.1; Study Group, Growing Spine1
81	Is There a Significant Increase in Thoracic Height after Growing Rod Surgery for Early Onset Scoliosis?	IMAST 2012	POSTER	Behrooz Akbarnia, Nima Kabirian, Daniel Zhang, Jeff Pawelek, Greg Redding, John Emans, Suken Shah, Charles Johnston, GSSG
82	Are Rib Anchors Protective Against Rod Breakage in Distraction-Based Growing Rods?	IMAST 2012	POSTER	Kent Yamaguchi, David Skaggs, Karen Myung, Shaun Mansour, Muharrem Yazici, Charles Johnston, George Thompson, Paul Sponseller, Behrooz Akbarnia, Michael Vitale
83	Operative Idiopathic Early Onset Scoliosis and AIS Curves Have Different Characteristics	IMAST 2012	POSTER	Mark J. McElroy, MS, Paul D. Sponseller, MD, Sara K. Fuhrhop, Colin J. Russell, Peter O. Newton, MD, Michelle C. Marks, PT, MA, James O. Sanders, MD, Muharrem Yazici, MD, Jeff B. Pawelek, BS, Behrooz Akbarnia, MD, Harms Study Group, Growing Spine Study Group
84	A Critical Assessment of Growing Rods for the Treatment of Pediatric Scoliosis in Cerebral Palsy	IMAST 2012	PODIUM	Mark J. McElroy, MS, Paul D. Sponseller, MD, Jonathan R. Dattilo, BS, George H. Thompson, MD, Behrooz A. Akbarnia, MD, Growing Spine Study Group

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85	What do coronal flexibility films really tell us about the treatment of idiopathic early-onset scoliosis patients using growing rods?	IMAST 2012	POSTER	Yaszay, Burt1; Kabirian, Nima 2; Pawelek, Jeff, Bastrom, Tracey1; Emans, John B.3; Thompson, George H.4; E.5; Mundis, Gregory M.2; Akbarnia, Behrooz A.2; Study Group, Growing Spine2
86	Five to Sixteen-Year Results of 201 GR Patients: Is There a Difference Between Etiologies?	IMAST 2013	PODIUM	Behrooz Akbarnia, Nima Kabirian, Jeff Pawelek, John Emans, George Thompson, David Skaggs, Paul Sponseller, GSSG
87	Proximal Rib Anchors Have 77% Less Risk of Rod Breakage Than Proximal Spine Anchors In Distraction-Based Growing Rods	IMAST 2013	PODIUM	Kent Yamaguchi, David Skaggs, Shaun Mansour, Karen Myung, Muharram Yazici, Charles Johnston, George Thompson, Paul Sponseller, Behrooz Akbarnia, Michael Vitale, GSSG
88	The Effect of Growth Friendly Surgery on Coronal and Sagittal Plane Spine Growth in Idiopathic Scoliosis	IMAST 2014	POSTER	Ron El Hawary, Charles Johnston, Anna McClung, Chukudi Chukwunyerenwa, CSSG, GSSG
89	Case-Matched Comparison of Spinal Fusion Versus Growing Rods for the Surgical Treatment of Progressive Idiopathic Scoliosis in Skeletally Immature Patients	IMAST 2014	PODIUM	Jeff B. Pawelek, Burt Yaszay, Stacie Nguyen, Peter O. Newton, Gregory M. Mundis, Behrooz A. Akbarnia, Harms Study Group, Growing Spine Study Group
90	Is There An Optimal Time Interval to Distract Dual Growing Rods?	IMAST 2014	PODIUM	Michael Paloski, DO; Paul Sponseller, MD; Behrooz Akbarnia, MD; George Thompson, MD; David Skaggs, MD; Jeff Pawelek, BS; Phuong Nguyen, MA; Susan Odum, PhD; Leslie Thaxton
91	When can we avoid final fusion procedures in GR patients who have reached skeletal maturity?	IMAST 2014	PODIUM	Michael Paloski; Paul Sponseller; Behrooz Akbarnia; George Thompson; David Skaggs; Jeff Pawelek; Phuong Nguyen; Susan Odum
92	Effectiveness of Sublaminar Wires in Growing Constructs for Early Onset Scoliosis with Severe Curvatures in Preventing Proximal Anchor Pullout	IMAST 2014	PODIUM	McClung, Johnston, Sucato, Ramo, GSSG
93	Can a "No Final Fusion" Produce Equal Results to Final Fusion After Growing Rod Treatment?	IMAST 2015	PODIUM	Amit Jain, MD; Paul D. Sponseller, MD, MBA; Urvij Modhia, MD; Suken A. Shah, MD; George H. Thompson, MD; Jeff B. Pawelek; Behrooz A. Akbarnia, MD; Growing Spine Study Group
94	Outcomes of Pelvic Fixation in Growing Rod Constructs: An Analysis of Patients with a Minimum of 4 Years Follow-Up	IMAST 2015	PODIUM	Jaysson T. Brooks, MD; Amit Jain, MD; Francisco Sanchez Perez-Grueso, MD; David L. Skaggs, MD, MMM; George H. Thompson, MD; Behrooz A. Akbarnia, MD; Paul D. Sponseller, MD, MBA; Growing Spine Study Group
95	Does the "Law of Diminishing Returns" apply to guided growth Shilla constructs?	IMAST 2015; SRS 2015	PODIUM; POSTER	Lindsay Andras, Haleh Badkoobei, Alexander Broom, Frances McCullough, Richard McCarthy, David Skaggs, Growing Spine Study Group
96	Classification of Early Onset Scoliosis (C-EOS) Has Almost Perfect Inter and Intra Observer Reliability	IMAST 2015	PODIUM	Micaela Cyr, BA; Tricia St. Hilaire, MPH; Zhaoxing Pan, PhD; George H. Thompson, MD; Children's Spine Study Group; Growing Spine Study Group; Sumeet Garg, MD
97	Does Initial Cast Correction Predict Treatment Success for Infantile Scoliosis?	IMAST 2015	PODIUM	Jaime A Gomez MD, Alexandra M Grzywna BA, Patricia E Miller MS, Lawrence Karlin MD, John Emans MD, Sumeet Garg MD, Jacques L D'Astous MD FRCS, James O Sanders MD, Paul D Sponseller MD MBA, Michael P Glotzbecker MD, Children's Spine Study Group, Growing Spine Study Group
98	Five or more Proximal Anchors including UEV Protects Against Reoperation	IMAST 2016	PODIUM	Liam Harris, Lindsay Andras, Gregory Mundis, Paul Sponseller, John Emans, David Skaggs, Growing Spine Study Group
99	Radiographic outcome differences in growing rod constructs using tandem vs. wedding band connectors	IMAST 2016	PODIUM	Oetgen, Matthews, Wang, Blakemore, McClung, Pawelek, Sponseller, Perez-Grueso, Akbarnia, GSSG
100	Choice of Anchors – Rib vs. Spine: Importance of Proximal Anchor Number	IMAST 2016	PODIUM	Michael Vitale, Hiroko Matsumoto, Nicholas Feinberg, Evan Trupia, Matthew Shirley, Sumeet Garg, John Flynn, Peter Sturm, Francisco Javier Perez-Grueso, David Roye, David Skaggs, Children's Spine Study Group, Growing Spine Study Group
101	Growing Rods for Scoliosis in Spinal Muscular Atrophy	POSNA 2011	POSTER	Paul Sponseller, Mark McElroy, Adam Shaner, Rishi Kadakia, George Thompson, Behrooz Akbarnia, GSSG
102	Growing rod graduates: Lessons from 58 patients who have completed their lengthenings	POSNA 2011	PODIUM	John Flynn, Lauren Tomlinson, Jeff Pawelek, George Thompson, Richard McCarthy, Behrooz Akbarnia, GSSG
103	Preoperative thoracic kyphosis can predict complications in growing rod surgery for early onset scoliosis	POSNA 2011	PODIUM	Samuel Schroerlucke, Behrooz Akbarnia, Jeff Pawelek, Pooria Salari, Greg Mundis, Muharrem Yazici, John Emans, Paul Sponseller, GSSG
104	Outcomes of Growing Rod Techniques in Early Onset Scoliosis: Does the Etiology Matter?	POSNA 2011	POSTER	Behrooz A. Akbarnia, Pooria Salari, George H. Thompson, Paul Sponseller, John Emans, Growing Spine Study Group
105	Growing Rods for Cerebral Palsy	POSNA 2011	POSTER	Paul Sponseller, Aaron Wild, GSSG

GROWING SPINE STUDY GROUP ABSTRACT ACCEPTANCES 2010-2016

	STUDY TITLE	MEETING/YEAR	ACCEPTED AS	AUTHORS
106	Age Matched Comparison of Casting Patients to Growth Sparing Implants for Outcomes and Complications	POSNA 2012	PODIUM	Charles Johnston, Anna McClung, Connie Poe Kochert, George Thompson, James Sanders, Nicholas Fletcher, Growing Spine Study Group
107	Post-Operative Wound Infection in Growing Rod Surgery for Early-Onset Scoliosis	POSNA 2012	POSTER	Akbarnia, Behrooz A.1; Kabirian, Nima 1; Pawelek, Jeff1; Alam, Milad5; Mundis, Gregory M.1; Acacio, Ricardo1; Thompson, George H.2; Marks, David S.4; Gardner, Adrian C.4; Skaggs, David L.3; Study Group, Growing Spine1
108	Growing Rods for Scoliosis in Patients with Cerebral Palsy	POSNA 2012	PODIUM	Mark J. McElroy, MS, Paul D. Sponseller, MD, Jonathan R. Dattilo, BS, George H. Thompson, MD, Behrooz A. Akbarnia, MD, Growing Spine Study Group
109	Are Rib Anchors Protective Against Rod Breakage in Distraction-Based Growing Rods?	POSNA 2013	POSTER	Kent Yamaguchi Jr., BA; David Skaggs, MD; Shaun Mansour; Julia Levitan; Karen S. Myung, MD, PhD; Muharram Yazici, MD; Charles Johnston, MD; George Thompson, MD; Paul Sponseller, MD; Behrooz Akbarnia, MD; Michael Vitale, MD
110	Five To Sixteen-Year Results Of 201 Growing Rod Patients: Is There A Difference Between Etiologies?	POSNA 2013	PODIUM	Akbarnia, Kabirian, Pawelek, Emans, Thompson, Skaggs, Sponseller, GSSG
111	Early Onset Scoliosis Treat with Growing Rods has more Spinal Growth, Better Cobb correction, but more than twice the number of surgeries compared to Shilla.	POSNA 2013	PODIUM	Andras L, Joiner E, McCarthy R, Luhmann S, Sponseller P, Emans J, Skaggs D, Growing Spine Study Group.
112	Traditional Growing Rods Versus Magnetically Controlled Growing Rods in Early Onset Scoliosis: A Case-Matched Two Year Study	POSNA 2014	PODIUM	Behrooz A. Akbarnia, Kenneth Cheung, Gokhan Demirkiran, Hazem Elsebaie, John Emans, Charlie Johnston, Greg Mundis, Hilali Noordeen, Jeff Pawelek, Matthew Shaw, David Skaggs, Paul Sponseller, George Thompson, Muharrem Yazici, Growing Spine Study Group
113	Case-Matched Comparison of Spinal Fusion Versus Growing Rods for the Surgical Treatment of Progressive Idiopathic Scoliosis in Skeletally Immature Patients	POSNA 2014	PODIUM	Jeff B. Pawelek, Burt Yazsay, Stacie Nguyen, Peter O. Newton, Gregory M. Mundis, Behrooz A. Akbarnia, Harms Study Group, Growing Spine Study Group
114	Final Fusion After Growing Rod Treatment for Early Onset Scoliosis: Is it Really Final?	POSNA 2014	PODIUM	Connie Poe-Kochert CNP, Claire Shannon MD, Jeff B. Pawelek, George H. Thompson MD, Christina K. Hardesty MD, David Marks, Behrooz A Akbarnia MD, Richard E McCarthy MD, GSSG
115	Is there a relationship between lengthening intervals and rod fracture in traditional growing rod surgery for the treatment of early onset scoliosis?	POSNA 2015	POSTER	Pooria Hosseini1, Jeff Pawelek1, Stacie Nguyen1, George H. Thompson2, Suken A. Shah3, John M. Flynn4, John P. Dormans4, Behrooz A. Akbarnia1, GSSG5
116	Does the "Law of Diminishing Returns" Apply for Growing Rod Surgery After 7 Lengthenings?	POSNA 2015	POSTER	Howard Y. Park MD, Alexander M. Broom BA1, Lindsay M. Andras MD1, David L. Skaggs MD1, 2Growing Spine Study Group
117	Does the "Law of Diminishing Returns" apply to guided growth Shilla constructs?	POSNA 2015	POSTER	Lindsay M. Andras, MD1, Haleh Badkoobei, MD1, Alexander Broom, BA1, Lynn McCullough, RNP, MNsc, Richard E. McCarthy, MD2, David L. Skaggs, MD, MMM1, Growing Spine Study Group3
118	Pelvic Anchor Outcomes in Growing Rod Constructs: An Analysis of Patients with a Minimum of 4 Years of Post-Operative Follow-Up	POSNA 2015	POSTER	Jaysson T. Brooks, MD; Amit Jain, MD; Francisco Sanchez Perez-Grueso, MD; David L. Skaggs, MD, MMM; George H. Thompson, MD; Behrooz A. Akbarnia, MD; Paul D. Sponseller, MD, MBA; Growing Spine Study Group
119	The safety and efficacy of Growing Rods following kyphectomy in higher level myelomeningocele patients	POSNA 2015	POSTER	Bas C, Demirkiran G, Preminger J, Sponseller P, Yazici M, Growing Spine Study Group
120	Classification of Early Onset Scoliosis Has Almost Perfect Inter and Intra Observer Reliability	POSNA 2015	POSTER	Micaela Cyr; Tricia St. Hilaire; George H. Thompson; Children's Spine Study Group; Growing Spine Study Group; Sumeet Garg
121	VEPTR versus Traditional Growing Rods: Preliminary Results from a Collaboration between Two National Databases	POSNA 2015	POSTER	Michael G. Vitale1, MD, MPH; Mark Sullivan1, BA; Evan Trupia1, BS; Hiroko Matsumoto1, PhD; Sumeet Garg2, MD; John Flynn3, MD; Peter F. Sturm4, MD; Francisco Sanchez Perez-Grueso5, MD; David P. Roye1, MD; David L. Skaggs6, MD
122	Can a "No Final Fusion" Produce Equal Results to Final Fusion After Growing Rod Treatment?	POSNA 2015	PODIUM	Amit Jain, MD; Paul D. Sponseller, MD, MBA; Urvi Modhia, MD; Suken A. Shah, MD; George H. Thompson, MD; Jeff B. Pawelek; Behrooz A. Akbarnia, MD; Growing Spine Study Group
123	Age at Initiation, Deformity Magnitude and ASA Classification Influence Complication Rates of Surgical Treatment with Dual Growing Rods in Early Onset Scoliosis	POSNA 2015	PODIUM	Vidyardhar V. Upasani, MD; Kevin C. Parvaresh, MD; Jeff Pawelek; Patricia E. Miller, MS; George H. Thompson, MD; David L. Skaggs, MD, MMM; John B. Emans, MD; Michael P. Glotzbecker, MD; Growing Spine Study Group
124	Best Practice Guidelines For the Surgical Treatment of Early Onset Scoliosis	POSNA 2016	POSTER	Michael Glotzbecker1, Tricia St Hilaire MPH,2 Jeff Pawelek BS3, George Thompson MD,4 Michael Vitale MD MPH5, Children's Spine Study Group, Growing Spine Study Group
125	Complications and Radiographic Outcomes of Posterior Spinal Fusion (PSF) in Patients with Spinal Muscular Atrophy (SMA) Following Growth Friendly Treatment.	POSNA 2016	POSTER	Mendonça RM , Helfin JA, Sponseller PD, Thompson GH, Vitale MG, Smith JT, Flynn T, Murphy R, Flournory J, Sawyer JR, CSSG, GSSG
126	Radiographic Outcomes of Shilla Growth Guidance System and Traditional Growing Rods through Definitive Treatment	POSNA 2016	POSTER	Scott J. Luhmann, MD; June C. Smith, MPH; Ann McClung, RN; Lynn McCullough; Richard E. McCarthy, MD; George Thompson, MD; Growing Spine Study Group

GROWING SPINE STUDY GROUP ABSTRACT ACCEPTANCES 2010-2016

	STUDY TITLE	MEETING/YEAR	ACCEPTED AS	AUTHORS
127	Choice of Anchors – Rib vs. Spine: Importance of Proximal Anchor Number	POSNA 2016	POSTER	Michael G. Vitale, Hiroko Matsumoto, Nicholas Feinberg, Stephen Maier, Evan Trupia, Shay Warren, Matthew Shirley, Sumeet Garg, John Flynn, Peter F. Sturm, Francisco Sanchez Perez-Gruoso, David P. Roye Jr, David L Skaggs, and the Children's Spine Study Group and the Growing Spine Study Group
128	Multicenter evaluation of spinal deformity in skeletal dysplasias with growing rod systems	POSNA 2016	POSTER	Klane K. White MD MSc, Viviana Bompadre PhD, Gregory Redding MD, Walter Krengel III MD, Suken Shah, MD, CSSG, GSSG
129	Classification of Early Onset Scoliosis Predicts Complications after Initiation of Growth Friendly Spine Surgery	POSNA 2016	PODIUM	Christen Russo, Nicholas Feinberg, Evan Trupia, Hiroko Matsumoto, John Smith, Amer Samdani, Sumeet Garg, John Flynn, Michael Vitale, and the Children's Spine Study Group and the Growing Spine Study Group
130	Does Initial Cast Correction Predict Treatment Success for Infantile Scoliosis?	POSNA 2016	POSTER	Jaime Andres Gomez1, Alexandra Grzywna2, Patricia E. Miller2, Lawrence I. Karlin2, John B. Emans2, Sumeet Garg3, James O. Sanders4, Paul D. Sponseller5, Jacques L D'Astous6, Michael P. Glotzbecker2, Children's Spine Study Group7, Growing Spine Study Group8
131	Growing Rod and Vertical Expandable Prosthetic Titanium Rib Perform Differently for Idiopathic Early Onset Scoliosis at 5-year Follow-up	POSNA 2016	POSTER	Paul D. Sponseller MD, Anna McClung BSN, RN, Jeff Pawelek BS, Ron El Hawary MD, George H. Thompson MD, John T. Smith MD, Michael G. Vitale MD, Behrooz A. Akbarnia MD, Malick Bachabi MD, Children's Spine Study Group, Growing Spine Study Group
132	Pedicle Screws Have Fewer Complications than Hooks in Children with Growing Rods	SRS 2010	PODIUM	David L. Skaggs, Karen S. Myung, Charles E. Johnston, Behrooz A. Akbarnia, Growing Spine Study Group
133	Growing Rods for Scoliosis in Spinal Muscular Atrophy	SRS 2010	PODIUM	Paul Sponseller, Mark McElroy, Rishi Kadakia, Adam Shaner, George Thompson, Behrooz Akbarnia, GSSG
134	Growing rod graduates: Lessons from 58 patients who have completed their lengthenings	SRS 2010	PODIUM	John Flynn, Lauren Tomlinson, Jeff Pawelek, George Thompson, Richard McCarthy, Behrooz Akbarnia, GSSG
135	Growing Rods for Pediatric Spinal Deformity: Examining Principles and Practice	SRS 2010	PODIUM	Justin Yang, Mark McElroy, George Thompson, Behrooz Akbarnia, Paul Sponseller, GSSG
136	Nutritional Improvement Following Growing Rod Surgery in Children with Early Onset Scoliosis	SRS 2010	PODIUM	Karen Myung, David Skaggs, George Thompson, Behrooz Akbarnia, GSSG
137	Outcomes of Growing Rod Techniques in Early Onset Scoliosis: Does the Etiology Matter?	SRS 2010	PODIUM	Behrooz Akbarnia, Pooria Salari, George Thompson, Paul Sponseller, John Emans, GSSG
138	Preoperative thoracic kyphosis can predict complications in growing rod surgery for early onset scoliosis	SRS 2010	PODIUM	Sam Schroerlucke, Pooria Salari, Jeff Pawelek, Behrooz Akbarnia
139	Growing Rods in Early Onset Scoliosis with Neurofibromatosis Type 1	SRS 2011	PODIUM	Jain, Viral V.1; Ray, Abhishek1; Crawford, Alvin H.1; Emans, John B.2; Sponseller, Paul3; Study Group, Growing Spine4
140	Age Matched Comparison of Casting Patients to Growth Sparing Implants for Outcomes and Complications	SRS 2012	PODIUM	Charles Johnston, Anna McClung, Connie Poe Kochert, George Thompson, James Sanders, Nicholas Fletcher, Growing Spine Study Group
141	Deep Surgical Site Infection Following Growing Rod Surgery in Early Onset Scoliosis: How Does It Change the Course of Treatment?	SRS 2012	PODIUM	Kabirian, Nima; Akbarnia, Behrooz A., Pawelek, Jeff1; Alam, Milad5; Mundis, Gregory M.1; Acacio, Ricardo1; Thompson, George H.2; Marks, David S.4; Gardner, Adrian C.4; Skaggs, David L.3; Study Group, Growing Spine1
142	The Effect of Serial Growing Rod Lengthening on the Sagittal Profile and Pelvic Parameters in Early Onset Scoliosis	SRS 2012	PODIUM	Suken A. Shah, Gregory M. Mundis, Jr., Arjun A. Dhawale, Laurens Holmes Jr., Petya Yorgova, Geraldine Neiss, Jeff B. Pawelek, John B. Emans, George H. Thompson, Behrooz A. Akbarnia, Growing Spine Study Group
143	Traditional Growing Rods Versus Magnetically Controlled Growing Rods in Early Onset Scoliosis: A Case-Matched Two Year Study	SRS 2013	PODIUM	Behrooz A. Akbarnia, Kenneth Cheung, Gokhan Demirkiran, Hazem Elsebaie, John Emans, Charlie Johnston, Greg Mundis, Hilali Noordeen, Jeff Pawelek, Matthew Shaw, David Skaggs, Paul Sponseller, George Thompson, Muharrem Yazici, Growing Spine Study Group
144	Early onset scoliosis treated with Growing Rods has a greater increase in T1-S1 length, better Cobb correction, and more than twice the number of surgeries compared to Shilla	SRS 2013	PODIUM	Lindsay M. Andras, MD1; Elizabeth R. A. Joiner, BS1; Richard E. McCarthy, MD2; Scott J. Luhmann, MD3; Paul D. Sponseller, MD4; John B. Emans5, MD; David L. Skaggs, MD, MMM1; and Growing Spine Study Group
145	Does distraction based treatment predict thoracic dimensions?	SRS 2013	POSTER	Michael Glotzbecker, John Emans, Meryl Gold, Behrooz Akbarnia, Charles Johnston, Suken Shah, Francisco Sanchez Perez-Gruoso, GSSG
146	Final Fusion After Growing Rod Treatment for Early Onset Scoliosis: Is it Really Final?	SRS 2014	PODIUM	Connie Poe-Kochert CNP, Claire Shannon MD, Jeff B. Pawelek, George H. Thompson MD, Christina K. Hardesty MD, David Marks, Behrooz A Akbarnia MD, Richard E McCarthy MD, GSSG
147	Prospective Study Comparing the Effects of Proximal Rib Anchors versus Proximal Spine Anchors: Examining Complications, Curve Correction, and Quality of Life	SRS 2015	POSTER	Michael G. Vitale, Hiroko Matsumoto, Mark P. Sullivan, Evan P. Trupia, Julie Yoshimachi, Diana K. Lee, Sumeet Garg, John Flynn, Peter F. Sturm, Paul Sponseller, Francisco Sanchez Perez-Gruoso David P. Roye Jr, David L Skaggs, and the Children's Spine Study Group and the Growing Spine Study Group

GROWING SPINE STUDY GROUP ABSTRACT ACCEPTANCES 2010-2016

	STUDY TITLE	MEETING/YEAR	ACCEPTED AS	AUTHORS
148	Retrieval Analysis of Traditional Distraction-Based Growing Rod Constructs for Early Onset Scoliosis	SRS 2015	PODIUM	Genevieve Hill1, Srinidhi Nagaraja1, Behrooz A. Akbarnia2, Paul D. Sponseller3, Peter F. Sturm4, John B. Emans5, Jeff B. Pawelek6, Growing Spine Study Group 7, Maureen Dreher1
149	Upper Foundations Implanted Cephalad to Upper End Vertebrae of Kyphosis Decreases Post-Operative Proximal Junctional Angle	SRS 2016	PODIUM	Ron El-Hawary, Ozren Kubat, John Heflin, Nadim Joukhadar, Mohamad Yasin, Anna McClung, Tara Flynn, David Skaggs, Children's Spine Study Group, Growing Spine Study Group
150	Spinopelvic Parameters Predict Development of Proximal Junctional Kyphosis in Early Onset Scoliosis	SRS 2016	PODIUM	Ozren Kubat, Virginie Lafage, Jen Hurry, Alex Soroceanu, Frank Schwab, David Skaggs, Children's Spine Study Group, Growing Spine Study Group , Ron El-Hawary
151	Distraction-Based Surgeries Increase True Thoracic Spine Length After 10 Lengthenings for Patients with Idiopathic Early Onset Scoliosis	SRS 2016	PODIUM	R. El-Hawary, C. Chukwunyerenwa, L. Gauthier, A. Spurway, A. McClung, C. Johnston, Children's Spine Study Group, Growing Spine Study Group
152	Radiographic Outcomes of Shilla Growth Guidance System and Traditional Growing Rods through Definitive Treatment	SRS 2016	PODIUM	Scott J. Luhmann, MD; June C. Smith, MPH; Ann McClung, RN; Lynn McCullough; Richard E. McCarthy, MD; George Thompson, MD; Growing Spine Study Group
153	Analyzing Early Onset Scoliosis in 3D: How Does Growing Rod Surgery Affect the Three Planes of Deformity?	SRS 2016	PODIUM	Burt Yaszay, MD; Fredrick G. Reighard; Joshua Doan, MEng; Christine Farnsworth, MS; Jeff Pawelek, BS; Behrooz Akbarnia, MD
154	Best Practice Guidelines For the Surgical Treatment of Early Onset Scoliosis	SRS 2016	POSTER	Michael Glotzbecker1, Tricia St Hilaire MPH,2 Jeff Pawelek BS3, George Thompson MD,4 Michael Vitale MD MPH5, Children's Spine Study Group, Growing Spine Study Group
155	Spinal Muscular Atrophy: Growing Spinal Instrumentation Preserves Lung Volumes and Maintains Quality Of Life	SRS 2016	POSTER	Nicholas Feinberg, Hiroko Matsumoto, Zachary Bloom, John Flynn, Peter Sturm, Sumeet Garg, David Roye, Michael Vitale, Children's Spine Study Group, Growing Spine Study Group
156	Growing Rod and Vertical Expandable Prosthetic Titanium Rib Perform Differently for Idiopathic Early Onset Scoliosis at 5-year follow-up	SRS 2016	POSTER	Malick Bachabi, Anna McClung, Jeff Pawelek, Ron El-Hawary, George Thompson, John Smith, Michael Vitale, Behrooz Akbarnia, Children's Spine Study Group, Growing Spine Study Group , Paul Sponseller
157	Early Onset Spinal Deformity in Skeletal Dysplasias: A Multi-Center Study of Growth Friendly Techniques	SRS 2016	POSTER	Klane White, Suken Shah, Viviana Bompadre, Gregory Redding, Walter Krengel, William Mackenzie, Children's Spine Study Group, Growing Spine Study Group
158	Radiographic outcome differences in growing rod constructs using tandem vs. wedding band connectors	SRS 2016	POSTER	Oetgen, Matthews, Wang, Blakemore, McClung, Pawelek, Sponseller, Perez-Grueso, Akbarnia, GSSG
159	Five to Sixteen-Year Results of 201 GR Patients: Is There a Difference Between Etiologies?	ZORAB 2013	PODIUM	Akbarnia, Kabirian, Pawelek, Emans, Thompson, Skaggs, Sponseller, GSSG
160	Traditional Growing Rods Versus Magnetically Controlled Growing Rods in Early Onset Scoliosis: A Case-Matched Two Year Study	ZORAB 2013	PODIUM	Behrooz A. Akbarnia, Kenneth Cheung, Gokhan Demirkiran, Hazem Elsebaie, John Emans, Charlie Johnston, Greg Mundis, Hilali Noordeen, Jeff Pawelek, Matthew Shaw, David Skaggs, Paul Sponseller, George Thompson, Muharrem Yazici, Growing Spine Study Group