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173. Jain A, Sponseller PD, Shah SA, Samdani A, Cahill PJ, Yaszay B, Njoku DB, Abel MF, Newton PO, Marks MC, Narayanan UG. Subclassification of GMFCS Level-5 Cerebral Palsy as a Predictor of


175. Fletcher ND, Glotzbecker MP, Marks M, Newton PO. Development of consensus-based best practice guidelines (BPG) for postoperative care following posterior spinal fusion for AIS. Spine (Phila Pa 1976) SPINE Volume 42, Number 9, pp E547–E554


178. Baron S. Lonner, MD'Correspondence information about the author MD Baron S. LonnerEmail the author MD Baron S. Lonner, Yuan Ren, PhD, Peter O. Newton, MD, Suken A. Shah, MD, Amer F. Samdani, MD, Harry L. Shufflebarger, MD, Jahangir Asghar, MD, Paul Sponseller, MD, Randal R. Betz, MD, Burt Yaszay, MD. Risk Factors of Proximal Junctional Kyphosis in Adolescent Idiopathic Scoliosis—The Pelvis and Other Considerations. Spine Deformity. May 2017Volume 5, Issue 3, Pages 181–188.


180. Saba Pasha, Ph.D.; John Flynn; Paul Sponseller; Giuseppe Orlando, MD; Harms Study Group; Peter Newton; Patrick Cahill. Timing of Changes in 3D Spinal Parameters after Selective Thoracic Fusion in Lenke 1 Adolescent Idiopathic Scoliosis: 2-Year Follow-up. Accepted for publication Spine May 2017.

181. Peter Newton et al. Thoracic Idiopathic Scoliosis Severity is Highly Correlated with 3D Measures of Thoracic Kyphosis. Accepted for publication in JBJS to be published in 6/7/17 issue.

182. Yaszay Burt et al. Selective Thoracic Fusion of a Left Decompensated Main Thoracic Curve: Proceed with Caution? Accepted for publication European Spine Journal 5-24-17.

183. Newton et al. Patient Specific Risk Adjustment Improves Comparison of Infection Rates Following Posterior Fusion for Adolescent Idiopathic Scoliosis. Accepted for publication JBJS


185. Bennett JT, Samdani AF, Bastrom TP, Ames RJ, Miyanji F, Pahys JM, Marks MC, Lonner BS, Newton PO, Shufflebarger HL, Yaszay, Flynn JM, Betz RR, Cahill PJ. Factors affecting the outcomes in appearance of AIS surgery in terms of the minimal clinically important difference. Eur Spine J. (2017) 26:
1782-1788.


SUBMITTED ARTICLES (AS OF 5.19.17)


5. Jackson T, Yaszay B, Sponseller PD, Newton PO, Shah SA, Miyanji F, Harms Study Group, Cahill P. Factors Associated with Surgical Approach and Outcomes in Cerebral Palsy. Submitted for publication to Spine 5/2017

6. Pasha S, et al. 'Relationships between the Axial Derotation of the Lower Instrumented Vertebra and Uninstrumented Lumbar Curve Correction: Radiographic Outcome in Lenke 1 Adolescent Idiopathic Scoliosis with a Minimum Two-year Follow-up. Submitted Clinical Spine Surgery. 5-201

7. Five-Year Results for Lenke 1 and 2 Curves: Comparison of Anterior, Posterior Hybrid, and Posterior All Pedicle Screw Constructs. James T. Bennett, MD; Hitesh Garg, MBBS, MS; Firoz Miyanji, MD; Baron S. Lonner, MD; Robert J. Ames, MD; Michelle C. Marks, PT, MA; Randal R. Betz, MD; Peter O. Newton, MD; Amer F. Samdani, MD. Submitted to October Specialty Issue (Pediatric Spinal Deformity) of Neurosurgical Focus


BOOKS PUBLISHED BY THE HARM STUDY GROUP

Section 1:
1. Neuromuscular Scoliosis: Introduction
2. Preoperative Evaluation and Optimization
3. Nonoperative Management
4. Surgical Indications
5. Intraoperative Issues: Anesthesia, Neuromonitoring, Estimated Blood Loss

Section 2: Disease Specific
6. Scoliosis in Cerebral Palsy
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Section 3: Surgical Techniques
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Section 4: Postoperative Issues and Complications
21. Incidence of Major Complications
22. Management of Infection: Early and Late
23. Postoperative ICU Management
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1. Dickson RA: History of the Treatment of Scoliosis
2. Dickson RA: Basic Principles of Scoliosis Treatment
3. Dickson RA: Pathogenesis of Idiopathic Scoliosis
4. Dickson RA: Epidemiology of Idiopathic Scoliosis
7. Shah SA: The Case for Bracing
8. Dickson RA: The Case Against Bracing
9. Clements DH, Pahys JM, Cahill P: Classification of Adolescent Idiopathic Scoliosis for Surgical Intervention
10. Haher TR, Asghar J, Latta L, Cahill P: Biomechanics and Reduction of Scoliosis
11. Lavelle ED, Mahmoud M, Tham SW, Vadney M, Lozano S: Anesthesia for Scoliosis Surgery
12. Sucato DJ: Selective Versus Nonselective Surgery for Adolescent Idiopathic Scoliosis
13. Mulconrey DS, Lenke LG: Selection of Fusion Levels
14. Shah SA: Posterior Correction Techniques in Late-Onset Scoliosis
15. Sponseller PD and Takenaga R: The Use of Traction in Treating Large Scoliotic Curves in Idiopathic Scoliosis
16. Letko L, Jensen RG, Harms J: The Treatment of Rigid Adolescent Idiopathic Scoliosis: Releases, Osteotomies, and Apical Vertebral Column Resection
17. Newton PO and Upasani VV: Surgical Treatment of the Right Thoracic Curve Pattern
19. Shufflebarger HL, Guille JT, Yaszay B: The Surgical Treatment of Lumbar and Thoracolumbar Curve Patterns (Lenke Type 5): Anterior Versus Posterior Approach
20. Yaszay B, Lavelle WF, and Lonner BS: The Surgical Treatment of Double and Triple Curves (Lenke Types 3, 4, and 6)
23. Abel MF, O’Brien MF, Yaszay B: Spinopelvic Fixation in Idiopathic Scoliosis
24. Sansur CA, Oskouian RJ Jr, O’Brien MF, Shaffrey CI: Untreated Late-Onset Idiopathic Scoliosis and Revision Surgery in Adults
25. Khan SN, Lavelle WF, Gupta MC: Osteobiological Agents for Spinal Fusion
26. Auerbach JD, Samdani AF, Dormans JP: Electrophysiological Monitoring
27. Betz RR, Lavelle WF, Newton PO: Correction Without Fusion
PRESENTATIONS - ABSTRACTS


116. Newton, P.O., Faro, F.D., Marks, M.C., Blanke, K., Lenke, L.: Pulmonary Function in Anterior Scoliosis Surgery: Open vs Thoracoscopic Approaches. 2004 Annual Meeting of the Pediatric Orthopedic Society of


31


148. Letko Lynn et al. Results of Screw Removal After Angiographic Verification of Aortic Impression in 2 of 10 IdiopathicScoliotic VDS Patients with >10 Year Follow-Up. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.

149. Letko Lynn, et al. Results of 2 or More Year Follow-Up in 10 Thoracic Scheuermann Kyphosis Patients Treated with Ponte Osteotomies and Segmental Posterior Pedicle Screw Instrumentation. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.


157. Thomas Lowe et al. The Surgical Treatment of Lenke 2 Curves in Adolescent Idiopathic Scoliosis – Factors involved in the decision to perform a selective fusion of the main thoracic curve versus a posterior fusion of both main thoracic and proximal thoracic curves. 12th International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 7-9, 2005.


165. Chien JT, Lowe TG, Betz RR, Lenke LG, Newton PO, Clements DH, Crawford AH, Letko L: The surgical treatment of double thoracic curves in adolescent idiopathic scoliosis: factors involved in the decision to


178. David H. Clements MD; Michelle Marks PT, MA; Peter O. Newton, MD; Randal R. Betz, MD; Larry Lenke, MD; Mike O’Brien, MD; Tom Lowe, MD; Harms Study Group: Analysis of Adherence to Lenke Classification Treatment Algorithm Recommendations. International Meeting on Advanced Spine Techniques, Athens, Greece, July 13-15, 2006.


182. Peter O Newton, MD, Vidyadhar V Upasani, MD, John Tis, MD, Tracey Gaynor, MA, Jeff Pawelek, BS, Michelle Marks, PT, MA, Baron Lonner, MD, Alvin Crawford, MD: Analysis Of Sagittal Alignment In Thoracic And Thoracolumbar Curves In Adolescent Idiopathic Scoliosis: Do These Two Curve Types Differ In Sagittal Alignment? International Meeting on Advanced Spine Techniques, Athens, Greece, July 13-15, 2006.


191. David H. Clements MD; Michelle Marks PT, MA; Peter O. Newton, MD; Randal R. Betz, MD; Larry Lenke, MD; Mike O’Brien, MD; Tom Lowe, MD; Harms Study Group: Analysis of Adherence to Lenke Classification Treatment Algorithm Recommendations. Scoliosis Research Society annual meeting, Monterey, California, Sept. 13-16, 2006.


195. Stefan Parent, MD, PhD, Tim Odelle, Michelle Wedemeyer, Andrew Mahar MS, Peter Newton, MD: Does the Direction of Pedicle Crew Rotation Affect the Biomechanics of Direct Tranverse Plane Vertebral Derotation? Scoliosis Research Society annual meeting, Monterey, California, Sept. 13-16, 2006.


199. Newton, Perry, Bastrom, Lenke, Betz, Clements, D’Andrea. Predictors of change in Post-operative Pulmonary Function in Adolescent Idiopathic Scoliosis – A prospective study of Two Hundred and fifty-


204. Paul Sponseller, MD; Randy Betz, MD; Peter Newton, MD; Larry Lenke, MD; Tom Lowe, MD; Alvin Crawford, MD; Barry Lonner, MD; Harms Study Group. Differences in Curve Behavior after fusion in AIS with Open TRC. International Meeting on Advanced Spine Techniques. Nassau, Bahamas July 11-14, 2007. (Poster).

205. Paul Sponseller, MD; Peter Newton, MD; Oheneba Boachie, MD; Jack Flynn, MD; Linda D’Andrea, MD; Keith Bridwell, MD; Munish Gupta, MD. Comparison of Severe Scoliosis treated with or without Halo Traction. International Meeting on Advanced Spine Techniques. Nassau, Bahamas July 11-14, 2007. (Podium).


208. Thomas G. Lowe, MD; Jui-Teng Chien, MD; Randal Betz, MD; Lawrence Lenke, MD; Peter Newton, MD; David Clements, MD; Breton G. Line, BSc. A Retrospective Radiographic and Clinical Comparison of Adolescent Idiopathic Double Thoracic (Lenke II) Curves Treated by Selective Anterior Instrumentation and Fusion of the Main Thoracic Curve Versus Posterior Instrumentation and Fusion of Both Curves. International Meeting on Advanced Spine Techniques. Nassau, Bahamas July 11-14, 2007. (Poster).


239. Lawrence G. Lenke, MD; Kathy Blanke, RN; Randal R. Betz, MD; Peter O. Newton, MD; Alvin H. Crawford, MD; Thomas G. Lowe, MD; David H. Clements III, MD; and The Harms Study Group. Comparison of Lowest Instrumented Vertebra (LIV) Selection in Lenke 1 Main Thoracic Adolescent Idiopathic Scoliosis Curves by the Surgical Approach: A minimum 5-year Follow-up Study. International Meeting on Advanced Spine Techniques. Nassau, Bahamas July 11-14, 2007. (Poster).

240. Lawrence G. Lenke, MD; Randal R. Betz, MD; Peter O. Newton, MD; David H. Clements III, MD; Thomas G. Lowe, MD; MD; Alvin H. Crawford, MD; Kathy M. Blanke, RN; and members of The Harms Study Group. Radiographic and Surgeon-Rationale for NOT Performing a Selective Thoracic Fusion in Lenke 1C Adolescent Idiopathic Scoliosis Curves. International Meeting on Advanced Spine Techniques. Nassau, Bahamas July 11-14, 2007. (Poster).


244. Paul Sponseller, MD; Randy Betz, MD; Peter Newton, MD; Larry Lenke, MD; Tom Lowe, MD; Alvin Crawford, MD; Barry Lonner, MD; Harms Study Group. Differences in Curve Behavior after fusion in AIS with Open TRC. Scoliosis Research Society Annual Meeting. Edinburgh, Scotland. September 6-8, 2007. (Podium).


270. Dan Sucato et al. Patients Who Have a Selective Thoracic Fusion for Lenke 1 and 2 Curves Have Similar Coronal Balance But Improved Functional Outcome Scores at Two Years When Compared to Those Fused into the Lumbar Spine. American Academy of Orthopaedic Surgeons annual meeting, San Francisco, CA March 5-9, 2008. (podium)


274. Peter Newton et al. Adolescent Idiopathic Scoliosis Patients Report Increased Pain at 5 Years Compared to 2 Years after Surgical Treatment. American Academy of Orthopaedic Surgeons annual meeting, San Fransisco, CA March 5-9, 2008 (poster)

275. Peter Newton et al. The Isolated Effect of a Scoliosis Fusion on SRS Outcomes Questionnaire Measures is Modest. American Academy of Orthopaedic Surgeons annual meeting, San Fransisco, CA March 5-9, 2008 (poster)

277. Lynn Letko et al. The Role of Halo Extension in the Treatment of AIS. North German Orthopedic Association, Germany, June 2008. (podium)


296. Peter Newton et al. Post operative trunk flexibility loss is modest but incremental as the fusion progresses distally. International Meeting on Advanced Spine Techniques, Hong Kong, China. July 8-11, 2008. (e-poster)


302. Randy Betz et al. Surgical Trunk Rotation Correction in Patients with Moderate Thoracic AIS (< 75°): An All Pedicle Screw Construct with Derotation is Better than Thoracoplasty. International Meeting on Advanced Spine Techniques, Hong Kong, China. July 8-11, 2008. (e-poster)


336. Suken Shah et al. Pelvic Fixation in Cerebral Palsy Scoliosis Results in Better Restoration of Pelvic Obliquity, Sitting Ability and a Lower Reoperation Rate: Do the Benefits Outweigh the Costs? Pediatric Orthopedic Society of North America annual meeting, Boston, MA April 29 – May 1, 2009. (poster)


362. Michelle Marks et al. A more distal fusion is associated with increased motion at L4/L5 Scoliosis Research Society Annual Meeting. San Antonio, TX. September 23-26, 2009 (podium)


381. Marks et al. A more distal fusion is associated with increased motion at L4/L5: A set up for degeneration? Pediatric Orthopedic Society of North America annual meeting, Waikola, Hawaii May 4-7, 2010. (podium)


388. Clements et al. The effect on pedicle screw pullout strength of optimizing pedicle fill using a tool to size and dilate the pedicle. International Meeting on Advanced Spine Techniques, Toronto Canada July 21-24, 2010 (podium)


403. Samdani et al. Direct vertebral body derotation, thoracoplasty or both: which is better with respect to inclinometer and SRS-22 scores? International Meeting on Advanced Spine Techniques, Toronto Canada July 21-24, 2010 (podium)


419. Samdani et al. Direct vertebral body derotation, thoracoplasty or both: which is better with respect to inclinometer and SRS-22 scores? Scoliosis Research Society Annual Meeting. Kyoto Japan Sept. 22-25, 2010. (poster)


426. Flynn et al. What is different after surgery for AIS patients who enjoy a “minimal clinically important difference” (MCID)? American Academy of Pediatrics Annual Meeting. San Francisco, CA October 2-5, 2010. (podium)


434. Hwang, Samdani, Lonner, Newton, Marks, Bastrom, Betz, Cahill. Direct vertebral body derotation, thoracoplasty or both: which is better with respect to inclinometer and SRS-22 scores? American Academy of Neurosurgeons Annual Meeting. Phoenix, AZ Mar 9-11, 2011 (poster).


441. Narayanan, Sponseller, Weir, Marks, Newton, HSG. Sensitivity of the CPCHILD Questionnaire to change following surgery for scoliosis in children with severe cerebral palsy. European Pediatric Orthopedic Society Annual Meeting Switzerland Apr 6-9, 2011. (podium)


Marks, Bastrom, Petcharaporn, Betz, Shufflebarger, Lonner, Shah, Newton. Trunk motion improves over time after spinal fusion for AIS. International Meeting on Advanced Spine Techniques, July 13-16 2011 Copenhagen, Denmark (poster).


Samdani, Marks, Bastrom, Cahill, Garg, Lonner, Shah, Miyanji, Shufflebarger, Newton, Betz. Treatment of AIS with All Pedicle Screw Constructs with Minimum 5 year Follow up. International Meeting on Advanced Spine Techniques, July 13-16 2011 Copenhagen, Denmark (poster).


Sponseller, Newton, Shah, Bastrom, Marks HSG. Differences Between Patients who Choose Operative versus Nonoperative Management of AIS. International Meeting on Advanced Spine Techniques, July 13-16 2011 Copenhagen, Denmark (poster).

P. Sponseller, S. Shah, P. Newton, A. Samdani, T. Bastrom, M. Marks, HSG. Differences Between Patients with Cerebral Palsy whose Curves are treated Operatively versus Nonoperatively. International Meeting on Advanced Spine Techniques, July 13-16 2011 Copenhagen, Denmark (podium).


514. Lonner, Baron S.; Toombs, Courtney; Shah, Suken A.; Bastrom, Tracey; Penn, Phedra; Bright, Kristin; Scharf, Carrie; Roy-Beaudry, Marjolaine; Beausejour, Marie; Parent, Stefan. Validation of TAASQ, the Truncal Anterior Asymmetry Scoliosis Questionnaire. International Meeting on Advanced Spine Techniques, July 18-21, 2012 Istanbul, Turkey (poster).


517. Hwang, Steven W.; Samdani, Amer F.; Marks, Michelle C.; Bastrom, Tracey; Garg, Hitesh; Lonner, Baron S.; Pahys, Joshua M.; Shah, Suken A.; Miyanji, Firoz; Shufflebarger, Harry L.; Newton, Peter O.; Betz, Randal R.. Outcomes of Adolescent Idiopathic Scoliosis Using Pedicle Screw Only Constructs with a Minimum of 5 Years of Follow-up. International Meeting on Advanced Spine Techniques, July 18-21, 2012 Istanbul, Turkey (poster).


522. Yaszay, Burt; Asghar, Jahangir; Bastrom, Tracey; Samdani, Amer F.; Sturm, Peter; Betz, Randal R.; Shufflebarger, Harry L.; Newton, Peter O.; Study Group, Harms. Determining Optimal Post-operative


524. Yaszay, Burt; Bastrom, Tracey; Bartley, Carrie E.; Marks, Michelle C.; Newton, Peter O.; Study Group, Harms. SRS Outcome Scores are Sensitive to Both the Occurrence and Resolution of a Complication in the Surgical Treatment of AIS. International Meeting on Advanced Spine Techniques, July 18-21, 2012 Istanbul, Turkey (poster).


526. Schulz, Jacob1; Asghar, Jahangir2; Bastrom, Tracey1; Shufflebarger, Harry L.2; Newton, Peter O.1; Yaszay, Burt1; Study Group, Harms3. Selective Thoracic Fusion in Adolescent Idiopathic Scoliosis Curves with a Lumbar modifier: Which Rules Can be Broken? Scoliosis Research Society Annual Meeting. Chicago, IL Sept. 5-8, 2012 (podium).


528. Cahill, Patrick J.; Hoashi, Jane S.; Betz, Randal R.; Bastrom, Tracey; Marks, Michelle C.; Study Group, Harms2; Samdani, Amer F. Is There Any Role for the Five-Degree Rule? Scoliosis Research Society Annual Meeting. Chicago, IL Sept. 5-8, 2012 (poster).

529. Clements, David H.; Betz, Randal R.; Newton, Peter O.; Lenke, Lawrence G.; Marks, Michelle C.; Bastrom, Tracey; Study Group, Harms. Does Following the Lenke Classification Treatment Algorithm Improve Outcomes? Scoliosis Research Society Annual Meeting. Chicago, IL Sept. 5-8, 2012 (podium).

530. Lonner, Baron S.; Toombs, Courtney; Shah, Suken A.; Bastrom, Tracey; Penn, Phedra; Bright, Kristin; Scharf, Carrie; Roy-Beaudry, Marjolaine; Beausejour, Marie; Parent, Stefan. Validation of TAASQ, the Truncal Anterior Asymmetry Scoliosis Questionnaire. Scoliosis Research Society Annual Meeting. Chicago, IL Sept. 5-8, 2012 (poster).

531. Marks, Michelle C.; Bastrom, Tracey; Petcharaporn, Maty; Shah, Suken A.; Samdani, Amer F.; Lonner, Baron S.; Miyani, Firoz; Newton, Peter O. Motion of the unfused lumbar segments remains increased up to 6 years after fusion for AIS. Scoliosis Research Society Annual Meeting. Chicago, IL Sept. 5-8, 2012 (podium).

532. Miyani, Firoz; Samdani, Amer F.; Sturm, Peter; Shah, Suken A.; Sponseller, Paul D.; Newton, Peter O. Hip Subluxation, Pelvic Obliquity, and Scoliosis in the CP population: A Random Triad or a Predictable Relationship? Scoliosis Research Society Annual Meeting. Chicago, IL Sept. 5-8, 2012 (podium).

533. Cidambi, Krishna; Bastrom, Tracey; Bartley, Carrie E.; Clements, David H.; Betz, Randal R.; Lenke, Lawrence G.; Newton, Peter O.; Study Group, Harms. Surgical Treatment of Main Thoracic Adolescent Idiopathic Scoliosis: A Prospective Ten-Year Follow-up Study. Scoliosis Research Society Annual Meeting. Chicago, IL Sept. 5-8, 2012 (podium).
534. Parent, Stefan; Roy-Beaudry, Marjolaine; Rouissi, Jihane; Mac-Thiong, Jean-Marc; Aubin, Carl-Éric; Newton, Peter O.; Shah, Suken A.; Labelle, Hubert. Surgical correction of Lenke 1A curves: What are the changes taking place in 3D? Scoliosis Research Society Annual Meeting. Chicago, IL Sept. 5-8, 2012 (podium).

535. Samdani, Amer F.; Asghar, Jahangir; Miyanji, Firoz; Marks, Michelle C.; Hoashi, Jane S.; Lonner, Baron S.; Cahill, Patrick J.; Pahys, Joshua M.; Newton, Peter O.; Betz, Randal. Recurrence of Rib Prominence Following AIS Surgery with Pedicle Screws and Direct Vertebral Body Derotation. Scoliosis Research Society Annual Meeting. Chicago, IL Sept. 5-8, 2012 (podium).

536. Samdani, Amer F.; Belin, Eric J.; Pahys, Joshua M.; Miyanji, Firoz; Cahill, Patrick J.; Shufflebarger, Harry L.; Lonner, Baron S.; Newton, Peter O.; Betz, Randal R. Unplanned Return to the Operating Room in Patients with AIS: Are We Doing Better with Pedicle Screws than with Hybrid Constructs? Scoliosis Research Society Annual Meeting. Chicago, IL Sept. 5-8, 2012 (podium).


541. Trobish, P.; Samdani A.; Betz R.; Bastrom T.; Pahys J.; Cahill P. Risk factors for loss of lumbar lordosis in patients who had surgical treatment for adolescent idiopathic scoliosis. 7th German Spine Conference. Annual Meeting of the German Spine Society 6th to 8th December 2012, Stuttgart, Germany.


543. Marks, Michelle C.; Bastrom, Tracey; Petcharaporn, Maty; Shah, Suken A.; Samdani, Amer F.; Lonner, Baron S.; Miyanji, Firoz; Newton, Peter O. Motion of the unfused lumbar segments remains increased up to 6 years after fusion for AIS. American Academy of Orthopedic Surgeons Annual Meeting. Chicago, IL March 19-22, 2013 (podium).


550. Schulz, Jacob1; Asghar, Jahangir2; Bastrom, Tracey1; Shufflebarger, Harry L.2; Newton, Peter O.1; Yaszay, Burt1; Study Group, Harms3. Selective Thoracic Fusion in Adolescent Idiopathic Scoliosis Curves with a Lumbar modifier: Which Rules Can be Broken? Pediatric Orthopedic Society of North America Annual Meeting Toronto, Ontario May 1-4, 2013 (podium).


558. Pahys, Joshua M.; Cahill, Patrick J.; Asghar, Jahangir; Betz, Randal R.; Study Group, Harms; Samdani, Amer F. Does Size Matter? Comparison of 6.35 mm vs. 5.5 mm Diameter Rods for Posterior Spinal Fusion in Adolescent Idiopathic Scoliosis. International Meeting on Advanced Spine Techniques, July 11-13, 2013 Vancouver, Canada (poster).

559. Singha, Anuj; Samdani, Amer F.; Sponseller, Paul D.; Bennett, James T.; Pahys, Joshua M.; Marks, Michelle C.; Lonner, Baron S.; Newton, Peter O.; Miyanji, Firoz; Betz, Randal R; Cahill, Patrick J. Selective Thoracic vs. Non-Selective Fusion in Lenke 3 Curves. International Meeting on Advanced Spine Techniques, July 11-13, 2013 Vancouver, Canada (podium).


567. Lonner, Baron S.; Toombs, Courtney; Shah, Suken A.; Samdani, Amer F; Cahill, Patrick J.; Shufflebarger, Harry L.; Yaszay, Burt; Sponseller, Paul D.; Newton, Peter O. Quality of Life Improvement Following Surgery for Scheuermann’s Kyphosis Compared to Adolescent Idiopathic Scoliosis. Scoliosis Research Society Annual Meeting. Lyon, France Sept. 18-21, 2013 (podium).


581. Lonner, Baron S.; Toombs, Courtney; Shah, Suken A.; Bastrom, Tracey; Penn, Phedra ; Bright, Kristin; Scharf Stern, Carrie; Roy-Beaudry, Marjolain5; Beausejour, Marie; Parent, Stefan. What an AIS Patient Sees in the Mirror: Validation of the Trunca1 Anterior Asymmetry Scoliosis Questionnaire (TAASQ). American Academy of Orthopedic Surgeons Annual Meeting. New Orleans, LA March 11-15, 2014 (poster).


587. Marks, Michelle C.; Bastrom, Tracey; Petcharaporn, Maty; Shah, Suken A.; Samdani, Amer F.; Betz, Randal R.; Lonner, Baron S.; Miyanji, Firoz; Newton, Peter O. The Effect of Time and Fusion Length on Motion of the Un-fused Lumbar Segments in Adolescent Idiopathic Scoliosis. Pediatric Orthopedic Society of North America Annual Meeting Hollywood, CA May 1-3, 2014 (podium).


630. Phillips, Yaszay, Bastrom, Shah, Lonner, Miyanji, Samdani, Parent, Asghar, Cahill, Newton: Factors predicting when L3 is not distal enough for an "ideal" result in Lenke 5 curves. AAOS annual meeting, Mar. 25-28, 2015, Las Vegas, NV (podium).


633. Cahill, Pahys, Betz, Bastrom, Marks, HSG, Samdani: Anatomy of the learning curve in AIS. POSNA annual meeting, Apr 29 – May 2, 2015, Atlanta, GA (poster).

634. Miyanji, Bastrom, Samdani, Yaszay, Asghar, Shah, Betz, Shufflebarger, Newton: The optimal surgical approach for Lenke 5 curves: is the anterior approach ready for a comeback? POSNA annual meeting, Apr 29 – May 2, 2015, Atlanta, GA (ePoster).

635. Miyanji, Yaszay, Reilly, Asghar, Cahill, Samdani: Temporary intraoperative instrumentation of lowest instrumented vertebra +1: a novel technique to help minimize extent of arthrodesis in scoliosis. POSNA annual meeting, Apr 29 – May 2, 2015, Atlanta, GA (ePoster).

636. Kim, Bastrom, Bartley, Reighard, Yaszay, Newton: A three-dimensional analysis of apical lordosis correction – the role of the Ponte osteotomy. POSNA annual meeting, Apr 29 – May 2, 2015, Atlanta, GA (podium).

637. Nishnianidze, Rogers, Pruszczynski, Yorgova, Lonner, Shah: Higher implant density does not result in increased curve correction or improved clinical outcomes in adolescent idiopathic scoliosis. POSNA annual meeting, Apr 29 – May 2, 2015, Atlanta, GA (podium).

638. Modhia, Jain, Shah, Newton, Marks, Bastrom, Miyanji, Sponseller: Long-term follow-up of deep infection in CP spine surgery: recurrence rare but lower HRQoL. POSNA annual meeting, Apr 29 – May 2, 2015, Atlanta, GA (ePoster).

639. Jain, Sponseller, Newton, Shah, Cahill, Betz, Samdani, Bastrom, Marks, HSG: Smaller patients lose a greater proportion of their blood volume during posterior spinal arthrodesis. POSNA annual meeting, Apr 29 – May 2, 2015, Atlanta, GA (ePoster).

640. Yaszay, Bastrom, Bartley, Parent, Newton: The effects of the three-dimensional deformity of adolescent idiopathic scoliosis on pulmonary function. POSNA annual meeting, Apr 29 – May 2, 2015, Atlanta, GA (podium).

641. Yaszay, Sponseller, Shah, Asghar, Miyanji, Samdani, Bartley, Newton: Performing a definitive fusion in juvenile CP patients is a good surgical option. POSNA annual meeting, Apr 29 – May 2, 2015, Atlanta, GA (podium).

642. Hollenbeck, Yaszay, Sponseller, Shah, Asghar, Abel, Miyanji, Newton: The pros and cons of operating early vs late in the progression of CP scoliosis. POSNA annual meeting, Apr 29 – May 2, 2015, Atlanta, GA (podium).
643. Phillips, Yaszay, Bastrom, Shah, Lonner, Miyanji, Samdani, Parent, Asghar, Cahill, Newton: L3 translation predicts when L3 is not distal enough for an “ideal” result in Lenke 5 curves. POSNA annual meeting, Apr 29 – May 2, 2015, Atlanta, GA (poster).

644. Cyr, Cahill, Tong, St. Hilaire, HSG, CSSG, Garg: Both VEPTR and early primary posterior spinal fusion control idiopathic scoliosis in young children. IMAST annual meeting, Jul 8-11, 2015, Kuala Lumpur, Malaysia (podium).

645. Lenke, Newton, Lehman, Kelly, Clements, Errico, Betz, Samdani, Blanke, HSG: Radiographic results of selecting the touched vertebra as the lowest instrumented vertebra in Lenke type 2 (main thoracic) & type 2 (double thoracic) curves at a minimum 5-year follow-up. IMAST annual meeting, Jul 8-11, 2015, Kuala Lumpur, Malaysia (podium).

646. Ahmed, Bastrom, Yaszay, Newton, HSG: 5-year reoperation risk and causes for revision after idiopathic scoliosis surgery. IMAST annual meeting, Jul 8-11, 2015, Kuala Lumpur, Malaysia (podium).

647. Pahys, Cahill, Newton, Betz, Sponseller, Lehman, Kelly, HSG, Samdani: Obesity markedly increases the rate of deep surgical site infections and implant failure after PSF for AIS. IMAST annual meeting, Jul 8-11, 2015, Kuala Lumpur, Malaysia (podium).


649. Samdani, Ames, Bastrom, Miyanji, Pahys, Marks, Lonner, Newton, Shufflebarger, Yaszay, Cahill, Betz: What is different about patients with AIS who achieve a minimal clinically important difference (MCID) in appearance? IMAST annual meeting, Jul 8-11, 2015, Kuala Lumpur, Malaysia (podium).

650. Shufflebarger, Lehman, Marks, Flynn, Newton, Bastrom: Adoption of a performance improvement model (PIM) significantly reduced length of stay following AIS surgery. IMAST annual meeting, Jul 8-11, 2015, Kuala Lumpur, Malaysia (podium).

651. Jain, Sponseller, Njoku, Shah, Samdani, Cahill, Betz, Newton, Marks: Complication rates after spinal surgery for AIS vary significantly based on reporting methodology: who to believe? IMAST annual meeting, Jul 8-11, 2015, Kuala Lumpur, Malaysia (podium).

652. Murphy, Upasani, Yaszay, Bastrom, Bartley, Samdani, Newton: Validation of the “substantially” touched vertebra as the lowest instrumented vertebra in thoracic major curves with AR lumbar modifiers. IMAST annual meeting, Jul 8-11, 2015, Kuala Lumpur, Malaysia (podium).

653. Yaszay, Bastrom, Sponseller, Shah, Miyanji, Asghar, Cahill, Samdani, Newton: Back pain in cerebral palsy patients is markedly reduced after spinal fusion for scoliosis. IMAST annual meeting, Jul 8-11, 2015, Kuala Lumpur, Malaysia (podium).


655. Asghar, Shufflebarger: Pulmonary function recovers to baseline 3-6 months after PSF with thoracoplasty. SRS annual meeting, Sept 30-Oct 3, 2015, Minneapolis, MN (ePoster).

657. Clements, Betz, Newton, Marks, Bastrom, HSG: Does symmetry matter in selecting fusion levels in Lenke 1 AIS? SRS annual meeting, Sept 30-Oct 3, 2015, Minneapolis, MN (podium).

658. Lehman, Shufflebarger, Marks, Flynn, Lenke, Shah, Newton: 3 year dashboard reporting and performance improvement modules (PIMs) significantly improved blood loss and operative time in AIS. SRS annual meeting, Sept 30-Oct 3, 2015, Minneapolis, MN (podium).


661. Lonner, Ren, Marks, Newton, Betz, Samdani, Lefton, Chen, Dabrowski: Radiographic markers of disc degeneration ten years following surgery for AIS. SRS annual meeting, Sept 30-Oct 3, 2015, Minneapolis, MN (ePoster).


668. Shufflebarger, Lehman, Marks, Flynn, Newton, Bastrom: Adoption of a performance improvement module (PIM) significantly reduced length of stay following AIS surgery. SRS annual meeting, Sept 30-Oct 3, 2015, Minneapolis, MN (ePoster).


671. Asghar, Shufflebarger: An increasing risk of late onset infection in the years after AIS surgery. AAOS annual meeting, Mar 1-5, 2016, Orlando, FL (podium).

672. Singla, Pahys, Asghar, Hayes, Steiner, Samdani, Sponseller, Cahill: Does implant density affect outcomes in scoliosis related to CP? AAOS annual meeting, Mar 1-5, 2016, Orlando, FL (podium).


675. Ahmed, Bastrom, Yaszay, Newton, HSG: 5-year reoperation risk and causes for revision after idiopathic scoliosis surgery. AAOS annual meeting, Mar 1-5, 2016, Orlando, FL (podium).

676. Jain, Sponseller, Cahill, Yaszay, Samdani, Njoku, Abel, Pahys, Betz, Shah, Newton, Marks: Neuromotor subclassification of GMFCS-5 predicts complications and HRQoL in patients with cerebral palsy after spine fusion. AAOS annual meeting, Mar 1-5, 2016, Orlando, FL (podium).

677. Murphy, Upasani, Yaszay, Bastrom, Bartley, Samdani, Newton: Validation of the “substantially” touched vertebra as the lowest instrumented vertebra in thoracic major curves with AR lumbar modifiers. AAOS annual meeting, Mar 1-5, 2016, Orlando, FL (EPoster).


679. Bartley, Yaszay, Bastrom, Shah, Lonner, Asghar, Miyanji, Samdani, Newton: Peri-operative and delayed major complications following surgical correction of AIS in 3530 patients. AAOS annual meeting, Mar 1-5, 2016, Orlando, FL (podium).

680. Ahmed, Bastrom, Yaszay, Newton, HSG: 5-year reoperation risk and causes for revision after idiopathic scoliosis surgery. POSNA annual meeting, Apr 27-30, 2016, Indianapolis, IN (podium).


682. Newton, Bastrom, Yaszay, Marks, HSG: 10-year outcomes in a prospective cohort of surgically treated AIS patients. POSNA annual meeting, Apr 27-30, 2016, Indianapolis, IN (podium).


686. Murphy, Upasani, Yaszay, Bastrom, Bartley, Samdani, Newton: Predictors of distal adding on in thoracic major curves in AIS. POSNA annual meeting, Apr 27-30, 2016, Indianapolis, IN (podium).

687. Yaszay, Bastrom, Sponseller, Shah, Miyanji, Asghar, Cahill, Samdani, Newton: Back pain in cerebral palsy patients is markedly reduced after spinal fusion for scoliosis. POSNA annual meeting, Apr 27-30, 2016, Indianapolis, IN (ePoster).


696. Lenke, Lehman, Lonner, Errico, Betz, Shah, Shufflebarger, Kelly, Newton. Optimal Selection of the Lowest Instrumented Vertebra for Lenke Type 5 and 6 Thoracolumbar/Lumbar Major AIS Curves at a Minimum 5 Year Follow-up. SRS, Sept 21-24, 2016, Prague, Czech Republic (podium).


720. Jain, Shah, Abel, Yaszay, Narayanan, Marks, Sponseller. Caregiver Perceptions Regarding the Relative Impact of Spinal Fusion Surgery on Quality of Life of Children with Cerebral Palsy. POSNA annual meeting, May 3-6, 2017 Barcelona, Spain (poster).


723. Fletcher, Bush, Habib, Kusumoto, Bruce, Reilly, Miyanji. Impact of an accelerated discharge pathway on early outcomes and recovery following posterior spinal fusion for AIS: A prospective comparative study. POSNA annual meeting, May 3-6, 2017 Barcelona, Spain (poster).

724. Lenke, Newton, Lehman, Kelly, Clements, Errico, Betz, Samdani, Blanke, Harms Study Group. Radiographic Results of Selecting the Touched Vertebra as the Lowest Instrumented Vertebra in Lenke Type
1 (Main Thoracic) & Type 2 (Double Thoracic) Curves at a Minimum 5-year Follow-up. Global Spine Congress, 2017.

725. Fletcher, Glotzbecker, Marks, Asghar, Yaszay, Shah, Abel, Lonner, Harms Study Group, Newton Development of consensus-based best practice guidelines (BPG) for postoperative care following posterior spinal fusion for AIS. POSNA annual meeting, May 3-6, 2017 Barcelona, Spain (podium).


732. Sponseller, Areda, Margalit. Even if Bracing fails to prevent surgery, it may benefit the lumbar spine in AIS. POSNA annual meeting, May 3-6, 2017 Barcelona, Spain (podium).


737. Lonner, Ren, Marks, Newton, Betz, Samdani, Chen, Shufflebarger, Shah, Lefton, Nasser, Dabrowski. Disc Degeneration in Unfused Caudal Motion Segments Ten Years Following Surgery for Adolescent Idiopathic
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Scoliosis. IMAST annual meeting, Jul 12-15, 2017, Cape Town, South Africa (podium). (Whitecloud nominee)

738. Lonner, Ren, Kassin. Changes in Body Shape Following Surgical Correction in AIS - Surface Topography changes are associated with Improvements in Health Related Quality of Life. IMAST annual meeting, Jul 12-15, 2017, Cape Town, South Africa (podium).


745. Milby, Yaszay, Parent, Nelson, Pahys, Samdani, Capraro, Flynn, Harms Study Group, Cahill. The thoracic curve correction ratio as a predictor of T1 tilt following correction of double thoracic (Lenke 2) idiopathic curves. SRS annual meeting, Sept. 6-9, 2017, Philadelphia, PA (poster).


750. Cahill, Miller, Flynn, Pasha, Yaszay, Parent, Asghar, Abel, Pahys, Harms Study Group, Sponseller Improving Health Related Quality of Life in Patients with Non-Ambulatory Cerebral Palsy: Who Stands to Gain from


754. Lenke, Lehman, Kelly, Vitale, Lonner, Errico, Betz, Shah, Shufflebarger, Newton, Blanke, Harms Study Group. Thoracic-Only Fusions for Double (Type 3) and Triple (Type 4) Major Curves in AIS at a Minimum 5 Year Follow-Up: Are They Possible and Durable? SRS annual meeting, Sept. 6-9, 2017, Philadelphia, PA (podium).


756. Fletcher, Murphy, Bush, Guerreso, Habib, Kusomoto, Schmitz, Miyani, Impact of an accelerated discharge pathway on early outcomes and recovery following posterior spinal fusion for adolescent idiopathic scoliosis: A prospective comparative study. SRS annual meeting, Sept. 6-9, 2017, Philadelphia, PA (podium).

