

CURRICULUM VITAE

ETAN P. SUGARMAN, MD FAAOS

Hip Arthroscopy, Preservation & Reconstruction
Shoulder, Hip, Knee
Sports Medicine & Cartilage Restoration

I. BOARD CERTIFICATION

Double Board-Certified, Orthopaedic Surgery and Sports Medicine

- o American Board of Orthopaedic Surgeons (ABOS)
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II. PROFESSIONAL EXPERIENCE

American Hip Institute • Director of Joint Preservation	2024 – Present
American Hip Institute Research Foundation • Principal Investigator	2024 – Present
Lenox Hill Hospital, Northwell Health • Attending Surgeon, Division of Sports Medicine & Hip Preservation	2017 – 2024
Zucker School of Medicine • Assistant Professor of Orthopaedic Surgery	2017 – 2024
ISHA Hip Preservation Society • Early Career Committee Member • Trainee Learning Module Development Taskforce Member	2025- Present
Los Angeles Rams, Dodgers, Kings, Sparks, and Galaxy • Fellow / Assistant Team Physician	2016-2017
Anaheim Ducks • Fellow / Assistant Team Physician	2016-2017

III. EDUCATION & TRAINING

Advanced Training	American Hip Institute (Hip Preservation and Reconstruction) Dr. Benjamin Domb Chicago, IL
Fellowship	Kerlan-Jobe Orthopaedic Clinic (Sports Medicine) Los Angeles, CA Orthopaedic Sports Medicine August 2016 – July 2017
Chief Resident	Montefiore Medical Center Bronx, NY Orthopaedic Surgery July 2015 – June 2016
Residency	Montefiore Medical Center Bronx, NY Orthopaedic Surgery July 2012 – June 2015
Internship	Montefiore Medical Center Bronx, NY Orthopaedic Surgery July 2011 – June 2012
Medical School	Albert Einstein College of Medicine Bronx, NY M.D., 2011 Honors in Research – Orthopaedic Surgery
Undergraduate	New York University New York, NY B.A., History, 2006 Magna Cum Laude Draper Scholar Phi Alpha Theta – International History Honors Society

HOSPITAL APPOINTMENTS

2024 - Present Saint Alexius Medical Center
Hoffman Estates, IL Attending Orthopaedic Surgery

2024 - Present Advocate Good Samaritan Medical Center
Downers Grove, IL Attending Orthopaedic Surgery

2024 - Present Advocate Lutheran General Hospital
Park Ridge, IL Attending Orthopaedic Surgery

2017-2024 Lenox Hill Hospital
New York, NY Attending Orthopaedic Surgery

2017-2024 Lenox Health Greenwich Village
New York, NY Attending Orthopaedic Surgery

Licensure

California #142525

New York #289302

Illinois #336.124898

Wisconsin #83389-20

Indiana #01092396B

IV. SOCIETIES

- o American Academy of Orthopaedic Surgeons (AAOS)
- o American Orthopaedic Association (AOA)
- o American Orthopaedic Society for Sports Medicine (AOSSM)
- o Arthroscopy Association of North America (AANA)
- o International Cartilage Regeneration and Joint Preservation Society (ICRS)
- o New York Cartilage Repair Society (NYCRS)
- o International Society of Hip Arthroscopy (ISHA)

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V. HONORS/AWARDS/SCIENTIFIC RECOGNITION

- 2002 New York University Draper Scholar - 2002 – 2006: Monetary Scholarship based upon academic performance.
- 2003 Dean's List: New York University, New York, NY.
- 2004 Dean's List: New York University, New York, NY.
- 2005 Dean's List: New York University, New York, NY.
- 2005 Phi Alpha Theta: International History Honors Society – Induction: New York University, New York, NY.
- 2006 Founders' Day Scholar: New York University, New York, NY.
- 2006 Dean's List: New York University, New York, NY.
- 2007 Summer Research Fellowship: The Albert Einstein College of Medicine, Bronx, NY.
- 2009 Senior Research Fellowship: The Albert Einstein College of Medicine, Bronx, NY.
- 2010 Honors in Research – Orthopaedic Surgery: The Albert Einstein College of Medicine, Bronx, NY.
- 2010 Louis Goldstein Award nomination: Beyond the Learning Curve: Does the Accuracy of Pedicle Screw Placement Improve with Experience in AIS Patients - A CT-Based Analysis of 1356 Pedicle Screws. Scoliosis Research Society, Kyoto, Japan 2010
- 2010 Outstanding Abstract: Incidence, Distribution, and Surgical Relevance of Abnormal Pedicles in Normal and Deformed Spines: A CT Based Study of 6256 Pedicles. North American Spine Society Annual Meeting, Orlando, 2010
- 2010 Best Paper: Scoliosis Surgery in Patients with Adolescent Idiopathic Scoliosis Does Not Alter Lung Volume a Three-Dimensional CT Based Study. American College of Spine Surgery Annual Meeting Contemporary Concepts in Spine Surgery, Newport Beach, California, 2010
- 2010 Best Paper: Perioperative differences between Hybrid and Pedicle Screw Instrumentation in Adolescent Idiopathic Scoliosis. American College of Spine Surgery Annual Meeting Contemporary Concepts in Spine Surgery, Newport Beach, California, 2010.
- 2011 Richard D Selznik, MD Award – Best Paper: Beyond the Learning Curve: Does the Accuracy of Pedicle Screw Placement Improve with Experience in AIS Patients - A CT-Based Analysis of 2656 Pedicle Screws. Albert Einstein College of Medicine, Bronx, New York
- 2011 Best paper, Poster category: Defining the pre-vertebral safe zone for pedicle screw placement: A strategy to avoid vascular and visceral injuries. North American Spine Society Annual meeting, October 2011, Chicago, Illinois
- 2011 Thomas Whitecloud Award: Best Paper - Basic Science: Can monitoring spinal cord blood flow (SCBF) identify pre-injury state during surgery? A porcine study correlating MEP's with LASER Doppler measurements. International Meeting of Advanced Spine Techniques, July 2011, Copenhagen, Denmark
- 2013 Young Investigator Award Winning Paper: Critical Events Before Spinal Cord Injury in a Porcine Compression Model. American Academy of Pediatrics Annual Meeting – Orthopaedic Sessions, October 2013, Orlando, Florida.

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2013	Russell A. Hibbs Award Nominee – Best Paper - Basic Science: Critical Events Before Spinal Cord Injury in a Porcine Compression Model. Scoliosis Research Society Annual Meeting, September 2013. Lyon, France.
2015	Richard D Selznik, MD Award, Best Paper: Critical Events Before Spinal Cord Injury in a Porcine Compression Model. Albert Einstein College Of Medicine, Bronx, New York
2015	American Orthopaedic Association – Resident Leadership Forum Nominee
2015	American Orthopaedic Association – Emerging Leaders Forum Nominee
2019	Reviewer – Orthopaedics Today

VI. ATHLETIC TEAM COVERAGE EXPERIENCE

2020	The Urseline School	Team Physician
2019	PGA Tour – US Open	Assistant Physician
2017	Major League Soccer Player Combine	Assistant Team Physician
2016-2017	Los Angeles Rams	Assistant Team Physician
2016-2017	Los Angeles Dodgers	Assistant Team Physician
2016-2017	Anaheim Ducks	Assistant Team Physician
2016-2017	Los Angeles Kings	Assistant Team Physician
2016-2017	Los Angeles Sparks	Assistant Team Physician
2016-2017	USC Football	Assistant Team Physician
2016-2017	Fullerton College	Assistant Team Physician
2016-2017	West Los Angeles College	Assistant Team Physician
2016-2017	Carson High School	Team Physician
2013-2016	Lehman College	Assistant Team Physician
2013-2016	Lehman High School	Assistant Team Physician
2013-2016	Truman High School	Assistant Team Physician
2013-2016	Community Board Leadership League	Assistant Team Physician
2014	New York Gauchos	Team Physician

VII. LOCAL AND NATIONAL SERVICE

2026	Reviewer- Journal of Hip Preservation Surgery
2025	ISHA – Early Career Committee Member
2025	ISHA – Trainee Learning Module Development Taskforce Member
2019	Reviewer – Orthopaedics Today
2017	Team HEAL – Providing underserves communities with team physicians for local high school teams in the Southern California Area
2015	Executive Resident – Planned orthopaedics sports medicine and trauma mission to the Dominican Republic – Hospital Jose Maria Cabral y Baez. Santiago, Dominican Republic.
2015	Executive Resident – Coordinated observership for senior and chief residents from the Dominican Republic at Montefiore Medical Center (Sports Medicine) and Jacobi Medical Center (Orthopaedic Traumatology).

VIII. SPORTS RELATED MEETINGS, CONVENTIONS AND SYMPOSIA ATTENDED

1. American Orthopaedic Society for Sports Medicine Annual Meeting, San Diego, CA 2017
2. AAOS Advanced Spring Cartilage Course, Chicago, IL 2019
3. Arthroscopy Association of North America Annual Meeting, Orlando, FL 2019
4. American Orthopaedic Society for Sports Medicine Annual Meeting, Boston, MA 2019
5. Minnesota anatomic complex knee international symposium, Minneapolis, MN 2019
6. AAOS Advanced Fall Cartilage Course, Chicago, IL 2019
7. Vail Hip Symposium, Vail, CO 2020
8. Minnesota anatomic complex knee international symposium, Minneapolis, MN 2020
9. Arthrex Hip Horizons Annual Meeting – Naples, FL 2021
10. AOSSM/ANNA Annual Meeting, Nashville, TN 2021
11. American Hip Institute Annual Alumni Meeting, Chicago, IL 2022
12. AAOS Annual Meeting, Chicago, IL 2022
13. Arthrex Hip Horizons Annual Meeting – Naples, FL 2022
14. Arthrex Orthopedic Technology and Innovations Forum – Naples, FL 2023
15. International Society for Hip Arthroscopy – Washington, D.C 2024
16. Arthrex Orthopedic Technology and Innovations Forum – Naples, FL 2025
17. (Invited Lecturer) International Society of Technology in Arthroplasty 2025. Annual Meeting. Rome, Italy. September 2025.
18. (Invited Lecturer) AAHKS & Israeli Orthopaedic Society 2025 – Zichron Yaakov, Israel.
19. (Invited Lecturer) AAOS Annual Meeting, New Orleans, LA 2026
20. (Invited Lecturer) AANA Annual Meeting, Phoenix, AZ 2026

IX. COURSE INSTRUCTION

1. AAOS Advanced Spring Cartilage Course, Chicago, IL 2019
2. AAOS Advanced Fall Cartilage Course, Chicago, IL 2019
3. AAOS Advanced Fall Cartilage Course, Chicago, IL 2022
4. Vericel MACI Resident Training Course, New York, NY 2022
5. AANA ELITE Hip Arthroscopy Course, Chicago, IL 2024
6. AANA ELITE Hip Arthroscopy Course, Chicago, IL 2025

X. CONSULTING / DISCLOSURES

1. CartiHeal, Inc: Consultant
2. Arcuro Medical, Ltd.: Consultant & Scientific Advisory Board Member

XI. PEER-REVIEWED PUBLICATIONS

1. Dual Labral and Ligamentum Teres Reconstruction Achieves High Functional Outcomes and Arthroplasty-Free Survivorship at 2 years. *Arthroscopy, Sports Medicine, and Rehabilitation*. (Ahead of Print)
2. Clinical Outcomes and Return to Sport After Hip Arthroscopy in Ice Hockey Players: Short-, Mid- and Long-Term Sub-analysis. *American Journal of Sports Medicine* (Ahead of print).
3. Hip Arthroscopy in Patients with Global Acetabular Overcoverage Demonstrates Significant 5-Year Improvements but Poses a Higher Risk of Revision Surgery Compared with Matched Controls. *Arthroscopy*. (Ahead of Print)
4. Surgical Technique for Partial-Thickness Gluteus Medius Tears: A Double-Tendon Compression Bridge Construct Double-Tendon Bridge for Partial Thickness Gluteus Medius Tears. *Arthroscopy Techniques* (Ahead of Print)
5. Flynn ME, Wallace IA, Sugarman EP, Kahana-Rojkind AH, Domb BG. The Subspine Sweep Technique for Hip Anterior Inferior Iliac Spine Extra-Articular Impingement. *Arthrosc Tech*. 2025 Nov 6;14(12):103900. doi: 10.1016/j.eats.2025.103900. PMID: 41541308; PMCID: PMC12800995.
6. Manzi JE, Dowling B, Kunze K, Trauger N, Bharam S, Sugarman EP, Nicholas SJ, Dines JS. Lead and Back Hip Flexion-Extension Excursion: A Biomechanical Analysis in High School Baseball Pitchers. *Orthop J Sports Med*. 2025 Jun 30;13(6):23259671251335979. doi: 10.1177/23259671251335979. PMID: 40607245; PMCID: PMC12214343.
7. Sugarman, E.P., Strok, M.J. and Domb, B.G. (2025), Editorial Commentary: Endoscopic Treatment of Hamstring Pathology Shows Positive Patient Outcomes. *Arthroscopy*, 41: 2382-2383. <https://doi.org/10.1016/j.arthro.2025.02.007>
8. Nasra M, Vasavada K, Yao K, Sugarman E. Arthroscopic Hip Labral Repair With Knotless FiberTak Suture Anchor. *Arthrosc Tech*. 2024 Apr 26;13(7):102996. doi: 10.1016/j.eats.2024.102996. eCollection 2024 Jul. PMID: 39100263
9. Sugarman EP, Birns ME, Fishman M, Patel DN, Goldsmith L, Greene R, Banffy MB. Clinical Outcomes Comparing Capsular Repair vs. No Repair Following Hip Arthroscopy: A Prospective, Randomized, Control Study. *Orthop J Sports Med* 2021;9, 2325967120963110.
10. Sarwahi, V., Amaral, T., Wendolowski, S., Gecelter, R., Sugarman, E., Lo, Y., Wang, D., Thornhill, B. MRIs Are Less Accurate Tools for the Most Critically Worrisome Pedicles Compared to CT Scans.

Spine Deformity. 2016 Volume 4(6) p400 – 406.

11. Pawar, A; Sugarman, E; Legatt, A; Dworkin, A; Thornhill, B; Lo, Y; Wendolowski, S; Gecelter, R; Moguilevitch, M. Triggered EMG potentials in determining neuroanatomical safe zone for transpoas lumbar approach: Are they reliable? Spine. 2016 June Vol 41(11) 647-653.
12. Chhavi Katyal, Seth Grossman, Aviva Dworkin, Lewis Singer, Terry Amaral, Etan Sugarman, Adam Wollowick, Vishal Sarwahi. Increased Risk of Infection in Obese Adolescents After Pedicle Screw Instrumentation for Idiopathic Scoliosis. Spine Deformity, Vol. 3, Issue 2, p166–171. March 2015
13. Sarwahi V, Sugarman E, Wollowick A, Amaral T, Lo Y, Thornhill B. Incidence, Distribution, and Surgical relevance of Abnormal Pedicles in Non-deformity and AIS Spines: A CT-based Study. The Journal of Bone and Joint Surgery. 2014 June 4.
14. Sarwahi V, Sugarman E, Wollowick A, Amaral T, Harmon E, Thornhill B. Scoliosis Surgery in Patients with Adolescent Idiopathic Scoliosis Does Not Alter Lung Volume: A Three-Dimensional CT Based Study. SPINE. 2014 March 15.
15. Sarwahi, V, Wollowick A, Sugarman E, Amaral TD: Minimally Invasive Surgery in Patients with Adolescent Idiopathic Scoliosis: Is it Better than the Standard Approach? A Two-Year Follow-Up Study. Journal of Spinal Disorders and Techniques.
16. Sugarman E, Sarwahi V, Amaral T, Wollowick A, Gambassi M, Seimon L. Comparative Analysis of Perioperative Differences Between Hybrid Versus Pedicle Screw Instrumentation in Adolescent Idiopathic Scoliosis. Journal of Spinal Disorders & Techniques. Mar 15 2012.
17. Sarwahi V, Wollowick AL, Sugarman EP, Horn JJ, Gambassi M, Amaral TD. Minimally invasive scoliosis surgery: an innovative technique in patients with adolescent idiopathic scoliosis. Scoliosis. 2011;6:16.
18. Wollowick A, Sugarman E, Nirenstein L, Amaral T, Thornhill B, Sarwahi V. Incidence, Distribution, and Surgical Relevance of Abnormal Pedicles in Normal and Deformed Spines: A CT-Based Study of 6256 Pedicles. The Spine Journal. 2010 Sept Volume 10, Issue 9, Supp: Pages S3-S4.
19. J. Ayello, E. Sugarman, N. Day, J. Hochberg, B. Mar, E. Cairo, C. van de Ven, M. Cairo. Enhanced Natural Killer (NK) and NK T Cell Activation, Expansion and Cytokine Protein Production following Ex-Vivo Engineering of Previously Cryopreserved Cord Blood (CB): Potential for CB NK and NK T Cells in Adoptive Cellular Immunotherapy (ACI). Biology of Blood and Marrow Transplantation. 2008 Feb Volume 14, Issue 2, Supp: Pages 42-43.

20. Ayello J, Satwani P, van de Ven C, Baxi L, Wapner R, Sugarman E, Cairo M. Enhanced Natural Killer (NK) and NK T Cell Activation, Expansion and Cytokine Protein Production following Ex-Vivo Engineering of Previously Cryopreserved Cord Blood (CB): Potential for CB NK and NK T Cells in Adoptive Cellular Immunotherapy (ACI). Blood. 2007 Nov 110(11):1206.
21. Kimura Y, Sugarman E, Walco G, Conte P, Schanberg L. Treatment of pain in juvenile idiopathic arthritis: a survey of pediatric rheumatologists. Arthritis Rheum. 2006 Feb 15;55(1):81-5.
22. Kimura Y, Sugarman E, Walco G, Conte P, Schanberg L: Treatment of pain in Juvenile Idiopathic Arthritis: a survey of pediatric rheumatologists. Arthritis Rheum. 2004 50:S98.

XII. INVITED PUBLICATIONS

1. Sugarman E, Sarwahi V. Acute Pancreatitis after Scoliosis Surgery. RTT Watch. 19 Nov. 2009. Rett Syndrome Research Trust. 6 Jan. 2010. www.rsrt.org/rttwatch/2009/11-19.html

XIII. INSTRUCTIONAL COURSE LECTURES

1. Sugarman EP, Domb BG, Christoforetti J, Maldonado D. Labral Management of the Hip: When to Repair, Augment or Reconstruct. Arthroscopy Association of North America Annual Meeting. Phoenix, Arizona. May 2026.
2. Sugarman EP, Byrd JW T, Phillipon M, Domb BG. Revision hip arthroscopy: evaluating the failed hip scope. American Academy of Orthopaedic Surgeons Annual Meeting. New Orleans, Louisiana. March 2026.
3. Sugarman EP, Rubin L, Domb BD, Shahi A. Maybe it was never the hip joint... evaluation of ongoing pain after successful hip arthroplasty. American Academy of Orthopaedic Surgeons Annual Meeting. New Orleans, Louisiana. March 2026.

XIV. INVITED VISITS/LECTURES

1. Instructor, AANA E.L.I.T.E. Hip Arthroscopy Course, Chicago, IL 2025
2. Instructor, AANA E.L.I.T.E. Hip Arthroscopy Course, Chicago, IL 2024
3. Lecturer, All Things Orthopaedics Conference, New Hyde Park, NY 2024
4. Lecturer, All Things Orthopaedics Conference, New Hyde Park, NY 2023
5. Lecturer, All Things Orthopaedics Conference, New Hyde Park, NY 2022
6. Grand Rounds Invited Speaker, Detroit Medical Center, 2022
7. Lecturer, All Things Orthopaedics Conference, New Hyde Park, NY 2021
8. Program Faculty, AAOS Advanced Knee Course, Chicago, IL 2022
9. Program Faculty, AAOS Advanced Fall Cartilage Course, Chicago, IL 2019
10. Program Faculty, AAOS Advanced Spring Cartilage Course, Chicago, IL 2019
11. Program Faculty, AAOS Advanced Fall Cartilage Course, Chicago, IL 2018

XV. BOOK CHAPTERS

1. Sugarman EP, Bomma K, Bovkis G, Schinsky MF, Domb BG. Evaluation of Ongoing Pain After Successful Hip Arthroplasty. AAOS. 2026. (In publication)
2. Sarwahi V, Amaral T. (2009). Manual of Pediatric Orthopaedics. New York. Montefiore Medical Center.

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3. Sugarman E, Banffy M. Biologic Therapy in Lateral Epicondylitis

XVI. INTERNET

1. Sugarman E, Sarwahi V. Acute Pancreatitis after Scoliosis Surgery. RTT Watch. 19 Nov. 2009. Rett Syndrome Research Trust. 6 Jan. 2010. www.rsrt.org/rttwatch/2009/11-19.html

XVII. NATIONAL/INTERNATIONAL SOCIETY PODIUM PRESENTATIONS

1. Sugarman EP, Quesada-Jimenez R, Domb BG. Short-Term Outcomes and Return-to-Sport for High-Level Athletes With Retroverted Acetabula. Arthroscopy Association of North America Annual Meeting 2026. Phoenix, Arizona. May 2026
2. Sugarman EP, Quesada-Jimenez R, Domb BG. Outcomes of adolescents with open physis and corollary analysis of duration of symptoms with match-pair analysis. Arthroscopy Association of North America Annual Meeting 2026. Phoenix, Arizona. May 2026
3. Sugarman EP, Quesada-Jimenez R, Domb BG. Midterm Outcomes of Hip Arthroscopy in Overcovered Hips. Arthroscopy Association of North America Annual Meeting 2026. Phoenix, Arizona. May 2026
4. Quesada-Jimenez R, Patel D, Reyes-Cordova A, Kahana-Rojkind A, Sugarman EP, Domb BG Labral Hip Reconstruction in Adolescents and Young Adults Yields Positive Functional Outcomes at 5-Year Follow-Up but May Pose a Higher Risk for Revision Hip Arthroscopy. Podium Presentation. ISHA – The Hip Preservation Society Annual Scientific Meeting 2025. Annual Meeting. Fukuoka, Japan. October 2025.
5. Rana K, Quesada-Jimenez R, Wallace IA, Reyes-Cordova A, Kuhns BD, Sugarman EP, Domb BG. Reporting Patients' Satisfaction with the Outcome of Orthopedic Surgery: Threshold-Based Definition May be an Unreliable Estimate of Patient Opinion. ISHA – The Hip Preservation Society Annual Scientific Meeting 2025. Annual Meeting. Fukuoka, Japan. October 2025.
6. Strok MJ, O'Brien EJ, Quesada-Jimenez R, Kahana-Rojkind A, Kuhns BD, Sugarman EP, Domb BG. Short-Term Outcomes and Return-to-Sport Rates After Primary Arthroscopic Treatment of Labral Pathology in Professional and College Athletes with Retroverted Acetabula: A Propensity-Matched Study with Comparison to Patients with Normal Acetabular Version. ISHA – The Hip Preservation Society Annual Scientific Meeting 2025. Annual Meeting. Fukuoka, Japan. October 2025.
7. Quesada-Jimenez R, Patel D, Reyes-Cordova A, Kahana-Rojkind A, Sugarman EP, Domb BG. Labral Hip Reconstruction in Adolescents and Young Adults Yields Positive Functional Outcomes at 5-Year Follow-Up but May Pose a Higher Risk for Revision Hip Arthroscopy. ISHA – The Hip Preservation Society Annual Scientific Meeting 2025. Annual Meeting. Fukuoka, Japan. October 2025.
8. Walsh EG, O'Brien EJ, Becker N, Kuhns BD, Sugarman EP, Domb BG. Short-Term Patient Reported Outcomes and Complication Rates of Hip Resurfacing After Previous Hip Arthroscopy: A Propensity-Matched Comparative Study. Podium Presentation. International Society of Technology in Arthroplasty 2025. Annual Meeting. Rome, Italy. September 2025.
9. Quesada-Jimenez R, Reyes-Cordova A, Patel D, Kahana-Rojkind A, Sugarman EP, Domb BG. Outcomes of Robotic Direct Anterior THA In Patients High Risk For Instability: A Propensity-

Matched 2-Year Study. Podium Presentation. International Society of Technology in Arthroplasty 2025. Annual Meeting. Rome, Italy. September 2025.

10. Quesada-Jimenez R, Rana K, Wallace IA, Kahana-Rojkind A, Sugarman EP, Domb BG. Comparing THA Anterior and Posterior Approaches for Gluteus Medius Repair: Outcomes at a Minimum 2-Year Follow-Up. International Society of Technology in Arthroplasty 2025. Annual Meeting. Rome, Italy. September 2025.
11. Quesada-Jimenez R, Walsh EG, Kahana-Rojkind A, Kuhns BD, Schab AR, Sugarman EP, Domb BG. Comparative Analysis of Birmingham Hip Resurfacing: Minimum 2-Year Follow-Up Clinical Outcomes in Obese vs. Non-Obese Populations. Podium Presentation. International Society of Technology in Arthroplasty 2025. Annual Meeting. Rome, Italy. September 2025.
12. Flynn ME, Rana K, Walsh EG, Becker N, Kuhns BD, Sugarman EP, Domb BG. Lumbar Spinal fusion and Decreased Acetabular Component Medialization Are Risk Factors for Gluteus Medius Injury Requiring Surgical Repair Following Total Hip Arthroplasty. International Society of Technology in Arthroplasty 2025. Annual Meeting. Rome, Italy. September 2025.
13. Kahana-Rojkind A, Sikligar, D, Quesada-Jimenez R, Walsh EG, Schinsky MF, Sugarman EP, Domb BG. Long-term functional outcomes following robotic-assisted total hip arthroplasty: A case series. Poster Presentation. International Society of Technology in Arthroplasty 2025. Annual Meeting. Rome, Italy. September 2025.
14. Sugarman EP, Domb BG. Arthroscopic Primary Labral Reconstruction in the Hip: 10-Year Outcomes With Propensity-Matched Control Group. The Kerlan-Jobe Orthopaedic Foundation Annual Meeting, Nashville, TN 2025.
15. Sugarman EP, DeGiacomo A, Greene RS, Banffy MB. Does Gender Effect Outcomes after Hip Arthroscopy? The Kerlan-Jobe Orthopaedic Foundation Annual Meeting, Toronto, Canada 2017.
16. Sugarman EP, Birns ME, Fishman M, Patel DN, Goldsmith L, Greene R, Banffy MB. Clinical Outcomes Comparing Capsular Repair vs. No Repair Following Hip Arthroscopy: A Prospective, Randomized, Control Study. The Kerlan-Jobe Orthopaedic Foundation Annual Meeting, Toronto, Canada 2017.
17. Sarwahi V, Sugarman E, Moguilevitch M, Amaral T, Thornhill B, Wollowick A, Legatt A. Critical Events Before Spinal Cord Injury in a Porcine Compression Model. American Academy of Orthopaedic Surgeons Annual Meeting, March 2017, San Diego, California
18. Vishal Sarwahi, Saankritya Ayan, Etan Sugarman, Terry Amaral, Adam Wollowick. Choosing fusion levels in Adult idiopathic scoliosis with significant degeneration and kyphosis. The Scoliosis Research Society 49th Annual Meeting. September 2014 Anchorage, Alaska.

19. Sarwahi V, Sugarman E, Dworkin A, Pawar A, Moguilevitch M, Amaral T, Thornhill B, Wollowick A, Legatt A. Critical Events Before Spinal Cord Injury in a Porcine Compression Model. Scoliosis Research Society Annual Meeting. September 2013. Lyon, France.
20. Sarwahi V, Sugarman E, Dworkin A, Pawar A, Moguilevitch M, Amaral T, Thornhill B, Wollowick A, Legatt A. Critical Events Before Spinal Cord Injury in a Porcine Compression Model. American Academy of Pediatrics Annual Meeting, October 2013, Orlando, Florida.
21. Sarwahi V, Dworkin A, Legatt A, Sugarman E, Moguilevitch M, Amaral T, Thornhill B. Neuroanatomical Safe Zone for Transpoas Lumbar Approach: A Porcine Study. American Academy of Pediatrics Annual Meeting, October 2013, Orlando, Florida.
22. Sarwahi V, Sugarman E, Dworkin A, Pawar A, Moguilevitch M, Amaral T, Thornhill B, Wollowick A, Legatt A. Critical Events Before Spinal Cord Injury in a Porcine Compression Model. North American Spine Society Annual Meeting, October 2013, New Orleans, Louisiana.
23. Sarwahi V, Dworkin A, Legatt A, Sugarman E, Moguilevitch M, Amaral T, Thornhill B. Neuroanatomical Safe Zone for Transpoas Lumbar Approach: A Porcine Study. North American Spine Society Annual Meeting, October 2013, New Orleans, Louisiana.
24. Wollowick A, Thornhill B, Amaral T, Sugarman E, Gambassi M, Sarwahi V. Aortic Pedicle Screw Impingement: The Diagnostic Accuracy of Supine CT-Scan. Pediatric Orthopaedic Society of North America, 2011. Montreal, Quebec.
25. Wollowick A, Grossman S, Amaral T, Sugarman E, Keller C, Legatt A. Can Monitoring Spinal Cord Blood Flow (SCBF) Identify Pre-Injury State During Surgery? A Porcine Study Correlating Mep's with LASER Doppler Measurements. International Meeting on Advanced Spine Techniques, Copenhagen, Denmark 2011.
26. Wollowick A, Thornhill B, Horn J, Sugarman E, Kulkarni P, Gambassi M, Sarwahi V. CT-Based Evaluation of 8661 Pedicles: What Patient and Curve Characteristics Are Associated with Abnormal Morphology In Adolescent Spinal Deformity Patients? American Academy of Pediatrics Annual Meeting, Boston, MA, 2011.
27. Thornhill B, Amaral T, Sugarman E, Horn J, Kulkarni P, Sarwahi V. The Usefulness and Limitation of MRI As An Imaging Modality for Evaluation of Pedicle Morphology and Apical Rotation. American Academy of Pediatrics Annual Meeting, Boston, MA, 2011.
28. Amaral T, Wollowick A, Kulkarni P, Thornhill B, Sugarman E, Horn J, Sarwahi V. How Commonly Are Pedicle Screws Adjacent to the Great Vessels or Viscera? A Study of 2295 Pedicle Screws. American Academy of Pediatrics Annual Meeting, Boston, MA, 2011.
29. Wollowick A, Grossman S, Amaral T, Sugarman E, Keller C, Legatt A. Can Monitoring Spinal Cord Blood Flow (SCBF) Identify Pre-Injury State During Surgery? A Porcine Study Correlating Mep's with LASER Doppler Measurements. American Academy of Pediatrics Annual Meeting, Boston, MA, 2011.

30. Sarwahi V, Wollowick A, Sugarman E, Gambassi M, Amaral T. Can Pedicle Screws Eliminate the Need for Hemivertebrae Excision. American Academy of Pediatrics Annual Meeting, Boston, MA, 2011.
31. Wollowick A, Amaral T, Horn J, Sugarman E, Gambassi M, Kulkarni P, Sarwahi V. Minimally Invasive Surgery In Patients with Adolescent Idiopathic Scoliosis: Is It Any Better Than the Standard Approach? American Academy of Pediatrics Annual Meeting, Boston, MA, 2011.
32. Amaral T, Wollowick A, Kulkarni P, Thornhill B, Suggs W, Sugarman E, Horn J, Sarwahi V. How commonly are pedicle screws adjacent to the great vessels or viscera? A study of 2295 pedicle screws. The Scoliosis Research Society 46th Annual Meeting, Louisville, Kentucky 2011.
33. Wollowick A, Amaral T, Horn J, Sugarman E, Gambassi M, Sarwahi V. Minimally invasive surgery in patients with adolescent idiopathic scoliosis: Is it any better than the standard approach? The Scoliosis Research Society 46th Annual Meeting, Louisville, Kentucky 2011.
34. Sarwahi V, Wollowick A, Grossman S, Amaral T, Kabaei F, Sugarman E, Keller C, Legatt A. The effect of lidocaine, volume expansion, pressors, and decompression on spinal cord blood flow & signal changes (MEPs): Do they really work? A porcine study. International Meeting on Advanced Spine Techniques, Copenhagen, Denmark 2011.
35. Wollowick A, Thornhill B, Amaral T, Sugarman E, Gambassi M, Sarwahi V. Aortic Pedicle Screw Impingement: The Diagnostic Accuracy of Supine CT-Scan. The Pediatric Orthopaedic Society of North American Annual Meeting, Montreal, Canada 2011.
36. Sarwahi V, Wollowick A, Sugarman E, Gambassi M, Amaral T. Can Pedicle Screws Eliminate the Need for Hemivertebrae Excision? International Federation of the Paediatric Orthopaedic Societies Triennial Congress, Seoul, Korea 2010.
37. Sarwahi V, Wollowick A, Sugarman E, Gambassi M, Amaral T. Can Pedicle Screws Eliminate the Need for Hemivertebrae Excision? The 5Th Triennial Congress of the International Federation of the Pediatric Orthopaedic Societies 2010, Seoul, Korea.
38. Sarwahi V, Amaral T, Wollowick A, Sugarman E, Nirenstein L, Thornhill B. Incidence, Distribution, and Surgical Relevance of Abnormal Pedicles in Normal and Deformed Spines: A CT Based Study of 6354 Pedicles. International Federation of the Paediatric Orthopaedic Societies Triennial Congress, Seoul, Korea 2010.
39. Wollowick A, Thornhill B, Amaral T, Sugarman E, Sarwahi V. MRI Is a Reliable, Accurate, and Safe Alternative to CT-Scan for Evaluation of Pedicle Morphology. American Academy of Orthopaedic Surgeons Annual Meeting, San Diego, CA 2011.
40. Sarwahi V, Wollowick A, Sugarman E, Gambassi M, Amaral T. Trans-Foraminal Osteotomy (TFO) A Modified Ponte Type Osteotomy for Standard or MIS Scoliosis Surgery. Society for Minimally Invasive Spine Surgery Annual Meeting, Miami, FL 2010.

41. Sarwahi V, Wollowick A, Sugarman E, Gambassi M, Amaral T. Minimally Invasive Scoliosis Surgery in Patients with Adolescent Idiopathic Scoliosis: One-Year Follow-Up Results. Society for Minimally Invasive Spine Surgery Annual Meeting, Miami, FL 2010.
42. Grossman S, Wollowick A, Sugarman E, Katyal C, Gambassi M, Amaral T, Sarwahi V. Analysis of Perioperative Parameters in Obese and Non-Obese AIS Patients Undergoing Posterior Spinal Fusion with pedicle Screw Constructs. American Academy of Pediatrics - Annual Meeting, San Francisco, CA 2010.
43. Gambassi M, Wollowick A, Sugarman E, Amaral T, Sarwahi V. Perioperative Differences Between Hybrid and Pedicle Screw Instrumentation in Adolescent Idiopathic Scoliosis. American Academy of Pediatrics - Annual Meeting, San Francisco, CA 2010.
44. Sarwahi V, Wollowick A, Sugarman E, Gambassi M, Amaral T. Can Pedicle Screws Eliminate the Need for Hemivertebrae Excision? American Academy of Pediatrics - Annual Meeting, San Francisco, CA 2010.
45. Sugarman E, Sarwahi V, Wollowick A, Gambassi M, Amaral T. Beyond the Learning Curve: Does the Accuracy of Pedicle Screw Placement Improve with Experience in AIS Patients - A CT-Based Analysis of 1356 Pedicle Screws. American Academy of Pediatrics - Annual Meeting, San Francisco, CA 2010.
46. Wollowick A, Thornhill B, Amaral T, Sugarman E, Gambassi M, Sarwahi V. Aortic Pedicle Screw Impingement: The Diagnostic Accuracy of Supine CT-Scan. American Academy of Pediatrics - Annual Meeting, San Francisco, CA 2010.
47. Beverly T, Amaral T, Sugarman E, Wollowick A, Sarwahi V. MRI Is a Reliable, Accurate, and Safe Alternative to CT Scan for Evaluation of Pedicle Morphology. American Academy of Pediatrics - Annual Meeting, San Francisco, CA 2010.
48. Wollowick A, Sugarman E, Nirenstein L, Amaral T, Thornhill B, Sarwahi V. Incidence, Distribution, and Surgical Relevance of Abnormal Pedicles in Normal and Deformed Spines: A CT Based Study of 6,256 Pedicles. American Academy of Pediatrics - Annual Meeting, San Francisco, CA 2010.
49. Roghani R, Sarwahi V, Wollowick A, Sugarman E, Gambassi M, Amaral T. Beyond the learning curve: does the accuracy of pedicle screw placement improve with experience in AIS patients. Contemporary Concepts in Spine Surgery, Newport Beach, California. 2010.
50. Farrelly E, Thornhill B, Amaral T, Wollowick A, Sugarman E, Sarwahi V. MRI is a reliable, accurate, and safe alternative to CT scan for evaluation of pedicle morphology. Contemporary Concepts in Spine Surgery, Newport Beach, California. 2010.

51. Wollowick A, Thornhill B, Amaral T, Roghani R, Sugarman E; Gambassi M, Sarwahi, V. Aortic Pedicle Screw Impingement: The Diagnostic Accuracy of Supine CT-Scan. Contemporary Concepts in Spine Surgery, Newport Beach, California. 2010.
52. Wollowick A, Sugarman E, Nirenstein L, Amaral T, Thornhill B, Sarwahi V. Incidence, Distribution, and Surgical Relevance of Abnormal Pedicles in Normal and Deformed Spines: A CT Based Study of 6,256 Pedicles. Scoliosis Research Society, Kyoto, Japan 2010.
53. Amaral T, Sugarman E, Wollowick A, Thornhill B, Sarwahi V. Scoliosis Surgery in Patients with Adolescent Idiopathic Scoliosis Does Not Alter Lung Volume: A Three Dimensional CT Based Study. Scoliosis Research Society, Kyoto, Japan 2010.
54. Wollowick A, Sugarman E, Nirenstein L, Amaral T, Thornhill B, Sarwahi V. Incidence, Distribution, and Surgical Relevance of Abnormal Pedicles in Normal and Deformed Spines: A CT Based Study of 6,256 Pedicles. North American Spine Society, Orlando, FL 2010.
55. Wollowick A, Thornhill B, Amaral T, Sugarman E, Sarwahi V. Pedicle Screws Adjacent to the Aorta: Is Prone CT Scan Helpful? North American Spine Society, Orlando, FL 2010.
56. Amaral T, Sugarman E, Wollowick A, Thornhill B, Sarwahi V. Scoliosis Surgery in A.I.S. Patients Does Not Alter Lung Volume: A Three-Dimensional CT-Based Study. North American Spine Society, Orlando, FL 2010.
57. Sugarman E, Sarwahi V, Wollowick A, Gambassi M, Amaral T. Beyond the Learning Curve: Does the Accuracy of Pedicle Screw Placement Improve with Experience in AIS Patients - A CT-Based Analysis of 1356 Pedicle Screws. International Meeting on Advanced Spine Techniques, Toronto, ON 2010.
58. Sarwahi V, Wollowick A, Sugarman E, Gambassi M, Amaral T. Can Pedicle Screws Eliminate the Need for Hemivertebrae Excision? International Meeting on Advanced Spine Techniques, Toronto, ON 2010.
59. Amaral T, Sugarman E, Wollowick A, Thornhill B, Sarwahi V. Scoliosis Surgery in Patients with Adolescent Idiopathic Scoliosis Does Not Alter Lung Volume: A Three-Dimensional CT Based Study. International Meeting on Advanced Spine Techniques, Toronto, ON 2010.
60. Wollowick, A. Does Scoliosis Surgery Change Lung Volume or Lung Asymmetry in AIS Patients. American Academy of Orthopaedic Surgeons, New Orleans, LA 2010.
61. Wollowick, A. Intraoperative Judicious Fluid Management and Blood Conserving Techniques in Scoliosis Surgery. North American Spine Society, San Francisco, CA 2009.

XVIII. SCIENTIFIC EXHIBITS/POSTERS

1. Quesada-Jimenez R, Strok MJ, Becker N, Kuhns BD, Sugarman EP, Domb BG. Offset Restoration Following Robotic Assisted Total Hip Arthroplasty Impacts Outcomes: A Sex-Specific Analysis.

International Society of Technology in Arthroplasty 2025. Annual Meeting. Rome, Italy. September 2025.

2. Quesada-Jimenez R, Walsh EG, Schab AR, Kahana-Rojkind A, Sugarman EP, Domb BG. Defining Patient Acceptable Symptom State for HHS, mHHS, HOOS-JR and FJS in Primary Total Hip Arthroplasty: A 10-Year Follow-Up Study. Poster Presentation. International Society of Technology in Arthroplasty 2025. Annual Meeting. Rome, Italy. September 2025.
3. Sugarman EP, Birns ME, Fishman M, Patel DN, Goldsmith L, Greene R, Banffy MB. Clinical Outcomes Comparing Capsular Repair vs. No Repair Following Hip Arthroscopy: A Prospective, Randomized, Control Study. American Orthopaedic Society for Sports Medicine Annual Meeting, Toronto, Canada 2017.
4. Sarwahi V, Pawar A, Dworkin AG, Sugarman EP, Moguilevitch M, Amaral TD, Thornhill B, Wollowick AL, Legatt AD. Neuroanatomical safe zone for transpoas lumbar approach: a porcine study. International Meeting on Advanced Spine Techniques, Valencia, Spain 2014.
5. Sarwahi, Vishal, Etan P. Sugarman, Aviva Dworkin, Abhijit Y. Pawar, Marina Moguilevitch, Terry D. Amaral, Beverly Thornhill, Adam L. Wollowick, Christian Keller, Alan D. Legatt: Critical Events Before Spinal Cord Injury in a Porcine Compression Model. Pediatric Orthopedic Society of North America Annual Meeting 2014
6. Amaral, Terry D; Thornhill, Beverly; Wollowick, Adam L; Grossman, Joshua; Horn, Jonathan J; Sugarman, Etan P; Kulkarni, Preethi M; Sarwahi, Vishal. CT-Based Evaluation of 8661 Pedicles: What Patient and Curve Characteristics are Associated with Abnormal Morphology? North American Spine Society, Chicago, November 2011.
7. Sarwahi V, Wollowick A, Grossman S, Amaral T, Kabaei F, Sugarman E, Keller C, Legatt A. Can monitoring spinal cord blood flow (SCBF) identify pre-injury state during surgery? International Meeting on Advanced Spine Techniques, Copenhagen, Denmark 2011.
8. Sarwahi, Vishal; Wollowick, Adam L; Grossman, Seth A; Amaral, Terry D; Kabaei, Farzin; Sugarman, Etan P; Keller, Christian; Legatt, Alan : The effect of lidocaine, volume expansion, pressors, and decompression on spinal cord blood flow & signal changes (MEPs): Do they really work? A porcine study. International Meeting on Advanced Spine Techniques, July 2011, Copenhgen, Denmark.
9. Wollowick A, Thornhill B, Amaral T, Sugarman E, Grossman J, Horn J, Sarwahi V. The Usefulness and Limitation of MRI as an Imaging Modality for Evaluation of Pedicle Morphology and Apical Rotation. International Meeting on Advanced Spine Techniques, Copenhagen, Denmark 2011.
10. Amaral, Terry D; Thornhill, Beverly; Wollowick, Adam L; Horn, Jonathan J; Sugarman, Etan P; Kulkarni, Preethi M; Sarwahi, Vishal: Is the rate of pedicle screw misplacement higher in AIS or Non-AIS deformity patients? A CT-based study of 2176 pedicle screws. International Meeting on Advanced Spine Techniques, July 2011, Copenhgen, Denmark.

11. Amaral T, Thornhill B, Shulman E, Wollowick A, Horn J, Sugarman E, Kulkarni P, Sarwahi V. Does Pedicle Morphology Change with Age - A Study of 8042 Pedicles in Normal Subjects. International Meeting on Advanced Spine Techniques, Copenhagen, Denmark 2011.
12. Amaral T, Thornhill B, Wollowick A, Grossman J, Horn J, Sugarman E, Kulkarni P, Sarwahi V. CT-Based Evaluation of 8661 Pedicles: What Patient and Curve Characteristics are Associated with Abnormal Morphology? International Meeting on Advanced Spine Techniques, Copenhagen, Denmark 2011
13. Amaral T, Thornhill B, Wollowick A, Horn J, Sugarman E, Kulkarni P, Sarwahi V. Is the rate of pedicle screw misplacement higher in AIS or Non-AIS deformity patients? A CT-based study of 2176 pedicle screws. International Meeting on Advanced Spine Techniques, Copenhagen, Denmark 2011
14. Grossman S, Wollowick A, Sugarman E, Katyal C, Gambassi M, Amaral T, Sarwahi V. Analysis of Perioperative Parameters in Obese and Non-Obese AIS Patients Undergoing Posterior Spinal Fusion with Pedicle Screw Constructs. The Pediatric Orthopaedic Society of North American Annual Meeting, Montreal, Canada 2011.
15. Sarwahi V, Wollowick A, Sugarman E, Nirenstein L, Amaral T, Thornhill B. Incidence, Distribution, and Surgical Relevance of Abnormal Pedicles in Normal and AIS Spines: A CT Based Study of 6624 Pedicles. The Pediatric Orthopaedic Society of North American Annual Meeting, Montreal, Canada 2011.
16. Sugarman E, Sarwahi V, Wollowick A, Gambassi M, Amaral T. Beyond the Learning Curve: Does the Accuracy of Pedicle Screw Placement Improve with Experience in AIS Patients - A CT-Based Analysis of 1356 Pedicle Screws. Scoliosis Research Society, Kyoto, Japan 2010.
17. Sarwahi V, Amaral T, Sugarman E, Nirenstein L, Grossman J, Thornhill B, Wollowick A. Incidence and Distribution of Abnormal Pedicles in Normal and AIS Spines: A Study of 6,370 Pedicles. American Academy of Orthopaedic Surgeons Annual Meeting, San Diego, Ca 2011.
18. Thornhill B, Amaral T, Sugarman E, Wollowick A, Sarwahi V. MRI Is a Reliable, Accurate, and Safe Alternative to CT Scan for Evaluation of Pedicle Morphology. International Congress Early Onset Scoliosis, Toronto, On 2010.
19. Amaral T, Sugarman E, Thornhill B, Wollowick A, Sarwahi V. Apical Vertebral Rotation Does Not Correlate with Improvement in Thoracic Torsion and Thoracic Cage Asymmetry in Adolescent Idiopathic Scoliosis. International Federation of the Paediatric Orthopaedic Societies Triennial Congress, Seoul, Korea 2010.
20. Sugarman E, Sarwahi V, Wollowick A, Gambassi M, Amaral T. Beyond the Learning Curve: Does the Accuracy of Pedicle Screw Placement Improve with Experience in AIS Patients: A CT-based Analysis of 1356 Pedicle Screws. International Federation of the Paediatric Orthopaedic Societies Triennial Congress, Seoul, Korea 2010.

21. Amaral T, Sugarman E, Wollowick A, Thornhill B, Sarwahi V. Scoliosis Surgery in Patients with Adolescent Idiopathic Scoliosis Does Not Alter Lung Volume: A Three Dimensional CT Based Study. International Federation of the Paediatric Orthopaedic Societies Triennial Congress, Seoul, Korea 2010.
22. Thornhill B, Amaral T, Sugarman E, Wollowick A, Sarwahi V. MRI Is a Reliable, Accurate, and Safe Alternative to CT Scan for Evaluation of Pedicle Morphology. International Federation of the Paediatric Orthopaedic Societies Triennial Congress, Seoul, Korea 2010.
23. Wollowick A, Thornhill B, Amaral T, Sugarman E, Gambassi M, Sarwahi V. Aortic Pedicle Screw Impingement: The Diagnostic Accuracy of Supine CT-Scan. International Federation of the Paediatric Orthopaedic Societies Triennial Congress, Seoul, Korea 2010.
24. Sugarman E, Amaral T, Thornhill B, Wollowick A, Sarwahi V. Apical Vertebral Rotation Does Not Correlate with Improvement in Thoracic Torsion and Thoracic Cage Asymmetry in Adolescent Idiopathic Scoliosis. Society for Minimally Invasive Spine Surgery Annual Meeting, Miami, FL 2010.
25. Grossman S, Wollowick A, Sugarman E, Katyal C, Gambassi M, Amaral T, Grossman J, Sarwahi V. Analysis of Perioperative Parameters in Obese and Non-Obese AIS Patients Undergoing Posterior Spinal Fusion with Pedicle Screw Constructs. Society for Minimally Invasive Spine Surgery Annual Meeting, Miami, FL 2010.
26. Sarwahi V, Wollowick A, Amaral T, Sugarman E, Nirenstein L, Grossman J, Thornhill B. Incidence, Distribution, and Surgical Relevance of Abnormal Pedicles in Normal and AIS Spines: A CT Based Study of 6370 Pedicles. Society for Minimally Invasive Spine Surgery Annual Meeting, Miami, FL 2010.
27. Thornhill B, Amaral T, Sugarman E, Wollowick A, Sarwahi V. MRI Is a Reliable, Accurate, and Safe Alternative to CT Scan for Evaluation of Pedicle Morphology. Society for Minimally Invasive Spine Surgery Annual Meeting, Miami, FL 2010.
28. Beverly T, Amaral T, Sugarman E, Wollowick A, Sarwahi V. MRI Is a Reliable, Accurate, and Safe Alternative to CT Scan for Evaluation of Pedicle Morphology. International Congress on Early Onset Scoliosis and Growing Spine, Toronto, Canada 2010.
29. Amaral T; Wollowick A, Roghani R, Sugarman E, Gambassi M, Sarwahi V. Perioperative Differences Between Hybrid and Pedicle Screw Instrumentation in Adolescent Idiopathic Scoliosis. Contemporary Concepts in Spine Surgery, Newport Beach, California 2010.
30. Amaral T, Wollowick A, Thornhill B, Roghani R, Sugarman E, Sarwahi V. Scoliosis Surgery in Patients with Adolescent Idiopathic Scoliosis Does Not Alter Lung Volume A Three Dimensional CT Based Study. Contemporary Concepts in Spine Surgery, Newport Beach, California. 2010.

31. Sarwahi V, Wollowick A, Farrelly E, Sugarman E, Gambassi M, Amaral T. Minimally Invasive Scoliosis Surgery in Patients with Adolescent Idiopathic Scoliosis One-Year Follow-Up Results. Contemporary Concepts in Spine Surgery, Newport Beach, California 2010.
32. Sugarman E, Sarwahi V, Wollowick A, Gambassi M, Amaral T. Beyond the Learning Curve: Does the Accuracy of Pedicle Screw Placement Improve with Experience in AIS Patients - A CT-Based Analysis of 1356 Pedicle Screws. Scoliosis Research Society, Kyoto, Japan 2010.
33. Beverly T, Amaral T, Sugarman E, Wollowick A, Sarwahi V. MRI Is a Reliable, Accurate, and Safe Alternative to CT Scan for Evaluation of Pedicle Morphology. International Meeting on Advanced Spine Techniques, Toronto, ON 2010.
34. Grossman S, Wollowick A, Sugarman E, Katyal C, Gambassi M, Amaral T, Sarwahi V. Analysis of Perioperative Parameters in Obese and Non-Obese AIS Patients Undergoing Posterior Spinal Fusion with pedicle Screw Constructs. International Meeting on Advanced Spine Techniques, Toronto, ON 2010.
35. Sarwahi V, Wollowick A, Sugarman E, Gambassi M, Amaral T. Minimally Invasive Scoliosis Surgery in Patients with Adolescent Idiopathic Scoliosis: One –Year Follow-Up Results. International Meeting on Advanced Spine Techniques, Toronto, ON 2010.
36. Amaral T, Sugarman E, Thornhill B, Wollowick A, Sarwahi V. Apical Vertebral Rotation Does Not Correlate with Improvement in Thoracic Torsion and Thoracic Cage Asymmetry in Adolescent Idiopathic Scoliosis. International Meeting on Advanced Spine Techniques, Toronto, ON 2010.
37. Wollowick A, Thornhill B, Amaral T, Sugarman E, Gambassi M, Sarwahi V. Aortic Pedicle Screw Impingement: The Diagnostic Accuracy of Supine CT-Scan. International Meeting on Advanced Spine Techniques, Toronto, ON 2010.
38. Gambassi M, Wollowick A, Sugarman E, Amaral T, Sarwahi V. Perioperative Differences Between Hybrid and Pedicle Screw Instrumentation in Adolescent Idiopathic Scoliosis. International Meeting on Advanced Spine Techniques, Toronto, ON 2010.
39. Sugarman E, Grossman S, Amaral T, Wollowick A, Gambassi M, Sarwahi V. Comparison of Perioperative Outcomes in Obese and Non-Obese Patients with Adolescent Idiopathic Scoliosis Undergoing Posterior Spinal Fusion. Albert Einstein College of Medicine Annual Symposium, Bronx, NY 2010.
40. Wollowick, A. Direct Vertebral Rotation Provides Better Three-Dimensional Correction of the Apical Vertebrae than Rod Translation in Adolescent Idiopathic Scoliosis. North American Spine Society, San Francisco, CA 2009.
41. Janet Ayello, Prakash Satwani, Carmella van de Ven, Laxmi Baxi, Ronald Wapner, Etan Sugarman and Mitchell Cairo. Enhanced Natural Killer and NK T Cell Activation, Expansion and Cytokine Protein Production Following Ex-vivo Engineering of Cryopreserved Cord

Blood: Potential Role of CB NK and NKT Cells in Adoptive Cellular Immunotherapy. American Society of Hematology 2007. Annual Conference, Atlanta Georgia, December 8, 2007.

42. Weiss, J.E. Henrickson M, Walco G, Sugarman E, Feinstein A, Kimura, Y. Combination therapy with anakinra and anti-TNF agent in refractory systemic JIA (SJIA): treatment, clinical features and outcome. American College of Rheumatology 2005. Annual Scientific Meeting, San Diego California November 14, 2005.

XIX. PUBLISHED ABSTRACTS

1. Kimura Y, Sugarman E, Walco G, Conte P, Schanberg L: Treatment of pain in Juvenile Idiopathic Arthritis: a survey of pediatric rheumatologists. Arthritis Rheum. 2004 50:S98.