



Michael Kelly, MD, MSCI

Clinical Instructor, Orthopaedic Surgery

CLINICAL OFFICE (PRIMARY)

- **Stanford Orthopaedic Spine Center in Redwood City**
420 Broadway St
Pavilion D Fl 2
Redwood City, CA 94063
Tel (650) 725-1125 **Fax** (650) 721-3409

ACADEMIC CONTACT INFORMATION

- **Alternate Contact**
Evan Mahoney - Administrative Associate III
Email emahoney@stanford.edu
Tel 650.736.4148

Bio

BIO

Dr. Michael Kelly is a board-certified, fellowship-trained orthopaedic spine surgeon with Stanford Health Care. He is also a professor in the Department of Orthopaedic Surgery, Division of Spine Surgery at Stanford University School of Medicine.

Dr. Kelly is an expert in treating complex spinal deformities in children and adults, performing advanced surgeries and revision procedures to improve pain, movement, and posture. He specializes in managing scoliosis, spondylolisthesis, kyphosis, and other challenging back and neck problems. He has completed multiple fellowships in treating complex deformities, establishing his expertise in performing three-column osteotomy for spinal realignment. Dr. Kelly provides personalized care using the latest, evidence-based approaches to help his patients achieve a better quality of life.

With a master's degree in clinical research, Dr. Kelly's clinical care is driven by his extensive research on spinal deformities and innovations in orthopaedic medicine. His research focuses on improving safety, outcomes, and recovery for spinal surgeries, particularly for spinal deformities. Dr. Kelly's work has helped define normal spinal alignment, improve surgical techniques, and better understand the long-term impacts of spinal deformity surgeries.

As a leader in orthopaedic surgery, Dr. Kelly has published hundreds of articles in peer-reviewed journals, including The New England Journal of Medicine, JAMA Surgery, The Lancet Neurology, and The Journal of Bone and Joint Surgery. He has shared his expertise at renowned international conferences, including annual meetings of the Scoliosis Research Society and the North American Spine Society (NASS). His presentations often discuss complex spinal deformities, spinal surgery techniques, and strategies to optimize patient care.

Dr. Kelly is a member of many professional organizations where he has also held leadership positions, including the Scoliosis Research Society, AO Spine, and the Cervical Spine Research Society. He is one of the few surgeons in the International Spine Study Group, dedicated to adult spinal deformity care, and the Harms Study Group, which focuses on pediatric spinal deformities.

CLINICAL FOCUS

- Orthopaedic Surgery of the Spine

ACADEMIC APPOINTMENTS

- Clinical Instructor, Orthopaedic Surgery

HONORS AND AWARDS

- Attendee, C. McCollister Evarts Resident Leadership Forum, American Orthopaedic Association
- “Best of American Academy of Orthopaedic Surgeons (AAOS)” Paper, Spine Section, AAOS Annual Meeting
- Best Poster, Tumor and Metabolic Bone Disease Section, AAOS Annual Meeting
- Clinical Research Award, First Place, Cervical Spine Research Society Annual Meeting
- Edgar Dawson Traveling Fellowship, Scoliosis Research Society (SRS)
- Excellence in Education Award, Department of Orthopaedic Surgery, WashU Medicine
- Goldstein Clinical Science Award, SRS Annual Meeting
- John H. Moe Best Basic Research E-Poster Presentation Award, SRS Annual Meeting
- Lee T. Ford Award for Academic Achievement, Department of Orthopaedic Surgery, WashU Medicine
- Louis A. Goldstein Award for Best Clinical Research Poster, SRS Annual Meeting
- Norman T. Kirk Award, Society of Military Orthopaedic Surgeons Annual Meeting
- Resident Teaching Award, Department of Orthopaedic Surgery, WashU Medicine (2017, 2018)
- Resident Writer’s Award, First Place, American Journal of Orthopedics
- Russell A. Hibbs Award for Best Basic Science Paper, SRS Annual Meeting
- Russell A. Hibbs Award for Best Clinical Paper, SRS Annual Meeting (2021, 2024)
- Senior Scholar, UMass Chan Medical School
- Thomas E. Whitecloud Award for Best Clinical Paper, International Meeting on Advanced Spine Techniques, SRS (2020, 2025)
- Value Abstract Award, North American Spine Society

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Academy of Orthopaedic Surgeons (2008 - present)
- Member, AO Spine (2013 - present)
- Member, Cervical Spine Research Society (2014 - present)
- Member, Harms Study Group (2013 - present)
- Member, International Spine Study Group (2013 - present)
- Member, North American Spine Society (2010 - present)
- Member, Scoliosis Research Society (2011 - present)

PROFESSIONAL EDUCATION

- Board Certification: Orthopaedic Surgery, American Board of Orthopaedic Surgery (2014)
- Fellowship: Washington University in St Louis School of Medicine (2014) MO
- Fellowship: Washington University in St Louis School of Medicine (2011) MO
- Residency: University of California San Francisco Orthopaedic Surgery Residency (2010) CA
- Medical Education: University of Massachusetts Medical School (2005) MA

Publications

PUBLICATIONS

- **Conflating Disability, Frailty, and Multimorbidity in Adult Spinal Deformity Patients** *SPINE*
Kelly, M. P., Lovecchio, F. C., Klineberg, E. O., Smith, J. S., Line, B., Gum, J. L., Protopsaltis, T. S., Hamilton, D., Soroceanu, A., Eastlack, R., Nunley, P., Kebaish, K. M., Lenke, et al
2026; 51 (5): 343-353
- **What Graft Should Be Used in Pediatric Posterior Spinal Fusion? Current Trends and Perspective Among Experts** *JOURNAL OF THE PEDIATRIC ORTHOPAEDIC SOCIETY OF NORTH AMERICA*
Okonkwo, D. D., Moore-Lotridge, S. N., Schoenecker, J. G., Jain, A., Hariharan, A. R., Vorhies, J. S., Yaszay, B., Louer Jr, C. R., Harms Study Grp
2026; 14
- **Saving Fusion Levels in Lenke 1/2 AR Curves: Can We Stop Short of the Last Substantially Touched Vertebra (LSTV)?** *Spine*
Brown, M. W., Hariharan, A. R., Bryan, T., Feldman, D. S., Louer, C. R., Vorhies, J. S., Murphy, J. S., Bachmann, K., Cho, R. H., Gabos, P. G., Jain, A., Lonner, B. S., Miyanji, et al
2025
- **Knowledge translation in surgery: a scoping review of implementation strategies, effectiveness and contextual barriers and enablers.** *BMC health services research*
Manafò, E., Lugo, E., Jain, A., Petermann, L., Davies, B., Hazenbiller, O., Loomans, J. I., Taha, M. M., Schnake, K. J., Kelly, M. P., Falavigna, A., Versteeg, A., Bransford, et al
2025; 26 (1): 48
- **Three-Dimensional Analysis of Disc and Vertebral Height and Their Role in Kyphosis Creation in Adolescent Idiopathic Scoliosis** *SPINE*
Oba, H., Kelly, M. P., Fletcher, N., Parent, S., Upasani, V. V., Farnsworth, C., Bartley, C. E., Yaszay, B., Shah, S. A., Miyanji, F., Newton, P. O.
2025; 50 (23): 1617-1623
- **General and Spine-Specific Sarcopenia in Adult Spinal Deformity: a Narrative Overview of Current Strengths and Limitations.** *Global spine journal*
Bui, T. T., Joseph, K., Yahanda, A. T., Findlay, A. R., Theologis, A. A., Yagi, M., Pizones, J., Walker, C., Lord, E., Eastlack, R. K., Pellisé, F., Osorio, J. A., Jones, et al
2025: 21925682251393636
- **The T4-L1-Hip Axis Objectifies the Roussouly Classification Using Continuous Measures** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Hills, J., Molina, C., Lenke, L. G., Sardar, Z. M., Le Huec, J., Hasegawa, K., Wong, H., Dennis Hey, H., Diebo, B. G., Pallotta, N. A., Kelly, M. P.
2025; 107 (15): 1717-1725
- **Alignment Goals in Adult Spinal Deformity Surgery.** *Global spine journal*
Pizones, J., Hills, J., Kelly, M. P., Alavi, F., Nuñez-Pereira, S., Smith, J. S., Sardar, Z. M., Lenke, L. G., Lewis, S. J., Pellisé, F.
2025; 15 (3_suppl): 108S-122S
- **Patient Reported Outcome Measurements in Adult Spinal Deformity: A Narrative Review** *GLOBAL SPINE JOURNAL*
Kelly, M. P., Smith, J. S., van Hooff, M.
2025; 15 (3_SUPPL): 87S-94S
- **Current Concepts on Imaging and Artificial Intelligence of Osteosarcopenia in the Aging Spine - A Review for Spinal Surgeons by the SRS Adult Spinal Deformity Task Force on Senescence.** *Spine*
Walker, C. T., Babadjouni, R., Gibbs, W., Lord, E., Gausper, A., Osorio, J., Molina, C., Jones, K., van Hooff, M., Theologis, A., Yagi, M., Blakemore, L., Shah, et al
2025
- **Musculoskeletal biomarkers in health and disease: implications for the aging spine-a review for spinal surgeons by the SRS adult spinal deformity task force on senescence.** *Spine deformity*
Azad, T. D., Li, M. W., Ping-Yeh, C., Jones, K. E., Lord, E. L., Molina, C. A., Walker, C. T., Osorio, J. A., Pizones, J., Theologis, A., van Hooff, M., Yagi, M., Kelly, et al
2025
- **Anterior release is not needed to restore kyphosis in moderate AIS with hypokyphosis.** *Spine deformity*

- Louer, C. R., Pennings, J. S., Petcharaporn, M., Hariharan, A. R., Vorhies, J. S., Kelly, M. P., Shah, S. A., Newton, P. O., Yaszay, B., Group, H. S. 2025
- **Effects of Sustained Tensile Distraction on Vertebrae and Intervertebral Disc Growth** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Salari, P., Easson, G. W. D., Broz, K. S., Kelly, M. P., Tang, S. Y.
2025; 107 (10): 1107-1115
 - **Impact of Surgical Upper Lumbar Changes on Unfused Lower Lumbar Segments in Adolescent Idiopathic Scoliosis.** *Spine*
Hariharan, A. R., Bryan, T., Nugraha, H. K., Feldman, D. S., Vorhies, J. S., Louer, C. R., Newton, P. O., Shah, S. A., Shufflebarger, H. L., Fletcher, N. D., Lonner, B. S., Kelly, M. P., Harms Study Group, et al
2024
 - **The T4-L1-Hip Axis: Sagittal Spinal Realignment Targets in Long-Construct Adult Spinal Deformity Surgery** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Hills, J., Mundis, G. M., Klineberg, E. O., Smith, J. S., Line, B., Gum, J. L., Protopsaltis, T. S., Hamilton, D., Soroceanu, A., Eastlack, R., Nunley, P., Kebaish, K. M., Lenke, et al
2024; 106 (23)
 - **Using Multimodal Assessments to Reevaluate Depression Designations for Spine Surgery Candidates** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Benedict, B., Frumkin, M., Botterbush, K., Javeed, S., Zhang, J. K., Yakdan, S., Neuman, B. J., Steinmetz, M. P., Ghogawala, Z., Kelly, M. P., Goodin, B. R., Piccirillo, J. F., Ray, et al
2024; 106 (18): 1704-1712
 - **Self-image in spinal deformity: a state-of-the-art review** *SPINE DEFORMITY*
Stone, L. E., Sindewald, R., Kelly, M. P.
2024; 12 (5): 1179-1202
 - **<i>CORR</i> Insights®: Can a Psychological Profile Predict Successful Return to Full Duty After a Musculoskeletal Injury?** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Kelly, M.
2024; 482 (4): 630-632
 - **The Effect of Implant Density on Adolescent Idiopathic Scoliosis Fusion** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Larson, A., Polly, D. W., Sponseller, P. D., Kelly, M. P., Richards, B., Garg, S., Parent, S., Shah, S. A., Weinstein, S. L., Crawford, C. H., Sanders, J. O., Blakemore, L. C., Oetgen, et al
2024; 106 (3): 180-189
 - **Disparities in indications and outcomes reporting for pediatric tethered cord surgery: The need for a standardized outcome assessment tool** *CHILDS NERVOUS SYSTEM*
Findlay, M. C., Tenhoeve, S., Terry, S. A., Iyer, R. R., Brockmeyer, D. L., Kelly, M. P., Kestle, J. R. W., Gonda, D., Ravindra, V. M.
2023: 1111-1120
 - **Defining Clinically Relevant Proximal Junctional Kyphosis.** *International journal of spine surgery*
Hills, J., Kelly, M. P.
2023; 17 (S2): S4-S8
 - **Machine Learning for Benchmarking Adolescent Idiopathic Scoliosis Surgery Outcomes** *SPINE*
Gupta, A. Y., Oh, I., Kim, S. C., Marks, M., Payne, P. P., Ames, C., Pellise, F. M., Pahys, J. D., Fletcher, N. O., Newton, P. P., Kelly, M., Harms Study Group
2023; 48 (16): 1138-1147
 - **The Thoracolumbar Inflection Point in a Population of Asymptomatic Volunteers: A Multi-Ethnic Alignment Normative Study Cohort Study** *GLOBAL SPINE JOURNAL*
Malka, M., Sardar, Z. M., Czerwonka, N., Coury, J. R., Reyes, J. L., Le Huec, J., Bourret, S., Hasegawa, K., Wong, H., Liu, G., Hey, H., Riahi, H., Kelly, et al
2025; 15 (2): 438-444
 - **Letter to the editor regarding "Robotic and navigated pedicle screws are safer and more accurate than fluoro- scopic freehand screws: a systematic review and meta- analysis" by Matur et al.** *SPINE JOURNAL*

- Greenberg, J. K., Pelle, D., Clifton, W., Javeed, S., Ray, W. Z., Kelly, M. P., Wang, J. C., Harrop, J. S., Vaccaro, A. R., Ghogawala, Z., Savage, J. W., Steinmetz, M. P.
2023; 23 (5): 1234-1235
- **SRS-22r Self-Image After Surgery for Adolescent Idiopathic Scoliosis at 10-year Follow-up** *SPINE*
Stone, L. E. V., Upasani, V. V. M., Pahys, J. M. D., Fletcher, N. D. G., George, S. G. A., Shah, S. A. P., Bastrom, T. P. E., Bartley, C. E. G., Lenke, L. G. O., Newton, P. O. P., Kelly, M. P., Harms Study Grp
2023; 48 (10): 683-687
 - **Randomized, controlled trial of two tranexamic acid dosing protocols in adult spinal deformity surgery** *SPINE DEFORMITY*
Clohisy, J. C. F., Lenke, L. G., El Dafrawy, M. H., Wolfe, R. C., Frazier, E., Kelly, M. P.
2022; 10 (6): 1399-1406
 - **Cellular immunophenotype of major spine surgery in adults** *SPINE DEFORMITY*
Turnbull, I. R., Hess, A., Fuchs, A., Frazier, E. P., Ghosh, S., Hughes, S., Kelly, M. P.
2022; 10 (6): 1375-1384
 - **Leveraging Artificial Intelligence and Synthetic Data Derivatives for Spine Surgery Research** *GLOBAL SPINE JOURNAL*
Greenberg, J. K., Landman, J. M., Kelly, M. P., Pennicooke, B. H., Molina, C. A., Foraker, R. E., Ray, W. Z.
2023; 13 (8): 2409-2421
 - **SRS-22r question 11 is a valid opioid screen and stratifies opioid consumption** *SPINE DEFORMITY*
Inclan, P., CreveCoeur, T. S., Bess, S., Gum, J. L., Line, B. G., Lenke, L. G., Kelly, M. P.
2022; 10 (4): 913-917
 - **Dysregulation of the leukocyte signaling landscape during acute COVID-19** *PLOS ONE*
Turnbull, I. R., Fuchs, A., Remy, K. E., Kelly, M. P., Frazier, E. P., Ghosh, S., Chang, S., Mazer, M. B., Hess, A., Leonard, J. M., Hoofnagle, M. H., Colonna, M., Hotchkiss, et al
2022; 17 (4): e0264979
 - **Integrin and syndecan binding peptide-conjugated alginate hydrogel for modulation of nucleus pulposus cell phenotype** *BIOMATERIALS*
Tan, X., Jain, E., Barcellona, M. N., Morris, E., Neal, S., Gupta, M. C., Buchowski, J. M., Kelly, M., Setton, L. A., Huebsch, N.
2021; 277: 121113
 - **Myelopathic Patients Undergoing Severe Pediatric Spinal Deformity Surgery Can Improve Neurologic Function to That of Non-Myelopathic Patients by 1-Year Postoperative** *GLOBAL SPINE JOURNAL*
Cerpa, M., Zuckerman, S. L., Lenke, L. G., Kelly, M. P., Yaszay, B., Newton, P., Sponseller, P., Erickson, M., Garg, S., Pahys, J., Samdani, A., Cahill, P., McCarthy, et al
2023; 13 (5): 1384-1393
 - **Translating Data Analytics Into Improved Spine Surgery Outcomes: A Roadmap for Biomedical Informatics Research in 2021** *GLOBAL SPINE JOURNAL*
Greenberg, J. K., Otun, A., Ghogawala, Z., Yen, P., Molina, C. A., Limbrick, D. D., Foraker, R. E., Kelly, M. P., Ray, W. Z.
2022; 12 (5): 952-963
 - **Patient-Reported Outcomes After Complex Adult Spinal Deformity Surgery: 5-Year Results of the Scolio-Risk-1 Study** *GLOBAL SPINE JOURNAL*
Zuckerman, S. L., Cerpa, M., Lenke, L. G., Shaffrey, C., Carreon, L. Y., Cheung, K. M. C., Kelly, M. P., Fehlings, M. G., Ames, C. P., Boachie-Adjei, O., Dekutoski, M. B., Kabeaish, K. M., Lewis, et al
2022; 12 (8): 1736-1744
 - **Occipital-Cervical Fusion and Ventral Decompression in the Surgical Management of Chiari-1 Malformation and Syringomyelia: Analysis of Data From the Park-Reeves Syringomyelia Research Consortium.** *Neurosurgery*
CreveCoeur, T. S., Yahanda, A. T., Maher, C. O., Johnson, G. W., Ackerman, L. L., Adelson, P. D., Ahmed, R., Albert, G. W., Aldana, P. R., Alden, T. D., Anderson, R. C., Baird, L., Bauer, et al
2020
 - **Neurological Complications and Recovery Rates of Patients With Adult Cervical Deformity Surgeries** *GLOBAL SPINE JOURNAL*
Kim, H., Yao, Y., Shaffrey, C., Smith, J. S., Kelly, M. P., Gupta, M., Albert, T. J., Protopsaltis, T. S., Mundis, G. M., Passias, P., Klineberg, E., Bess, S., Lafage, et al
2022; 12 (6): 1091-1097

- **Selecting the "Touched Vertebra" as the Lowest Instrumented Vertebra in Patients with Lenke Type-1 and 2 Curves** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Beauchamp, E. C., Lenke, L. G., Cerpa, M., Newton, P. O., Kelly, M. P., Blanke, K. M., Harms Study Grp Investigators
2020; 102 (22): 1966-1973
- **Global alignment and proportion (GAP) scores in an asymptomatic, nonoperative cohort: a divergence of age-adjusted and pelvic incidence-based alignment targets** *EUROPEAN SPINE JOURNAL*
Wegner, A. M., Iyer, S., Lenke, L. G., Kim, H., Kelly, M. P.
2020; 29 (9): 2362-2367
- **The Influence of Surgical Intervention and Sagittal Alignment on Frailty in Adult Cervical Deformity.** *Operative neurosurgery (Hagerstown, Md.)*
Segreto, F. A., Passias, P. G., Brown, A. E., Horn, S. R., Bortz, C. A., Pierce, K. E., Alas, H., Lafage, V., Lafage, R., Smith, J. S., Line, B. G., Diebo, B. G., Kelly, et al
2020; 18 (6): 583-589
- **Utilization of Predictive Modeling to Determine Episode of Care Costs and to Accurately Identify Catastrophic Cost Nonwarranty Outlier Patients in Adult Spinal Deformity Surgery: A Step Toward Bundled Payments and Risk Sharing.** *Spine*
Ames, C. P., Smith, J. S., Gum, J. L., Kelly, M., Vila-Casademunt, A., Burton, D. C., Hostin, R., Yeramani, S., Lafage, V., Schwab, F. J., Shaffrey, C. I., Bess, S., Pellisé, et al
2020; 45 (5): E252-E265
- **Effective Prevention of Proximal Junctional Failure in Adult Spinal Deformity Surgery Requires a Combination of Surgical Implant Prophylaxis and Avoidance of Sagittal Alignment Overcorrection.** *Spine*
Line, B. G., Bess, S., Lafage, R., Lafage, V., Schwab, F., Ames, C., Kim, H. J., Kelly, M., Gupta, M., Burton, D., Hart, R., Klineberg, E., Kebaish, et al
2020; 45 (4): 258-267
- **The Lumbosacral Takeoff Angle Can Be Used to Predict the Postoperative Lumbar Cobb Angle Following Selective Thoracic Fusion in Patients with Adolescent Idiopathic Scoliosis.** *The Journal of bone and joint surgery. American volume*
Bachmann, K. R., Lu, E., Novicoff, W. M., Newton, P. O., Abel, M. F.
2020; 102 (2): 143-150
- **Decision making in treatment of adult spinal deformity**
Bridwell, K., Buchowski, J., Gupta, M., Kelly, M., Zebala, L.
: Gupta MC, Bridwell KH (eds) *The Textbook of Spinal Surgery*, 4th edition. Philadelphia, Wolters Kluwer.
2020 937-951
- **PEDICLE SUBTRACTION OSTEOTOMY** *JBJS ESSENTIAL SURGICAL TECHNIQUES*
Gupta, M. C., Gupta, S., Kelly, M. P., Bridwell, K. H.
2020; 10 (1)
- **Mechanosensitive transcriptional coactivators MRTF-A and YAP/TAZ regulate nucleus pulposus cell phenotype through cell shape.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*
Fearing, B. V., Jing, L., Barcellona, M. N., Witte, S. E., Buchowski, J. M., Zebala, L. P., Kelly, M. P., Luhmann, S., Gupta, M. C., Pathak, A., Setton, L. A.
2019; 33 (12): 14022-14035
- **Younger Patients Are Differentially Affected by Stiffness-Related Disability Following Adult Spinal Deformity Surgery.** *World neurosurgery*
Durand, W. M., Daniels, A. H., Hamilton, D. K., Passias, P. G., Kim, H. J., Protopsaltis, T., Lafage, V., Smith, J. S., Shaffrey, C., Gupta, M., Kelly, M. P., Klineberg, E., Schwab, et al
2019; 132: e297-e304
- **Cost-effectiveness of Operative versus Nonoperative Treatment of Adult Symptomatic Lumbar Scoliosis an Intent-to-treat Analysis at 5-year Follow-up.** *Spine*
Carreon, L. Y., Glassman, S. D., Lurie, J., Shaffrey, C. I., Kelly, M. P., Baldus, C. R., Bratcher, K. R., Crawford, C. H., Yanik, E. L., Bridwell, K. H.
2019; 44 (21): 1499-1506
- **Predicting extended operative time and length of inpatient stay in cervical deformity corrective surgery.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*
Horn, S. R., Passias, P. G., Bortz, C. A., Pierce, K. E., Lafage, V., Lafage, R., Brown, A. E., Alas, H., Smith, J. S., Line, B., Deviren, V., Mundis, G. M., Kelly, et al

2019; 69: 206-213

- **Minimum five-year follow-up of posterior-only pedicle screw constructs for thoracic and thoracolumbar kyphosis.** *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*
Hwang, C. J., Lenke, L. G., Kelly, M. P., Sides, B. A., Blanke, K. M., Hershman, S.
2019; 28 (11): 2609-2618
- **Development and validation of risk stratification models for adult spinal deformity surgery.** *Journal of neurosurgery. Spine*
Pellisé, F., Serra-Burriel, M., Smith, J. S., Haddad, S., Kelly, M. P., Vila-Casademunt, A., Sánchez Pérez-Gruoso, F. J., Bess, S., Gum, J. L., Burton, D. C., Acaroğlu, E., Kleinstück, F., Lafage, et al
2019; 31 (4): 587-599
- **Effect of Serious Adverse Events on Health-related Quality of Life Measures Following Surgery for Adult Symptomatic Lumbar Scoliosis.** *Spine*
Smith, J. S., Shaffrey, C. I., Kelly, M. P., Yanik, E. L., Lurie, J. D., Baldus, C. R., Edwards, C., Glassman, S. D., Lenke, L. G., Boachie-Adjei, O., Buchowski, J. M., Carreon, L. Y., Crawford, et al
2019; 44 (17): 1211-1219
- **Thoracolumbar junction orientation: its impact on thoracic kyphosis and sagittal alignment in both asymptomatic volunteers and symptomatic patients.** *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*
Moon, H. J., Bridwell, K. H., Theologis, A. A., Kelly, M. P., Lertudomphonwanit, T., Kim, H. J., Lenke, L. G., Gupta, M. C.
2019; 28 (9): 1937-1947
- **Indicators for Nonroutine Discharge Following Cervical Deformity-Corrective Surgery: Radiographic, Surgical, and Patient-Related Factors.** *Neurosurgery*
Bortz, C. A., Passias, P. G., Segreto, F., Horn, S. R., Lafage, V., Smith, J. S., Line, B., Mundis, G. M., Kebaish, K. M., Kelly, M. P., Protosaltis, T., Sciubba, D. M., Soroceanu, et al
2019; 85 (3): E509-E519
- **The Role of Potentially Modifiable Factors in a Standard Work Protocol to Decrease Complications in Adult Spinal Deformity Surgery: A Systematic Review, Part 2.** *Spine deformity*
Sethi, R. K., Burton, D. C., Wright, A. K., Lenke, L. G., Cerpa, M., Kelly, M. P., Daniels, A. H., Ames, C. P., Klineberg, E. O., Mundis, G. M., Bess, S., Hart, R. A.
2019; 7 (5): 684-695
- **The Role of Potentially Modifiable Factors in a Standard Work Protocol to Decrease Complications in Adult Spinal Deformity Surgery: A Systematic Review, Part 1.** *Spine deformity*
Burton, D. C., Sethi, R. K., Wright, A. K., Daniels, A. H., Ames, C. P., Reid, D. B., Klineberg, E. O., Harper, R., Mundis, G. M., Hlubek, R. J., Bess, S., Hart, R. A., Kelly, et al
2019; 7 (5): 669-683
- **Radiological and clinical predictors of scoliosis in patients with Chiari malformation type I and spinal cord syrinx from the Park-Reeves Syringomyelia Research Consortium.** *Journal of neurosurgery. Pediatrics*
Strahle, J. M., Taiwo, R., Averill, C., Torner, J., Shannon, C. N., Bonfield, C. M., Tuite, G. F., Bethel-Anderson, T., Rutlin, J., Brockmeyer, D. L., Wellons, J. C., Leonard, J. R., Mangano, et al
2019: 1-8
- **Development of Deployable Predictive Models for Minimal Clinically Important Difference Achievement Across the Commonly Used Health-related Quality of Life Instruments in Adult Spinal Deformity Surgery.** *Spine*
Ames, C. P., Smith, J. S., Pellisé, F., Kelly, M. P., Gum, J. L., Alanay, A., Acaroğlu, E., Pérez-Gruoso, F. J., Kleinstück, F. S., Obeid, I., Vila-Casademunt, A., Burton, D. C., Lafage, et al
2019; 44 (16): 1144-1153
- **Should Surgery for Adult Degenerative Lumbar Deformity be Staged?** *Clinical spine surgery*
Yu, H. H., Asuma, M. P., Wallace, C. S., Kelly, M. P., Kang, D. G.
2019; 32 (7): 269-271
- **The minimum detectable measurement difference for the Scoliosis Research Society-22r in adolescent idiopathic scoliosis: a comparison with the minimum clinically important difference.** *The spine journal : official journal of the North American Spine Society*
Kelly, M. P., Lenke, L. G., Sponseller, P. D., Pahys, J. M., Bastrom, T. P., Lonner, B. S., Abel, M. F.

2019; 19 (8): 1319-1323

- **Grading of Complications After Cervical Deformity-corrective Surgery: Are Existing Classification Systems Applicable?** *Clinical spine surgery*
Bortz, C. A., Passias, P. G., Segreto, F. A., Horn, S. R., Lafage, R., Smith, J. S., Line, B. G., Mundis, G. M., Kelly, M. P., Park, P., Sciubba, D. M., Hamilton, D. K., Gum, et al
2019; 32 (6): 263-268
- **Artificial Intelligence Based Hierarchical Clustering of Patient Types and Intervention Categories in Adult Spinal Deformity Surgery: Towards a New Classification Scheme that Predicts Quality and Value.** *Spine*
Ames, C. P., Smith, J. S., Pellisé, F., Kelly, M., Alanay, A., Acaroğlu, E., Pérez-Grueso, F. J., Kleinstück, F., Obeid, I., Vila-Casademunt, A., Shaffrey, C. I., Burton, D., Lafage, et al
2019; 44 (13): 915-926
- **Cervical and Cervicothoracic Sagittal Alignment According to Roussouly Thoracolumbar Subtypes.** *Spine*
Theologis, A. A., Iyer, S., Lenke, L. G., Sides, B. A., Kim, H. J., Kelly, M. P.
2019; 44 (11): E634-E639
- **Examining the Patient-Reported Outcomes Measurement Information System versus the Scoliosis Research Society-22r in adult spinal deformity.** *Journal of neurosurgery. Spine*
Kelly, M. P., Kallen, M. A., Shaffrey, C. I., Smith, J. S., Burton, D. C., Ames, C. P., Lafage, V., Schwab, F. J., Kim, H. J., Klineberg, E. O., Bess, S.
2019; 30 (6): 801-806
- **Comparison of Single-Level Versus Multilevel Vertebral Column Resection Surgery for Pediatric Patients With Severe Spinal Deformities.** *Spine*
Hwang, C. J., Lenke, L. G., Sides, B. A., Blanke, K. M., Kelly, M. P.
2019; 44 (11): E664-E670
- **Evolution in Surgical Approach, Complications, and Outcomes in an Adult Spinal Deformity Surgery Multicenter Study Group Patient Population.** *Spine deformity*
Daniels, A. H., Reid, D. B., Tran, S. N., Hart, R. A., Klineberg, E. O., Bess, S., Burton, D., Smith, J. S., Shaffrey, C., Gupta, M., Ames, C. P., Hamilton, D. K., LaFage, et al
2019; 7 (3): 481-488
- **Comparison of Best Versus Worst Clinical Outcomes for Adult Cervical Deformity Surgery** *GLOBAL SPINE JOURNAL*
Smith, J. S., Shaffrey, C. I., Kim, H., Passias, P., Protosaltis, T., Lafage, R., Mundis, G. M., Klineberg, E., Lafage, V., Schwab, F. J., Scheer, J. K., Kelly, M., Hamilton, et al
2019; 9 (3): 303-314
- **Cost-Utility Analysis of Operative Versus Nonoperative Treatment of Thoracic Adolescent Idiopathic Scoliosis.** *Spine*
Jain, A., Marks, M. C., Kelly, M. P., Lenke, L. G., Errico, T. J., Lonner, B. S., Newton, P. O., Sponseller, P. D.
2019; 44 (5): 309-317
- **Operative Versus Nonoperative Treatment for Adult Symptomatic Lumbar Scoliosis** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Kelly, M. P., Lurie, J. D., Yanik, E. L., Shaffrey, C. I., Baldus, C. R., Boachie-Adjei, O., Buchowski, J. M., Carreon, L. Y., Crawford, C. H., Edwards, C., Errico, T. J., Glassman, S. D., Gupta, et al
2019; 101 (4): 338-352
- **Surgery for the Adolescent Idiopathic Scoliosis Patients After Skeletal Maturity: Early Versus Late Surgery.** *Spine deformity*
Lonner, B. S., Ren, Y., Bess, S., Kelly, M., Kim, H. J., Yaszay, B., Lafage, V., Marks, M., Miyanji, F., Shaffrey, C. I., Newton, P. O.
2019; 7 (1): 84-92
- **Major Complications at Two Years After Surgery Impact SRS Scores for Adolescent Idiopathic Scoliosis Patients.** *Spine deformity*
Bastrom, T. P., Yaszay, B., Shah, S. A., Miyanji, F., Lonner, B. S., Kelly, M. P., Samdani, A., Asghar, J., Newton, P. O.
2019; 7 (1): 93-99
- **Considering Spine Surgery: A Web-Based Calculator for Communicating Estimates of Personalized Treatment Outcomes.** *Spine*
Moulton, H., Tosteson, T. D., Zhao, W., Pearson, L., Mycek, K., Scherer, E., Weinstein, J. N., Pearson, A., Abdu, W., Schwarz, S., Kelly, M., McGuire, K., Milam, et al
2018; 43 (24): 1731-1738

- **Prospective Multicenter Assessment of All-Cause Mortality Following Surgery for Adult Cervical Deformity** *NEUROSURGERY*
Smith, J. S., Shaffrey, C. I., Kim, H., Passias, P., Protopsaltis, T., Lafage, R., Mundis, G. M., Klineberg, E., Lafage, V., Schwab, F. J., Scheer, J. K., Miller, E., Kelly, et al
2018; 83 (6): 1277-85
- **Anxiety in the orthopedic patient: using PROMIS to assess mental health.** *Quality of life research : an international journal of quality of life aspects of treatment, care and rehabilitation*
Beleckas, C. M., Prather, H., Guattery, J., Wright, M., Kelly, M., Calfee, R. P.
2018; 27 (9): 2275-2282
- **Rod fracture in adult spinal deformity surgery fused to the sacrum: prevalence, risk factors, and impact on health-related quality of life in 526 patients** *SPINE JOURNAL*
Lertudomphonwanit, T., Kelly, M. P., Bridwell, K. H., Lenke, L. G., McAnany, S. J., Punyarat, P., Bryan, T. P., Buchowski, J. M., Zebala, L. P., Sides, B. A., Steger-May, K., Gupta, M. C.
2018; 18 (9): 1612-1624
- **Cost-utility analysis of cervical deformity surgeries using 1-year outcome** *SPINE JOURNAL*
Poorman, G. W., Passias, P. G., Qureshi, R., Hassanzadeh, H., Horn, S., Bortz, C., Segreto, F., Jain, A., Kelly, M., Hostin, R., Ames, C., Smith, J., LaFage, et al
2018; 18 (9): 1552-1557
- **Fractional anisotropy to quantify cervical spondylotic myelopathy severity.** *Journal of neurosurgical sciences*
Murphy, R. K., Sun, P., Han, R. H., Griffin, K. J., Wagner, J., Yarbrough, C. K., Wright, N. M., Dorward, I. G., Riew, K. D., Kelly, M. P., Santiago, P., Zebala, L. P., Trinkaus, et al
2018; 62 (4): 406-412
- **Minimum Detectable Measurement Difference for Health-Related Quality of Life Measures Varies With Age and Disability in Adult Spinal Deformity: Implications for Calculating Minimal Clinically Important Difference.** *Spine*
Kelly, M. P., Kim, H. J., Ames, C. P., Burton, D. C., Carreon, L. Y., Polly, D. W., Hostin, R., Jain, A., Gum, J. L., Lafage, V., Schwab, F. J., Shaffrey, C. I., Smith, et al
2018; 43 (13): E790-E795
- **Serious Adverse Events Significantly Reduce Patient-Reported Outcomes at 2-Year Follow-up: Nonoperative, Multicenter, Prospective NIH Study of 105 Patients.** *Spine*
Pugely, A. J., Kelly, M. P., Baldus, C. R., Gao, Y., Zebala, L., Shaffrey, C., Glassman, S., Boachie-Adjei, O., Parent, S., Lewis, S., Koski, T., Edwards, C., Schwab, et al
2018; 43 (11): 747-753
- **Reoperation and complications after anterior cervical discectomy and fusion and cervical disc arthroplasty: a study of 52,395 cases** *EUROPEAN SPINE JOURNAL*
Kelly, M. P., Eliasberg, C. D., Riley, M. S., Ajiboye, R. M., SooHoo, N. F.
2018; 27 (6): 1432-1439
- **Clinical and Radiographic Outcomes After Posterior Vertebral Column Resection for Severe Spinal Deformity with Five-Year Follow-up** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Riley, M. S., Lenke, L. G., Chapman, T. M., Sides, B. A., Blanke, K. M., Kelly, M. P.
2018; 100 (5): 396-405
- **Operative Management of Adult Spinal Deformity Results in Significant Increases in QALYs Gained Compared to Nonoperative Management: Analysis of 479 Patients With Minimum 2-Year Follow-Up.** *Spine*
Scheer, J. K., Hostin, R., Robinson, C., Schwab, F., Lafage, V., Burton, D. C., Hart, R. A., Kelly, M. P., Keefe, M., Polly, D., Bess, S., Shaffrey, C. I., Smith, et al
2018; 43 (5): 339-347
- **Key Role of Preoperative Recumbent Films in the Treatment of Severe Sagittal Malalignment.** *Spine deformity*
Karikari, I. O., Lenke, L. G., Bridwell, K. H., Tauchi, R., Kelly, M. P., Sugrue, P. A., Bumpass, D. B., Elsamadicy, A. A., Adogwa, O., Lalezari, R., Koester, L., Blanke, K., Gum, et al
2018; 6 (5): 568-575
- **Health-related quality of life outcomes in complex adult spinal deformity surgery.** *Journal of neurosurgery. Spine*
Riley, M. S., Bridwell, K. H., Lenke, L. G., Dalton, J., Kelly, M. P.

2018; 28 (2): 194-200

- **Dural Tears in Adult Deformity Surgery: Incidence, Risk Factors, and Outcomes.** *Global spine journal*
Iyer, S., Klineberg, E. O., Zebala, L. P., Kelly, M. P., Hart, R. A., Gupta, M. C., Hamilton, D. K., Mundis, G. M., Sciubba, D., Ames, C. P., Smith, J. S., Lafage, V., Burton, et al
2018; 8 (1): 25-31
- **Surgical Indications in Neuromuscular Scoliosis** *NEUROMUSCULAR SPINE DEFORMITY*
Lawing, C. R., Kelly, M. P., Sponseller, P. D., Samdani, A., Newton, P., Sponseller, P., Shuffeberger, H., Betz, R.
2018: 11-19
- **Adult Spinal Deformity**
Kelly, M., Youssef, J.
AAOS Comprehensive Orthopaedic Review, 3rd Edition.
2018
- **Preoperative Evaluation and Optimization** *NEUROMUSCULAR SPINE DEFORMITY*
Kelly, M. P., Luhmann, S. J., Samdani, A., Newton, P., Sponseller, P., Shuffeberger, H., Betz, R.
2018: 2-6
- **Posterior-Only Vertebral Column Resection for Fused Spondyloptosis.** *Spine deformity*
Gum, J. L., Lenke, L. G., Mohapatra, A., Sun, S. Q., Kelly, M. P.
2018; 6 (1): 84-95
- **SRS-22R Minimum Clinically Important Difference and Substantial Clinical Benefit After Adult Lumbar Scoliosis Surgery.** *Spine deformity*
Carreon, L. Y., Kelly, M. P., Crawford, C. H., Baldus, C. R., Glassman, S. D., Shaffrey, C. I., Bridwell, K. H.
2018; 6 (1): 79-83
- **Adult Spinal Deformity Knowledge in Orthopedic Spine Surgeons: Impact of Fellowship Training, Experience, and Practice Characteristics.** *Spine deformity*
Grabel, Z. J., Hart, R. A., Clark, A. J., Park, S. H., Shaffrey, C. I., Scheer, J. K., Smith, J. S., Kelly, M. P., DePasse, J. M., Gupta, M. C., Ames, C. P., Daniels, A. H.
2018; 6 (1): 60-66
- **Incidence of Cancer in Spinal Deformity Patients Receiving High-Dose (≥40mg) Bone Morphogenetic Protein (rhBMP-2).** *Spine*
Baldus, C., Kelly, M. P., Yanik, E. L., Drake, B. F., Ahmad, A., Mesfin, A., Bridwell, K. H.
2017; 42 (23): 1785-1791
- **Despite worse baseline status depressed patients achieved outcomes similar to those in nondepressed patients after surgery for cervical deformity.** *Neurosurgical focus*
Poorman, G. W., Passias, P. G., Horn, S. R., Frangella, N. J., Daniels, A. H., Hamilton, D. K., Kim, H., Sciubba, D., Diebo, B. G., Bortz, C. A., Segreto, F. A., Kelly, M. P., Smith, et al
2017; 43 (6): E10
- **Lumbar computed tomography scans are not appropriate surrogates for bone mineral density scans in primary adult spinal deformity.** *Neurosurgical focus*
Kohan, E. M., Nemani, V. M., Hershman, S., Kang, D. G., Kelly, M. P.
2017; 43 (6): E4
- **Male sex may not be associated with worse outcomes in primary all-posterior adult spinal deformity surgery: a multicenter analysis.** *Neurosurgical focus*
Bumpass, D. B., Lenke, L. G., Gum, J. L., Shaffrey, C. I., Smith, J. S., Ames, C. P., Bess, S., Neuman, B. J., Klineberg, E., Mundis, G. M., Schwab, F., Lafage, V., Kim, et al
2017; 43 (6): E9
- **Incidence of perioperative medical complications and mortality among elderly patients undergoing surgery for spinal deformity: analysis of 3519 patients.** *Journal of neurosurgery. Spine*
Jain, A., Hassanzadeh, H., Puvanesarajah, V., Klineberg, E. O., Sciubba, D. M., Kelly, M. P., Hamilton, D. K., Lafage, V., Buckland, A. J., Passias, P. G., Protosaltis, T. S., Lafage, R., Smith, et al
2017; 27 (5): 534-539

- **Importance of patient-reported individualized goals when assessing outcomes for adult spinal deformity (ASD): initial experience with a Patient Generated Index (PGI).** *The spine journal : official journal of the North American Spine Society*
Scheer, J. K., Keefe, M., Lafage, V., Kelly, M. P., Bess, S., Burton, D. C., Hart, R. A., Jain, A., Lonner, B. S., Protopsaltis, T. S., Hostin, R., Shaffrey, C. I., Smith, et al
2017; 17 (10): 1397-1405
- **Complication rates associated with 3-column osteotomy in 82 adult spinal deformity patients: retrospective review of a prospectively collected multicenter consecutive series with 2-year follow-up.** *Journal of neurosurgery. Spine*
Smith, J. S., Shaffrey, C. I., Klineberg, E., Lafage, V., Schwab, F., Lafage, R., Kim, H. J., Hostin, R., Mundis, G. M., Gupta, M., Liabaud, B., Scheer, J. K., Diebo, et al
2017; 27 (4): 444-457
- **National Administrative Databases in Adult Spinal Deformity Surgery: A Cautionary Tale.** *Spine*
Buckland, A. J., Poorman, G., Freitag, R., Jalai, C., Klineberg, E. O., Kelly, M., Passias, P. G.
2017; 42 (16): 1248-1254
- **Adult Scoliosis Deformity Surgery: Comparison of Outcomes Between One Versus Two Attending Surgeons.** *Spine*
Gomez, J. A., Lafage, V., Sciubba, D. M., Bess, S., Mundis, G. M., Liabaud, B., Hanstein, R., Shaffrey, C., Kelly, M., Ames, C., Smith, J. S., Passias, P. G., Errico, et al
2017; 42 (13): 992-998
- **Cell Saver for Adult Spinal Deformity Surgery Reduces Cost.** *Spine deformity*
Gum, J. L., Carreon, L. Y., Kelly, M. P., Hostin, R., Robinson, C., Burton, D. C., Polly, D. W., Shaffrey, C. I., LaFage, V., Schwab, F. J., Ames, C. P., Kim, H. J., Smith, et al
2017; 5 (4): 272-276
- **Retrospective analysis underestimates neurological deficits in complex spinal deformity surgery: a Scolio-RISK-1 Study.** *Journal of neurosurgery. Spine*
Kelly, M. P., Lenke, L. G., Godzik, J., Pellise, F., Shaffrey, C. I., Smith, J. S., Lewis, S. J., Ames, C. P., Carreon, L. Y., Fehlings, M. G., Schwab, F., Shimer, A. L.
2017; 27 (1): 68-73
- **The Health Impact of Adult Cervical Deformity in Patients Presenting for Surgical Treatment: Comparison to United States Population Norms and Chronic Disease States Based on the EuroQuol-5 Dimensions Questionnaire.** *Neurosurgery*
Smith, J. S., Line, B., Bess, S., Shaffrey, C. I., Kim, H. J., Mundis, G., Scheer, J. K., Klineberg, E., O'Brien, M., Hostin, R., Gupta, M., Daniels, A., Kelly, et al
2017; 80 (5): 716-725
- **Esophageal Perforation Following Anterior Cervical Spine Surgery: Case Report and Review of the Literature.** *Global spine journal*
Hershman, S. H., Kunkle, W. A., Kelly, M. P., Buchowski, J. M., Ray, W. Z., Bumpass, D. B., Gum, J. L., Peters, C. M., Singhatanadgige, W., Kim, J. Y., Smith, Z. A., Hsu, W. K., Nassr, et al
2017; 7 (1 Suppl): 28S-36S
- **Perioperative Neurologic Complications in Adult Spinal Deformity Surgery: Incidence and Risk Factors in 564 Patients.** *Spine*
Kim, H. J., Iyer, S., Zebala, L. P., Kelly, M. P., Sciubba, D., Protopsaltis, T. S., Gupta, M., Neuman, B. J., Mundis, G. M., Ames, C. P., Smith, J. S., Hart, R., Burton, et al
2017; 42 (6): 420-427
- **Failure of Anterior Cervical, Low-Profile, Stand-Alone Screw-Plate Devices**
Kelly, M., Ray, W.
Kim et al (eds) Spinal Instrumentation.
2017 135-139
- **The Pursuit of Excellence in Forensic Psychiatry Education** *Academic Psychiatry*
Kelly, M.
2017: 780-82
- **Patient-Reported Outcomes Following the Treatment of Adult Lumbar Scoliosis**
Hershman, S., Gornet, M., Kelly, M.
Klineberg EO (eds) Adult Lumbar Scoliosis. Cham, Switzerland, Springer International Publishing.
2017 255-266

- **Impact of cost valuation on cost-effectiveness in adult spine deformity surgery.** *The spine journal : official journal of the North American Spine Society*
Gum, J. L., Hostin, R., Robinson, C., Kelly, M. P., Carreon, L. Y., Polly, D. W., Bess, R. S., Burton, D. C., Shaffrey, C. I., Smith, J. S., LaFage, V., Schwab, F. J., Ames, et al
2017; 17 (1): 96-101
- **Results of Revision Surgery for Proximal Junctional Kyphosis Following Posterior Segmental Instrumentation: Minimum 2-Year Postrevision Follow-Up.** *Spine*
Kim, Y. C., Lenke, L. G., Bridwell, K. H., Hyun, S. J., You, K. H., Kim, Y. W., Chang, H. G., Kelly, M. P., Koester, L. A., Blanke, K. M., Bumpass, D. B.
2016; 41 (24): E1444-E1452
- **Fractures of the axis: a review of pediatric, adult, and geriatric injuries.** *Current reviews in musculoskeletal medicine*
Gornet, M. E., Kelly, M. P.
2016; 9 (4): 505-512
- **Baseline Patient-Reported Outcomes Correlate Weakly With Radiographic Parameters: A Multicenter, Prospective NIH Adult Symptomatic Lumbar Scoliosis Study of 286 Patients.** *Spine*
Chapman, T. M., Baldus, C. R., Lurie, J. D., Glassman, S. D., Schwab, F. J., Shaffrey, C. I., Lafage, V., Boachie-Adjei, O., Kim, H. J., Smith, J. S., Crawford, C. H., Lenke, L. G., Buchowski, et al
2016; 41 (22): 1701-1708
- **Validity, Reliability, and Responsiveness of SRS-7 as an Outcomes Assessment Instrument for Operatively Treated Patients With Adult Spinal Deformity.** *Spine*
Jain, A., Lafage, V., Kelly, M. P., Hassanzadeh, H., Neuman, B. J., Sciubba, D. M., Bess, S., Shaffrey, C. I., Ames, C. P., Scheer, J. K., Burton, D., Gupta, M. C., Hart, et al
2016; 41 (18): 1463-8
- **Reliability of the revised Scoliosis Research Society-22 and Oswestry Disability Index (ODI) questionnaires in adult spinal deformity when administered by telephone** *SPINE JOURNAL*
Bokshan, S. L., Godzik, J., Dalton, J., Jaffe, J., Lenke, L. G., Kelly, M. P.
2016; 16 (9): 1042-1046
- **Prospective multicenter assessment of perioperative and minimum 2-year postoperative complication rates associated with adult spinal deformity surgery.** *Journal of neurosurgery. Spine*
Smith, J. S., Klineberg, E., Lafage, V., Shaffrey, C. I., Schwab, F., Lafage, R., Hostin, R., Mundis, G. M., Errico, T. J., Kim, H. J., Protosaltis, T. S., Hamilton, D. K., Scheer, et al
2016; 25 (1): 1-14
- **Adult Spinal Deformity Surgeons Are Unable to Accurately Predict Postoperative Spinal Alignment Using Clinical Judgment Alone.** *Spine deformity*
Ailon, T., Scheer, J. K., Lafage, V., Schwab, F. J., Klineberg, E., Sciubba, D. M., Protosaltis, T. S., Zebala, L., Hostin, R., Obeid, I., Koski, T., Kelly, M. P., Bess, et al
2016; 4 (4): 323-329
- **Spinolaminar Line Test as a Screening Tool for C1 Stenosis.** *Global spine journal*
Oshima, Y., Kelly, M. P., Song, K. S., Park, M. S., Chuntarapas, T., Vo, K. D., Yeom, J. S., Takeshita, K., Riew, K. D.
2016; 6 (4): 370-4
- **Outcomes of Operative and Nonoperative Treatment for Adult Spinal Deformity: A Prospective, Multicenter, Propensity-Matched Cohort Assessment With Minimum 2-Year Follow-up.** *Neurosurgery*
Smith, J. S., Lafage, V., Shaffrey, C. I., Schwab, F., Lafage, R., Hostin, R., O'Brien, M., Boachie-Adjei, O., Akbarnia, B. A., Mundis, G. M., Errico, T., Kim, H. J., Protosaltis, et al
2016; 78 (6): 851-61
- **Magnetic Resonance Imaging Biomarker of Axon Loss Reflects Cervical Spondylotic Myelopathy Severity.** *Spine*
Murphy, R. K., Sun, P., Xu, J., Wang, Y., Sullivan, S., Gamble, P., Wagner, J., Wright, N. N., Dorward, I. G., Riew, D., Santiago, P., Kelly, M. P., Trinkaus, et al
2016; 41 (9): 751-6
- **Patient Factors That Influence Decision Making: Randomization Versus Observational Nonoperative Versus Observational Operative Treatment for Adult Symptomatic Lumbar Scoliosis.** *Spine*

- Neuman, B. J., Baldus, C., Zebala, L. P., Kelly, M. P., Shaffrey, C., Edwards, C., Koski, T., Schwab, F., Glassman, S., Parent, S., Lewis, S., Lenke, L. G., Buchowski, et al
2016; 41 (6): E349-58
- **Multicenter Comparison of 3D Spinal Measurements Using Surface Topography With Those From Conventional Radiography.** *Spine deformity*
Knott, P., Sturm, P., Lonner, B., Cahill, P., Betsch, M., McCarthy, R., Kelly, M., Lenke, L., Betz, R.
2016; 4 (2): 98-103
 - **Comparison of spinal deformity in children with Chiari I malformation with and without syringomyelia: matched cohort study.** *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*
Godzik, J., Dardas, A., Kelly, M. P., Holekamp, T. F., Lenke, L. G., Smyth, M. D., Park, T. S., Leonard, J. R., Limbrick, D. D.
2016; 25 (2): 619-26
 - **The Health Impact of Symptomatic Adult Spinal Deformity: Comparison of Deformity Types to United States Population Norms and Chronic Diseases.** *Spine*
Bess, S., Line, B., Fu, K. M., McCarthy, I., Lafage, V., Schwab, F., Shaffrey, C., Ames, C., Akbarnia, B., Jo, H., Kelly, M., Burton, D., Hart, et al
2016; 41 (3): 224-33
 - **Effectiveness of preoperative autologous blood donation for protection against allogeneic blood exposure in adult spinal deformity surgeries: a propensity-matched cohort analysis.** *Journal of neurosurgery. Spine*
Kelly, M. P., Zebala, L. P., Kim, H. J., Sciubba, D. M., Smith, J. S., Shaffrey, C. I., Bess, S., Klineberg, E., Mundis, G., Burton, D., Hart, R., Soroceanu, A., Schwab, et al
2016; 24 (1): 124-30
 - **Complications and Rates of Subsequent Lumbar Surgery Following Lumbar Total Disc Arthroplasty and Lumbar Fusion.** *Spine*
Eliasberg, C. D., Kelly, M. P., Ajiboye, R. M., SooHoo, N. F.
2016; 41 (2): 173-81
 - **A Comprehensive Review of Complication Rates After Surgery for Adult Deformity: A Reference for Informed Consent.** *Spine deformity*
Sciubba, D. M., Yurter, A., Smith, J. S., Kelly, M. P., Scheer, J. K., Goodwin, C. R., Lafage, V., Hart, R. A., Bess, S., Kebaish, K., Schwab, F., Shaffrey, C. I., Ames, et al
2015; 3 (6): 575-594
 - **Preoperative opioid strength may not affect outcomes of anterior cervical procedures: a post hoc analysis of 2 prospective, randomized trials.** *Journal of neurosurgery. Spine*
Kelly, M. P., Anderson, P. A., Sasso, R. C., Riew, K. D.
2015; 23 (4): 484-9
 - **Spinal Deformity Associated with Chiari Malformation.** *Neurosurgery clinics of North America*
Kelly, M. P., Guillaume, T. J., Lenke, L. G.
2015; 26 (4): 579-85
 - **Genetic Risk for Aortic Aneurysm in Adolescent Idiopathic Scoliosis.** *The Journal of bone and joint surgery. American volume*
Haller, G., Alvarado, D. M., Willing, M. C., Braverman, A. C., Bridwell, K. H., Kelly, M., Lenke, L. G., Luhmann, S. J., Gurnett, C. A., Dobbs, M. B.
2015; 97 (17): 1411-7
 - **Risks and outcomes of spinal deformity surgery in Chiari malformation, Type 1, with syringomyelia versus adolescent idiopathic scoliosis** *SPINE JOURNAL*
Godzik, J., Holekamp, T. F., Limbrick, D. D., Lenke, L. G., Park, T. S., Ray, W. Z., Bridwell, K. H., Kelly, M. P.
2015; 15 (9): 2002-2008
 - **Comprehensive study of back and leg pain improvements after adult spinal deformity surgery: analysis of 421 patients with 2-year follow-up and of the impact of the surgery on treatment satisfaction.** *Journal of neurosurgery. Spine*
Scheer, J. K., Smith, J. S., Clark, A. J., Lafage, V., Kim, H. J., Rolston, J. D., Eastlack, R., Hart, R. A., Protopsaltis, T. S., Kelly, M. P., Kebaish, K., Gupta, M., Klineberg, et al
2015; 22 (5): 540-53
 - **Defining hypoplasia of the atlas: a cadaveric study.** *Spine*
Kelly, M. P., Oshima, Y., Yeom, J. S., Agarwal, R., Bajwa, N. S., Riew, K. D.

2014; 39 (21): E1243-7

- **Complications and outcomes of complex spine reconstructions in poliomyelitis-associated spinal deformities: a single-institution experience.** *Spine*
Godzik, J., Lenke, L. G., Holekamp, T., Sides, B., Kelly, M. P.
2014; 39 (15): 1211-6
- **Sagittal alignment as a predictor of clinical adjacent segment pathology requiring surgery after anterior cervical arthrodesis.** *The spine journal : official journal of the North American Spine Society*
Park, M. S., Kelly, M. P., Lee, D. H., Min, W. K., Rahman, R. K., Riew, K. D.
2014; 14 (7): 1228-34
- **Multiple lower-extremity and pelvic fractures increase pulmonary embolus risk.** *Orthopedics*
Godzik, J., McAndrew, C. M., Morshed, S., Kandemir, U., Kelly, M. P.
2014; 37 (6): e517-24
- **Evaluation of complications and neurological deficits with three-column spine reconstructions for complex spinal deformity: a retrospective Scolio-RISK-1 study.** *Neurosurgical focus*
Kelly, M. P., Lenke, L. G., Shaffrey, C. I., Ames, C. P., Carreon, L. Y., Lafage, V., Smith, J. S., Shimer, A. L.
2014; 36 (5): E17
- **Multilevel Posterior Vertebral Column Resection for the Revision of Congenital Dislocation of the Spine Following In Situ Fusion: A Case Report.** *Spine deformity*
Stoker, G. E., Lenke, L. G., Kelly, M. P.
2014; 2 (3): 233-238
- **Relationship of syrinx size and tonsillar descent to spinal deformity in Chiari malformation Type I with associated syringomyelia.** *Journal of neurosurgery. Pediatrics*
Godzik, J., Kelly, M. P., Radmanesh, A., Kim, D., Holekamp, T. F., Smyth, M. D., Lenke, L. G., Shimony, J. S., Park, T. S., Leonard, J., Limbrick, D. D.
2014; 13 (4): 368-74
- **Intrawound vancomycin powder eradicates surgical wound contamination: an in vivo rabbit study.** *The Journal of bone and joint surgery. American volume*
Zebala, L. P., Chuntarapas, T., Kelly, M. P., Talcott, M., Greco, S., Riew, K. D.
2014; 96 (1): 46-51
- **Pseudarthrosis/Infection/Rate of Revision**
Kelly, M., Berven, S.
Lenke LG, Cheung K (eds.). AOSpine Master Series.
2014
- **Posterior Cervical Microdiscectomy/Foraminotomy**
Kelly, M., Riew, K.
Zdeblick TA, Albert TJ (eds). Master Techniques in Orthopaedic Surgery, The Spine, 3rd Edition.
2014 109-117
- **Single-level degenerative cervical disc disease and driving disability: results from a prospective, randomized trial.** *Global spine journal*
Kelly, M. P., Mitchell, M. D., Hacker, R. J., Riew, K. D., Sasso, R. C.
2013; 3 (4): 237-42
- **Dropped Head Syndrome After Multilevel Cervical Radiofrequency Ablation <i>A Case Report</i>** *JOURNAL OF SPINAL DISORDERS & TECHNIQUES*
Stoker, G. E., Buchowski, J. M., Kelly, M. P.
2013; 26 (8): 444-448
- **Fate of the Adult Revision Spinal Deformity Patient <i>A Single Institution Experience</i>** *SPINE*
Kelly, M. P., Lenke, L. G., Bridwell, K. H., Agarwal, R., Godzik, J., Koester, L.
2013; 38 (19): E1196-E1200
- **A Cost-Utility Analysis Comparing the Cost-Effectiveness of Simultaneous and Staged Bilateral Total Knee Arthroplasty** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*

- Odum, S. M., Troyer, J. L., Kelly, M. P., Dedini, R. D., Bozic, K. J.
2013; 95A (16): 1441-1449
- **Traction X-ray under general anesthesia helps to save motion segment in treatment of Lenke type 3C and 6C curves.** *The spine journal : official journal of the North American Spine Society*
Hamzaoglu, A., Ozturk, C., Enercan, M., Alanay, A.
2013; 13 (8): 845-52
 - **Commentary: X-rays under anesthesia as an adjunct to save motion segments in AIS surgery** *SPINE JOURNAL*
Kelly, M. P., Lehman, R. A., Lenke, L. G.
2013; 13 (8): 853-855
 - **Risk factors for subtrochanteric and diaphyseal fractures: the study of osteoporotic fractures.** *The Journal of clinical endocrinology and metabolism*
Napoli, N., Schwartz, A. V., Palermo, L., Jin, J. J., Wustrack, R., Cauley, J. A., Ensrud, K. E., Kelly, M., Black, D. M.
2013; 98 (2): 659-67
 - **Surgical Treatment of C3 and C4 Cervical Radiculopathies** *SPINE*
Park, M., Kelly, M. P., Min, W., Rahman, R. K., Riew, K.
2013; 38 (2): 112-118
 - **Vertebral Column Resection for Severe Rigid Spinal Deformity through an All Posterior Approach**
Kelly, M., Zebala, L., Lenke, L.
Wiesel S, Rhee JM (eds) Operative Techniques in Spinal Surgery.
2013 245-59
 - **Video-assisted thoracoscopic surgery with posterior spinal reconstruction for the resection of upper lobe lung tumors involving the spine** *SPINE JOURNAL*
Stoker, G. E., Buchowski, J. M., Kelly, M. P., Meyers, B. F., Patterson, G.
2013; 13 (1): 68-76
 - **Surgical Treatment of Adolescent Idiopathic Scoliosis: Lenke Curve Types 1-6**
Lenke, L., Kelly, M.
Kim DH, Vaccaro AR, Dickman CA (eds) Surgical Anatomy and Techniques to the Spine, 2nd Edition.
2013 587-600
 - **Cervical Osteotomies for Kyphosis**
Kelly, M., Wollowick, A., Riew, K.
Wiesel S, Rhee JM (eds) Operative Techniques in Spinal Surgery.
2013 66-74
 - **The Risk of Adjacent-Level Ossification Development After Surgery in the Cervical Spine <i>Are There Factors That Affect the Risk</i>? <i>A Systematic Review</i>** *SPINE*
Kim, H., Kelly, M. P., Ely, C. G., Riew, K., Dettori, J. R.
2012; 37 (22): S65-S74
 - **Terminology INTRODUCTION** *SPINE*
Anderson, P. A., Andersson, G. B. J., Arnold, P. M., Brodke, D. S., Brodt, E. D., Chapman, J. R., Chou, D., Dekutoski, M., Dettori, J. R., DeVine, J. G., Ely, C. G., Fehlings, M. G., Fischer, et al
2012; 37 (22): S8-S9
 - **Are women with thicker cortices in the femoral shaft at higher risk of subtrochanteric/diaphyseal fractures? The study of osteoporotic fractures.** *The Journal of clinical endocrinology and metabolism*
Napoli, N., Jin, J., Peters, K., Wustrack, R., Burch, S., Chau, A., Cauley, J., Ensrud, K., Kelly, M., Black, D. M.
2012; 97 (7): 2414-22
 - **Pedicle Subtraction Osteotomy in the Cervical Spine** *SPINE*
Wollowick, A. L., Kelly, M. P., Riew, K.
2012; 37 (5): E342-E348

- **Osteotomy techniques (Smith-Petersen and pedicle subtraction) for fixed sagittal imbalance**
Zebala , L., Kelly , M., Bridwell , K.
Vaccaro AR, Baron EM (eds) Operative Techniques: Spine Surgery, 2nd Edition.
2012 270-279
- **Adjacent Segment Motion After Anterior Cervical Discectomy and Fusion Versus ProDisc-C Cervical Total Disk Arthroplasty** *SPINE*
Kelly, M. P., Mok, J. M., Frisch, R. F., Tay, B. K.
2011; 36 (15): 1171-1179
- **Bisphosphonates and fractures of the subtrochanteric or diaphyseal femur.** *The New England journal of medicine*
Black, D. M., Kelly, M. P., Genant, H. K., Palermo, L., Eastell, R., Bucci-Rechtweg, C., Cauley, J., Leung, P. C., Boonen, S., Santora, A., de Papp, A., Bauer, D. C.
2010; 362 (19): 1761-71
- **Dynamic Constructs for Spinal Fusion: An Evidence-Based Review** *ORTHOPEDIC CLINICS OF NORTH AMERICA*
Kelly, M. P., Mok, J. M., Berven, S.
2010; 41 (2): 203-+
- **Nutrition and Pain Management in the Adult Spinal Deformity Patient**
Kelly , M., Hu , S.
Ogilvie JW (ed) Scoliosis Research Society E-Text, Spine Deformity Surgery. www.srs.org.
2010
- **Future young patient demand for primary and revision joint replacement: national projections from 2010 to 2030.** *Clinical orthopaedics and related research*
Kurtz, S. M., Lau, E., Ong, K., Zhao, K., Kelly, M., Bozic, K. J.
2009; 467 (10): 2606-12
- **Cost drivers in total hip arthroplasty: effects of procedure volume and implant selling price.** *American journal of orthopedics (Belle Mead, N.J.)*
Kelly, M. P., Bozic, K. J.
2009; 38 (1): E1-4
- **Osteoporosis and vitamin-D deficiency among postmenopausal women with osteoarthritis undergoing total hip arthroplasty.** *The Journal of bone and joint surgery. American volume*
Glowacki, J., Hurwitz, S., Thornhill, T. S., Kelly, M., LeBoff, M. S.
2003; 85 (12): 2371-7