Stanford



Michael Kelly, MD, MSCI

Professor of 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 - Adminsitrative Associate III
  Email emahoney@stanford.edu
  Tel 650.736.4148

Bio

BIO

Dr. Michael Kelly is a board-certified, fellowship-trained orthopaedic spine surgeon treating adults and children 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, GeroScience, and The Journal of Bone and Joint Surgery. He is currently Deputy Editor at Spine, the premier spine journal. He has shared his expertise at renowned international conferences, including annual meetings of the Scoliosis Research Society and the Cervical Spine Research Society, where he has won multiple research awards. 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

- Professor-Univ Med Line, 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

- **Linking the Scoliosis Research Society-22 domains to the PROMIS domains in adult symptomatic lumbar scoliosis.** *Journal of neurosurgery. Spine*
  Kelly, M. P., Mansolf, M., Smith, J. S., Yanik, E. L., Ho, E. H., Langer, M. M., Bridwell, K. H.
  2026: 1-14

- **The T4-L1 Hip Axis Describes Sagittal Alignment in Operative Adolescent Idiopathic Scoliosis** *SPINE*
  Woodard, T., Hills, J., Parent, S., Charles, Y. P., Fletcher, N., Shah, S., Newton, P. O., Upasani, V., Gupta, M. C., Lenke, L. G., Bauer, J., Hariharan, A., Ilharreborde, et al
  2026; 51 (18): 1303-1309

- **Examination of DNAm PhenoAge as an epigenetic biomarker for perioperative risk in adult spinal deformity surgeries.** *GeroScience*
  Kelly, M. P., Hills, J., Smith, J. S., Lenke, L. G., Kim, H. J., Bess, S., Line, B., Lafage, V., Lafage, R., Klineberg, E., Pellise, F., Kebaish, K., Gupta, et al
  2026

- **Sagittal Alignment Differences Between Normal Subjects and Adolescent Idiopathic Scoliosis Using Vertebral Pelvic Angles.** *Spine*
  Aleman, C., Goetsch, T., Hills, J., Kelly, M. P., Battesti, G., Chomienne, L., Ilharreborde, B., Finoco, M., Ferrero, E., Khalifé, M., Odent, T., de Charnacé, E., Prost, et al
  2026

- **Using artificial intelligence to predict health-related quality of life for adolescent idiopathic scoliosis** *EUROPEAN SPINE JOURNAL*
  Kovacevic, D., Abbas, A., Sahi, G., Lex, J. R., Samdani, A. F., Shah, S. A., Clements, D., Newton, P. O., Kelly, M. P., Toor, J., Miyanji, F.
  2026

- **Treatment of Lenke 5 curves with short versus long posterior fusion.** *Spine deformity*
  Lugo, E., Sponseller, P., Wang, J., Fletcher, N. D., Vorhies, J., Bauer, J. M., Louer, C., Brooks, J., Samdani, A., Kelly, M., Parent, S., Shah, S., Jain, et al
  2026

- **Preoperative alignment and risk of proximal junctional failure : a framework for upper instrumented vertebra selection in adult spinal deformity.** *The bone & joint journal*
  Hills, J., Lenke, L. G., Smith, J. S., Shaffrey, C. I., Lafage, V., Lafage, R., Bess, S., Kelly, M. P., Turner, J., Uribe, J., Daniels, A., Diebo, B., Lenke, et al
  2026; 108-B (7): 943-951

- **Decompression with or without Duraplasty for Chiari I and Syringomyelia.** *The New England journal of medicine*
  Limbrick, D. D., Shannon, C. N., Bayman, E. O., Meehan, T., Kallem, M., Ackerman, L. L., Adelson, P. D., Ahmed, R., Albert, G., Aldana, P. R., Alden, T. D., Anderson, R. C., Baird, et al
  2026; 394 (20): 2015-2025

- **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

- **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

- **CORR 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 Scoli-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., Yeramaneni, 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-Grueso, 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*
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