

Stuart D. Kinsella, M.D., M.S.T.R.

EDUCATION

- BIDMC/Harvard Medical School Combined Spine Fellowship. Boston, MA** 08/19-07/20
ACGME-Accredited Combined Ortho. and Neurosurgical Spine Fellow, Program Director: Dr. Andrew P. White
American Board of Orthopaedic Surgery, Board Eligible
Experience: ACDF, posterior cervical decompression/fusion, cervical corp., microdisc., lumbar/thoracic decompression/fusion, open/MIS TLIF, ALIF, OLIF, nav.- and robotic-assisted surgery
- Harvard Combined Orthopaedic Residency Program. Boston, MA** 06/14-06/19
Resident Physician in Orthopaedic Surgery, Program Director: Dr. George S. M. Dyer
Thesis: Go Big or Go Home: Distal Adding-On Phenomenon in Early Onset Scoliosis.
- University of Pennsylvania School of Medicine, Philadelphia, PA** 08/09-05/14
M.D. 2014. Mark Levine, M.D. Radiology Research Award
- University of Pennsylvania School of Medicine, Philadelphia, PA** 07/12-05/14
Master of Science in Translational Research (M.S.T.R.) 2014.
Thesis: Development of a Large Animal Model of Osteochondritis Dissecans
- Harvard University, Cambridge, MA** 01/06-05/09
Bachelor of Arts in Biology. Secondary Field in Economics. Magna cum laude.
John Harvard Scholar (top 5% of class)

RESEARCH AND WORK EXPERIENCE

- The Steadman Clinic. Basalt and Aspen, CO** 05/23-Present
Orthopaedic Surgeon/Spine Surgeon, CEO: Dan Drawbaugh
- Vero Orthopaedics & Vero Neurology. Vero Beach, FL** 09/20-03/23
Orthopaedic Surgeon/Spine Surgeon, CEO: Jennifer Davison
- Boston Children's Hospital Dept. of Orthopaedic Surgery Clinical Research. Boston, MA** 05/17-08/20
Resident Researcher, Mentors: Dr. Michael Glotzbecker, Dr. Mininder Kocher
 - Investigating incidence of and risk factors for pathologic changes in radiographic parameters, including distal junctional kyphosis, in early onset scoliosis patients following growing instrumentation through a large retrospective analysis and review. Developed large database.
 - Investigated incidence and significance of posterolateral corner injuries in skeletally immature patients with concomitant ACL injuries in a retrospective review.
- Cleveland Clinic Department of Ortho. Surgery Sports Med. Research. Cleveland, OH** 07/13-05/15
Medical Student Researcher, Mentor: Dr. Kurt P. Spindler
 - Investigated publication characteristics for all abstracts presented at American Orthopaedic Society for Sports Medicine (AOSSM) annual meetings from 2006-2010.
- Penn Department of Radiology, Musculoskeletal Clinical Research. Philadelphia, PA** 01/13-05/15
Medical Student Researcher, Mentors: Dr. Viviane Khoury, Dr. Jose M. Morey
 - Investigated associations between FAI and osteitis pubis in a retrospective review.
 - Developed online musculoskeletal radiology teaching program.
- Penn McKay Orthopaedic Surgery Research Laboratory. Philadelphia, PA** 07/12-05/15
Masters in Translational Research, Mentors: Dr. James L. Carey, Dr. Robert L. Mauck
 - Funded by NIH/NCATS Clinical and Translational Science Award (CTSA) Ruth L. Kirschstein National Research Service Award - Grant Number 2TL1RR024133-06 (2012-13; through MTR program) and Penn Center for Musculoskeletal Disorders Pilot Training Grant - NIH/NIAMS P30-AR050950-07.
 - Developed a porcine model of osteochondritis dissecans (OCD) via the *in vivo* surgical generation of medial femoral condyle osteochondral defects and modification of healing at the parent-progeny interface.
 - Investigated stem cell-laden hyaluronic acid hydrogel and nanofibrous scaffold treatment for full-thickness cartilage defects in an *in vivo* trochlear groove full-thickness cartilage defect minipig model.
 - Utilized scaffold electrospinning, tissue engineering, histology, μ -CT, fluoroscopy, arthroscopy.
- Penn Department of Orthopaedic Surgery Clinical Research. Philadelphia, PA** 09/09-05/15
Medical Student Researcher, Mentors: Dr. John D. Kelly IV, Dr. James L. Carey, Dr. Lawrence Wells
 - Investigated Hill-Sachs lesions in adolescent and adult patients after traumatic dislocation using novel MRI and MR arthrography measurement techniques.

- Investigated the role of 2D and 3D MR sequences, as well as 3D modeling techniques, in delineating glenoid width and the implications of the glenoid track on surgical procedure decision-making.
- Investigated outcomes of surgical interventions for unsalvageable OCD lesions in a retrospective review.
- Performed retrospective analyses of total joint arthroplasty practice surgical cancellations, clinical outcomes in young patients, and clinical outcomes of ceramic on ceramic total hip arthroplasty.

Sports Medicine Research (SMR): In the Lab & In the Field **03/13-04/14**

Contributing Author

- Wrote sports medicine article reviews for the website www.sportsmedres.org, which aims to bridge the gap between research and clinical practice related to sports medicine.

University of Pennsylvania Institutional Review Board **01/13-01/14**

Voting Committee Member

- Participated in the review of biomedical and behavioral research studies involving humans.

Penn Sports Medicine Clinical Research (Summer Research Program). Philadelphia, PA **06/10-08/10**

Medical Student Researcher, Mentor: Dr. Brian J. Sennett

- Selected to participate in NIH training grant (National Institute of Diabetes and Digestive and Kidney Diseases) – Grant Number 5-T32-DK060441 funded research training program for medical students.
- Performed retrospective case-control study on ACL reconstruction outcomes in patients aged over 40 years.

Harvard Medical School BIDMC Cardiovascular Lab. Boston, MA **05/07-12/10**

Research Assistant, Mentor: Dr. Takashi Matsui

- Investigated the role of mTOR in pressure overload-induced cardiac dysfunction in a transgenic murine model, as well as patterns of myocyte injury along myofibers in left ventricular remodeling after myocardial infarction at Beth Israel Deaconess Medical Center (BIDMC).
- Gained experience with western blotting, SDS-PAGE, ELISA, ELISPOT, real-time PCR, Langendorff model, histology, cell culture, DNA extraction/electrophoresis, cloning, primer design.

ACTIVITIES

Orthopaedic Journal of Harvard Medical School **06/15-06/18**

Editor

- Review submissions to the Journal, assist in preparation of the Journal.

American Council on Exercise **09/06-05/14**

Certified Personal Trainer

- Developed and implemented individualized training programs for clients.

Gross Anatomy Teaching Assistant **09/12-12/13**

Teaching Assistant and Private Tutor

- Assisted in first year medical student gross anatomy teaching labs, and provided one-on-one tutoring.

Perelman School of Medicine at the U. of Penn. Admissions Committee **09/09-12/13**

Elected Committee Member, Interviewer and Re-visit Leader

- Interviewed and formed summative evaluations of applicants as part of the Committee.

Medical Students for Healthy Living **09/09-12/10**

Volunteer Teacher

- Worked with local public schools to implement a curriculum on healthy living.

BOOK CHAPTERS

Spinal Infections. **Stuart D. Kinsella MD, MTR**, Lauren B. Barton BS, Andrew J. Schoenfeld MD, MSc. Evidence-Based Orthopedics – 2nd Edition. Mohit Bhandari MD. 2021.

Initial Evaluation of the Spine in Trauma Patients. **Stuart D. Kinsella MD, MTR**, Daniel G. Tobert, Mitchell B. Harris MD. Skeletal Trauma – 6th Edition. Bruce Browner MD, Alan Levine MD, Jesse Jupiter MD, Peter Trafton MD, Christian Krettek MD. 2020.

Evaluation of Bone Loss and the Glenoid Track. Nancy A. Chauvin MD, Vishal Saxena MD, **Stuart D. Kinsella, MD, MTR**, Jose M. Morey MD. Elite Techniques in Shoulder Arthroscopy: New Frontiers in Shoulder Preservation. John D. Kelly IV. 2016.

Arthroscopic Repair of Massive Retracted Rotator Cuff Tears. Michael H. McGraw MD, **Stuart D. Kinsella MD, MTR**, Ann Marie Kelly BA, John D. Kelly IV MD. Elite Techniques in Shoulder Arthroscopy: New Frontiers in Shoulder Preservation. John D. Kelly IV. 2016.

PUBLICATIONS

Kinsella SD, Rider SM, DeWitt L, Hedequist D, Emans J, Glotzbecker M. Graduation from Growing Device to Instrumented Fusion in Early-Onset Scoliosis: Who Needs Extension Beyond Growing Device Foundation? *Submitted.*

Kinsella SD, Rider SM, Fury MS, Tepolt FA, Ecklund K, Kocher MS. Concomitant Posterolateral Corner Injuries in Skeletally Immature Patients With Acute Anterior Cruciate Ligament Injuries. *Journal of Pediatric Orthopaedics.* 2020 Jul;(6):271-276.

Kinsella SD, Rider SM, Warner JP, Matkin E. Musculotendinous Junction Tears of the Subscapularis: A Report of Two Cases. *Orthopaedic Journal of Harvard Medical School.* 2017 May;18:58-64.

Kinsella SD, Chauvin NA, Diaz T, Morey JM, Wells L. Traumatic Dislocation Among Adolescents: Hill-Sachs Lesion Volume and Recurrent Instability. *Journal of Pediatric Orthopaedics.* 2015 Jul-Aug;35(5):455-61.

Saxena V, Wilmot A, Ruutiainen AT, Ruffolo L, **Kinsella SD**, Chauvin NA, Kelly IV JD. Measurement of Adult Hill-Sachs Lesions on Magnetic Resonance Arthrography. *University of Pennsylvania Orthopaedic Journal.* 2015 June;25:61-63.

Kinsella SD, Menge T, Anderson AF, Spindler KP. Publication Rates of Podium versus Poster Presentations at American Orthopaedic Society for Sports Medicine Meetings: 2006-2010. *American Journal of Sports Medicine.* 2015 May;43(5):1255-9.

Pfeifer CP, **Kinsella SD**, Milby AH, Fisher MB, Belkin NS, Mauck RL, Carey JL. Development of a Large Animal Model of Osteochondritis Dissecans of the Knee: A Pilot Study. *Orthopaedic Journal of Sports Medicine.* 2015 Feb;3(2):1-10.

Kinsella SD, Thomas SJ, Huffman RG, Kelly IV JD. The Thrower's Shoulder. *Orthopedic Clinics of North America.* 2014 Jul;45(3):387-401.

Haney NM, **Kinsella SD**, Morey JM. Medical School Graduate Interest in Radiology Residency Programs as Depicted by Online Search Tools. *J Am Coll Radiol.* 2014 Jan 31:193-197.

Kinsella SD, Sennett BJ, Carey JL. Extra-Articular Pigmented Villonodular Synovitis of the Deep Infrapatellar Bursa: A Case Report. *JBJS Case Connector.* 2013 Dec 24;3(4):e133 1-4.

Haney NM, **Kinsella SD**, Morey JM. 24-year-old woman with dysostosis multiplex: Case of the Day. *AuntMinnie.com.* Epub 2013 August.

Haney NM, **Kinsella SD**, Morey JM. Lipoma arborescens in the bicipital bursa of a 77-year-old female: Case of the Day. *AuntMinnie.com.* Epub 2013 June.

Kinsella SD, Carey JL. Complications in Brief: Arthroscopic Partial Meniscectomy. *Clinical Orthopaedics and Related Research.* 2013 May;471(5):1427-32.

Gee AO, **Kinsella SD**, Huffman RG, Sennett BJ, Tjoumakaris FP. Anterior Cruciate Ligament Reconstruction in Patients Aged > 40 Years: A Case Control Study. *Physician in Sports Medicine.* 2013 Feb;41(1):30-34.

Hsu JE, **Kinsella SD**, Garino JP, Lee GC. Ten-Year Follow-Up of Patients Younger Than 50 Years With Modern Ceramic-on-Ceramic Total Hip Arthroplasty. *Seminars in Arthroplasty.* 2011 Dec;22(4):229-233.

Song X, Kusakari Y, Xiao CY, **Kinsella SD**, Rosenberg MA, Scherrer-Crosbie M, Hara K, Rosenzweig A, Matsui T. mTOR attenuates the inflammatory response in cardiomyocytes and prevents cardiac dysfunction in pathological hypertrophy. *Am J Physiol Cell Physiol.* 2010 Dec;299(6):C1256-66.

Kusakari Y, Xiao CY, Himes N, **Kinsella SD**, Takahashi M, Rosenzweig A, Matsui T. Myocyte injury along myofibers in left ventricular remodeling after myocardial infarction. *Interact Cardiovasc Thorac Surg.* 2009 Dec;9(6):951-5.

ABSTRACTS AND PRESENTATIONS

Kinsella SD, Rider SM, Tepolt F, Kocher M. Concomitant posterolateral corner injuries in skeletally immature patients with acute anterior cruciate ligament injuries. Pediatric Research in Sports Medicine Society Annual Meeting. Atlanta, Georgia. January 17-19, 2019. Podium.

Phillips E, Khoury V, Wilmot A, **Kinsella SD**, Kelly IV, JD. Correlation between CAM-type Femoracetabular Impingement and Osteitis Pubis. The American Academy of Orthopaedic Surgeons Annual Meeting. Las Vegas, Nevada. March 24-28, 2015. Poster.

Shah R, **Kinsella SD**, Israelite C. An Analysis of Cancelled Surgeries: Implications for Clinical Operations and Resource Utilization. The American Orthopaedic Association/Canadian Orthopaedic Association Combined Meeting. Montreal, Canada. June 18-21, 2014. Poster.

Kinsella SD*, Pfeifer CP*, Belkin NS, Milby AH, Fisher MB, Mauck RL, Carey JL. Development of a Large Animal Model of Osteochondritis Dissecans. The 66th Annual Meeting of The Association of Bone and Joint Surgeons. New York, New York. May 14-18, 2014. *Co-first author. Podium.

Pfeifer CP*, **Kinsella SD***, Milby AH, Fisher MB, Belkin NS, Mauck RL, Carey JL. Development of a Large Animal Model of Osteochondritis Dissecans (OCD) Of The Knee. The Orthopaedic Research Society. New Orleans, Louisiana. March 15-18, 2014. *Co-first author. Podium.

Shah R, **Kinsella SD**, Israelite C. An Analysis of Cancelled Surgeries: Implications for Clinical Operations and Resource Utilization. The American Academy of Orthopaedic Surgeons Annual Meeting. New Orleans, Louisiana. March 11-15, 2014. Podium.

Morey J, **Kinsella SD**, Haney NM, Cook TS. Learning Musculoskeletal Radiology on the Go: PACS-Like Testing of Both Recognition and Interpretive Skills on the iPad. Radiology Society of North America 99th Annual Scientific Assembly and Annual Meeting. Chicago, Illinois. December 01-06, 2013. Poster.

Haney NM, **Kinsella SD**, Morey J. Medical School Graduates Interest in Radiology Residency Programs as Depicted by Online Search Tools. Radiology Society of North America 99th Scientific Assembly and Annual Meeting. Chicago, IL. December 01-06, 2013. Poster.

Shah R, **Kinsella SD**, Israelite C. An Analysis of Cancelled Surgeries: Implications for Clinical Operations and Resource Utilization. The Pennsylvania Orthopaedic Society 2013 Fall Scientific Meeting. State College, PA. October 10-11, 2013. Podium.

Kinsella SD, Chauvin NA, Diaz T, Morey JM, Wells L. Traumatic Shoulder Dislocation Among Adolescents: Does Hill-Sachs Lesion Size Matter? The University of Pennsylvania Department of Orthopaedic Surgery Research Day Symposium. Philadelphia, PA. June 21, 2013. Poster.

Shah RP, **Kinsella SD**, Israelite CL. An Analysis of Cancelled Surgeries: Implications for Clinical Operations and Resource Utilization. Poster. The University of Pennsylvania Department of Orthopaedic Surgery Research Day Symposium. Philadelphia, PA. June 21, 2013. Poster.

Morey JM, **Kinsella SD**, Haney NM, Cook TS, Kelly JD. Learning Musculoskeletal Radiology on the Go: PACS-Like Testing of Both Recognition and Interpretive Skills on the iPad. Poster. The University of Pennsylvania Department of Orthopaedic Surgery Research Day Symposium. Philadelphia, PA. June 21, 2013. Poster.

Haney NM, Morey JM, Duszak R, Hughes DR, **Kinsella SD**, Park MJ, Kelly IV J. Pilot Retrospective Study of Glenoid Track Measurements from Standard of Care MRIs. Poster. The University of Pennsylvania Department of Orthopaedic Surgery Research Day Symposium. Philadelphia, PA. June 21, 2013. Poster.

Chauvin N, Diaz T, **Kinsella S**, Jaramillo D, Wells L. Traumatic Shoulder dislocation among adolescents: Does Hill-Sachs lesion size matter? The Society for Pediatric Radiology 55th Annual Meeting & Postgraduate Course. San Antonio, Texas. May 14-18, 2013. Podium. Published in Pediatric Radiology. 2013 May; 43 (2 Supplement): 300.

Hsu J, **Kinsella SD**, Lee G, Garino J. Modern Ceramic on Ceramic Total Hip Arthroplasty in Patients Under 50: Minimum 10 Year Follow-up. Poster. The University of Pennsylvania Department of Orthopaedic Surgery Research Day. 2011. Poster.

Hsu J, **Kinsella SD**, Garino J, Lee G. Total Knee Arthroplasty in Patients Under Forty: A Cautionary Tale. Poster. The University of Pennsylvania Department of Orthopaedic Surgery Research Day. 2011. Poster.

Gee A, **Kinsella SD**, Tjoumakaris F, Sennett BJ. ACL Reconstruction in Patients Over 40 Years of Age: A Case Control Study. Poster. The University of Pennsylvania Department of Orthopaedic Surgery Research Day. 2011. Poster.

Gee A, **Kinsella SD**, Tjoumakaris F, Sennett BJ. ACL Reconstruction in Patients Over 40 Years of Age: A Case Control Study. Arthroscopy Association of North America Annual Meeting. San Francisco, CA. April 14-16, 2011. Podium. Published in Arthroscopy. 2011 May; 27(5): e62.

Kinsella SD, Kaminski C, Garino JP, Lee G, Hsu JE. Modern Ceramic on Ceramic Total Hip Arthroplasty in Patients Under 50: Minimum 10 Year Follow-up. The American Academy of Orthopaedic Surgeons Annual Meeting. San Diego, CA. February 16-19, 2011. Poster.

Kinsella SD, Garino J, Lee G, Hsu JE. Total Knee Arthroplasty in Patients Under Forty: A Cautionary Tale. The American Academy of Orthopaedic Surgeons Annual Meeting. San Diego, CA. February 16-19, 2011. Poster.

Kinsella SD, Gee A, Kim J, Lee G, Sennett BJ, Tjoumakaris FP. Anterior Cruciate Ligament Reconstruction in Patients over 40 Years of Age. The University of Pennsylvania School of Medicine Short Term Elective Research Summer Student Symposium 6th Annual Meeting. Philadelphia, PA. August 26, 2010. Poster.

Kusakari Y, Xiao C, **Kinsella SD**, Rosenzweig A, Matsui T. Transgenic mTOR expression protects the heart from pressure overload-induced cardiac dysfunction. The American Heart Association Scientific Sessions. New Orleans, LA. November 8-12, 2008. Podium. Published in Circulation. 2008 Nov; 118(Supplement): 393.