

# PETER B. DERMAN

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## EDUCATION

<b>Stanford University</b> <i>BS, Major in Biological Sciences</i>	Stanford, CA 2003-2007
<b>Perelman School of Medicine, University of Pennsylvania</b> <i>MD</i>	Philadelphia, PA 2007-2012
<b>Wharton School, University of Pennsylvania</b> <i>MBA, Major in Health Care Management</i>	Philadelphia, PA 2010-2012

## POST-DOCTORAL TRAINING

<b>Hospital for Special Surgery</b> <i>Residency, Orthopedic Surgery</i>	New York, NY 2012-2017
<b>Rush University Medical Center</b> <i>Fellowship, Spine Surgery</i>	Chicago, IL 2017-2018

## PHYSICIAN EMPLOYMENT

<b>Texas Back Institute</b> <i>Attending Spine Surgeon</i>	Plano, TX 2018-Present
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## BUSINESS EXPERIENCE

<b>Ben Franklin Technology Partners</b> <i>Intern, Life Sciences Investment Group</i>	Philadelphia, PA Summer 2008
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- Conducted due diligence leading to a \$500,000 investment in QR Pharma. Leveraged educational background and industry experts to evaluate scientific and financial feasibility, competitive environment, regulatory challenges, and patent landscape.
- Presented findings to Director of Investments for Life Sciences. Prepared materials for fund CEO and Board of Directors.
- Supervised portfolio companies by directly advising CEOs and overseeing company board meetings.

<b>McKinsey &amp; Company</b> <i>Summer Associate, Health Care Practice</i>	Dallas, TX Summer 2011
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- Helped implement a nationwide sales force reorganization for a Fortune 50 pharmaceutical wholesaler. Projected savings exceeded \$14 million annually.
- Constructed an account segmentation model, redesigned territories, created job descriptions, performed financial analysis, drafted training programs, and coordinated across interrelated work streams to manage organizational change.
- Worked closely with Regional VPs and supporting management.

## HONORS & AWARDS

- Selected as one of the Best Doctors in Dallas, *D Magazine*, 2019
- Jean C. McDaniel Award for ethics, professional skill, commitment to resident education, and dedication to the community of the Hospital for Special Surgery, 2017
- Hospital for Special Surgery Professional Leadership Education Scholarship to attend The American Orthopaedic Association's 2016 Resident Leadership Forum

- 2015 Eastern Orthopaedic Association/Eastern Orthopaedic Educational Foundation Resident/Fellow Travel Grant – “Orthopedics and the Sunshine Act: Payments in the Open Payments Database”
- 2<sup>nd</sup> place, *The American Journal of Orthopedics*’ 2013 Resident Writer’s Award competition – “Saline-Coupled Bipolar Sealing in Revision Total Knee Arthroplasty for Infection”
- Runner up, Resident Research Award, 2013 North Carolina Orthopaedics Association Annual Meeting – “Unplanned Readmissions after TKA: Risk Factors, Causes, Financial Implications, and Potential Impact of Health Care Reform”
- Lawrence D. Dorr, MD Award for the Most Outstanding Paper in Surgical Techniques and Technology, 2012 American Academy of Hip and Knee Surgeons Annual Meeting – “Risk Factors, Causes, and the Economic Implications of Unplanned Readmissions Following Total Hip Arthroplasty”
- Graduated with Honors from The Wharton School, MBA, 2012
- 2012 Wharton Business Plan Competition People’s Choice Award – pitched novel osteoarthritis drug
- 2012 Henry J. Kaiser Family Foundation Prize for merit and promise for future success and contribution to the field of health care, the Wharton School
- Alpha Omega Alpha Honor Medical Society, 2012
- 2012 Leonard Davis Institute’s William L. Kissick, MD, DrPH, Health Policy Research Prize, Perelman School of Medicine
- 2012 Peter H. Hutchinson, MD, M’06 and Rebecca N. Hutchinson, MD, M’06 Prize, Perelman School of Medicine
- 2012 James B. Couch, M’81 Prize, Perelman School of Medicine
- Best clinical poster, 2011 MD/MBA Conference – “Paying Surgeons Less Has Cost More”
- Graduated with Honors from Stanford University, BS, 2007

## **LEADERSHIP & COMMITTEES**

- Member, Section on Minimally Invasive Procedures, North American Spine Society, 2019-present
- Member, activL Artificial Disc Publication Committee, 2019-present
- Assistant Fellowship Director, Texas Back Institute, 2018-present
- Publications Committee Member, International Society for the Advancement of Spine Surgery, 2018-present
- Chairman (2016-2017), Vice Chairman (2015-2016), House Staff Quality and Safety Council, Hospital for Special Surgery
- Adviser, Center for the Advancement of Value in Musculoskeletal Care, Hospital for Special Surgery, 2015-2017
- Planning Member, Quality Improvement Continuing Education Committee’s Neurological Assessment of Lower Limbs Initiative, Hospital for Special Surgery, 2014-2016
- Residency Class Float (i.e., representative), Hospital for Special Surgery, 2014-2017
- Co-President (2010-2011), Vice President (2009-2010), Leo Leung Orthopaedic Society, orthopedic student interest group at the Perelman School of Medicine
- Lifestyle Education Coordinator, United Community Clinics, 2008

## **BOARD CERTIFICATION**

- 2017 – Passed American Board of Orthopaedic Surgery Part I (Board Eligible)

## **PROFESSIONAL SOCIETY MEMBERSHIPS**

- Society for Minimally Invasive Spine Surgery
- North American Spine Society
- International Society for the Advancement of Spine Surgery
- AOSpine

## **EDITORIAL RESPONSIBILITIES**

- Editorial Board Member, *Contemporary Spine Surgery*, 2018-present

- Editorial Board Member, *Vertebral Columns*, 2018-present
- Reviewer, *The Spine Journal*, 2018-present
- Reviewer, *HSS Journal*, 2014-present

## **PUBLICATIONS**

### **PEER-REVIEWED**

1. Khan JM, Harada GK, Basques BA, Nolte MT, Louie PK, Iloanya M, Tchalukov K, Berkowitz M, **Derman P**, Colman M, An HS. Patients with Predominantly Back Pain at the Time of Lumbar Fusion for Low-grade Spondylolisthesis Experience Similar Clinical Improvement to Patients with Predominantly Leg Pain: Mid-Term Results. *Spine J.* 2019 Sep 26. pii: S1529-9430(19)31006-X. [Epub ahead of print]. PMID: 31563578.
2. Haddas R, Ju KL, Boah A, Kosztowski T, **Derman PB**. The Effect of Surgical Decompression on Functional Balance Testing in Patients with Cervical Spondylotic Myelopathy. *Clin Spine Surg.* 2019 Sep 6. doi: 10.1097/BSD.0000000000000889. [Epub ahead of print]. PMID: 31498275.
3. **Derman PB**, Phillips FM. Complication Avoidance in Minimally Invasive Spinal Surgery. *J Spine Surg.* 2019 Jun;5(Suppl 1):S57-S67. PMID: 31380493.
4. Haddas R, Cox J, Belanger T, Ju KL, **Derman PB**. Characterizing Gait Abnormalities in Patients with Cervical Spondylotic Myelopathy: A Neuromuscular Analysis. *Spine J.* 2019 Jun 14. pii: S1529-9430(19)30799-5. [Epub ahead of print]. PMID: 31207317.
5. Lovecchio F, Stepan JG, Premkumar A, Steinhaus ME, Sava M, **Derman P**, Kim HJ, Albert T. An Institutional Intervention to Modify Opioid Prescribing Practices After Lumbar Spine Surgery. *J Neurosurg Spine.* 2019 Feb 5:1-8. [Epub ahead of print]. PMID: 30738410.
6. Schadler P, **Derman P**, Shue J, Koutsoumbelis S, Lee L, Do H, Sama AA, Girardi FP, Cammisa FP, Hughes AP. Does the Addition of Either a Lateral or Posterior Interbody Device to Posterior Instrumented Fusion Decrease Cost Over a 6-Year Period? *Global Spine J.* 2018 Aug;8(5):471-477. PMID: 30258752.
7. Movassaghi K, Basques BA, Louie PK, Khan JM, **Derman PB**, Nolte MT, Paul JC, Goldberg EJ, An HS. The Duration of Symptoms Does Not Impact Clinical Outcomes Following Lumbar Decompression Surgery. *Spine (Phila Pa 1976).* 2019 Mar 1;44(5):305-308. PMID: 30059490.
8. Khormae S, Samuel AM, Schairer WW, **Derman PB**, McLawhorn AS, Fu MC, Albert TJ. Discharge to Inpatient Facilities After Lumbar Fusion Surgery is Associated with Increased Post-Operative Venous Thromboembolism and Readmissions. *Spine J.* 2019 Mar;19(3):430-436. PMID: 29864544
9. **Derman PB**, Phillips FM. Radiographic Measurements of Spinal Alignment – Which are Clinically Relevant? *Contemporary Spine Surgery.* 2018 April 1;19(4):1-7.
10. Shifflett GD, Iyer S, **Derman PB**, Louie PK, An HS. Upper Cervical Radiculopathy: the Hidden Pathology of the Spine. *Spine Surg Relat Res.* 2018; 2(2): 93-97. DOI: 10.22603/ssrr.2017-0077.
11. Salzmann SN, **Derman PB**, Lampe LP, Kueper J, Pan TJ, Yang J, Shue J, Girardi FP, Lyman S, Hughes AP. Cervical Spinal Fusion: 16-Year Trends in Epidemiology, Indications, and In-hospital Outcomes by Surgical Approach. *World Neurosurg.* 2018 May;113:e280-e295. PMID: 29438790.
12. **Derman PB**, Lampe LP, Pan TJ, Salzmann SN, Kueper J, Girardi FP, Lyman S, Hughes AP. Post-Operative Emergency Department Utilization and Hospital Readmission After Cervical Spine Arthrodesis: Rates, Trends, Causes, and Risk Factors. *Spine (Phila Pa 1976).* 2018 Aug 1;43(15):1031-1037. PMID: 29215499.
13. **Derman PB**, Albert TJ. Interbody Fusion Techniques in the Surgical Management of Degenerative Lumbar Spondylolisthesis. *Curr Rev Musculoskelet Med.* 2017 Dec;10(4):530-538. PMID: 29076042.
14. Lovecchio F, **Derman P**, Stepan J, Iyer S, Christ A, Grimaldi P, Kumar K, Ranawat A, Taylor SA. Support for Safer Opioid Prescribing Practices: A Catalog of Published Use After Orthopaedic Surgery. *J Bone Joint Surg Am.* 2017 Nov 15;99(22):1945-1955. PMID: 29135671.
15. Fu MC, Gruskay JA, Samuel AM, Sheha ED, **Derman PB**, Iyer S, Grauer JN, Albert TJ. Outpatient Anterior Cervical Discectomy and Fusion is Associated with Fewer Short-Term Complications in One- and Two-Level Cases: A Propensity-Adjusted Analysis. *Spine (Phila Pa 1976).* 2017 Jul 15; 42(14):1044-1049. PMID: 28697092.
16. **Derman PB**, Iyer S, Garner M, Orr S, Felix KJ, Goldberg A, Ologhobo T, Wu M, Robbins L, Cornell C. An Initiative to Standardize the Identification of and Acute Response to Postoperative Lower-Extremity

- Neurological Deficits: Effects on Provider Knowledge, Confidence, and Communication Skills. *J Bone Joint Surg Am.* 2016 Dec 7;98(23):e105. PMID: 27926687.
17. **Derman PB**, Lampe LP, Lyman S, Kueper J, Pan TJ, Girardi FP, Albert TJ, Hughes AP. Atlantoaxial Fusion: Sixteen Years of Epidemiology, Indications, and Complications in New York State. *Spine (Phila Pa 1976).* 2016 Oct 15;41(20):1586-1592. PMID: 27046634.
  18. Clement RC, Gray CM, Kheir MM, **Derman PB**, Speck RM, Levin LS, Fleisher LA. Will Medicare Readmission Penalties Motivate Hospitals to Reduce Arthroplasty Readmissions? *J Arthroplasty.* 2016 Aug 31. pii: S0883-5403(16)30578-2. doi: 10.1016/j.arth.2016.08.031. Epub 2016 Aug 31. PMID: 27712937.
  19. **Derman PB**, Lampe LP, Hughes AP, Pan TJ, Kueper J, Girardi FP, Albert TJ, Lyman S. Demographic, Clinical, and Operative Factors Affecting Long-Term Revision Rates After Cervical Spine Arthrodesis. *J Bone Joint Surg Am.* 2016 Sep 21;98(18):1533-40. doi: 10.2106/JBJS.15.00938. PMID: 27655980.
  20. Clement RC, **Derman PB**, Kheir MM, Soo AE, Flynn DN, Levin LS, Fleisher L. Risk Adjustment for Medicare Total Knee Arthroplasty Bundled Payments. *Orthopedics.* 2016 Sep 1;39(5):e911-6. PMID: 27359282.
  21. Clement RC, Soo AE, Kheir MM, **Derman PB**, Flynn DN, Levin LS, Fleisher L. What Incentives are Created by Medicare Payments for Total Hip Arthroplasty? *J Arthroplasty.* 2016 Sep;31(9 Suppl):69-72. PMID: 27184466.
  22. Clement RC, Kheir MM, Soo AE, **Derman PB**, Levin LS, Fleisher L. What Financial Incentives will be Created by Medicare Bundled Payments for Total Hip Arthroplasty? *J Arthroplasty.* 2016 Sep;31(9):1885-9. PMID: 27067173.
  23. Iyer S, **Derman P**, Sandhu HS. Orthopedics and the Sunshine Act: An Examination of Payments to Orthopedic Surgeons in the Open Payments Database. *J Bone Joint Surg Am.* 2016 March;98(5):e18. doi:10.2106/JBJS.O.00343. PMID: 26935466.
  24. Nemani VM, **Derman PB**, Kim HJ. Osteotomies in the Cervical Spine. *Asian Spine J.* 2016 Feb;10(1):184-195. doi:10.4184/asj.2016.10.1.184. PMID: 26949476.
  25. **Derman PB**, Liu J, McLawhorn AS. 24-Hour Fitness: the Orthopedic Resident On-Call Workout. *HSS J.* 2015 Oct;11(3):294-298. PMID: 26981065.
  26. Bjerke BT, Cheung ZB, Shifflett GD, Iyer S, **Derman PB**, Cunningham ME. Do Current Recommendations for Upper Instrumented Vertebra Predict Shoulder Imbalance? An Attempted Validation of Level Selection for Adolescent Idiopathic Scoliosis. *HSS J.* 2015 Oct;11(3):216-22. PMID: 26981056.
  27. Kheir MM, Clement RC, **Derman PB**, Flynn DN, Speck RM, Levin LS, Fleisher LA. Are There Identifiable Risk Factors and Causes Associated with Unplanned Readmissions Following Total Knee Arthroplasty? *J Arthroplasty.* 2014 Nov;29(11):2192-6. PMID: 25081513.
  28. Kamath AF, Austin DC, **Derman PB**, Clement RC, Garino JP, Lee GC. Saline-coupled bipolar sealing in simultaneous bilateral total knee arthroplasty. *Clin Orthop Surg.* 2014 Sep;6(3):298-304. PMID: 25177455.
  29. Clement RC, Kheir MM, **Derman PB**, Flynn DN, Speck RM, Levin LS, Fleisher LA. What Are the Economic Consequences of Unplanned Readmissions After TKA? *Clin Orthop Relat Res.* 2014 Oct;472(10):3134-41. PMID: 25034981.
  30. Bernstein J, **Derman P**. Dramatic increase in total knee replacement utilization rates cannot be fully explained by a disproportionate increase among younger patients. *Orthopedics.* 2014 Jul 1;37(7):e656-9. PMID: 25020250.
  31. DeFilippis EM, Kleiman DA, **Derman PB**, DiFelice GS, Eachempati SR. Spinning-induced Rhabdomyolysis and the Risk of Compartment Syndrome and Acute Kidney Injury: Two Cases and a Review of the Literature. *Sports Health.* 2014 Jul;6(4):333-5. PMID: 24982706.
  32. **Derman PB**, Fabricant PD, David G. The Role of Overweight and Obesity in Relation to the More Rapid Growth of Total Knee Arthroplasty Volume Compared with Total Hip Arthroplasty Volume. *J Bone Joint Surg Am.* 2014 Jun 4;96(11):922-928. PMID: 24897740.
  33. **Derman P**, Kamath A, Lee G. Saline-Coupled Bipolar Sealing in Revision Total Knee Arthroplasty for Infection. *Am J Orthop (Belle Mead NJ).* 2013 Sep;42(9):407-11. PMID: 24078964.
  34. Moon ES, Dy CJ, **Derman P**, Vance MC, Carlson MG. Management of nonunion following surgical management of scaphoid fractures: current concepts. *J Am Acad Orthop Surg.* 2013 Sep;21(9):548-57. PMID: 23996986.
  35. Clement RC, **Derman PB**, Graham DS, Speck RM, Flynn DN, Levin LS, Fleisher LA. Risk factors, causes, and the economic implications of unplanned readmissions following total hip arthroplasty. *J Arthroplasty.* 2013 Sep;28(8 Suppl):7-10. PMID: 23953964.

36. Kamath AF, Austin DC, **Derman PB**, Israelite CL. Unplanned Hip Arthroplasty Imposes Clinical and Cost Burdens on Treating Institutions. *Clin Orthop Relat Res*. 2013 Aug 9. Clin Orthop Relat Res. 2013 Dec;471(12):4012-9. PMID: 23928711.
37. Kamath AF, Austin DC, **Derman PB**, Israelite CL. Transfer of Hip Arthroplasty Patients Leads to Increased Cost and Resource Utilization in the Receiving Hospital. *J Arthroplasty*. 2013 Oct;28(9):1687-92. PMID: 23932757.
38. **Derman P**, Kamath A, Horneff J, Garnino J. Cement Technique for Reducing Post-Operative Bursitis After Trochanteric Fixation. *Acta Orthopaedica Belgica*. 2013 Feb;79(1):107-10. PMID: 23547525.
39. Bernstein J, **Derman P**. Paying Surgeons Less Has Cost More. *Orthopedics*. 2012 Dec 1;35(12):e1804-6. PMID: 23218640.
40. Clement RC, Kamath AF, **Derman PB**, Garino JP, Lee GC. Bipolar Sealing in Revision Total Hip Arthroplasty for Infection: Efficacy and Cost Analysis. *J Arthroplasty*. 2012 Aug;27(7):1376-81. PMID: 22266048.
41. Moss HA, **Derman PB**, Clement RC. Medical Student Perspective: Working Toward Specific and Actionable Clinical Clerkship Feedback. *Med Teach*. 2012;34(8):665-7. PMID: 22830325.
42. Wu C, **Derman P**. Student-to-Student Lectureship in Musculoskeletal Education – A Case Report. *University of Pennsylvania Orthopaedic Journal*. 2012;22:80-1.
43. **Derman PB**, Kulkarni SS, Dormans JP. Orthopaedic Manifestations of Lenz Microphthalmia Syndrome. *J Pediatr Orthop*. 2011 Sep;31(6):e64-9. PMID: 21841432.
44. **Derman P**, Kamath AF, Kelly IV JD. Ganglion Cysts of the Posterior Cruciate Ligament. *Am J Orthop (Belle Mead NJ)*. 2011 May;40(5):257-258. PMID: 21734935.

## BOOK CHAPTERS

1. **Derman PB**, Zigler J, Guyer R, Blumenthal S, Lieberman IH. Lumbar Disc Arthroplasty. In: Winn HR, ed. *Youmans and Winn Neurological Surgery*. 8<sup>th</sup> ed. Philadelphia, PA: Elsevier; in press.
2. **Derman P**, Sheha E, Craig CM. Chapter 1, Pulmonary and Chest Wall Physiology. In: Baaj A, Kakarla K, Kim HJ, eds. *Surgery of the Thoracic Spine: Principles and Techniques*. New York, NY: Thieme Medical Publishers, Inc., 2019. p.2-9.
3. **Derman PB**, Rihn J, Albert TJ. Chapter 63, Surgical Management of Lumbar Spinal Stenosis. In: Garfin SR, Bell GR, Eismont FJ, Fischgrund JD, Bono CM, eds. *Rothman-Simeone The Spine*. 7<sup>th</sup> ed. Philadelphia, PA: Saunders Elsevier, 2017. p.1039-1057.
4. Nemani VM, **Derman PB**, Kim HJ. Corrective Osteotomies of the Cervical Spine. In: Kaplan L, Lenke L, eds. *Rigid Spine Deformities*. Stuttgart, Germany: Thieme Medical Publishers; in press.

## EDITORIALS, LETTERS TO THE EDITOR, & OTHER

1. Ahn J, Blumenthal S, **Derman PB**. Physician-owned hospitals in orthopedic and spine surgery. *Ann Transl Med*. 2019 Sep;7(Suppl 5):S162. PMID: 31624728.
2. **Derman P**. Maximizing Lordosis with Minimally Invasive TLIF, Part 2: Cage Selection and Placement. *Vertebral Columns*. Summer 2019; p. 6-7.
3. **Derman P**. Maximizing Lordosis with Minimally Invasive TLIF, Part 1: Key Considerations Prior to Cage Placement. *Vertebral Columns*. Spring 2019; p. 12-13.
4. **Derman PB**, Brice S. Strategies for Success with Spine Bundled Payments. *Vertebral Columns*. Winter 2019; p. 5-6.
5. Kamath AF, Austin DC, **Derman PB**, Clement RC, Garino JP, Lee GC. Blood Transfusion Rates as a Primary Outcome Measure: The Use of Predetermined Triggers and Display of Clinical Indications in Providing Accurate Comparative Transfusion Rates: In Reply. *Clin Orthop Surg*. 2017 Mar;9(1):128. PMID: 28275424.
6. Wu C, **Derman P**. Confronting the New Reality of Health Care: A Call for Management and Economic Training in Medical Education. *Acad Med*. 2013 May;88(5):556. PMID: 23611963.
7. Clement RC, **Derman P**, Moss H. Management Lessons for Improving Medical Students' Clerkship Experience. *Acad Med*. 2012 Jan;87(1):4. PMID: 22201630.
8. **Derman P**, Derman A. Unitization – A Mathematical Formula to Calculate Redeterminations. *Association of International Petroleum Negotiators Advisor*. 2002; 225.

## RESEARCH PRESENTATIONS

1. Haddas R, Block A, **Derman P**. The Effect of Surgical Decompression and Fusion on Functional Balance in Patients with Degenerative Lumbar Spondylolisthesis. The International Society for the Advancement of Spine Surgery (ISASS) Annual Conference. February 28, 2020. (podium presentation)
2. **Derman P**, Lauderback A, Kalafchi E, Ohnmeiss D. Indirect Decompression for the Treatment of Degenerative Lumbar Stenosis. Society for Minimally Invasive Spine Surgery Annual Forum. November 2, 2019. (podium presentation)
3. Haddas R, **Derman P**, Burlison J, Block A, Lieberman IH. The Effect of Surgical Decompression and Fusion on Balance in Patients with Degenerative Lumbar Spondylolisthesis. Society for Minimally Invasive Spine Surgery Annual Forum. November 2, 2019. (podium presentation)
4. Haddas R, Arakal R, Belanger T, Boah A, Kosztowski T, Perez Y, **Derman P**. The Effect of Surgical Decompression on Spine and Lower Extremity Range of Motion during Gait in Patients with Cervical Spondylotic Myelopathy. North American Spine Society Annual Meeting. September 2019. (podium presentation)
5. Does the number of patient-reported allergies impact clinical outcomes after lumbar spinal fusion? JM Khan, B Basques, DG Oh, Z Hayani, J Hwang, KA Tchalukov, **PB Derman**, HS An, M Colman. North American Spine Society Annual Meeting. September 2019. (podium presentation)
6. Haddas R, Lieberman IH, **Derman PB**. The Effect of Surgical Decompression on Spine and Lower Extremity Range of Motion during Gait in Patients with Cervical Spondylotic Myelopathy. International Meeting on Advanced Spine Techniques (IMAST). July 2019. (podium presentation, nominated for Whitecloud Award for Best Basic Science Paper)
7. Haddas R, Lieberman IH, **Derman PB**. Cervical Decompression Surgery Improves Dynamic Balance in Cervical Spondylotic Myelopathy Patients. International Meeting on Advanced Spine Techniques (IMAST). July 2019. (e-poster)
8. Lovecchio F, Premkumar A, Stepan JG, Mejia D, Stein D, Patel D, Khechen B, **Derman P**, Iyer S, Lebl DR, Qureshi S, Lafage V, Huang RC, Singh K, Albert TJ. Prospective Enumeration of Opioid Consumption Patterns after Lumbar Decompression or Microdiscectomy Using a Novel Text Messaging System. International Meeting on Advanced Spine Techniques (IMAST). July 19, 2019. (podium presentation)
9. Movassaghi K, Basques B, Louie P, Khan J, **Derman P**, Nolte M, Paul J, Goldberg E, An H. The Duration of Symptoms Does Not Impact Clinical Outcomes Following Lumbar Decompression Surgery. State of Spine Surgery Think Tank. June 27, 2019. (podium presentation)
10. Basques B, Nolte M, Khan J, Kadakia K, Gosse J, Mormol J, **Derman P**, Colman M, An H. Patients with Predominantly Back Pain at the Time of Posterior Lumbar Fusion Experience Similar Clinical Improvement To Patients With Predominantly Leg Pain. International Society for the Advancement of Spine Surgery Annual Meeting. April 5, 2019. (podium presentation)
1. Khan J, Basques B, Gosse J, Hayani Z, Grewal G, Hwang J, Tchalukov K, **Derman P**, Colman M, An H. Does the Number of Patient-Reported Allergies Impact Clinical Outcomes after Lumbar Spinal Fusion? Lumbar Spine Research Society Annual Meeting. April 4, 2019. (podium presentation)
2. Basques B, Khan J, **Derman P**, Kadakia K, Fleming A, Hwang J, Chen I, Banks L, An H. Are Clinical Outcomes and Lumbar Sagittal Parameters Comparable Between Upper and Lower Lumbar Spine Fusions? Global Spine Congress. May 2019. (poster presentation)
3. Khan J, Basques B, Oh J, Hayani Z, Hwang J, Tchalukov K, **Derman P**, An H, Colman M. Does the Number of Patient-Reported Allergies Impact Clinical Outcomes After Lumbar Spinal Fusion? Global Spine Congress. May 2019. (poster presentation)
4. Basques B, Nolte M, Khan J, Kadakia K, Gosse J, Mormol J, **Derman P**, Colman M, An H. Patients with Predominantly Back Pain at the Time of Posterior Lumbar Fusion Experience Similar Clinical Improvement to Patients with Predominantly Leg Pain. Global Spine Congress. May 2019. (poster presentation)
5. Khan J, Basques B, Oh J, Michalski J, Hwang J, Tchalukov K, **Derman P**, An H, Colman M. Does the Number of Patient-Reported Allergies Impact Clinical Outcomes after Lumbar Spinal Fusion? ORS Great Lakes/Midwest Regional Symposium. August 2018. (poster presentation)
6. Haws BE, Louie PK, Khechen B, Patel DV, **Derman P**, Varthi AG, Phillips FM, Colman MW, DeWald C, Singh K. The Utility of Standing Full-Length Plain Radiographs in an Adult Degenerative Spine Practice. Society for Minimally Invasive Spine Surgery. September 2018. (poster presentation)

7. Stepan JG, Fu MC, Lovecchio FC, Premkumar A, Grimaldi P, **Derman P**, Taylor SA, Ranawat AS. Narcotic Prescribing Education Program and Standardized Service Guidelines Change Prescribing Practices after Arthroscopic Knee Surgery. American Academy of Orthopaedic Surgeons Annual Meeting. March 2018. (podium presentation)
8. DeWald C, **Derman P**. PJK & PJF: Evaluation & Management. International Spinal Deformity Symposium. November 2017. (podium presentation)
9. Samuel AM, Fu MC, Schairer WW, **Derman PB**, McLawhorn AS, Albert TJ. Continued Inpatient Care After Posterior Lumbar Fusion Is Associated With Increased Post-Discharge Complications: A Propensity-Adjusted Analysis. Lumbar Spine Research Society Annual Meeting. April 2017. (poster presentation)
10. Schadler P, **Derman P**, Shue J, Koutsoumbelis S, Lee L, Do H, Sama AA, Girardi FP, Cammisa FP, Hughes AP. Does the Addition of Either a Lateral or Posterior Interbody Device to Posterior Instrumented Fusion Decrease Cost Over a 6 Year Period? Global Spine Congress. May 2017. (podium presentation)
11. Schadler P, **Derman P**, Shue J, Koutsoumbelis S, Lee L, Do H, Sama AA, Girardi FP, Cammisa FP, Hughes AP. Does the Addition of Either a Lateral or Posterior Interbody Device to Posterior Instrumented Fusion Decrease Cost Over a 6 Year Period? International Society for the Advancement of Spine Surgery Annual Conference. April 2017. (podium presentation)
12. Fu MC, Samuel AM, Sheha ED, **Derman PB**, Iyer S, Grauer JN, Kim HJ. Outpatient Procedures Reduce Short-Term Complications in One- and Two-Level Anterior Cervical Discectomy and Fusion: A Propensity-Adjusted Analysis of 14,434 Patients. International Society for Advancement of Spine Surgery Annual Conference. April 2016. (podium presentation)
13. Clement RC, Kheir MM, Soo A, **Derman PB**, Flynn D, Levin LS, Fleisher L. How will the Financial Impact of Major Medical Complications after TKA Change with Bundled Payments? American Academy of Orthopaedic Surgeons Annual Meeting. March 2016. (podium presentation)
14. Clement RC, Soo A, Kheir MM, **Derman PB**, Flynn D, Levin LS, Fleisher L. Medicare Payments for THA Create a Financial Incentive Favoring Low-Risk Patients. American Academy of Orthopaedic Surgeons Annual Meeting. March 2016. (podium presentation)
15. Clement RC, Kheir MM, Soo A, **Derman PB**, Flynn D, Levin LS, Fleisher L. How will the Financial Incentive to Provide THA for High-risk Patients Change with Bundled Payments? American Academy of Orthopaedic Surgeons Annual Meeting. March 2016. (podium presentation)
16. Felix K, **Derman P**, Iyer S, Orr S, Goldberg A, Robbins L. Quality Improvement Continuing Education (QICE): The Neurological Assessment of Lower Limbs. Greater New York Hospital Association Symposium on Health Care Transformation. January 2016. (podium presentation)
17. Lampe LP, Hughes AP, **Derman P**, Kueper J, Pan TJ, Girardi FP, Albert TJ, Lyman S. Cervical Spine Fusion: 16-Year Trends in Epidemiology, Indications, and Bone Morphogenetic Protein Utilization by Surgical Approach. Cervical Spine Research Society Annual Meeting. December 2015. (e-poster presentation)
18. Clement RC, Kheir MM, Soo A, **Derman PB**, Flynn D, Levin LS, Fleisher L. How will the Financial Impact of Major Medical Complications after TKA Change with Bundled Payments? American Association of Hip and Knee Surgeons Annual Meeting. November 2015. (poster presentation)
19. Kheir MM, Clement RC, Soo A, **Derman PB**, Flynn D, Levin LS, Fleisher L. How will the Financial Incentive to Provide THA for High-risk Patients Change with Bundled Payments? American Association of Hip and Knee Surgeons Annual Meeting. November 2015. (poster presentation)
20. Clement RC, Kheir MM, Soo A, **Derman PB**, Flynn D, Levin LS, Fleisher L. How will Financial Incentives to Provide TKA & THA for High-risk Patients Change with Bundled Payments? North Carolina Orthopaedic Association Annual Meeting. October 2015. (podium presentation)
21. Iyer S, **Derman PB**, Sandhu HS. Orthopedics and the Sunshine Act: Payments in the Open Payments Database. Association of Bone and Joint Surgeons Annual Meeting. July 2015. (podium presentation)
22. Iyer S, **Derman PB**, Sandhu HS. Orthopedics and the Sunshine Act: Payments in the Open Payments Database. Eastern Orthopaedic Association Annual Meeting. April 2015. (podium presentation)
23. Bjerke-Kroll B, Cheung Z, Shifflett G, Iyer S, **Derman P**, Liu J, Cunningham M. Do Upper Instrumented Vertebra Selection Recommendations Predict Shoulder Imbalance? Orthopaedic Research Society Annual Meeting. March 2015. (poster presentation)

24. **Derman PB**, McLawhorn AS, Lane JM. Pubic Ramus Fractures - Financial Implications of Eliminating Medicare's Three-Day Hospital Stay Requirement. American Academy of Orthopaedic Surgeons Annual Meeting. March 2015. (podium presentation)
25. Clement RC, McAuliffe C, Kheir MM, **Derman P**, Flynn DN, Speck R, Levin LS, Fleisher LA. What are the Economic Consequences of Unplanned Readmissions following Total Hip Arthroplasty? American Academy of Orthopaedic Surgeons Annual Meeting. March 2015. (podium presentation)
26. Clement RC, Kheir MM, **Derman P**, Speck R, Flynn DN, Levin LS, Fleisher LA. What Incentives are Created by Medicare Payments for Total Knee Arthroplasty? American Academy of Orthopaedic Surgeons Annual Meeting. March 2015. (podium presentation)
27. Clement RC, Kheir MM, **Derman P**, Speck R, Flynn DN, Levin LS, Fleisher LA. How will Financial Incentives to Provide TKA for Sicker Patients Change with Bundled Payments? American Academy of Orthopaedic Surgeons Annual Meeting. March 2015. (podium presentation)
28. Clement RC, Kheir MM, **Derman P**, Speck R, Flynn DN, Levin LS, Fleisher LA. What Incentives are Created by Medicare Payments for Total Hip Arthroplasty? American Academy of Orthopaedic Surgeons Annual Meeting. March 2015. (podium presentation)
29. Clement RC, Kheir MM, **Derman P**, Speck R, Flynn DN, Levin LS, Fleisher LA. How will Financial Incentives to Provide THA for Sicker Patients Change with Bundled Payments? American Academy of Orthopaedic Surgeons Annual Meeting. March 2015. (podium presentation)
30. Nemani V, Kim HJ, Mina C, Bjerke-Kroll B, **Derman P**, Ross T, Cunningham ME, Rawlins BA, Boachie-Adjei O. Post-Operative Blood Salvage and Autotransfusion for Adult Spinal Deformity: A Randomized Controlled Trial. American Academy of Orthopaedic Surgeons Annual Meeting. March 2015. (podium presentation)
31. McLawhorn AS, **Derman P**, Nwachukwu BU, Figgie MP. Factors Influencing Demand for Total Hip Arthroplasty in Patients Less Than 65 Years of Age. American Academy of Orthopaedic Surgeons Annual Meeting. March 2015. (podium presentation)
32. Bjerke-Kroll B, Cheung ZB, Shifflett G, Iyer S, **Derman P**, Liu J, Cunningham ME. Do Upper Instrumented Vertebra Selection Recommendations Predict Shoulder Imbalance? American Academy of Orthopaedic Surgeons Annual Meeting. March 2015. (poster presentation)
33. McLawhorn AS, **Derman PB**, Nwachukwu BU, Figgie MP. Factors Influencing Demand for Total Hip Arthroplasty in Patients Less Than 65-Years-Old. American Association of Hip and Knee Surgeons Annual Meeting. November 2014. (poster presentation)
34. Clement RC, Kheir MM, **Derman PB**, Flynn D, Speck RM, Levin LS, Fleisher L. What Incentives Are Created by Medicare Payments for Total Hip and Knee Arthroplasty? American Association of Hip and Knee Surgeons Annual Meeting. November 2014. (podium presentation)
35. Clement RC, Kheir MM, **Derman PB**, Flynn D, Speck RM, Levin LS, Fleisher L. How Will Financial Incentives to Provide TKA for Sicker Patients Change with Bundled Payments? American Association of Hip and Knee Surgeons Annual Meeting. November 2014. (poster presentation)
36. Clement RC, McCauliffe CL, Kheir MM, **Derman PB**, Flynn D, Speck RM, Levin LS, Fleisher L. What Are the Economic Consequences of Unplanned Readmissions Following Total Hip Arthroplasty? American Association of Hip and Knee Surgeons Annual Meeting. November 2014. (poster presentation)
37. Bjerke-Kroll BT, Cheung ZB, Shifflet GD, Iyer S, **Derman PB**, Cunningham ME. Shoulder Imbalance at Minimum One-Year Follow-up in 172 Patients with Adolescent Idiopathic Scoliosis: Attempted Validation of Prior Recommendations for Upper Instrumented Vertebra Selection. International Meeting on Advanced Spine Techniques. July 2014. (poster presentation)
38. Clement RC, Kheir MM, **Derman PB**, Flynn DN, Speck RM, Levin LS, Fleischer LA. What are the Economics of Unplanned Readmissions after TKA? American Academy of Orthopaedic Surgeons Annual Meeting. March 2014. (podium presentation)
39. Clement RC, Kheir MM, **Derman PB**, Flynn DN, Speck RM, Levin LS, Fleischer LA. Are there Identifiable Risk Factors or Causes Associated with Unplanned Readmission Following TKA? American Academy of Orthopaedic Surgeons Annual Meeting. March 2014. (podium presentation)
40. Kamath AF, Austin DC, **Derman PB**, Israelite CL. The Institutional Burden of Emergent Hip Arthroplasty. American Academy of Orthopaedic Surgeons Annual Meeting. March 2014. (podium presentation)



41. Kamath AF, Austin DC, **Derman PB**, Israelite CL. Transfer of Hip Arthroplasty Patients Leads to Increased Cost and Resource Utilization in the Receiving Hospital. American Academy of Orthopaedic Surgeons Annual Meeting. March 2014. (poster presentation)
42. Kamath AF, Austin DC, **Derman PB**, Israelite CL. Transfer of Hip Arthroplasty Patients Leads to Increased Cost and Resource Utilization in the Receiving Hospital. American Academy of Orthopaedic Surgeons Annual Meeting. March 2014. (poster presentation)
43. Kamath AF, Austin DC, **Derman PB**, Israelite CL. Transfer of Hip Arthroplasty Patients Leads to Increased Cost and Resource Utilization in the Receiving Hospital. American Association of Hip and Knee Surgeons Annual Meeting. November 2013. (podium presentation)
44. Kamath AF, Austin DC, **Derman PB**, Israelite CL. The Institutional Burden of Emergent Hip Arthroplasty. American Association of Hip and Knee Surgeons Annual Meeting. November 2013. (poster presentation)
45. Kamath A, Austin D, **Derman P**, Israelite C. Transfer of Orthopedic Care: Referral / Transfer Patients Cost More than Elective In-System Patients. American Orthopaedic Association Annual Meeting. June 2013. (podium presentation)
46. Clement RC, Kheir MM, **Derman PB**, Flynn D, Speck RM, Levin LS, Fleisher L. Unplanned Readmissions after Total Knee Arthroplasty: Risk Factors, Causes, Financial Implications and the Potential Impact of Health Care Reform. North Carolina Orthopaedic Association Annual Meeting. November 2013 (podium presentation)
47. Clement RC, **Derman PB**, Flynn DN, Speck RM, Levin LS, Fleisher LA. Risk Factors, Causes, and the Economic Implications Unplanned Readmissions Following Total Hip Arthroplasty. American Association of Hip and Knee Surgeons Annual Meeting. November 2012. (podium presentation)
48. **Derman PB**, David G. The Role of Overweight and Obesity in Explaining the More Rapid Growth in Total Knee than Total Hip Arthroplasty Volumes. American Association of Hip and Knee Surgeons Annual Meeting. November 2012. (poster presentation)
49. Bernstein J, **Derman P**. The Dramatic Increase in Total Knee Replacement Utilization Rates in the United States Cannot Be Fully Explained by a Disproportionate Increase in Total Knee Replacements Among Younger Patients. American Association of Hip and Knee Surgeons Annual Meeting. November 2012. (poster presentation)
50. Clement RC, **Derman PB**, Flynn DN, Speck RM, Levin LS, Fleisher LA. Risk Factors, Causes, and the Economic Implications of Unplanned Readmissions Following Total Knee Arthroplasty. American Association of Hip and Knee Surgeons Annual Meeting. November 2012. (poster presentation)
51. **Derman P**, Kamath A, Horneff J, Garnino J. Cement Technique for Reducing Post-Operative Bursitis After Trochanteric Fixation in Total Hip Arthroplasty. AO North America's 2012 Challenges in Fracture Care Across Disciplines Meeting. February 2012. (podium presentation)
52. **Derman P**, Kamath A, Lee G. Efficacy and Cost Analysis of Saline-Coupled Bipolar Sealing in Revision Total Knee Arthroplasty for Infection. Eastern Orthopaedic Association Annual Meeting. October 2011. (podium presentation)
53. Clement RC, **Derman P**, Kamath A, Lee G. Efficacy and Cost Analysis of Saline-Coupled Bipolar Sealing in Revision Total Hip Arthroplasty for Infection. International Society for Technology in Arthroplasty Annual Congress. September 2011. (poster presentation)
54. **Derman P**, Kamath A, Lee G. Saline-Coupled Bipolar Sealing is Cost Effective in Infected Revision TKA. Musculoskeletal Infection Society Annual Meeting. August 2011. (podium presentation)
55. **Derman P**, Bernstein J. Paying Surgeons Less Has Cost More. Association of MD/MBA Programs Annual Conference. April 2011. (poster presentation)
56. **Derman P**, Bernstein J. Paying Surgeons Less Has Cost More. American Academy of Orthopaedic Surgeons Annual Meeting. February 2011. (podium presentation)
57. **Derman P**, Bernstein J. Paying Surgeons Less Has Cost More. Penn Center for Musculoskeletal Disorders Scientific Symposium. November 2010. (poster presentation)
58. **Derman P**, Cord B, Palmer T. Transcriptional Networks Underlying Metabolic Oscillations. Stanford Achauer Biology Honors Research Symposium. May 2007. (poster presentation)

## **INVITED LECTURES**

1. **Derman P**. Sagittal Parameters: Where We Started and Where We are Now. Society for Minimally Invasive Spine Surgery Annual Forum. November 2, 2019.

2. **Derman P.** Marketing Forces and Financial Reimbursement are Driving MIS Decision Making. Society for Minimally Invasive Spine Surgery Annual Forum. November 2, 2019.
3. **Derman P.** 35F with Low Back Pain. Part of Session on Degenerative Lumbar Discs and Back Pain. AOTK Experts' Symposium. September 20, 2019.
4. **Derman P.** Active 79M with Bilateral Lower Extremity Pain. Part of Session on Lumbar Stenosis and Spondylolisthesis. AOTK Experts' Symposium. September 21, 2019.
5. **Derman PB.** Relationship Between Outcome Questionnaires & Functional Analysis Parameters. Part of the Symposium on the Utility of Functional Analysis in Patients Afflicted with Spinal Disorders. North American Spine Society Annual Meeting. September 27, 2019.
6. **Derman PB.** Innovation at Texas Back Institute: Minimally Invasive Spine Surgery. Mazama Spine Summit. January 26, 2019.
7. **Derman PB.** What is Minimally Invasive Spine Surgery? Texas Back Institute Grand Rounds. January 18, 2019.
8. **Derman P, Phillips F.** Achieving Lordosis with MIS TLIF. VuMedi webinar: How to Maximize Fusion and Lordosis in MIS TLIF. February 27, 2018.

### **NON-ACADEMIC PURSUITS**

- Former competitive gymnast (1990 – 2007): Elected Co-Captain (2005-2007) of Stanford University's NCAA Division I Varsity Men's Gymnastics Team and led 15-man team from consistent 8<sup>th</sup> place rankings to two 3<sup>rd</sup> place finishes, paving way for 2009 NCAA national championship victory. Won All-American honors on still rings during three collegiate seasons. Earned First Team All-America Scholar Athlete status four consecutive years. Received the NCAA Postgraduate Scholarship for Academic/Athletic Excellence.
- Sailed 65-foot sloop from Los Angeles, CA, to Honolulu, HI, as part of 13-member crew in 2007 Transpacific Yacht Race.
- Traveled extensively on six continents. Enjoy exercising, escaping the city with wife and son, and brewing beer.