

CURRICULUM VITAE

Name: Clinton James Devin

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PERSONAL DATA

Date & Place of Birth: September 18, 1975
Laramie, WY

Personal Data: Married: Jessica Devin, MD
(Physician Scientist, Vanderbilt University Medical Center,
Nashville, TN)

EDUCATION

College

August 1994-May 1998 University of Wyoming, Laramie, WY
Bachelor of Science - Molecular Biology

Graduate

August 1998-May 2002 Vanderbilt University School of Medicine, Nashville, TN
Medical Doctor

Post-Graduate

July 2002-June 2003 Resident – General Surgery
Vanderbilt University School of Medicine, Nashville, TN
Department of Orthopaedics & Rehabilitation

July 2003-June 2006 Resident – Orthopaedic Surgery
Vanderbilt University School of Medicine, Nashville, TN
Department of Orthopaedics & Rehabilitation

July 2006-June 2007 Chief Resident – Orthopaedic Surgery
Vanderbilt University School of Medicine, Nashville, TN
Department of Orthopaedics & Rehabilitation

August 2007-July 2008 University of Pittsburgh School of Medicine, Pittsburgh, PA
Spine Fellowship – Orthopaedic Spine Surgery

LICENSURE AND CERTIFICATION

Feb 2005-Sept 30, 2018 Tennessee Medical License #: 39664

July 2011-Dec 2021 American Board of Orthopaedic Surgery
Board Certified in Orthopaedic Surgery

ACADEMIC APPOINTMENTS

April 2009-April 2015 Assistant Professor of Orthopaedics & Rehabilitation
Assistant Professor of Neurological Surgery
Vanderbilt University School of Medicine
Nashville, TN

April 2015-February 2018 Associate Professor of Orthopaedics & Rehabilitation
Associate Professor of Neurological Surgery
Vanderbilt University School of Medicine
Nashville, TN

March 1, 2018-Present Adjunct Associate Professor
Department of Orthopaedic Surgery & Rehabilitation
Vanderbilt University School of Medicine

HOSPITAL APPOINTMENTS

August 2008-April 2009 Texas Orthopaedic Hospital
Houston, TX

April 2009-Present Vanderbilt University Medical Center
Nashville, TN

March 2010-2015 St. Thomas Hospital
Nashville, TN

June 2012-Feb 2018 Providence Surgery Center
Mt. Juliet, TN

August 2012-Feb 2018 NorthCrest Medical Center
Springfield, TN

April 2018 – present Steamboat Springs, CO

EMPLOYMENT

August 2008-April 2009 Fondren Orthopaedic Group, Houston, TX
Reconstructive Spine Surgeon

March 1, 2018 – Present Orthopaedics of Steamboat Springs
Steamboat Springs, CO

PROFESSIONAL ORGANIZATIONS

July 2007-Present	<u>Vanderbilt Orthopaedic Society (VOS)</u>
January 2012-Present	<u>North American Spine Society (NASS)</u> <ul style="list-style-type: none">• Committee: Section on Biologics & Basic Research; November 2012-October 2015
Dec 2012-Present	<u>Cervical Spine Research Society (CSRS)</u> <ul style="list-style-type: none">• Committee: Grants Review; January 2014- Present
March 2013-Present	<u>American Academy of Orthopaedic Surgeons (AAOS)</u> <ul style="list-style-type: none">• Active Fellow Class of 2013
June 2015-Present	<u>The American Orthopaedic Association (AOA)</u>

PROFESSIONAL ACTIVITIES

INTRAMURAL

April 2009-February 2018	Education Committee, Department of Orthopaedics & Rehab Vanderbilt University Medical Center, Nashville, TN
July 2010-June 2011	Pain Committee Vanderbilt University Medical Center, Nashville, TN
July 2011-February 2018	School of Medicine-Admissions Interviewer Vanderbilt University School of Medicine, Nashville, TN
January 2014-Present	Director of Cohorting Spine Patients (development of inpatient pathways) Vanderbilt Comprehensive Spine Center, Nashville, TN
January 2014-February 2018	Director of Patient Satisfaction Committee Vanderbilt Comprehensive Spine Center, Nashville, TN

EXTRAMURAL

2011-Present	Editorial Reviewer-Journal of Spine
2011-Present	Editorial Reviewer-Physical Medicine and Rehabilitation

2013	NASS 2013 Headed the Biologics Symposium Section
July 2013	NASS National Webinar on infection Control in Spine Surgery
2014-Present	Editorial Reviewer-Journal of American Academy of Orthopaedic Surgery
2014-present	Scientific Committee – National Neurosurgery Quality and Outcomes Database (N ² QOD), Neuropoint Alliance of AANS
November 2014	Moderator – Concurrent Session: Comparative effectiveness in Spine Surgery. November 13, 2014, 2:10-3:10 pm, NASS Annual Meeting, San Francisco, CA.
December 2014	Moderator – Best Paper 1. December 4, 2014, 7:11-7:59 am. CSRS Annual Meeting, Orlando, FL.
March 2015	Moderator – AAOS ICL Session # 243: Differentiating Cervical Spine and Shoulder Pathology: common Disorders and Key points of Evaluation and Treatment. March 24-28, 2015. AAOS Annual Meeting, Las Vegas, NV.
March 2015	Surgical management of Cervical Spondylotic Myelopathy. Posterior Cervical Approaches. AAOS ICL Session # 431. March 24-28, 2015. AAOS Annual Meeting, Las Vegas, NV.
2015-present	Editorial Reviewer – Journal of Bone and Joint Surgery
2015-present	Editorial Reviewer – Journal of American Academy of Orthopaedic Surgeons
2015-present	Editorial Reviewer – Spine
March 2017	Avoiding and Managing Complications in Cervical Spine Surgery. AAOS ICL Session # 250. March 15, 2017. AAOS Annual Meeting, San Diego, CA.
July 2017	Chairman - NASS Summer Spine Meeting. July 26-29, 2017. San Diego, CA.
July 2017	Moderator – Abstract Presentations: Cervical Spine. July 27, 2017. NASS Summer Spine 2017, San Diego, CA.

SPEICAL AWARDS/RECOGNITION FOR PROFESSIONAL ACTIVITIES:

- Julius Goodman Socioeconomic Award. Congress of Neurological Surgeons (CNS). September 2016.
- Kenneth Johnson, MD Teaching Award 2015
- Resident/Fellow award, Cervical Spine Research Society, December 2015
- Value Award, North American Spine Society Meeting, October 2015
- Samuel Hassenbusch Young Neurosurgeon Award, Congress of Neurological Surgeons, September 2015
- Best Doctors 2014-2016
- Spine Journal Editors Best Paper of the Year 2012
- Kathy Cramer Best Chief Resident Paper Award Vanderbilt University 2007
- Administrative Chief Resident, Vanderbilt University, Department of Orthopaedics & Rehabilitation, Nashville, TN
- Attended American Orthopaedic Association Leadership Forum 2006-2007.
- Alpha Omega Alpha- Vanderbilt University School of Medicine, Nashville, TN, November 2001
- Orthopaedic Clerkship Award, May 2002
- Graduated with honors (top 5% of class), University of Wyoming, May 1998
- Valedictorian Laramie Senior High School, Laramie, WY, May 1994

TEACHING ACTIVITIES

MEDICAL SCHOOL COURSES

2010-Present	CCE Preceptor – First Year Medical Students Vanderbilt University School of Medicine, Nashville, TN
2010-Present	Physical Diagnosis Preceptor Vanderbilt University School of Medicine, Nashville, TN
2010-Present	Lecturer – First Year Anatomy Course Vanderbilt University School of Medicine, Nashville, TN
2013-Present	Careers in Medicine Elective Vanderbilt University School of Medicine, Nashville, TN

CONTINUING MEDICAL EDUCATION

2011-Present	Director-Combined Neurosurgery/Spine Monthly Conference (Organizer and Lecturer) Vanderbilt University Medical Center, Nashville, TN
2013	Hillman Lecture Series-Organizer Vanderbilt University Medical Center, Nashville, TN

CLINICAL TEACHING

2011-Present: Director of the Vanderbilt Spine Outcomes Research Lab, Vanderbilt University School of Medicine, Nashville, TN

2011-Present: Development of Spine Trauma Outcomes Registry, Vanderbilt University School of Medicine, Nashville, TN

RESEARCH SUPERVISION

Colin Crosby	Orthopaedic Resident	2010-2012
Kevin O'Neill	Orthopaedic Resident	2010-2012
Jesse Even	Orthopaedic Resident	2010-2013
Jesse Bible	Orthopaedic Resident	2010-2014
Sheyan Armaghani	Orthopaedic Resident	2010-2015
Brian Wright	Medical Student	2011-2013
Lauren Mioton	Medical Student	2011-2013
Katie Burns	Medical Student	2011-2013
Chi Zhang	Medical Student	2011-2015
Stephen Mendenhall	Medical Student	2011-2015
Dennis Lee	Orthopaedic Resident	2011-2018
Scott Parker	Neurosurgery Resident	2011-2018
Soniya Godil	Post Doc Fellow	2011-2018
Patrick Kelly	Medical Student	2012-2018
Harrison Kay	Medical Student	2012-2018
Diana Douleh	Medical Student	2012-2018
Gabrella DiCarlo	Medical Student	2012-2018
Mark Snoddy	Orthopaedic Resident	2012-2018
Alex Sielatycki	Orthopaedic Resident	2012-2018
Stephen Mendenhall	Medical Scholars Program	2013-2014
David Shau	Medical Scholars Program	2013-2014
Silky Chotai	Post Doc Fellow	2014-2017
Ahilan Sivaganesan	Neurosurgery Resident	2016-2018

OTHER SIGNIFICANT ACTIVITIES

2010-2018 Consultant-NHL, Nashville Predators, Nashville, TN

2010-2018 Consultant-Shade Tree Clinic, Nashville, TN

RESEARCH PROGRAM

RESIDENT EDUCATION GRANTS

2010-Present Stryker Spine

2012-Present DePuy

CURRENT GRANTS

CER-1306-01970 Archer (PI) 2/1/14-1/31/17

Patient-Centered Outcomes Research Institute (PCORI)

Comparative Effectiveness of Postoperative Management for Degenerative Spinal Conditions

This 2-site randomized clinical trial will compare which of two treatments provided by telephone - Cognitive

Behavioral Based Physical Therapy (CBPT) or an education program about

postoperative recovery - are more effective for improving pain, disability, general health and physical function outcomes.

Role: Co-Investigator

1R21AR062880 Archer (PI) 4/20/12-3/31/15

NIH/NIAMS

Improving Surgical Spine Outcomes through Cognitive-Behavioral Based Physical Therapy

The objective is to conduct a two-group randomized trial to determine the efficacy of a cognitive-behavioral

based physical therapy intervention in patients at-risk for poor outcomes following lumbar spine surgery for

degenerative conditions. Role: Co-Investigator

VICTR grant: Devin (PI)

Vanderbilt Institute of Clinical and Transitional Research and Internal Pilot grant for "Predictive Model Based Calculator for Return to Work after Elective Spine Surgery for Degenerative Lumbar Disease: External Validation and Feasibility of Application at the Pilot Site".

Role: PI

Lumbar Spine Research Society Grant

Randomized Clinical Trial to determine Efficacy and Feasibility of Using Predictive Model Based Calculator as a Shared Decision-Making Tool for Lumbar Spine Surgery.

Role: PI

PUBLICATIONS

REFEREED JOURNAL ARTICLES

1. Heinzen RA, Grieshaber SS, Van Kirk LS, **Devin CJ**. Dynamics of actin-based movement by *Rickettsia rickettsia* in vero cells. *Infection & Immunity*. 1999 Aug. [PMID: 10417192]
2. Lee YC, Teixeira LR, **Devin CJ**, Vaz MA, Vargas FS, Thompson PJ, Lane KB, Light RW. Transforming growth factor-beta 2 induces pleurodesis significantly faster than talc. *American Journal of Respiratory & Critical Care Medicine*. 2001 Mar. [PMID: 11254517]

3. Lee YC, **Devin CJ**, Teixeira LR, Rogers JT, Thompson PJ, Lane KB, Light RW. Transforming growth factor beta-2 induced pleurodesis is not inhibited by corticosteroids. *Thorax*. 2001 Aug. [PMID: 11462068]
4. Lee YC, Malkerneker D, **Devin CJ**, Thompson PJ, Johnson JE, Lane KB, Light RW. Comparing transforming growth factor beta-2 and fibronectin as pleurodesing agents. *Respirology*. 2001 Dec. [PMID: 11844117]
5. **Devin CJ**, Lee YC, Light RW, Lane KB. Pleural Space as a Site of Ectopic Gene Delivery: Transfection of Pleural Mesothelial Cells with Systemic Distribution of Gene Product. *Chest*. 2003 Jan. [PMID: 12527623]
6. Spindler KP, McCarty EC, Warren TA, **Devin C**, Connor JT. Prospective Comparison of arthroscopic medial meniscal repair technique: inside-out suture versus entirely arthroscopic arrows. *Am J Sports Med*. 2003 Nov; 31:929-34. [PMID: 14623659]
7. Spindler KP, Murray MM, Dawson J, **Devin C**, Nanney LB, Davidson JM. The central ACL defect as a model for intra-articular healing. *J Orthop Res*. 2006 Mar; 24(3): 401-6. [PMID: 16479574]
8. Murray MM, Spindler KP, **Devin CJ**, Snyder BD, Muller J, Takahashi M, Ballard P, Anney L, Zurakowski D. Use of collagen-platelet rich plasma scaffold to stimulate healing of a central defect in the canine ACL. *J Orthop Res*. 2006 Apr; 24(4):820-30. [PMID: 16555312]
9. **Devin C**, Chong PY, Holt GE, Feuerer I, Gonzalez A, Merchant N, Schwartz HS. Level-adjusted perioperative risk of sacral amputations. *J Surg Oncol*. 2006 Sep 1; 94(3): 203-11. [PMID: 16900511]
10. Holt GE, Halpern JL, Lynch CC, **Devin CJ**, Schwartz HS. Imaging analysis of the in vivo bioreactor: a preliminary study. *Clin Orthop Relat Res*. 2008 Aug; 466(8): 1890-6. Epub 2008 May 28. [PMID: 18506563]
11. **Devin CJ**, Myers TG, Kang JD. Chronic failure of lumbar total disc replacement with osteolysis. Report of a case with nineteen-year follow-up. *J Bone Joint Surg Am*. 2008 Oct; 90(10):2230-4. [PMID: 18829921]
12. **Devin CJ**, Kang JD. Vertebral artery injury in cervical spine surgery. *Instr course Lect*. 2009; 58:717-728. [PMID: 19385580]
13. **Devin CJ**, Espiritu MT, Kang JD. Prevention, identification, and treatment of inadequate decompression of the cervical spine. *Instr Course Lect*. 2009; 48:699-715. [PMID: 19385579]

14. Ohba T, Ebata S, Ando T, Ichikawa J, **Devin C**, Haro H. Lumbar ligamentum flavum hematoma treated with endoscopy. *Orthopaedics*. 2011 Jul 7;34(7): e324-7. [PMID: 21717999]
15. Adogwa O, Parker SL, Davis BJ, Aaronson O, **Devin C**, Cheng JS, McGirt MJ. Cost-effectiveness of transforaminal lumbar interbody fusion for Grade I degenerative spondylolisthesis. *J Neurosurg Spine*. 2011 Aug; 15 (2): 138-43. Epub 2011 May 6. [PMID: 21529203]
16. Parker SL, Fulchiero EC, Davis BJ, Adogwa O, Aaronson OS, Cheng JS, **Devin CJ**, McGirt MJ. Cost-effectiveness of multilevel hemilaminectomy for lumbar stenosis-associated radiculopathy. *Spine J*. 2011 Aug; 11(8):705-11. Epub 2011 Jun 8. [PMID: 21641874]
17. Adogwa O, Parker SL, Shau D, Mendelhall SK, Cheng J, Aaronson O, **Devin CJ**. Long-term outcomes of revision fusion for lumbar pseudarthrosis: clinical article. *J Neurosurg Spine*. 2011 Oct; 15(4):393-8. Epub 2011 Jun 24. [PMID: 21699473]
18. O'Neill KR, Smith JG, Abtahi AM, Archer KR, Spengler DM, McGirt MJ, **Devin CJ**. Reduced surgical site infections in patients undergoing posterior spinal stabilization of traumatic injuries using vancomycin powder. *Spine J*. 2011 Jul; 11(7): 641-6. Epub 2011 May 19. [PMID: 21600853]
19. Crosby CG, Even JL, Song Y, Block JJ, **Devin CJ**. Diagnostic abilities of magnetic resonance imaging in traumatic injury to the posterior ligamentous complex: the effect of years in training. *Spine J*. 2011 Aug; 11(8):747-53. Epub 2011 Aug 12. [PMID: 21840264]
20. Bible JE, Biswas D, **Devin CJ**. Postoperative infections of the spine. *Am J Orthop (Belle Mead NJ)*. 2011 Dec; 40(12): E264-71. [PMID: 22268020]
21. Adogwa, O, Parker, SL, Mendenhall, SK, Shau, DN, Aaronson, O, Cheng, J, **Devin, CJ**, McGirt, MJ. Laminectomy and Extension of Instrumented Fusion Improves 2-Year Pain, Disability, and Quality of Life in Patients with Adjacent Segment Disease: Defining the Long-Term Effectiveness of Surgery. *World Neurosurg*. 2011 Dec 24. [Epub ahead of print] [PMID: 22381277]
22. Even JL, Crosby CG, Song Y, McGirt MJ, **Devin CJ**. Effects of epidural steroid injections on blood glucose levels in patients with diabetes mellitus. *Spine (Phila Pa 1976)*. 2012 Jan 1; 37(1):E46-50. [PMID: 21540770]
23. Parker SL, Mendenhall SK, Shau D, Adogwa O, Cheng JS, Anderson WN, **Devin CJ**, McGirt MJ. Determination of minimum clinically important difference in pain, disability, and quality of life after extension of fusion for adjacent-segment disease. *J Neurosurg Spine*. 2012 Jan; 16(1): 61-7. Epub 2011 Sep 30. [PMID: 21962034]

24. Even J, McCullough K, Braly B, Hohl J, Song Y, Lee J, McGirt M, **Devin C**. Clinical indications for arterial imaging in cervical trauma. *Spine (Phila Pa 1976)*. 2012 Feb 15;37(4): 286-91. [PMID: 21494192]
25. Adogwa O, Parker SL, Shau DN, Mendenhall SK, **Devin CJ**, Cheng JS, McGirt MJ. Cost per quality-adjusted life year gained of laminectomy and extension of instrumented fusion for adjacent-segment disease: defining the value of surgical intervention. *J Neurosurg Spine*. 2012 Feb; 16(2): 141-6. Epub 2011 Nov 4. [PMID: 22054637]
26. Lee JY, Hohl JB, Fedorka CJ, **Devin C**, Brodke DS, Branch CL Jr, Vaccaro AR. Surgeons agree to disagree on surgical options for degenerative conditions of the cervical and lumbar spine. *Spine* 2011 Feb 1. [PMID: 21192301]
27. Adogwa O, Parker SL, Shau DN, Mendenhall SK, Aaronson O, Cheng JS, **Devin CJ**, McGirt MJ. Cost per quality-adjusted life year gained of revision neural decompression and instrumented fusion for same-level recurrent lumbar stenosis: defining the value of surgical intervention. *J Neurosurg Spine*. 2012 Feb; 16(2): 135-40. Epub 2011 Nov 4. [PMID: 22054639]
28. Adogwa O, Parker SL, Shau DN, Mendenhall SK, Aaronson OS, Cheng JS, **Devin CJ**, McGirt MJ. Preoperative Zung Depression Scale predicts outcome after revision lumbar surgery for adjacent segment disease, recurrent stenosis, and pseudarthrosis. *Spine J*. 2012 Mar; 12(3): 179-85. Epub 2011 Sep 21. [PMID: 21937282]
29. Bible JE, O'Neill KR, Crosby CG, Schoenecker JG, McGirt MJ, **Devin CJ**. Microscope sterility during spine surgery. *Spine (Phila Pa 1976)*. 2012 Apr 1; 37(7): 623-7. [PMID: 21681131]
30. Parker SL, Mendenhall SK, Shau DN, Adogwa O, Anderson WN, **Devin CJ**, McGirt MJ. Minimum clinically important difference in pain, disability, and quality of life after neural decompression and fusion for same-level recurrent lumbar stenosis: understanding clinical versus statistical significance. *J Neurosurg Spine*. 2012 May; 16(5): 471-8. Epub 2012 Feb 10. [PMID: 22324801]
31. **Devin CJ**, McCullough KA, Morris BJ, Yates AJ, Kang JD. Hip-spine syndrome. *J Am Acad Orthop Surg*. 2012 Jul; 20(7): 434-42. [PMID: 22751162]
32. Bible JE, Choemprayong S, O'Neill KR, **Devin CJ**, Spengler DM. Whole-body vibration: is there a causal relationship to specific imaging findings of the spine. *Spine (Phila Pa 1976)*. 2012 October 1; 37(21): E1348-55. [PMID: 22828710]
33. Shau DN, Parker SL, Mendenhall SK, Zuckerman SL, Godil SS, **Devin CJ**, McGirt MJ. Transforaminal Lumbar Interbody Graft Placement via an Articulating Delivery Arm Facilitates Increased Segmental Lordosis with Superior Anterior and Midline

Graft Placement. *J Spinal Disord Tech*. 2012 Oct 10. [Epub ahead of print] [PMID: 23059702]

34. Shau DN, Bible JE, Samade R, Gadowski SP, Mushtaq B, Wallace A, McGirt MJ, O'Neill KR, **Devin CJ**. Utility of postoperative radiographs for cervical spine fusion: a comprehensive evaluation of operative technique, surgical indication, and duration since surgery. *Spine (Phila Pa 1976)*. 2012 Nov 15; 37(24): 1994-2000. [PMID: 22565389]
35. Parker SL, Adogwa O, Mendenhall SK, Shau DN, Anderson WN, Cheng JS, **Devin CJ**, McGirt MJ. Determination of minimum clinically important difference (MCID) in pain, disability, and quality of life after revision fusion for symptomatic pseudoarthrosis. *Spine J*. 2012 Dec; 12(12): 1122-8. Epub 2012 Nov 14. [PMID: 23158968]
36. Bible JE, O'Neill K, Crosby CG, Schoenecker J, McGirt MJ, **Devin CJ**. Implant Contamination During Spine Surgery. *Spine J*. 2013 Jan 12. [Epub ahead of print]
37. Parker SL, Adogwa O, Davis BJ, Fulchiero E, Aaronson O, Cheng J, **Devin CJ**, McGirt MJ. Cost-utility analysis of minimally invasive versus open multilevel hemilaminectomy for lumbar stenosis. *J Spinal Disord Tech*. 2013 Feb; 26(1): 42-7. [PMID: 21959840]
38. Hohl JB, Lee JY, Rayappa SP, Nabb CE, **Devin CJ**, Kang JD, Ward WT, Donaldson WF 3rd. Prevalence of Venous Thromboembolic Events Following Elective Major Thoracolumbar Degenerative Spine Surgery. *J Spinal Disord Tech*. 2013 Mar 18. [Epub ahead of print] [PMID: 23511649]
39. Stutz CM, O'Rear LD, O'Neill KR, Tamborski ME, Crosby CG, **Devin CJ**, Schoenecker JG. Coagulopathies in orthopaedics: links to inflammation and the potential of individualizing treatment strategies. *J Orthop Trauma*. 2013 Apr; 27(4): 236-41. [PMID: 22874115]
40. Tetsuro O, Shigeto E, **Devin C**, Kenske K, Hirotaka H. Instability of treated vertebrae after balloon kyphoplasty causing paraparesis in osteoporotic vertebral compression fracture: a report of two cases. *Eur Spine*. 2013 May;22(Suppl 3): 341-345. Epub 2012 July 3. [PMCID: PMC3641248]
41. Godil SS, Parker SL, Zuckerman SL, Mendenhall SK, **Devin CJ**, Asher AL, McGirt MJ. Determining the quality and effectiveness of surgical spine care: patient satisfaction is not a valid proxy. *Spine J*. 2013 May 16 [Epub ahead of print].
42. Archer KR, Motzny N, Abraham CM, Yaffe D, Seebach CL, **Devin CJ**, Spengler DM, McGirt MJ, Aaronson OS, Cheng JS, Wegener ST. Cognitive-Behavioral-Based

Physical Therapy to Improve Surgical Spine Outcomes: A Case Series. *Phys Ther.* 2013 May 30. [Epub ahead of print]

43. Bible JE, O'Neill KR, Crosby CG, Schoenecker JG, McGirt MJ, **Devin CJ**. Implant contamination during spine surgery. *Spine J.* 2013 Jun; 13(6): 637-40. Epub 2013 Jan 12. [PMID: 23321148]
44. Archer KR, Motzny N, Abraham CM, Yaffe D, Seebach CL, **Devin CJ**, Spengler DM, McGirt MJ, Aaronson OS, Cheng JS, Wegener ST. Cognitive-behavioral-based physical therapy to improve surgical spine outcomes: a case series. *Phys Ther.* 2013 Aug; 93(8): 1130-9. Epub 2013 April 18. [PMID: 23599351]
45. Godil SS, Parker SL, Zuckerman SL, Mendenhall SK, **Devin CJ**, Asher AL, McGirt MJ. Determining the quality and effectiveness of surgical spine care: patient satisfaction is not a valid proxy. *Spine J.* 2013 Sept; 13(9): 1006-12. Epub 2013 May 16. [PMID: 23685216]
46. Godil SS, Parker SL, O'Neill KR, **Devin CJ**, McGirt MJ. Comparative effectiveness and cost-benefit analysis of local application of vancomycin powder in posterior spinal fusion for spine trauma. *J Neurosurg Spine.* 2013 Sept;19(3): 331-5. Epub 2013 July 12. [PMID: 23848350]
47. O'Neill KR, Wilson RJ, Burns KM, Mioton LM, Wright BT, Adogwa O, McGirt MJ, **Devin CJ**. Anterior Cervical Discectomy and Fusion for Adjacent-Segment Disease: Clinical Outcomes and Cost-Utility of Surgical Intervention. *J Spinal Disord Tech.* 2013 Nov 5. [Epub ahead of print]. [PMID: 23563337]
48. Bowens C, Dobie KH, **Devin CJ**, Corey JM. An approach to neuraxial anaesthesia for the severely scoliotic spine. *British Journal of Anesthesia.* 2013 Nov. [PMID: 23661407]
49. Armaghani SJ, Lee DS, Bible JE, Archer KR, Shau DN, Kay H, Zhang C, McGirt MJ, **Devin CJ**. Preoperative narcotic use and its relation to depression and anxiety in patients undergoing spine surgery. *Spine.* 2013 Dec 1; 38(25):2196-200. [PMID: 24296482]
50. Bible JE, Kadakia RJ, Kay HF, Zhang CE, Casimir GE, **Devin CJ**. Repeat spine imaging in transferred emergency department patients. *Spine.* 2014 Feb 15;39(4): 291-6. [PMID: 24299724]
51. Bible JE, Kadakia RJ, Kay HF, Zhang CE, Casimir GE, **Devin CJ**. How often are interfacility transfers of spine injury patients truly necessary? *Spine J.* 2014 Apr 14. [PMID: 24743061]

52. Dewan MC, Godil SS, Mendenhall SK, **Devin CJ**, McGirt MJ. C2 nerve root transection during C1 lateral mass screw fixation: does it affect functionality and quality of life? *Neurosurgery*. 2014 May; 74(5):475-80. [PMID: 24476905]
53. O'Neill KR, Lockney DT, Bible JE, Crosby CG, **Devin CJ**. Bupivacaine for Pain Reduction After Iliac Crest Bone Graft Harvest. *Orthopedics*. 2014 May 1. [PMID 24810818]
54. Lee D, Armaghani S, Archer KR, Bible J, Shau D, Kay H, Zhang C, McGirt MJ, **Devin CJ**. Preoperative Opioid Use as a Predictor of Adverse Postoperative Self-Reported Outcomes in Patients Undergoing Spine Surgery. *J Bone Joint Surg Am*, 2014 Jun 04;96(11):e89. [PMID: 24897746]
55. Armaghani S , Lee DY, Bible JE , Shau D, Kay H, Zhang C, McGirt MJ, **Devin CJ**. Increased Preoperative Narcotic Use and its Association with Postoperative Complications and Length of Hospital Stay in Patients Undergoing Spine Surgery. *J Spinal Disord Tech*. 2014 June 5. [PMID: 249055503]
56. Shau DN, Bible JE, Gadowski SP, Samade R, Armaghani S, Mencio GA, **Devin CJ**. Utility of Postoperative Radiographs for Pediatric Scoliosis: Association Between History and Physical Examination Findings and Radiographic Findings. *J Bone Joint Surg Am*. 2014 Jul 2;96(13):1127-1134. [PMID:24990978]
57. Owoicho AM, Parker SL, Shau D, Mendenhall SK, Aaronson O, Cheng J, **Devin CJ**, McGirt MJ. Cost per Quality Adjusted Life Year Gained of Revision Fusion for Lumbar Pseudoarthrosis: Defining the Value of Surgery. *J Spinal Disord Tech*. 2014 Jul 3. [PMID: 24999554]
58. Asher AL, **Devin CJ**, Mroz T, Fehlings M, parker SL, McGirt. Clinical Registries and Evidence Based Care Pathways: Raising the Bar for Meaningful measurement and Delivery of Value-based Care. *Spine*. 2014 Jul 30. [PMID: 25077915]
59. Mendenhall SK, Bible JE, Kelly PD, Sivasubramaniam P, Shau D, McGirt MJ, **Devin CJ**. Preoperative Predictors of 3-Month and 1-Year Change in quality of life (EQ-5D) Following Multilevel Lumbar Laminectomy and Fusion. *Neurosurgery*. 2014 Aug; 61Suppl 1:204. [PMID: 25032587]
60. Mendenhall SK, Lee DS, Armaghani SJ, Bible JE, Shau D, Kay HF, Zhang C, McGirt MJ, **Devin CJ**. Preoperative Narcotic Use is Associated with Worse Postoperative Self-Reported Outcomes in Patients Undergoing Spine Surgery. *Neurosurgery*. 2014 Aug; Suppl 1:206. [PMID: 25032592]
61. Archer KR, Coronado RA, haug CM, Vanston SW, **Devin CJ**, Fannesbeck CJ, Aaronson OS, Cheng JS, Skolasky RL, Riley LH 3rd, Wegener ST. A comparative effectiveness trial of postoperative management for lumbar spine surgery: changing

behavior through physical therapy (CBPT) study protocol. BMC Musculoskelet Disord. 2014 Oct 1; 15(1):325. [PMID: 25273991]

62. Parker SL, **Devin CJ**. Commentary on: "Sterile Seroma Resulting from Multilevel XLIF Procedure as Possible Adverse Effect of Prophylactic Vancomycin Powder A Case Report." Evid Based Spine Care J. 2014 Oct; 5(2): 135-5. [PMID: 25278887]
63. McGirt MJ, Parker SL, Asher AL, Norvell D, Sherry N, **Devin CJ**. Rose of prospective registries in defining the value and effectiveness of spine care. Spine. 2014 Oct 15; 39 (22 Suppl 1):S117-28. [PMID: 25299255]
64. **Devin CJ**, Lee DS, Armaghani SJ, Bible J, Shau DN, Martin PR, Ehrenfeld JM. Approach to Pain management in Chronic Opioid Users Undergoing Orthopaedic Surgery. J Am Acad Orthop Surg. 2014 Oct;22(10): 614-622. Review. [PMID: 25281256]
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satisfaction with outcomes 12-months after elective spine surgery for lumbar degenerative disease. *Spine J.* 2017 Sep 29. S1529-9430(17)30233-4. [28970074]

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BOOK/BOOK CHAPTER/INVITED REVIEW ARTICLES

1. Mencio GA, **Devin CJ**: Fractures of the Spine. *Skeletal Trauma in Children*, Fourth (Third) Edition. Green NE and Swiontkowski, MF (Eds). WB Saunders Company, Philadelphia, 2003 (2007), pp 313-354.
2. **Devin CJ**, Sillay K, Cheng J: Neck Pain. *Kelley's Textbook of Rheumatology*, Eighth Edition, Part 6-Differential Diagnosis of Regional Musculoskeletal Pain. Firestein GS, et al (Eds). WB Saunders Company, Philadelphia, 2009, Chapter 39, pp 571-586.
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4. **Devin CJ**. Joon Lee. *Damage Control Orthopaedics of the Spine*, 1st Ed. Elsevier Science, Philadelphia.
5. Crosby C, **Devin CJ**, Hohl J, Davis R, Lee J. The meaning of MRI findings with regards to posterior ligamentous complex disruption in the setting of trauma. Elsevier Science, Philadelphia.
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7. Hohl JB, **Devin CJ**, Fedorka CJ, Lee JY. Cervical, Thoracic, and Lumbar Spinal Trauma of the Immature Spine. (Rothman-Simeone) The Spine, Sixth Edition. Herkowitz HN, Garfin SR, Eismont FJ, Bell GR, Balderson RA (Eds). WB Saunders Company, Philadelphia, 2011, pp 486-504.
8. Cheng JS, McGirt MJ, **Devin C**: Neck Pain. IN: Kelley's Textbook of Rheumatology, Ninth Edition, Part 6-Differential Diagnosis of Regional and Diffuse Musculoskeletal Pain. Firestein GS, et al (Eds). WB Saunders Company, Philadelphia, 2013, pp 625-238.
9. O'Neill KR, Bible JE, **Devin CJ**: Cervical Spine Fracture Dislocation, Orthopedic Traumatology: An Evidence-Based Approach. 1st Ed. Springer, New York, 2013, pp 41-53.

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PRESENTATIONS AT SCIENTIFIC MEETINGS

PEER REVIEWED

- Diagnostic Abilities of Magnetic Resonance Imaging in Traumatic Injury to the Posterior Ligamentous Complex. Crosby C, Block J, Even J, **Devin C**. LSRS Annual Meeting 2010
- Clinical Indications for Arterial Imaging in Cervical Trauma. Even JL, Hohl J, McCullough KA, Braley BA, Song Y, Lee JY, **Devin CJ**. Paper #44. CSRS Annual Meeting. Charlotte, North Carolina. Friday, December 3, 2010.
- Effects of Epidural Steroid Injections on Blood Glucose Levels in patients with Diabetes Mellitus. Even JL, McCullough KA, Song Y, **Devin CJ**. Paper #743. AAOS Annual Meeting, San Diego, CA. February 2011.
- Prevalence of Venous Thromboembolic Events Following Elective major Thoracolumbar Degenerative Spine Surgery. Hohl JB, Rayappa SP, Nabb CE, **Devin CJ**, Donaldson WF III, Kang JD, Ward WT, Lee JY. LSRS Annual Meeting 2011.
- Biomechanical Analysis of Two Methods of Low-profile, In-line Pelvic Fixation Techniques. Crosby CG, Corn WC, Even JL, Mencio GA, **Devin CJ**. LSRS Annual Meeting 2011.

- Effects of Epidural Steroid Injections on Blood Glucose Levels in patients with Diabetes Mellitus. Even J, Crosby CG, Song Y, **Devin CJ**. LSRS Annual Meeting 2011.
- Reduced Surgical Site Infections in Patients Undergoing Posterior Spinal Stabilization of Traumatic Injuries using Vancomycin Powder. O'Neill KR, Smith J, Abtahi A, Archer-Swygert KR, Spengler DM, McGirt MJ, **Devin CJ**. LSRS Annual Meeting 2011.
- Microscope Sterility during Spine Surgery. Bible JE, O'Neill KR, Crosby CG, Schoenecker JG, McGirt MJ, **Devin CJ**. LSRS Annual Meeting 2011.
- Cost Effectiveness of Revision Instrumented Fusion for Adjacent Segment Disease. Adogwa O, Parker SL, Shau D, Mendenhall SK, Aaronson O, Cheng J, **Devin CJ**, McGirt MJ. LSRS Annual Meeting 2011.
- Reduced Surgical Site Infections in Patients Undergoing Posterior Spinal Stabilization of Traumatic Injuries Using Vancomycin Powder. O'Neill KR, Smith J, Abtahi A, Archer K, Spengler DM, McGirt M, **Devin CJ**. Paper # 73. NASS Annual Meeting, Chicago, IL. Thursday, November 3, 2011.
- Determination of Minimum Clinically Important Difference (MCID) in Pain, Disability and Quality of Life after Extension of Fusion for Adjacent Segment Disease. McGirt M, Parker S, Adogwa O, Mendenhall S, Shau DN, Cheng JS, **Devin CJ**. Paper# 96. NASS Annual Meeting, Chicago, IL. Thursday, November 3, 2011.
- Determination of Minimum Clinically Important Difference (MCID) in Pain, Disability and Quality of Life After Revision Neural Decompression and Fusion for Same-Level Recurrent Lumbar Stenosis. McGirt M, Parker S, Adogwa O, Mendenhall S, Shau DN, Cheng JS, **Devin CJ**. Paper # 97. NASS Annual Meeting, Chicago, IL. Thursday, November 3, 2011.
- Preoperative Zung Depression Scale Predicts Outcome After Revision Lumbar Surgery for Adjacent Segment Disease, Recurrent Stenosis and Pseudoarthrosis. McGirt M, Adogwa O, Parker S, Shau D, Mendenhall S, Aaronson O, Cheng JS, **Devin CJ**. Paper #214. NASS Annual Meeting, Chicago, IL. Saturday, November 5, 2011.
- Determination of the Minimum Improvement in Pain, Disability, and Health State Associated with Cost-Effectiveness: Introduction of the Concept of Minimum Cost Effective Difference (MCED). McGirt M, Parker S, Adogwa O, Davis B, Aaronson O, Cheng JS, **Devin CJ**. Paper # 230. NASS Annual Meeting, Chicago, IL. Thursday, November 3, 2011.

- Microscope Sterility during Spine Surgery. Bible JE, O'Neill KR, Crosby CG, Schoenecker JG, McGirt MJ, **Devin CJ**. Paper #47. CSRS Annual Meeting. Scottsdale, Arizona. Friday, December 9, 2011.
- Cost-Effectiveness Analysis of surgery for Adjacent Segment Disease after Anterior Cervical Discectomy and Fusion. O'Neill KR, Wilson RJ, Burns KM, Mioton L, Wright BT, Adogwa O, McGirt M, **Devin CJ**. Paper # 573. AAOS Annual Meeting, San Francisco, CA. Thursday, February 9, 2012.
- Patient Satisfaction After Revision Anterior Cervical Discectomy and Fusion (ACDF) for Adjacent Segment Disease: Relationship to Clinic Outcomes, Patient Characteristics and Cost-Effectiveness. Burns KM, O'Neill KR, Bible JE, Mioton L, Wilson RJ II, Wright BT, McGirt MJ, **Devin CJ**. Paper #4. NASS Annual Meeting, Dallas, TX. Wednesday, October 24, 2012.
- Cost-Utility and Comparative Effectiveness Analyses of Transforaminal Lumbar Interbody Fusion (TLIF) Versus Comprehensive Medical Management for Lumbar Spondylosisthesis. Parker SL, Godil SS, Zuckerman SL, Mendenhall SK, Shau DN, **Devin CJ**, McGirt MJ. Paper #6. NASS Annual Meeting, Dallas, TX. Wednesday, October 24, 2012.
- Factors Influencing Two-Year Healthcare Costs in Patients Undergoing Revision Lumbar Fusion Procedures: A guide to Where Should We Target Our Cost and Quality Improvement Initiatives. Parker SL, Godil SS, Shau DN, Mendenhall SK, **Devin CJ**, McGirt MJ. Paper #19. NASS Annual Meeting, Dallas, TX. Wednesday, October 24, 2012.
- Defining the Relative Utility of Lumbar Spine Surgery: A systematic Literature Review of Common Surgical Procedures and Their Impact on Health States. Parker SL, Zuckerman SL, Godil SS, Gates MJ, **Devin CJ**, McGirt MJ. Paper #23. NASS Annual Meeting, Dallas, TX. Wednesday, October 24, 2012.
- Minimally Invasive Versus Open Transforaminal Lumbar Interbody Fusion (TLIF) for Degenerative Spondylolisthesis: Comparative Effectiveness and Cost-Utility Analysis. Parker SL, Mendenhall SK, Shau DN, Zuckerman SL, Godil SS, **Devin CJ**, McGirt MJ. Paper #87. NASS Annual Meeting, Dallas, TX. Wednesday, October 24, 2012.
- Utility of Postoperative Radiographs for Cervical Spine Fusion: A comprehensive Evaluation of Operative Technique, Surgical Indication and Duration Since Surgery. Shau DN, Bible JE, O'Neill KR, McGirt MJ, **Devin CJ**. Paper #95. NASS Annual Meeting, Dallas, TX. Thursday, October 25, 2012.
- Effects of Depression on Patient Reported Outcomes Following Surgery for Cervical Adjacent Segment Disease. Wright BT, O'Neill KR, Wilson RJ II, Burns KM, Mioton

L, Adogwa O, McGirt MJ, **Devin CJ**. Paper #96. NASS Annual Meeting, Dallas, TX. Thursday, October 25, 2012.

- Accurately measuring Outcomes After Surgery for Adult Chiari I Malformation: Determining the Most Valid and Responsive Instruments. Godil SS, Parker SL, Zuckerman SL, Mendenhall SK, Shau DN, **Devin CJ**, McGirt MJ. Paper #99. NASS Annual Meeting, Dallas, TX. Thursday, October 25, 2012.
- Cost-Utility and Comparative Effectiveness Analyses of Laminectomy Versus Comprehensive Medical Management for Lumbar Stenosis. Parker SL, Godil SS, Shau DN, Mendenhall SK, Zuckerman SL, **Devin CJ**, McGirt MJ. Paper #121. NASS Annual Meeting, Dallas, TX. Friday, October 26, 2012.
- Accurately measuring the Quality and Effectiveness of Cervical Spine Surgery in Registry Efforts: Determining the Most Valid and Responsive Instruments. Godil SS, Parker SL, Mendenhall SK, Shau DN, **Devin CJ**, McGirt MJ. Paper #131. NASS Annual Meeting, Dallas, TX. Friday, October 26, 2012.
- The Relative Impact of Lumbar Spondylosis on quality of Life in the United States: A Population Health Perspective. Parker SL, Wong CC, Gates MJ, Godil SS, **Devin CJ**, McGirt MJ. Paper #167. NASS Annual Meeting, Dallas, TX. Friday, October 26, 2012.
- Use of a Prospective Web-Based Registry to Determine the Relative Value of Surgical and Medical Treatments of Degenerative Spine Disorders: Proving the Real-World Value of Surgical Care. Parker SL, **Devin CJ**, McGirt MJ. Paper #168. NASS Annual Meeting, Dallas, TX. Friday, October 26, 2012.
- Efficacy of Posterior Decompression with Instrumented Fusion for K-line (-)-type Cervical OPLL. Zuckerman SL, Godil SS, Parker SL, Aaronson O, **Devin CJ**, McGirt MJ. Paper #14. CSRS Annual Meeting, Chicago, Illinois. Thursday, December 6, 2012.
- Comprehensive Assessment of One-year Outcomes after Suboccipital Decompression for Chiari I Malformation in Adults. Parker SL, Godil SS, Zuckerman SL, Mendenhall SK, Shau DN, **Devin CJ**, McGirt MJ. Paper #17. CSRS Annual Meeting, Chicago, Illinois. Thursday, December 6, 2012.
- Effects of Depression on patient Reported Outcomes following Surgery for Cervical Adjacent Segment Disease. Wright B, O'Neill KR, Archer KR, Mioton L, Burns K, McGirt MJ, **Devin CJ**. Paper #18. CSRS Annual Meeting, Chicago, Illinois. Thursday, December 6, 2012.
- Relative Value of Anterior Cervical Discectomy and Fusion (ACDF) Compared to Other Common Surgical and Medical Spine Treatments. Parker SL, Godil SS,

Devin CJ, McGirt MJ. Paper #25. CSRS Annual Meeting, Chicago, Illinois. Thursday, December 6, 2012.

- Utility of Post-operative Radiographs for Cervical Spine Fusion: A Comprehensive Evaluation of Operative Technique, Surgical Indication and Duration since Surgery. Bible J, Shau DN, Samade R, Gadowski SP, O'Neill KR, McGirt MJ, **Devin CJ**. Paper #29. CSRS Annual Meeting, Chicago, Illinois. Thursday, December 6, 2012.
- Metabolic and Endocrine Abnormalities in Spinal Fusion Patients with Pseudarthrosis. Crosby CG, O'Neill KR, Bible J, Stockin M, **Devin CJ**. Paper #67. CSRS Annual Meeting. Chicago, Illinois. Friday, December 7, 2012.
- Assessment of the Minimum Clinically Important Difference in Pain, Disability and Quality of Life after Anterior Cervical Discectomy and Fusion (ACDF). Parker SL, Godil SS, Shau DN, Mendenhall SK, **Devin CJ**, McGirt MJ. Paper #96. CSRS Annual Meeting. Chicago, Illinois. Friday, December 7, 2012.
- Determining the Quality and Effectiveness of Surgical Spine Care: patient Satisfaction is Not a Valid Proxy. Godil SS, Parker SL, Zuckerman SL, **Devin CJ**, McGirt MJ. Paper #97. CSRS Annual Meeting, Chicago, Illinois. Friday, December 7, 2012.
- Avoiding and Managing Complications in Cervical Spine Surgery. **Devin CJ**, Emery SE, Nassr A. Paper #166. AAOS Annual Meeting, Chicago, IL. Tuesday, March 19, 2013.
- Minimum Clinically Important Difference Assesses Health State After Repeat Cervical Spine Surgery. Mioton L, O'Neill KR, Burns KM, Wright BT, Wilson RJ II, Archer K, McGirt M, **Devin CJ**. Paper #152. AAOS Annual Meeting, Chicago, IL. Wednesday, March 20, 2013.
- A Comprehensive Evaluation of the Utility of Post-Operative Radiographs Following Pediatric Scoliosis Correction. Shau DN, Bible JE, Gadowski SP II, Samade R, Armaghani S, Mencio GA, **Devin CJ**. Paper # 451. AAOS Annual Meeting, Chicago, IL. Thursday, March 21, 2013.
- Metabolic and Endocrine Abnormalities in Spinal Fusion patients with Pseudarthrosis. Crosby CG, O'Neill KR, Bible JE, **Devin CJ**. Paper #825. AAOS Annual Meeting, Chicago, IL. Friday, March 22, 2013.
- Spine surgeon's approach to hip-spine syndrome. Symposium #3: Hip-Spine Syndrome. **Devin CJ**. LSRS Annual Meeting, Chicago, IL. April 12, 2013.
- C2 Nerve Root Transection During C1 Lateral Mass Screw Fixation: Does it Affect Functionality and Quality of Life? Dewan MC, Godil S, **Devin CJ**, McGirt MJ. Paper #7. NASS Annual Meeting, New Orleans, LA. Wednesday, October 9, 2013.

- Cost-Utility and Comparative Effectiveness Analyses of Surgery Versus Comprehensive Medical Management for Lumbar Spondylosis in Elderly. Godil SS, Parker SL, Mendenhall SK, Zuckerman SL, Shau DN, **Devin CJ**, McGirt MJ. Paper #28. NASS Annual Meeting, New Orleans, LA. Thursday, October 10, 2013.
- Disparities in Patient Population with Different Type of Insurance: Does It Affect Outcomes. Parker SL, Godil SS, Zuckerman SL, **Devin CJ**, McGirt MJ. Paper #63. NASS Annual Meeting, New Orleans, LA. Thursday, October 10, 2013.
- Comparative Effectiveness and Cost-Benefit Analysis of Topical Vancomycin Powder in Posterior Spinal Fusion for Spine Trauma and Degenerative Spine Disease. Dewan MC, Godil SS, Zuckerman SL, Mendenhall SK, Shau DN, Parker SL, **Devin CJ**, McGirt MJ. Paper #110. NASS Annual Meeting, New Orleans, LA. Friday, October 11, 2013.
- Increased Preoperative Narcotic Use and its Association with Postoperative Complications and Length of Hospital Stay in Patients Undergoing Spine Surgery. Lee DS, Armaghani SJ, Bible JE, Shau DN, Kay HF, Zhang C, McGirt MJ, **Devin CJ**. Paper #153. NASS Annual Meeting, New Orleans, LA. Friday, October 11, 2013.
- Patient Reported Outcomes 3-Months after Cervical Spine Surgery: Is it an Accurate Predictor of 12-Month Outcome in Real World Registry Platforms? Godil SS, Cheng JS, McGirt M, **Devin, C**. Paper # 20. CSRS Annual Meeting, Los Angeles, CA, Thursday, December 5, 2013.
- Preoperative Narcotic Use and its Association with Perioperative Narcotic Demand and Postoperative Narcotic Independence in patients Undergoing Spine Surgery. Lee D, Armaghani S, Bible J, Shau D, Kay HF, Zhang CE, McGirt M, **Devin C**. Paper # 52. CSRS Annual Meeting, Los Angeles, CA, Saturday, December 7, 2013.
- Repeat Spine Imaging in Transferred Emergency Department Patients. Bible JE, Kadakia RJ, Casimir GE, Zhang CE, Kay, HF, **Devin CJ**. Paper #58. CSRS Annual Meeting, Los Angeles, CA, Saturday, December 7, 2013.
- Surgical Management of Cervical Spondylotic Myelopathy. Lee JY, **Devin CJ**, Cornett, CA. Paper #169. AAOS Annual Meeting, New Orleans, LA. Tuesday, March 11, 2014
- How often are Interfacility Transfer of Spine Injury Patients Truly Necessary. Bible JE, Kadakia R, Kay HF, Zhang C, Casimir GE, **Devin CJ**. Paper #698. AAOS Annual Meeting, New Orleans, LA. Friday, March 14, 2014.
- Platelet Rich Plasma in Spine Surgery. **Devin CJ**. NASS Summer Meeting, Amelia Island, FL. July 23-26, 2014.

- Do patient demographics and patient reported outcomes predict 12-month loss to follow-up after spine surgery? Parker SL, Godil SS, Cheng JS, McGirt MJ, **Devin CJ**. NASS Annual Meeting, San Francisco, CA. November 12-15, 2014.
- Lumbar discectomy in the ambulatory care setting: Defining its value across the acute and post-acute care episode. Parker SL, Asher A, Dyer EH, Adamson TE, **Devin CJ**, McGirt MJ. NASS Annual Meeting, San Francisco, CA. November 12-15, 2014
- Preoperative opioid usage and anxiety are associated with increased non-surgeon visits for spine-related pain with postoperative global period. Bible JE, Shau DN, Kay HF, Zhang C, Armaghani SJ, McGirt MJ, **Devin CJ**. NASS Annual Meeting, San Francisco, CA. November 12-15, 2014.
- Cell Saver Utilization is not Cost-Effective for Patients Receiving Blood Products When Undergoing Lumbar laminectomy and Fusion (≤ 3 levels). **Devin CJ**, Bible JE, Shau DN, McGirt MJ, Mendenhall SK. NASS Annual Meeting, San Francisco, CA. November 12-15, 2014.
- Thresholds for Achieving Substantial Clinical Improvements in Pain, Disability, and Quality of Life following Adult Deformity Surgery. Parker SL, Godil SS, McGirt MJ, **Devin CJ**, O'Neill KR. NASS Annual Meeting, San Francisco, CA. November 12-15, 2014.
- Anterior Approach for Cervical Surgery is associated with Decreased Surgical Morbidity Compared to Posterior Approach. Analysis of 9,698 patients from NSQIP Database. Parker SL, Godil SS, Cheng JS, **Devin CJ**, McGirt MJ. NASS Annual Meeting, San Francisco, CA. November 12-15, 2014.
- Improving Surgical Spine Outcomes through a Targeted Postoperative Rehabilitation Approach. Archer K, Vanston S, Koyama TK, Phillips S, Aaronson OS, Cheng JS, McGirt MJ, **Devin CJ**, Wegener S. NASS Annual Meeting, San Francisco CA. November 14, 2014.
- Patient-Reported and Performance-Based Outcome Measures Following Spine Surgery: A Longitudinal Analysis. Archer K, Wegener S, Vanston S, Bird ML, McGirt MJ, Cheng JS, Aaronson OS, **Devin CJ**. NASS Annual Meeting, San Francisco, CA. November 12-15, 2014.
- Using Personalized Patient Profiles to Predict Surgical Morbidity, Readmission and 12-Month Physical Disability after Lumbar Spine Surgery. Sivagansan A, Parker SL, Godil SS, Asher A, **Devin CJ**, McGirt MJ. NASS Annual Meeting, San Francisco, CA. November 12-15, 2014.

- ACDF in the Outpatient Ambulatory Surgery Setting: Analysis of 1000 consecutive Cases and comparison to Hospital inpatient ACDF. Godil SS, Mendenhall SK, **Devin CJ**, McGirt MJ. Paper # 22. CSRS Annual Meeting, Orlando, FL. December 4, 2014.
- Outpatient vs. Inpatient ACDF is Associated with Improved Surgical Quality: Analysis of 7,288 patients from NSQIP Database. **Devin CJ**. McGirt MJ, Godil SS. Paper # 24. CSRS Annual Meeting, Orlando, FL. December 4, 2014.
- What patient Characteristics could Potentially affect your Patient Satisfaction Scores during Spine Clinic? Bible JE, Kay HF, Shau DN, O'Neill KR, Segebarth PB, **Devin CJ**. Paper #47. CSRS Annual Meeting, Orlando, Florida. December 6, 2014.
- Are Low Patient Satisfaction Scores Always Due to the Provider? Determinants of Patient Satisfaction Scores during Spine Clinic Visits. Bible JE, Shau DN, Kay HF, O'Neill KR, Segebarth PB, **Devin CJ**. Paper #51. CSRS Annual Meeting, Orlando, FL. December 6, 2014.
- Anterior versus Posterior Approach for Cervical Myelopathy: comparative Effectiveness and Cost-Utility Analysis. Mendenhall SK, Parker SL, Armaghani S, Sivasubramaniam P, **Devin CJ**. Paper #049. AAOS Annual Meeting, Las Vegas, NV. March 24-28, 2015.
- Occipital Condyle Fractures: A Single Institution Experience Over 15 years and Treatment Recommendations. Armaghani S, Sielatycki J, Mendenhall SK, Mistry A, Sivasubramaniam P, **Devin CJ**. Paper #057. AAOS Annual Meeting, Las Vegas, NV. March 24-28, 2015.
- Surgical management of Cervical Spondylotic Myelopathy. Posterior Cervical Approaches. AAOS ICL Session # 431. March 24-28, 2015. AAOS Annual Meeting, Las Vegas, NV.
- Does the use of Intrawound Vancomycin Decrease the Risk of Surgical Site Infection After Elective Spine Surgery? A Multicenter Analysis. October 14, 2015. NASS Annual Meeting, Chicago, IL.
- Patient Satisfaction: What Factors Influence Patient Satisfaction? Can I Select Patients Who Will Have High Satisfaction Scores? October 15, 2015. NASS Annual Meeting, Chicago, IL.
- Cost Utility Analysis of Anterior Cervical Discectomy and Fusion for Degenerative Spine Disease in Elderly Population. Chotai S, Parker SL, Sielatycki JA, Sivaganesan A, Kay HF, Wick JB, McGirt MJ, **Devin CJ**. CSRS Presentation #7. December 3, 2015. CSRS Annual Meeting, San Diego, CA.

- Determining the Drivers of Cost for Elective Anterior Cervical Discectomy and Fusion for Cervical Degenerative Disease. Chotai S, Sivaganesan A, Parker SL, Aaronson O, Cheng J, McGirt MJ, **Devin CJ**. Presentation #8. December 3, 2015. CSRS Annual Meeting, San Diego, CA.
- Where do True Cost Savings Exist following Elective Surgery for Degenerative Spine Disease. Chotai S, Parker SL, Sivaganesan A, Stonko D, McGirt MJ, **Devin CJ**. Presentation #9. December 3, 2015. CSRS Annual Meeting, San Diego, CA.
- Impact of Obesity on Cost per Quality Adjusted Life Years Gained following Anterior Cervical Discectomy and Fusion in Elective Degenerative Pathology. Chotai S, Sielatycki JA, Sivaganesan A, Parker SL, Kay HF, O'Neill KR, McGirt MJ, **Devin CJ**. Presentation #10. December 3, 2015. CSRS Annual Meeting, San Diego, CA.
- Is Obesity Correlated with Increased Complications following Cervical Surgery for Degenerative Conditions? Sielatycki JA, Chotai S, Stonko DP, Wick JB, Kay HF, O'Neill KR, **Devin CJ**. Presentation #37. December 3, 2015. CSRS Annual Meeting, San Diego, CA.
- Does the Use of Intrawound Vancomycin Decreases the Risk of Surgical Site Infection After Elective Spine Surgery? – A Multicenter Analysis. **Devin CJ**, Vaccaro AR, McGirt MJ, Chotai S, Youssef JA, Orndorff DG, Arnold PM, Frempong-Boadu AK, Lieberman IH, Hedayat H, Branch CL, Wang JC, Isaacs RE, Radcliff KE, Patt JC, Archer KR. Presentation #39. December 3, 2015. CSRS Annual Meeting, San Diego, CA.
- Quality of Life and General Health following Elective Surgery for Cervical Spine Pathologies: Determining Valid and Responsive Metric of Health State Utility. Chotai S, Parker SL, Sivaganesan A, Sielatycki JA, Wick JB, McGirt MJ, **Devin CJ**. Presentation #65. December 3, 2015. CSRS Annual Meeting, San Diego, CA.
- Drivers of Cost for Anterior Cervical Discectomy and Fusion for Cervical Degenerative Disease. Chotai S, Kay HF, Sivaganesan A, Parker SL, McGirt M, **Devin CJ**. Paper 046. March 1, 2016. AAOS Annual Meeting, Orlando, FL
- Surgical management of Cervical Spondylotic Myelopathy. Cornett CA, **Devin CJ**, Lee JY. ICL #169. March 1, 2016. AAOS Annual Meeting, Orlando, FL.
- Effect of Complications on the Patient-reported Outcomes after Elective Surgery for Lumbar Degenerative Disease. Stonko D, Chotai S, Sielatycki J, Sivaganesan A, Parker SL, McGirt M, **Devin CJ**. Paper 213. March 1, 2016. AAOS Annual Meeting, Orlando, FL.
- Differentiating Cervical Spine and Shoulder Pathology: Common Disorders and Key Points of Evaluation and Treatment. ICL #304. Moderator: **Devin CJ**. March 3, 2016. AAOS Annual Meeting, Orlando, FL.

- Effect of Depression and Anxiety on Patient Reported Outcomes following Cervical Epidural Steroid Injection. Stonko D, Chotai S, Kay HF, Sielatycki J, McGirt M, **Devin CJ**. Paper 558. March 3, 2016. AAOS Annual Meeting, Orlando FL.
- Patient Reported Outcomes after Lumbar Epidural Steroid Injection in Depressed versus Non-depressed patients. Wick JB, Chotai S, Kay HF, Sivaganesan A, Parker SL, Stonko D, McGirt M, **Devin CJ**. Paper 565. March 3, 2016. AAOS Annual Meeting, Orlando, FL.
- Pca Use for Inpatient Posterior Lumbar Spine Fusion: Opioid related Complications and Costs. **Devin CJ**, McGirt M, Lau E, Lovald S, Ong K. Paper 569. March 3, 2016. AAOS Annual Meeting, Orlando, FL.
- Determining Drivers of Cost for Elective Laminectomy and Fusion for Lumbar Degenerative Disease. Chotai S, Kay HF, Sivaganesan A, Parker SL, McGirt M, **Devin CJ**. Paper 617. March 3, 2016. AAOS Annual Meeting, Orlando, FL.
- Determining the Drivers of Cost for Elective Microdiscectomy for Single-Level Lumbar Disc Herniation. **Devin CJ**, Chotai S, Sivaganesan A, Parker SL, Kay HF, McGirt M. Paper 618. March 3, 2016. AAOS Annual Meeting, Orlando, FL.
- Does Obesity Predict Worse Patient-Reported Outcomes Following Lumbar Spine Surgery? Sielatycki J, Chotai S, Kay HF, Wick JB, Stonko D, McGirt M, **Devin CJ**. Paper 624. March 3, 2016. AAOS Annual Meeting, Orlando, FL.
- Patient-Specific Factors Predicting Dissatisfaction after Elective Surgery for Degenerative Spine Diseases. Wick JB, Chotai S, Kay HF, Sielatycki J, Sivaganesan A, Parker SL, McGirt M, **Devin CJ**. Paper 722. March 4, 2016. AAOS Annual Meeting, Orlando, FL.
- Does Intrawound Vancomycin Decrease the Risk of Surgical Site Infection after Spine Surgery? – A Multicenter Study. **Devin CJ**, Vaccaro A, McGirt M, Chotai S, Youssef JA, Orndorff DG, Arnold PM, Frempong-Boadu A, Lieberman IH. Paper 728. March 4, 2016. AAOS Annual Meeting, Orlando, FL.
- Lumbar Surgery in the Elderly Provides Significant Health Benefit and Value in the U.S. Healthcare system: patient-reported outcomes in 4,370 patients from the N2QOD registry. Parker SL, **Devin CJ**, Asher AL, McGirt MJ. Standard Abstract #15. March 4, 2016. SNS Annual Meeting, San Antonio, TX.
- What Pre-and Intra-operative factors drive length of stay after elective cervical spine surgery? Sivaganesan A, Chotai S, Parker SL, McGirt MJ, **Devin CJ**. Rapid Fire Abstract #24. March 4, 2016. SNS Annual Meeting, San Antonio, TX.

- Determining the Drivers of Cost for Primary Single-level Microdiscectomy for Lumbar Degenerative Disease. Chotai S, Sivaganesan A, Parker SL, Aaronson O, Cheng JS, McGirt MJ, **Devin CJ**. Rapid Fire Abstract #27. March 4, 2016. SNS Annual Meeting, San Antonio, TX.
- If and When Minimally Invasive Approaches Offer Value. **Devin CJ**. Scientific Session III, March 5, 2016. SNS Annual Meeting, San Antonio, TX.
- Effect of complications within 90-days on cost-utility following lumbar decompression with and without fusion for degenerative spine disease. Parker SL, Chotai S, Sivaganesan A, **Devin CJ**, McGirt MJ. Standard Abstract #34. March 5, 2016. SNS Annual Meeting, San Antonio, TX.
- Factors associated with non-improvement in patient-reported disability at 12-months post-operatively following elective lumbar surgery for degenerative pathology. Parker SL, **Devin CJ**, Chotai S, Bydon M, Archer K, McGirt MJ, Asher AL. Rapid Fire Abstract #40. March 5, 2016. SNS Annual Meeting, San Antonio, TX.
- Surgical resection of intradural extramedullary spinal tumors: patient reported outcomes and minimum clinically important difference. Zuckerman SL, Chotai S, **Devin CJ**, Parker SL, Stonko DP, Wick JB, Hale AT, McGirt MJ, Cheng JS. Rapid Fire Abstract #44. March 5, 2016. SNS Annual Meeting, San Antonio, TX.
- Predictive Model for Return to Work after Elective Surgery for Lumbar Degenerative Disease: An Analysis from National Neurosurgery Quality outcomes Database Registry. May 2016. AANS Annual Scientific Meeting, Chicago, IL.
- Impact of Functional Status of Patient on Satisfaction with Surgery 12-months after Elective Spine Surgery for Lumbar Degenerative Disease. May 2016. AANS Annual Scientific Meeting, Chicago, IL.
- Effect of Complications within 90 Days on Cost-Utility following Lumbar Decompression with and without Fusion for Degenerative Spine Disease. Chotai S, Sivaganesan A, Parker SL, Sielatycki JA, Wick J, Stonko D, McGirt MJ, Devin CJ. Paper #20. NASS Annual Meeting, Boston MA. Wednesday, October 26, 2016.
- Two Year Patient-Reported Outcomes Costs and Health Care Resource Utilization for TLIF versus PLF for Single-Level Degenerative Spondylolisthesis. Kim E, Chotai S, Stonko D, Wick J, Sielatycki JA, Devin CJ. Paper #29. NASS Annual Meeting, Boston MA. Wednesday, October 26, 2016.
- Determining the Drivers of Cost for Elective Laminectomy and Fusion for Lumbar Degenerative Disease. Chotai S, Sivaganesan A, Parker SL, Sielatycki JA, McGirt MJ, Devin CJ. Paper #31. NASS Annual Meeting, Boston MA. Wednesday, October 26, 2016.

- Does Intrawound Vancomycin Application during Spine Surgery Create Vancomycin Resistant Organisms? Chotai S, Wright P, Hale A, Jones W, McGirt MJ, Patt JC, Devin CJ. Paper #55. NASS Annual Meeting, Boston MA. Wednesday, October 26, 2016.
- Impact of Functional Status of Patient on Satisfaction with Surgery 12 Months after Elective Spine Surgery for Lumbar Degenerative Disease. Devin CJ, Chotai S, Bydon M, Archer K, McGirt MJ, Nian H, Harrell FE, Asher AL. Paper #78. NASS Annual Meeting, Boston MA. Wednesday, October 26, 2016.
- Timing of Operative Intervention in Traumatic Spine Injuries without Neurologic Deficit. Kim E, Wick J, Stonko D, Chotai S, Freeman T, Douleh DG, Mistry A, Parker SL, Devin CJ. Paper #111. NASS Annual Meeting, Boston MA. Wednesday, October 26, 2016.
- Predictive Model for Discharge to Home after Elective Surgery for Lumbar Degenerative Disease: An Analysis from National Neurosurgery Quality Outcomes Database Registry. Chotai S, Devin CJ, Bydon M, Archer K, McGirt MJ, Nian H, Harrell FE, Asher AL. Paper #189. NASS Annual Meeting, Boston MA. Friday, October 28, 2016.
- Health Care Resource Utilization and Patient-Reported Outcomes following Elective Surgery for Intradural Extramedullary Spinal Tumors. Chotai S, Zuckerman SL, Parker SL, Stonko D, Hale A, Wick J, McGirt MJ, Cheng JS, Devin CJ. Paper #216. NASS Annual Meeting, Boston MA. Friday, October 28, 2016.
- Surgical Resection of Intradural Extramedullary Spinal Tumors: Patient-Reported Outcomes and Minimum Clinically Important Difference. Zuckerman SL, Chotai S, Devin CJ, Parker SL, Stonko D, Wick J, Hale A, McGirt MJ, Cheng JS. Paper #217. NASS Annual Meeting, Boston MA. Friday, October 28, 2016.
- Determining the Drivers of Variability in 90-Day cost for Primary Single-Level Microdiscectomy. Chotai S, Sivaganesan A, Parker SL, Sielatycki JA, Archer K, Nian H, McGirt MJ, Devin CJ. Paper #249. NASS Annual Meeting, Boston MA. Friday, October 28, 2016.
- Impact of Type of Graft on Patient Reported Outcomes and Costs following Anterior Cervical Discectomy and Fusion. Chotai S, Parker, SL, Kim EJ, Sivaganesan A, McGirt MJ, Devin CJ. Presentation #19. CSRS Annual Meeting, Toronto, Ontario, Canada. Thursday, December 1, 2016.
- Patient Reported Outcomes and Costs in Revision Cervical Surgery. Kim EJ, Chotai S, Wick JB, Stonko D, Sivaganesan A, Devin CJ. Presentation #43. CSRS Annual Meeting, Toronto, Ontario, Canada. Friday December 2, 2016.

- Predictive Models for Patient-Centered Efficacy and Discharge Destination after Elective Cervical Spine Surgery. Sivaganesan A, Chotai S, Kim EJ, Stonko D, Wick JB, McGirt M, Devin CJ. CSRS Annual Meeting, Toronto, Ontario, Canada. Saturday, December 3, 2016.
- Two-year Patient-reported Outcomes, Costs, and Healthcare Resource Utilization for Transforaminal Lumbar Interbody Fusion versus Posterolateral Fusion for Single Level Degenerative Spondylolisthesis. Chotai S, Devin CJ, Kim EJ, Sielatycki J, Stonko D, Wick JB. Paper # 561. AAOS Annual Meeting, San Diego, CA. Thursday, March 16, 2017.
- 100 Effect of Complications within 90 days on Patient-reported Outcomes at 3 Months and 12 Months following Elective Surgery for Degenerative Lumbar Pathology. Parker SL, Chotai S, Sivaganesan A, Sielatycki JA, McGirt MJ, Devin CJ. J.A.N.E. Award Winner. Spine Summit 2016, Orlando, FL. Thursday, March 16, 2017.
- Cost-utility Analysis of Anterior Cervical Discectomy and Fusion for Degenerative Spine Disease in Elderly Population. Parker SL, Chotai S, Sielatycki JA, Sivaganesan A, Kay H, Stonko DP, Wick J, McGirt MJ, Devin CJ. Presentation # 243. Spine Summit 2016, Orlando, FL. Saturday, March 18, 2017.
- Effect of Obesity on Cost and Effectiveness after Decompression with and without Fusion for Degenerative Lumbar Disease. Parker SL, Sielatycki JA, Chotai S, Sivaganesan A, Stonko DP, McGirt MJ, Devin CJ. Presentation #214. Spine Summit 2016, Orlando, FL. Saturday, March 18, 2017.
- PCA use for Inpatient Posterior Lumbar Spine Fusion: Opioid-related Complications and Costs. McGirt MJ, Devin CJ, Lau E, Lovald S, Ong KL. Presentation #229. Spine Summit 2016, Orlando, FL. Saturday, March 18, 2017.
- Surgical Perspective to Neck and Shoulder Pain with Case Presentation. Devin CJ. Symposium: Workup of Mimicking Pathology. NASS Summer Spine 2017, San Diego, CA. Thursday, July 27, 2017.
- Surgical Perspective to Hip Spine Syndrome with Case Presentation. Devin CJ. Symposium: Workup of Mimicking Pathology. NASS Summer Spine 2017, San Diego, CA. Thursday, July 27, 2017.
- Comparative-Effectiveness of Single-Level Anterior Cervical Discectomy and Fusion versus Posterior Cervical Foraminotomy for Patients with Cervical Radiculopathy: Analysis from Quality Outcome Database. Chotai S, Asher AL, Devin CJ, Sivaganesan A, Bydon M, McGirt MJ, Archer K, Glassman SD, Shaffrey CI. NASS Summer Spine, San Diego, CA. Thursday, July 27, 2017.

- Effect of Neck-Related Disability Scores on Satisfaction with Outcomes 12-Months after Elective Surgery for Cervical Spine Degenerative Disease. Chotai S, Sivaganesan A, Asher AL, Bydon M, Devin CJ. NASS Summer Spine, San Diego, CA. Thursday, July 27, 2017.
- Posterior Approaches. Devin CJ. Symposium: Cervical Myelopathy. NASS Summer Spine 2017, San Diego, CA. Thursday, July 27, 2017.
- Is there a Preoperative Morphine Equianalgesic Dose that Predicts Ability to Achieve a Clinically meaningful Improvement Following Spine Surgery? Wick JB, Sivaganesan A, Chotai S, Archer K, Posey S, Evans P, Devin CJ. NASS Summer Spine, San Diego, CA. Friday, July 28, 2017.
- Metastatic Spine Disease and Stability. Devin CJ. Symposium: Oncology. NASS Summer Spine 2017. San Diego, CA. Saturday, July 29, 2017.
- Utility of Anxiety or Depression domain of EQ-5D to Define Psychological Distress in Spine Surgery. Chotai S, Nian H, Archer K, Harrell FE Jr, Bydon M, Asher AL, Devin CJ. NASS Annual Meeting, Orlando, Florida. October 25, 2017.
- Pre-Injection Opioid Use as a Predictor of Adverse Post-injection Patient-Reported Outcomes following Epidural Steroid Injections for Degenerative Spine Disease. Wei J, Chotai S, Sivaganesan A, Archer K, Devin CJ. NASS Annual Meeting, Orlando, Florida. October 25, 2017
- A Perioperative Protocol for Elective Spine Surgery is Associated with Reduced Length of Stay and Complications. Sivaganesan A, Chotai S, Cherkesky CM, McGirt MJ, Stephens BF II, Devin CJ. NASS Annual Meeting. Orlando, Florida. October 27, 2017.
- Is there a preoperative morphine equivalent dose that predicts ability to achieve a clinically meaningful improvement following spine surgery? Wick JB, Sivaganesan A, Chotai S, Archer K, Posey S, Evans P, Devin CJ. NASS Annual Meeting. Orlando, Florida. October 27, 2017.
- Comparative-effectiveness of Single-level Anterior Cervical Discectomy and Fusion versus Posterior Cervical Foraminotomy for Patients with Cervical Radiculopathy: Analysis from Quality Outcome Database. Asher AL, Devin CJ, Bydon M, Chotai S, McGirt MJ, Archer K, Foley KT, Glassman SD, Shaffey CI, Sivaganesan A, Nian H, Harrell FE Jr. NASS Annual Meeting. Orlando, Florida. October 27, 2017.

INVITED LECTURES

- Discussion of the Comprehensive Spine Center. Healthcare Delivery and Organization Course. Owen Graduate School of Management, Vanderbilt University, Nashville, Tennessee. February 13, 2014.
- Grand Rounds - Charlotte Medical Center, Charlotte, North Carolina. January 23, 2014.
- Cost Utility Analysis of Anterior Cervical Discectomy and Fusion for Degenerative Spine Disease in Elderly Population. Instructional Course Lecture Session III. CSRS Annual Meeting, Toronto, Ontario, Canada. December 2016.
- Bending the Cost Curve-Establishing Value in Spine Surgery. AANS Spine Section. 2017 Spine Summit. Las Vegas, Nevada. March 2017.
- Complications in Cervical Spine Surgery (Managing Pseudoarthrosis and adjacent level disease). Instructional Course Lecture. AAOS Annual Meeting, San Diego, California. March 2017.
- Orthopaedic Grand Rounds – Penn State Milton S. Hershey Medical Center, Hershey, PA. September 28, 1017 (7:00-8:00 am).

POSTER PRESENTATIONS

- Microscope Sterility During Spine Surgery. Bible J, O'Neill KR, Crosby C, **Devin CJ**. Poster#4. NASS Annual Meeting, Chicago, IL. November 2-5, 2011.
- Effectiveness of Revision Lumbar Surgery for Adjacent Segment Disease: Two-Year Improvement in Pain, Disability, Quality of Life and Health-State Utility. McGirt M, Parker S, Adogwa O, Shau D, Mendenhall S, Aaronson O, Cheng JS, **Devin CJ**. Poster # 36. NASS Annual Meeting, Chicago, IL. November 2-5, 2011.
- Cost Effectiveness of Revision Instrumented Fusion for Lumbar Psuedoarthrosis. McGirt M, Adogwa O, Parker S, Shau D, Mendenhall S, Aaronson O, Cheng JS, **Devin CJ**. Paper #37. NASS Annual Meeting, Chicago, IL. November 2-5, 2011.
- Effectiveness of Revision Fusion for Lumbar Pseudoarthrosis: Two-Year Improvement in Pain, Disability, Quality of Life and Health-State Utility. McGirt M, Adogwa O, Parker, S, Shau D, Mendenhall S, Cheng JS, Aaronson O, **Devin CJ**. Poster #38. NASS Annual Meeting, Chicago, IL. November 2-5, 2011.
- Effectiveness of Revision Decompression and Fusion for Same-Level Recurrent Lumbar Stenosis: Two-Year Improvement in Pain, Disability, Quality of Life and Health-State Utility. McGirt M, Parker S, Adogwa O, Shau D, Mendenhall S, Cheng

JS, Aaronson O, **Devin CJ**. Poster #39. NASS Annual Meeting, Chicago, IL. November 2-5, 2011.

- Determination of Minimum Clinically Important Difference (MCID) in Pain, Disability and Quality of Life after Revision Fusion for Symptomatic Pseudoarthrosis. McGirt M, Parker S, Adogwa O, Mendenhall S, Shau D, Cheng JS, **Devin CJ**. Poster #43. NASS Annual Meeting, Chicago, IL. November 2-5, 2011.
- Clinical Indications for Arterial Imaging in Cervical Trauma. McCullough KA, Even JL, Hohl J, Bradley B, Song Y, Lee JY, **Devin CJ**. Poster #P362. AAOS Annual Meeting, San Diego, CA. February 15-19, 2011.
- Implant Contamination during Spine Surgery. Bible JE, Crosby CG, O'Neill KR, McGirt MJ, Schoenecker JG, **Devin CJ**. Poster #11. CSRS Annual Meeting, Scottsdale, Arizona, December 2011.
- Loss of the Fibrinolytic Protease, Plasminogen, Leads to Early Degeneration of the Axial Skeleton. Bible JE, Cole H, Nyman J, Yuasa M, Degen J, Gailani D, **Devin CJ**, Schoenecker J. Poster #20. CSRS Annual Meeting, Scottsdale, Arizona, December 2011.
- Outcomes following Revision Surgery for Adjacent Segment Disease after Anterior Cervical Discectomy and Fusion (ACDF). O'Neill KR, Adogwa O, Wilson RJ, Burns KM, Mioton LM, Wright BT, McGirt MJ, **Devin CJ**. Poster #29. CSRS Annual Meeting, Scottsdale, Arizona. December 2011.
- Loss of the Fibrinolytic Protease, Plasminogen, Leads to Early Degeneration of Appendicular and Axial Skeleton. Bible J, Cole H, Nyman J, Yuasa M, Gailani D, **Devin CJ**, Schoenecker JG. Poster #P521. AAOS Annual Meeting, San Francisco, CA. February 7-11, 2012.
- A preoperative Grading Scale that Predicts Two-Year healthcare Costs Following Revision Lumbar Fusion Procedures: How We Can Improve the Cost of Care We Provide. Parker SL, Godil SS, Shau DN, Mendenhall SK, **Devin CJ**, McGirt MJ. Poster #12. NASS Annual Meeting, Dallas, TX. November 24-27, 2012.
- Mechanical Versus Chemical Prophylaxis for Deep Venous Thrombosis in Patients Undergoing Lumbar Spinal Fusion : Comparative Effectiveness and Cost-Benefit. Godil SS, Dewan MC, Parker SL, **Devin CJ**, McGirt MJ. Poster #37. NASS Annual Meeting, New Orleans, LA. October 9-12, 2013.
- Preoperative Narcotic Use Predicts Worse Postoperative Self-Reported Outcomes in patients Undergoing Spine Surgery. Lee DS, Armaghani SJ, Bible JE, Shau DN, Kay HF, Zhang C, Archer K, McGirt MJ, **Devin CJ**. Poster #81. NASS Annual Meeting, New Orleans, LA. October 9-12, 2013.

- Preoperative Narcotic Use and its Relation to Anxiety, Depression and Payer Status in Patients Undergoing Spine Surgery. Lee DS, Armaghani SJ, Bible JE, Shau DN, Kay HF, Zhang C, McGirt MJ, **Devin CJ**. Poster #82. NASS Annual Meeting, New Orleans, LA. October 9-12, 2013.
- Evaluation of Donor Site Pain After harvest of Anterior Iliac Crest bone Graft for Spinal Surgery: A Prospective Study. Armaghani S, Zern E, Braly B, Bible JE, Lee D, Even J, Kang JD, **Devin CJ**. Poster #33. CSRS Annual Meeting, Los Angeles California; December, 2013.
- How Often Are Interfacility Transfers of Spine Injury Patients Truly Necessary? Bible JE, Kadakia RJ, Kay HF, Zhang CE, Casimir GE, **Devin CJ**. Poster #79. CSRS Annual Meeting, Los Angeles California; December, 2013.
- Perioperative narcotic use and its Relation to Depression and Anxiety in Patients Undergoing Spine Surgery. Armaghani S, **Devin CJ**, Lee D, Bible JE, Shau DN, Archer K. Poster #P359. AAOS Annual Meeting, New Orleans, LA. March 11-15, 2014.
- Outpatient versus Inpatient Anterior Cervical Discectomy and Fusion is Associated with Improved patient Safety: Analysis of 7,288 Patients from NSQIP Database. Parker SL, Godil SS, Dyer EH, Adamson TE, Asher A, **Devin CJ**, McGirt MJ. NASS Annual Meeting, San Francisco, CA. November 12-15, 2014.
- Patient Reported Outcome Measures Collected via Telephonic Interviews versus Self-Administered Forms after Lumbar Spine Surgery: Does Data Collection Methodology make a Difference? Parker SL, Godil SS, Archer K, Vanston S, Wegener S, **Devin CJ**. NASS Annual Meeting, San Francisco, CA. November 12-15, 2014.
- Preoperative Predictors of Three-Month and One-Year Change in Quality of Life (EQ-5D) following Multilevel Lumbar Laminectomy and Fusion. **Devin CJ**, Mendenhall SK, Bible JE, Shau DN, McGirt MJ. NASS Annual Meeting, San Francisco, CA. November 12-15, 2014.
- Preoperative Opioid Usage and Anxiety are Associated with Increased Non-Surgeon visits for Spine-Related Pain within Postoperative Global Period. Bible JE, Kay HF, Shau DN, O'Neill KR, McGirt MJ, **Devin CJ**. E-Poster #35. CSRS Annual Meeting, Orlando, FL. December 4-6, 2014.
- Comprehensive Assessment of Traumatic Atlanto-Occipital Dissociation in Survivors at a Single Institution over 15 Years. Sivaganesan AJ, Mendenhall SK, Mistry A, Sivasubramaniam PG, McGirt MJ, **Devin CJ**. E-Poster #46. CSRS Annual Meeting, Orlando, FL. December 4-6, 2014.

- Does Depression or Anxiety affect Patient-Reported Outcomes and Satisfaction following Operative Treatment for Cervical Myelopathy or Radiculopathy? Kay HF, Chotai S, Wick JB, Stonko DP, McGirt MJ, **Devin CJ**. Presentation #22P. December 3, 2015. CSRS Annual Meeting, San Diego, CA.
- The Profile of a Smoker and its Impact on Outcomes after Cervical Spine Surgery. Vasquez-Castellanos RA, Chotai S, Wick JB, Stonko DP, McGirt MJ, **Devin CJ**. Presentation #23P. December 3, 2015. CSRS Annual Meeting, San Diego, CA.
- Patient-Specific Factors Predicting Dissatisfaction after Elective Surgery for Degenerative Spine Diseases. Armaghani SJ, Chotai S, Sivaganesan A, Parker SL, Sielatycki JA, Stonko D, McGirt MJ, **Devin CJ**. Presentation #24P. December 3, 2015. CSRS Annual Meeting, San Diego, CA.
- Does Cervical Sagittal Alignment Correlate with Outcomes following Anterior Cervical Surgery? Sielatycki JA, Armaghani S, Silverberg A, McGirt MJ, **Devin CJ**, O'Neill KR. E-poster # 12 – Cervical Fusion. December, 2015. CSRS Annual Meeting, San Diego, CA.
- Impact of Obesity on Cost per Quality Adjusted Life Years Gained Following Lumbar Spine Surgery. Sielatycki J, Chotai S, Kay HF, Sivaganesan A, Parker SL, McGirt M, **Devin CJ**. Poster P354. March 2016. AAOS Annual Meeting, Orlando, FL.
- Does Number of Reported Drug Allergies Affect Patient-Reported Outcomes Following Lumbar Spine Surgery? Kay HF, Chotai S, Wick JF, Stonko D, Asher A, McGirt M, **Devin CJ**. Poster P356. March 2016. AAOS Annual Meeting, Orlando, FL.
- Cost-Utility Associated with Occurrence of Complications within 90-days after Degenerative Lumbar Spine Surgery. Kay HF, Chotai S, Sivaganesan A, Parker SL, McGirt M, **Devin CJ**. Poster P380. March 2016. AAOS Annual Meeting, Orlando, FL.
- Cost per Quality Adjusted Life Years Gained of Degenerative Lumbar Spine Surgery in Elderly Patients. **Devin CJ**, Chotai S, Parker SL, Tetreault L, Fehlings M, McGirt M. Poster P392. March 2016. AAOS Annual Meeting, Orlando, FL.
- Cost per Quality Adjusted Life Years Gained for Anterior Cervical Discectomy and Fusion in Elderly Population. Kay HF, Chotai S, Wick JB, Stonko D, McGirt M, **Devin CJ**. Poster P400. March 2016. AAOS Annual Meeting, Orlando, FL.
- Effect of Depression on Patient Reported Outcomes following Cervical Epidural Steroid Injection for Degenerative Spine Disease. Kim E, Chotai S, Schneider BJ, Sivaganesan A, McGirt MJ, **Devin CJ**. Poster #P91. NASS Annual Meeting, Boston, MA. October 26-29, 2016.

- Predictive Model for Patient-Centered Efficacy of Elective Spine Surgery for Degenerative Cervical Disease. Sivaganesan A, Chotai S, Parker SL, McGirt MJ, **Devin CJ**. Poster #P151. NASS Annual Meeting, Boston, MA. October 26-29, 2016.
- Predictive Model for Return to Work after Elective Surgery for Lumbar Degenerative Disease: An Analysis from National Neurosurgery Quality Outcomes Database Registry. Archer K, **Devin CJ**, Chotai S, Bydon M, McGirt MJ, Nian H, Harrell FE, Asher AL. Poster #P179. NASS Annual Meeting, Boston, MA. October 26-29, 2016.
- Predictive Model for Return to Work after Elective Surgery for Cervical Degenerative Disease: An Analysis from National Neurosurgery Quality Outcomes Database Registry. Chotai, S, Asher A, McGirt M, Parker SL, Archer K, Bydon M, Nian H, Harrell Jr FE, Devin CJ. E-Poster #17. CSRS Annual Meeting, Toronto, Ontario, Canada. December 1-3, 2016.
- Predictive Model for Neck Disability Index 12-Month after Elective Surgery for Degenerative Cervical Radiculopathy: Analysis from National Neurosurgery Quality Outcome Database. Chotai S, Asher A, McGirt MJ, Parker SL, Archer K, Bydon M, Nian H, Harrell Jr. FE, Devin CJ. E-Poster #35. CSRS Annual Meeting, Toronto, Ontario, Canada. December 1-3, 2016.
- Timing of Operative Intervention in Traumatic Spine Injuries without Neurologic Deficit. Kim EJ, Wick JB, Stonko DP, Chotai S, Freeman Jr. T, Douleh DG, Mistry A, Devin CJ. E-Poster #56. CSRS Annual Meeting, Toronto, Ontario, Canada. December 1-3, 2016.
- Surgeon-Level Variability in Cost and Outcomes for Elective Anterior Cervical Discectomy and Fusion. E-Poster #P12. NASS Summer Spine 2017, San Diego, CA. July 26-29, 2017.
- Improvement in Disability and Quality of Life and Pain 12-Month after Elective Spine Surgery for Degenerative Cervical Radiculopathy: Analysis from Quality Outcome Database. Asher AL, Chotai S, Devin CJ, Bydon M, McGirt MJ, Archer K, Glassman SD, Shaffrey CI. E-Poster #P13. NASS Summer Spine 2017, San Diego, CA. July 26-29, 2017.
- Improvement in Disability and Quality of Life and Pain 12-Month after Elective Spine Surgery for Degenerative Cervical Myelopathy: Analysis from Quality Outcome Database. Bydon M, Chotai S, Devin CJ, McGirt MJ, Archer K, Glassman SD, Shaffrey CI, Asher AL. E-Poster #P14. NASS Summer Spine 2017, San Diego, CA. July 26-29, 2017.
- Effect of Neck-related Disability Scores on Satisfaction with Outcomes 12-months after Elective Surgery for Cervical Spine Degenerative Disease. Sivaganesan A, Chotai S, Asher AL, Bydon M, Devin CJ. NASS Summer Spine 2017. Orlando, FL. October 25, 2017.

- Drivers of Cost in Adult Spinal Deformity Surgery. Stephens BF II, Chotai S, Sivaganesan A, Devin CJ. NASS Annual Meeting. Orlando, FL. October 25, 2017.
- Predicting the Odds of Returning to Work for Patients Undergoing Elective Cervical Spine Surgery. Kim E, Chotai S, Wick JB, Stonko D, Sivaganesan A, Devin CJ. NASS Annual Meeting, Orlando, FL. October 25, 2017.
- Improvement in Disability and Quality of Life and Pain 12-month after Elective Spine Surgery for Degenerative Cervical Radiculopathy: Analysis from Quality Outcomes Database. Asher AL, Devin CJ, Bydon M, Chotai S, McGirt MJ, Foley KT, Glassman SD, Shaffrey CI. NASS Annual Meeting, Orlando, FL. October 25, 2017.
- Surgeon-Level Variability in Cost and Outcomes for Elective Lumbar Decompression-Fusion. Chotai S, Sivaganesan A, Sielatycki JA, Archer K, McGirt MJ, Devin CJ. NASS Annual Meeting. Orlando, FL. October 25, 2017.