

CURRICULUM VITAE**Name: Christopher P. Ames, M.D.**

Position: Professor of Neurological Surgery
 Professor of Orthopaedic Surgery
 Director of Spine Tumor Surgery
 Director of Spinal Deformity Surgery
 Co-director UCSF Spine Center
 Department of Neurological Surgery
 School of Medicine

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EDUCATION:

1981-1985	Landon School for Boys, Bethesda, MD		
1985-1989	Dartmouth College, Hanover, NH	B.A.	
1989-1991	Georgetown University, Washington, DC		
1992-1994	University of California, Los Angeles, CA	M.D.	
1994-1995	University of California San Diego	Intern	Neurosurgery
1995-2000	University of California San Diego	Resident	Neurosurgery
2000-2001	University of California San Diego	Chief Resident	Neurosurgery
2001-2002	Barrow Neurological Institute, Phoenix, AZ	Spine Fellow	

LICENSES, CERTIFICATION:

1998 Passed Written Examination, American Board of Neurological Surgeons, 95th percentile
 1996 Medical License, California
 2006 Board Certified ABNS

PRINCIPAL POSITIONS HELD:

7/2012 – present Professor of Neurological Surgery and Orthopaedic Surgery

2008-6/2012 Associate Professor of Clinical Neurosurgery

2006-Present Director of Spine Tumor and Deformity Surgery
 Department of Neurosurgery

2002-2008 University of California San Francisco
 Assistant Professor in Residence Medicine
 Co-director, Spinal Surgery and UCSF Spine Center
 Co-director, Neurospinal Disorders Program

HONORS:

1989	Cum Laude, Dartmouth College, Hanover, NH
1994	Alpha Omega Alpha Medical Honor Society, University of California, Los Angeles, CA
2001	Chairman's Prize University of California, San Diego
2005	ISSLS Award, "Effect of rh-BMP-2 on Spinal Fusion in a Radiated Area"
2010	Honored Guest of Korean Spine Society
2010	Honored Guest of Kuwait Neurosurgical Society
2011	US News and World Report 2011 Best Physician
2011	Becker Orthopedics Top 100 Spine Surgeon in US
2011	Honored Guest of Australian Spine Society
2011	Honored Guest of Asia Pacific Spine Society
2011-2012	US News and World Report Top 1% Neurosurgeons in Country
2012	San Francisco Super Doctors August 2012 SF Chronicle
2010-2016	America's Top Doctors for Cancer, Castle Connolly
2010-2016	America's Top Surgeons, Castle Connolly
2013	Scoliosis Research Society HIBBS Award
2013	Scoliosis Research Society MOE Award
2013	Scoliosis Research Society WHITECLOUD Award
2015	Scoliosis Research Society WHITECLOUD Award
2015	Scoliosis Research Society GOLDSTEIN Award
2015	North American Spine Society Value Award
2015	Scoliosis Research Society Hibbs Award nominee
2015-2016	Top Doctors in Neurosurgery - San Francisco Magazine
2016	Scoliosis Research Society Hibbs Award nominee

2016	Honored Guest Argentina Spine Society
2016	Honored Guest David Levine Lecturer Hospital for Special Surgery
2016	Scoliosis Research Society WHITECLOUD Award nominee
2017	Best Doctors for Cancer and Neurosurgery
2017	Top Doctors in Neurosurgery - San Francisco Magazine
2017	Honored Guest Brazilian Spine Society
2017	Inaugural John Alksne Lecturer University of California, San Diego
2017	Honored Guest Lecturer European Cervical Spine Research Society – Salzburg, Austria
2017	Honored Guest Lecturer Japanese Neurosurgical Society
2017	Honored Guest Lecturer Japanese Scoliosis Society
2017	Best Doctors in Neurosurgery – San Francisco
2017	Scoliosis Research Society GOLDSTEIN Award

PROFESSIONAL ORGANIZATIONS

Memberships

American Association of Neurological Surgeons	2001 - Present
Congress of Neurological Surgeons	2001 - Present
North American Spine Society	2001 - Present
Cervical Spine Research Society	2008 - Present
International Society for Study of Lumbar Spine	2008 - Present
Scoliosis Research Society	2008 - Present
Spinal oncology study group	2009 – Present
International Spinal Deformity Study Group	2009 - Present
ISSG Executive Committee	2014 - Present

SERVICE TO PROFESSIONAL PUBLICATIONS AND ORGANIZATIONS

Ad Hoc Reviewer Neurosurgery	2004-present
M AND M Committee Scoliosis Research Society	2010-2011
Ad Hoc Reviewer Spine Journal (Tumor and Deformity)	2012-present
Ad Hoc Reviewer Global Spine Journal	2012-present
Cervical Spine Research Society Education/Course Committee	2012-present

North American Spine Society Abstract reviewer	2012-present
Adult Deformity Committee and Research Committee for Scoliosis Research Society	2014-present
Executive Committee International Spine Study Group	2014 – present
Operative Neurosurgery Spine Section Editor	2016-present

INVITED PRESENTATIONS

INTERNATIONAL

1. Faculty European AO Group September 2006 "Cervical Reconstruction" Majorca, Spain
2. Asia Pacific Spine Society Honored guest 2009 "Frontiers of Complex Cervical Surgery"
3. Berlin Charite International Spine Tumor meeting 2009 "Cervical Primary Tumors"
4. Kuwait Neurosurgical Society 2010 "Cervical Deformity"
5. Asia Pacific Spine Society 2011 Bali Indonesia "Sagittal Balance of the Cervical Spine"
6. North American Spine Society 2011 En Bloc resection of Primary Bone Tumors
7. David Levine Lecture 2016 Hospital for Special Surgery

REGIONAL AND OTHER INVITED PRESENTATIONS

1. Visiting Professor/Grand Rounds, UCSD Neurosurgery August 2005 "Lateral Transpedicular Approach to Intradural Tumors"
2. Visiting Professor/Grand Rounds, Cedars Sinai Combined Spine Service January 2006 "Transl Minimally Invasive Fusion/Lateral Transpedicular Approach to Intradural Tumors"
3. Visiting Professor/Grand Rounds USC Department of Orthopedics June 2006 "Modern Spine Tumor Surgery"
4. Visiting Professor LSU Orthopedic Surgery August 2008 "Modern Spinal Tumor Surgery"
5. Visiting Professor USC Neurosurgery May 2009 "Spinal Tumor And Deformity"
6. Visiting Professor Cedars Sinai January 2012 En Bloc Resection of primary Bone Tumors
7. Visiting Professor, Harvard, Massachusetts General, 2015
8. Visiting Professor, The David B. Levine, MD, Hospital for Special Surgery, New York

9. Visiting Professor, Cornell University, 2017
10. Annual Program Co-Chair, CSRS 46th Annual Meeting, Scottsdale, Arizona, 2018

PEER REVIEWED ORIGINAL RESEARCH PUBLICATIONS

1. Gejman PV; Martinez M; Cao Q; Friedman E; Berrettini WH; Goldin LR; Koroulakis P; Ames C.P.; Lerman M; Gershon E: Linkage analysis of fifty-seven microsatellite loci to bipolar disorder. *Neuropsychopharmacology* 1993 Aug; 9 (1) 31-40.
2. Bakshi N; Lawson J; Hanson R; Ames C.P.; Vinters HV. Fatal mumps meningoencephalitis in a child with severe combined immunodeficiency after bone marrow transplantation. *Journal of Child Neurology* 1996 March; 11(2) 159-162.
3. Ames C.P., Cornwall GB, Crawford NR, Nottmeier E, Chamberlain RH, Sonntag VK. Feasibility of a resorbable anterior cervical graft containment plate. *J Neurosurg.* 2002 Nov;97(4 Suppl):440-6.
4. Cornwall GB, Ames C.P., Crawford NR, Chamberlain RH, Rubino AM, Seim HB 3rd, Turner AS. In vivo evaluation of bioresorbable polylactide implants for cervical graft containment in an ovine spinal fusion model. *Neurosurg Focus.* 2004 Mar 15;16(3):E5
5. Parsa AT, Lee J, Parney IF, Weinstein P, McCormick PC, Ames C.P. Spinal cord and intradural-extraparenchymal spinal tumors: current best care practices and strategies. *J Neurooncol.* 2004 Aug-Sep; 69 (1-3): 291-318.
6. Quinones-Hinojosa A, Lyon R, Ames C.P., Parsa AT Neuromonitoring during surgery for metastatic tumors to the spine: intraoperative interpretation and management strategies. *Neurosurg Clin N Am*, 2004 Oct; 15 (4):537-47.
7. Acosta FL Jr, Chin CT, Quinones-Hinojosa A, Ames C.P., Weinstein PR, Chou D. Diagnosis and management of adult pyogenic osteomyelitis of the cervical spine. *Neurosurg Focus.* 2004 Dec. 15;17(6):E2.
8. Ames C.P., Acosta F, Nottmeier E. Novel treatment of basilar invagination resulting from an untreated C-1 fracture associated with transverse ligament avulsion: case report and description of surgical technique. *J Neurosurg Spine.* 2005 Jan; 2(1):83-7.
9. Ames C.P., Crawford NR, Chamberlain RH, Deshmukh V, Sadikovic B, Sonntag VK. Biomechanical evaluation of a bioresorbable odontoid screw. *J Neurosurg Spine.* 2005 Feb; 2(2): 182-7.
10. Acosta FL, Aryan HE, Taylor WR, Ames C.P. Kyphoplasty-augmented short-segment pedicle screw fixation for burst fractures of the lumbar spine. *Neurosurg Focus.* 2005 Mar 15;18(3):E9.
11. Bozkus H, Ames C.P., Chamberlain RH, Nottmeier EW, Sonntag VK, Papadopoulos SM, Crawford NR. Biomechanical analysis of rigid stabilization techniques for three-column injury in the lower cervical spine. *Spine.* 2005 Apr 15;30 (8): 915-22.

12. Acosta FL, Thompson TL, Campell S, Weinstein PR, Ames C.P. Use of intraoperative isocentric C-arm 3D fluoroscopy for Sextant percutaneous pedicle screw placement. *Spine J.* 2005 May –June; 5 (3):339-43.
13. Ames C.P., Crawford NR, Chamberlain RH, Deshmukh V, Sadiovic B. Biomechanical analysis of a resorbable anterior cervical graft containment plate. *Spine.* 2005 May 1;30(9):1031-8.
14. Ames C.P., Bozkus MH, Chamberlain RH, Acosta FL, Papadopoulos SM, Sonntag VKH, Crawford NR. Biomechanics of stabilization after cervicothoracic compression-flexion injury. *Spine.* 2005 Jul 1;30(13):1505-12
15. Acosta Jr. FL., J. Lotz, Ames C.P. “The potential role of mesenchymal stem cell therapy for intervertebral disc degeneration: a critical overview.” *Neurosurg Focus.* 2005 Sept.15;19(3):E4.
16. Acosta Jr. FL. & Ames C.P. “Artificial pedicle screw reconstruction of the cervical spine after lateral paramedian transpedicular approach for lesions of the ventral cervical spinal canal.” *Neurosurgery.* 2005 Oct;57(4Suppl):281-85.
17. Aryan HE, Acosta Jr. FL., Ames C.P. “The charite artificial disc: insertion technique.” *Neurosurg Clin N Am.* 2005 Oct;16(4):637-50.
18. Ames C.P., Acosta FL Jr, Chi J, Iyengar J, Muir W, Acaroglu E, Puttlitz CM. Biomechanical comparison of posterior lumbar interbody fusion and transforaminal lumbar interbody fusion performed at 1 and 2 levels. *Spine.* 2005 Oct 1;30(19):E562-6.
19. Acosta FL, Quinones-Hinojosa A, Gadkary CA, Schmidt MH, Chin CT, Ames C.P., Rosenberg WS, Weinstein PR Frameless stereotactic image-guided C1-C2 transarticular screw fixation for atlanto-axial instability: review of 20 patients.. *J Spinal Disord Tech.* 2005 Oct;18(5):385-91.
20. Aryan HE, Acosta Jr. FL., Ames C.P. “The ProDisc artificial disc: insertion technique.” *Neurosurg Clin N Am.* 2005 Oct;16(4):651-6.
21. Acosta Jr. FL., Aryan HE, Ames C.P. “Emerging directions in motion preservation spinal surgery.” *Neurosurg Clin N Am.* 2005 Oct;16(4):665-9.
22. Acosta Jr. FL., Ames C.P. “Cervical disc arthroplasty: general introduction.” *Neurosurg Clin N Am.* 2005 Oct;16(4):603-7.
23. Chi JH, Ames C.P., Tay B. General considerations for cervical arthroplasty with technique for ProDisc-C. *Neurosurg Clin N Am.* 2005 Oct;16(4):609-19, vi. Review.
24. A.T. Parsa, J. Chi, Acosta Jr. FL., Ames C.P., P.C. McCormick. “Intramedullary Spinal Cord Tumors: molecular insights and surgical innovation.” *Clin Neurosurg.* 2005;52:76-84.
25. Ames C.P., Acosta Jr. FL., R.H. Chamberlain, A.E. Larios, N.R. Crawford. “Biomechanical analysis of a newly designed bioabsorbable anterior cervical plate.” *J Neurosurg Spine.* 2005 Dec;3(6):465-70.

26. Ames C.P., Smith JS, Preul MC, Crawford NR, Kim GE, Nottmeier E, Chamberlain R, Speiser B, Sonntag VK, Dickman CA. Effect of recombinant human bone morphogenetic protein-2 in an experimental model of spinal fusion in a radiated area. *Spine*. 2005 Dec 1;30(23):2585-92.
27. Lee J, Parsa AT, Ames C.P., McCormick PC. Clinical management of intramedullary spinal ependymomas in adults. *Neurosurg Clin N Am*. 2006 Jan;17(1):21-7.
28. Tihan T, Chi JH, McCormick PC, Ames C.P., Parsa AT. Pathologic and epidemiologic findings of intramedullary spinal cord tumors. *Neurosurg Clin N Am*. 2006 Jan;17(1):7-11.
29. Acosta Jr. FL., C. Dowd, C. Chin, T. Tihan, Ames C.P., P.R. Weinstein. "Current treatment strategies and outcomes in the management of symptomatic vertebral hemangiomas." *Neurosurgery*. 2006 Feb;58(2):287-95.
30. Aryan HE, Ames C.P., Szandera B, Nguyen AD, Acosta, Jr. FL , Taylor WR. "Coblation of spinal endplates in preparation for interbody spinal fusion." *J Clin Neurosci*. 2006 Apr;13(3):349-52.
31. Auguste KI, Chin C Acosta, Jr., FL, Ames C.P. "Expandable Cylindrical Cages in the Cervical Spine: A Review of 22 Cases." *J Neurosurg Spine*. 2006 Apr;4(4):285-91.
32. Acosta, Jr. FL, Aryan HE, Ames C.P. "Successful outcome of 6-level cervicothoracic corpectomy and circumferential reconstruction: case report and literature review on multilevel cervicothoracic corpectomy." *Eur Spine J*. 2006 Aug 19
33. F.L. Acosta, Jr., L. Galvez, C.P. Ames "Recent advances: infections of the spine." *Curr Infect Dis Rep*. 2006 Sep; 8(5):390-393.
34. Aryan HE, Acosta, Jr. FL, Ames C.P. "Corpectomy followed by instrumentation with titanium cages and rhBMP-2 for vertebral osteomyelitis." *Neurosurgery* 2007 Jan (1): 23-30.
35. Aryan, HE; Ames C.P.; Box KW; Ibrahim D; Desiraju U. Safety and Efficacy of Dexmedetomidine in Neurosurgical Patients. *Brain Injury* 2006 Jul;20(8):791-8
36. Aryan, HE; Acosta FL; Ames C.P. Stand-Alone Anterior Lumbar Discectomy and Fusion (ALDF) with Plate: Initial Clinical Experience. *Surgical Neurology Surg Neurol*. 2007 Jul;68(1):7-13
37. Aryan HE, Acosta FL, Chi JH, Parsa AT, Ames C.P. Modified Paramedian Transpedicular Approach and Spinal Reconstruction for Intradural Tumors of the Cervical and Cervicothoracic Spine. *Spine*. 2007 Mar 15; 32(6):E203-10.
38. Leung JM, Sands LP, Rico M, Petersen KL, Rowbotham MC, Dahl JB, Ames C.P., Chou D, Weinstein P. Pilot Clinical Trial of Gabapentin to decrease postoperative delirium in older patients. *Neurology*. 2006 Oct 10;67(7):1251-3. Epub 2006 Aug 16

39. H.E. Aryan, D. Lu, F.L. Acosta, Jr., R. Hartl, P.W. McCormick, C.P. Ames. "Bioabsorbable anterior cervical plating: Initial multicenter clinical and radiographic experience." *Spine*. 2007 May 1;32(10):1084-8
40. F.L. Acosta, Jr., C.P. Ames D. Chou. "Operative management of adult high-grade lumbosacral spondylolisthesis." *Neurosurg Clin N Am*. 2007 Apr;18(2):249-54
41. Espinoza-Larios A, Ames C.P., Chamberlain RH, Sonntag VK, Dickman CA, Crawford NR. Biomechanical comparison of two-level cervical locking posterior screw/rod and hook/rod techniques. *Spine J*. 2007 Mar-Apr;7(2):194-204.
42. Image-guided robotic stereotactic body radiotherapy for benign spinal tumors: the University of California San Francisco preliminary experience. A. Sahgal, D. Chou, C.P. Ames, L. Ma, K. Lamborn, K. Huang, C. Chuang, A595-604. Aiken, P. Petti, P. Weinstein and D. Larson. *Technol Cancer Res Treat* 2007. 6(6)
43. F. L. Acosta, Jr., N. Sanai, J. H. Chi, C. F. Dowd, C. Chin, T. Tihan, D. Chou, P. R. Weinstein and C.P. Ames Comprehensive management of symptomatic and aggressive vertebral hemangiomas. *Neurosurg Clin N Am*. 2008 Jan.(1):17-29.
44. Aryan, HE, Acosta FL, Ames C.P. Two-level total en bloc lumbar spondylectomy with dural resection for metastatic renal cell carcinoma. *J Clin Neurosci*. 2008 Jan; 15(1): 70-2
45. H. E. Aryan, F. L. Acosta and C.P. Ames. Partial spondylectomy: Modification for lateralized malignant spinal column tumors of the cervical or lumbosacral spine. *J Clin Neurosci*. 2008 Jan; 15(1): 43-8.
46. F.L. Acosta, Jr., H.E. Aryan, D. Chou, C.P. Ames. "Long-term biomechanical stability and clinical improvement after multilevel corpectomy and circumferential reconstruction of the cervical spine using titanium mesh cages." *J Spinal Disord Tech*. 2008 3 (21) 165-74.
47. Frank L. Acosta, Jr., Finn Bjarke Christensen, Jeffrey D. Coe, Tae-Ahn Jahng, Scott H. Kitchel, Hans Jörg Meisel, Mark Schnöring, Charles H. Wingo, Christopher P. Ames Early Clinical & Radiographic Results of NFix II Posterior Dynamic Stabilization System *SAS Journal-Biomechanics*, Spring 2008 Volume 2 Issue 02
48. Aryan HE, Acosta FL, Chou D, Nottmeier E., Ames C.P. "C1-C2 fusion in 102 patients and report of technique modification." *Journal of Neurosurgery:Spine* 2008 Mar 8 (3) 222-9.
49. Acosta FL, Buckley J, Lotz, J, Ames C.P. "Biomechanical Analysis of Extended Anterior Fixation vs Circumferential Fixation in Unstable Lumbar Burst Fracture." *Journal of Neurosurgery:Spine* April 2008 8(4) 341-6.
50. V. Y. Wang, H. Aryan and C.P. Ames A novel anterior technique for simultaneous single-stage anterior and posterior cervical release for fixed kyphosis. *Journal of Neurosurgery:Spine* 2008 Jun 8(6) 594-9

51. D. Chou, D. C. Lu, P. Weinstein and C.P. Ames Adjacent-level vertebral body fractures after expandable cage reconstruction. 2008 Journal of Neurosurgery Spine Jun 8(6) 584-88.
52. J. M. Cloyd, F. L. Acosta, Jr. and C.P. Ames Complications and Outcomes of Lumbar Spine Surgery in Elderly People: A Review of the Literature J Am Geriatr Soc 2008 May22 1532-38.
53. R. Jandial, I. Singec, C.P. Ames and E. Y. Snyder. Genetic modification of neural stem cells. Mol Ther 2008 16(3) 450-457.
54. Dean Chou, Frank Acosta, Jr., Jordon M. Cloyd, and Christopher P. Ames Parasagittal for en bloc resection of multilevel cervical chordomas. J Neurosurg Spine 2009, 10:397–403
55. Smith JS, Able MF, Shaffrey CI, Ames CP Decision making in pediatric spinal deformity. Neurosurgery. 2008 Sep; 63(3 Suppl):54-68. PMID: 18812934 [PubMed-in process]
56. Smith JS, Wang VY, Ames CP Vertebral column resection for rigid spinal deformity. Neurosurgery. 2008 Sep; 63 (3 Suppl): 177-82. PMID: 18812922 [PubMed-in process]
57. Aryan HE, Newman CB, Gold JJ, Acosta FL Jr, Coover C, Ames CP Percutaneous axial lumbar interbody fusion (AxiaLIF) of the L5-S1 segment: initial clinical and radiographic experience. Minim Invasive Neurosurg. 2008 Aug;51(4):225-30. PMID: 18683115 [PubMed - indexed for MEDLINE]
58. Cloyd JM, Acosta FL Jr, Ames CP Effect of age on the perioperative and radiographic complications of multilevel cervicothoracic spinal fusions. Spine. 2008 Dec 15;33(26):E977-82. PMID: 19092608 [PubMed - in process]
59. Acosta, F.L., Jr., Buckley, J. M., Xu, Z., Lotz, J. C. and Ames, C. P. (2008). "Biomechanical comparison of three fixation techniques for unstable thoracolumbar burst fractures. Laboratory investigation." J Neurosurg Spine 8(4): 341-6.
60. Barnes AH, Eguizabal JA, Acosta FL Jr, Lotz JC, Buckley JM, Ames CP Biomechanical pullout strength and stability of the cervical artificial pedicle screw. Spine. 2009 Jan 1;34(1):E16-20. PMID: 19127143 [PubMed - indexed for MEDLINE]
61. Acosta FL, Cloyd JM, Aryan HE, Ames CP Perioperative complications and clinical outcomes of multilevel circumferential lumbar spinal fusion in the elderly. J Clin Neurosci. 2009 Jan;16(1):69-73. Epub 2008 Nov 18. PMID: 19019682 [PubMed – indexed for MEDLINE]
62. Ames CP, Wang VY, Deviren V, Vrionis FD Posterior transpedicular corpectomy and reconstruction of the axial vertebra for metastatic tumor. J Neurosurg Spine. 2009 Feb;10(2):111-6. PMID: 19278323 [PubMed – indexed for MEDLINE]
63. Wang VY, Deviren V, Ames CP. Reconstruction of C-1 lateral mass with titanium mesh cage after resection of an aneurysmal bone cyst of the atlas. J Neurosurg Spine. 2009

- Feb;10(2):117-21. PMID: 19278324 [PubMed – indexed for MEDLINE]
64. Aryan HE, Newman CB, Lu DC, Hu SS, Tay BK, Bradford DS, Puttlitz CM, Ames CP. Relaxation of forces needed to distract cervical vertebrae after discectomy: a biomechanical study. *J Spinal Disord Tech.* 2009 Apr;22(2):100-4. PMID: 19342931 [PubMed – indexed for MEDLINE]
 65. Buckley JM, Kuo CC, Cheng LC, Loo K, Motherway J, Slyfield C, Deviren V, Ames C. *Relative strength of thoracic vertebrae in axial compression versus flexion.* *Spine J.* 9(6): 478-85 2009 Apr 11. [Epub ahead of print] PubMed PMID: 19364678.
 66. Buckley JM, Deviren V, Parmeshwar R, Ames CP. *An Improved metric for quantifying the stiffnesses of intact human vertebrae.* *Proc. IMechE, Part H: J. Engineering in Medicine*, 2009, 223(H5), 537-543. DOI: 10.1243/09544119JEIM524
 67. Chou D, Acosta F Jr., Cloyd JM, Ames CP *Parasagittal osteotomy for en bloc resection of multilevel cervical chordomas.* *J Neurosurg Spine*, 2009 May;10(5):397-403. PMID: 19442000 [PubMed – indexed for MEDLINE]
 68. Buckley JM, Kuo CC, Cheng LC, Loo K, Motherway J, Slyfield C, Deviren V, Ames C. *Relative strength of thoracic vertebrae in axial compression versus flexion.* *Spine J.* 2009 Jun;9(6):478-85. Epub 2009 Apr 11. PMID 19364678 [PubMed – for MEDLINE]
 69. Sahgal A, Ames C, Chou D, Ma L, Huang K, Xu W, Chin C, Weinberg V, Chuang C, Weinstein P, Larson DA. *Stereotactic body radiotherapy is effective salvage therapy For patients with prior radiation of spinal metastases.* *Int J Radiat Oncol Biol Phys.* 2009 Jul 1;74(3):723-31. Epub 2008 Dec 25. PMID: 19095374 [PubMed – indexed for MEDLINE]
 70. Buckley JM, Parmeshwar R, Deviren V, Ames CP. *An improved metric for quantifying the stiffnesses of intact human vertebrae.* *Proc Inst Mech Eng H.* 2009 Jul;223(5):537-43. PMID: 19623907 [PubMed – indexed for MEDLINE]
 71. Acosta FL, Cloyd JM, Aryan HE, Ames CP. *Patient Satisfaction and radiographic outcomes after lumbar spinal fusion without iliac crest bone graft or transverse process fusion.* *J Clin Neurosci.* 2009 Sep;16(9):1184-7. Epub 2009 Jun 4. PMID: 19946504 [PubMed – in process]
 72. Yang I, Paik E, Huh NG, Parsa AT, Ames CP. *Giant thoracic schwannoma presenting with abrupt onset of abdominal pain: a case report.* *J Med Case Reports.* 2009 Oct 30;3:88. PMID: 19946504 [PubMed – in process]
 73. Tate MC, Banerjee A, Vandenberg SR, Tihan T, Chi JH, Ames CP, Parsa AT. *Post-radiation reactive changes in a single vertebral body mimicking metastatic pineoblastoma.* *J Neurosurg Pediatr.* 2009 Nov;4(5):479-83. PMID: 19877784 [PubMed – indexed for MEDLINE]
 74. Cloyd JM, Chou D, Deviren V, Ames CP. *En bloc resection of primary tumors of the cervical spine: report of two cases and systematic review of the literature.* *Spine J.* 2009 Nov;9(11):928-35. Epub 2009 Aug 28. Review

75. Cloyd JM, Acosta FL Jr, Cloyd C, Ames CP. *Effects of age on perioperative complications of extensive multilevel thoracolumbar spinal fusion surgery.* J Neurosurg Spine. 2010 Apr;12(4):402-8. PMID: 203673769 [PubMed – indexed for MEDLINE]
76. Eguizabal J, Tufaga M, Scheer JK, Ames C, Lotz JC, Buckley JM. *Pure moment testing for spinal biomechanics applications: Fixed versus sliding ring cable-driven test designs.* J Biomech, 2010 May 7;43(7):1422-5. Epub 2010 Feb 23. PMID: 20181340 [PubMed – in process]
77. Scheer JK, Tang J, Eguizabal J, Farin A, Buckley JM, Deviren V, McClellan RT, Ames CP. *Optimal reconstruction technique after C-2 corpectomy and spondylectomy: a biomechanical analysis.* J Neurospine. 2010 May;12(5):517-24. PMID: 20441484 [PubMed – indexed for MEDLINE] (Selected for cover article)
78. Eguizabal, J., Tufaga, M., Scheer, J. K., Ames, C., Lotz, J. C. and Buckley, J. M. (2010). "Pure moment testing for spinal biomechanics applications: Fixed versus sliding ring cable-driven test designs." *J Biomech* 43(7): 1422-5.
79. El-Sayed IH, WU JC, Ames CP, Balamurali G, Mummaneni PV. "Combined transnasal and transoral endoscopic approaches to the craniovertebral junction" J Craniovertebr Junction Spine. 2010 Jan;1(1):44-8. PMID: 20890414 [PubMed]
80. Cloyd JM, Acosta FL Jr, Cloyd C, Ames CP *Effects of age on perioperative complications of extensive multilevel thoracolumbar spinal fusion surgery* J Neurosurg Spine. 2010 Apr;12(4):402-8 PMID: 20367376 [PubMed - indexed for MEDLINE]
81. Cloyd JM, Acosta FL, Polley MY, Ames CP. *En Bloc Resection for Primary and Metastatic Tumors of the Spine: A systematic Review of the Literature* Neurosurgery. 2010 Aug;67(2):435-44; discussion444-5. Review. PMID: 20644431 [PubMed – 2011 indexed for MEDLINE]
82. Nguyen TQ, Buckley JM, Ames C, Deviren V. "The fatigue life of contoured cobalt chrome posterior spinal fusion rods" Proc Inst Mech Eng H. 2011 Feb;225(2):194-8. PMID: 21428153 [PubMed – indexed for Medline]
83. Fu KM, SmithJS, Polly DW, Ames CP, Berven SH, Perra JH, Glassman SD, McCarthy RE, Knapp DR, Shaffrey CI: Scoliosis Research Society Morbidity and Mortality Committee. *Morbidity and mortality associated with spinal surgery in children: a review of the Scoliosis Research Society morbidity and mortality database.* J Neurosurg Pediatr. 2011 Jan;7(1):37-41. PMID:21194285 [PubMed indexed for MEDLINE]
84. Scheer JK, Tang JA, Deviren V, Acosta F, Buckley JM, Pekmezci M, McClellan RT, Ames CP *Biomechanical analysis of cervicothoracic junction osteotomy in cadaveric model of ankylosing spondylitis effect of rod material and diameter* J Neurosurg Spine. 2011 Mar;14(3):330-5. Epub 2011 Jan 14. PMID: 21235305 [PubMed – indexed for MEDLINE]

85. Scheer JK, Tang JA, Deviren V, Buckley JM, Peckmezci M, McClellan RT, Ames CP. *Biomechanical Analysis of Revision Strategies for Rod Fracture in Pedicle Subtraction Osteotomy*. *Neurosurgery*. 2011 Feb 16. [Epub ahead of print] PMID:21336218 [PubMed – as supplied by publisher]
86. Park, J., Scheer, J. K., Lim, J. T., Deviren, V. and Ames, C. P. *Biomechanical Analysis of Goel Technique for C1-C2 Fusion*. *J Neurosurg Spine*. 2011 Feb 18. [Epub ahead of print] PMID: 21332289 [Pubmed – as supplied by publisher]
87. Williams BJ, Smith JS, Fu KM, Hamilton DK, Polly DW Jr, Ames CP, Berven SH, Perra JH, Knapp DR Jr, McCarthy RE, Shaffrey CI. *Does BMP increase the incidence of perioperative complications in spinal fusion? A comparison of 55,862 cases of spinal fusion with and without BMP*. *Spine (Phila Pa 1976)*. 2011 Mar 9 [Epub ahead of print] PMID: 21394069 [PubMed – as supplied by publisher]
88. Fu KM, Smith JS, Polly DW, Ames CP, Berven SH, Perra JH, McCarthy RE, Knapp DR, Shaffrey CI: the Scoliosis Research Society Morbidity and Mortality Committee. *Correlation of higher preoperative American Society of Anesthesiology grade and increased morbidity and mortality rates in patients undergoing spine surgery*. *J Neurosurg Spine*. 2011 Apr;14(4):470-474. Epub 2011 Feb 4. PMID: 21294615 [PubMed – indexed for MEDLINE]
89. Scheer JK, Tang JA, Buckley JM, Deviren V, Pekmezci M, McClellan RT, Ames CP. *Biomechanical Analysis of Osteotomy Type and Rod Diameter for Treatment of Cervicothoracic Kyphosis*. *Spine (Phila Pa 1976)*. 2011 Apr 15;36(8):E519-23. PMID: 21245784 [PubMed – indexed for MEDLINE]
90. Park J, Sheer JK, Lim TJ, Deviren V, Ames CP *Biomechanical analysis of Goel Technique for C1-2 fusion* *J Neurosurg Spine*. 2011 May;14(5):639-46. Epub 2011 Feb 18. PMID: 21332283 [PubMed – indexed for MEDLINE]
91. Acosta FL Jr, Sanai N, Cloyd J, Deviren V, Chou D, Ames CP. *Treatment of Enneking Stage 3 Aggressive Vertebral Hemangiomas With Intralesional Spondylectomy: Report of 10 Cases and Review of the Literature*. *J Spinal Disord Tech*. 2011 Jun;24(4):268-754. Review. PMID: 2084447 [PubMed – in process]
92. Hamilton DK, Smith JS, Sansur CA, Glassman SD, Ames CP, Berven SH, Polly DW Jr., Perra JH, Knapp DR Jr, Boachie-Adjel O, McCarthy RE, Shaffrey CI; Scoliosis Research Society Morbidity and Mortality Committee. *Rates of Neurological Deficit Associated with Spine Surgery Based on 108,419 Procedures: A Report of the Scoliosis Research Society Morbidity and Mortality Committee*. *Spine (Phila Pa 1976)*. 2011 Jul 1;36(15):1218-28, PMID:21217448 [PubMed – indexed for MEDLINE]
93. Scheer JK, Tang JA, Deviren V, Buckley JM, Pekmezci M., McClellan RT, Ames CP *Biomechanical analysis of revision strategies for rod fracture in pedicle subtraction osteotomy* *Neurosurgery*. 2011 Jul;69(1): 164-72 PMID 21336218 [PubMed – in process]

94. El-Sayed IH, Wu JC, Dhillon N, Ames CP, Mummaneni P. *The importance of platybasia and the palatine line in patient selection for endonasal surgery of the craniocervical junction; a radiographic study of 12 patients.* World Neurosurg. 2011 July-Aug;76(1-2):183-8; discussion 74-8. PMID: 21839972 [PubMed – in process]
95. Reames DL, Smith JS, Fu KM, Polly DW Jr, Ames CP, Berven SH, Perra JH, Glassman SD, McCarthy RE, Knapp RD Jr, Heary R, Shaffrey CI; Scoliosis Research Society Morbidity and Mortality Committee *Complications in the Surgical Treatment of 19,360 Cases of Pediatric Scoliosis: A Review of the Scoliosis Research Society Morbidity and Mortality Database* Spine (Phila Pa 1976). 2011 Aug 15;36(18):1484-1491 PMID: 21037528 [PubMed – in Process]
96. Deviren V, Scheer JK, Ames CP *Technique of cervicothoracic junction pedicle subtraction osteotomy for cervical sagittal imbalance: report of 11 cases* J Neurosurg Spine. 2011 Aug;15(2):174-81 PMID: 21529128 [PubMed – indexed for MEDLINE]
97. Lafage V, Smith JS, Bess S, Schwab FJ, Ames CP, Klineberg E, Arlet V, Hostin R, Burton DC, Shaffrey CI, The International Spine Study Group *Sagittal spino-pelvic alignment failures following three column thoracic osteotomy for adult spinal deformity* Eur Spine J. 2011 Aug 12. [Epub ahead of print] PMID: 21837411 [Pub – as supplied by publisher]
98. Williams BJ, Smith JS, Fu KM, Hamilton DK, Polly DW Jr, Ames CP, Berven SH, Perra JH, Knapp DR Jr, McCarthy RE, Shaffrey CI; Scoliosis Research Society Morbidity and Mortality Committee. *Does bone morphogenetic protein increase the incidence of perioperative complications in spinal fusion? A comparison of 55,862 cases of spinal fusion with and without morphogenetic protein.* Spine (Phila Pa 1976). 2011 Sep 15;36(20):1685-91. PMID:21897187
99. Acosta FL, McClendon J, O'Shaughnessy BA, Koller H, Neal CJ, Meier O, Ames CP, Koski TR, Ondra SL *Morbidity and mortality after spinal deformity surgery in patients 75 years and older: complications and the predictive factor* J Neurosurg Spine. 2011 Dec;15(6):667-74. Epub 2011 Sep 2. PMID: 21888481 [PubMed – in process]
100. Klineberg E, Schwab F, Akbarnia B, Ames C, Hostin R, Bess S, Smith JS, Gupta MC, Boachie O, Hart RA, Akbarnia BA, Burton DC, Lafage V *Acute reciprocal changes distant from the site of spinal osteotomies affect global postoperative alignment.* Advances in Orthopedics, Volume 2011, Article ID 4154946:1-7
101. Abdul-Jabbar A, Takemoto S, Weber MH, HU SS, Mummaneni PV, Deviren V, Ames CP, Chou D, Weinstein PR, Burch S, Bervan SH. Spine (Phila Pa 1976). 2011 Dec 28 [Epub ahead of print]
102. Lafage V*, Klineberg E, Schwab F, Akbarnia B, Ames C, Smith J, Boachie-Adjei O, Burton D, Hart R, Hostin R, Shaffrey C, Wood K, Bess S, International Spine Study Group. *Changes in thoracic kyphosis negatively impact sagittal alignment following*

- lumbar pedicle subtraction osteotomy: a comprehensive radiographic analysis.* Spine (Phila Pa 1976). 2012 Feb 1; 37(3):E180-7. PMID: 21673626 [PubMed – in process]
103. Tang JA, Scheer JK, Ames CP, Buckley JM. *Pure moment testing for spinal biomechanics application: fixed versus 3D floating ring cable-driven test designs.* J Biomech. 2012 Feb 23;45(4):706-10. Epub 2012Jan25. PMID: 22277153
 104. Kasliwal MK, Smith JS, Shaffrey CI, Saulle D, Lenke LG, Polly DW, Ames CP, Perra JH *Short-term complications associated with surgery for high-grade spondylolisthesis in adults and pediatric patients: A report from the Scoliosis Research Society Morbidity and Mortality database.* Neurosurgery. 2012 Mar 8. [Epub ahead of print]
 105. Tarapore PE, Mukherjee P, Mummaneni PV, Ames CP. *The appearance of Dural Sealants under MR Imaging.* AJNR Am J Neuroradiol. 2012 Mar 29. [Epub ahead of print] PMID: 22460340
 106. Smith JS, Saulle D, Chen CJ, Lenke LG, Polly DW Jr, Kasliwal MK, Broadstone PA, Glassman SD, Vaccaro AR, Ames CP, Shaffrey CI. *Rates and Causes of Mortality Associated with Spine Surgery Based on 108,419 Procedures: A Review of the Scoliosis Research Society Morbidity and Mortality Database.* Spine (Phila Pa 1976). 2012 Apr 11. [Epub ahead of print]. PMID: 22498991
 107. Tang JA, Scheer JK, Smith JS, Deviren V, Bess S, Hart RA, Lafage V, Shaffrey CI, Schwab F, Ames CP; the ISSG. *The Impact of Standing Regional Cervical Sagittal Alignment on Outcomes in Posterior Cervical Fusion Surgery.* Neurosurgery. 2012 May 30. [Epub ahead of print]. PMID: 22853395
 108. Ames CP, Smith JS, Scheer JK, Bess S, Bederman SS, Deviren V, Lafage V, Schwab F, Shaffrey CI. *Impact of spinopelvic alignment on decision making in deformity surgery in adults: A review* J Neurosurg Spine. 2012 Jun;16(6):547-64. Epub 2012 Mar 23. PMID: 22443546 [PubMed – in process]
 109. Pekmezci M, McDonald E, Kennedy A, Dedini R, McClellan T, Ames C, Deviren V. *Can a Novel Rectangular Footplate Provide Higher Resistance to Subsidence When Compared to Circular Footplates?: An Ex Vivo Biomechanical Study.* Spine (Phila Pa 1976). 2012 Jun 20. [Epub ahead of print]. PMID: 22718226. [PubMed – as supplied by publisher]
 110. Abdul-Jabbar A, Takemoto S, Weber MH, Hu SS, Mummaneni PV, Deviren V, Ames CP, Chou D, Weinstein PR, Burch S, Berven SH. *Surgical site infection in spinal surgery: description of surgical and patient-based risk factors for postoperative infection using administrative claims data.* Spine (Phila Pa 1976). 2012 Jul 1;37(15):1340-5. PMID: 22210012 [PubMed – in process]
 111. Smith JS, Shaffrey CI, Ames CP, Demakakos J, Deviren V, Fu KM, Keshavarzi S, Li CM, Schwab FJ, Lafage V, Bess S. *Assessment of Symptomatic Rod Fracture Following Posterior Instrumented Fusion for Adult Spinal Deformity.* Neurosurgery, 2012 Jul 11 [Epub ahead of print] PMID: 22791028 [PubMed – as supplied by publisher]

112. Smith JS, Shaffrey CI, Lafage V, Blondel B, Schwab F, Hostin R, Hart R, O'Shaughnessy B, Bess S, Hu SS, Deviren V, **Ames CP**; International Spine Study Group. *Spontaneous improvement of cervical alignment after correction of global sagittal balance following pedicle subtraction osteotomy*. J Neurosurg Spine, 2012 Oct; 17(4):300-7. doi: 10.3171/2012.6.SPINE1250. Epub 2012 Aug 3. PMID: 22860879 [PubMed – indexed for MEDLINE]
113. Pekmezci M, Tang, JA, Cheng L, Modak A, McClellan RT, Buckley JM, **Ames CP**. *Comparison of Expandable and Fixed Interbody Cages in a Human Cadaver Corpectomy Model Part I: Endplate Force Characteristics*. J Neurosurg Spine. 2012 Oct;17(4):321-6. doi: 10.3171/2012.7.SPINE12171. Epub 2012 Aug 17. PMID: 22900505 [PubMed – indexed for MEDLINE]
114. Pekmezci M, Tang, JA, Cheng L, Modak A, McClellan RT, Buckley JM, **Ames CP**. *Comparison of Expandable and Fixed Interbody Cages in a Human Cadaver Corpectomy Model: Fatigue Characteristics*. J Spinal Disord Tech. 2012 Aug 23. [Epub ahead of print] PMID: 22925989 [PubMed – as supplied by publisher]
115. Hostin R, McCarthy I, O'Brien M, Bess S, Line B, Boachie-Adjei O, Burton D, Gupta M, **Ames C**, Deviren V, Kebaish K, Shaffrey C, Wood K, Hart R; International Spine Study Group. *Incidence, Mode, and Location of Acute Proximal Junctional Failures Following Surgical Treatment for Adult Spinal Deformity*. Spine (Phila Pa 1976). 2012 Sep 13. [Epub ahead of print] PMID: 22986834 [PubMed – as supplied by publisher]
116. Smith JS, Shaffrey CI, **Ames CP**, Demakakos J, Fu KM, Keshavarzi S, Li CM, Deviren V, Schwab FJ, Lafage V, Bess S; International Spine Study Group. *Assessment of Symptomatic rod fracture after posterior instrumental fusion for adult spinal deformity*. Neurosurgery, 2012 Oct;71(4):862-7. PMID: 22989960 [PubMed – in process]
117. Williams BJ, Smith JS, Saulle D, **Ames CP**, Lenke LG, Broadstone PA, Vaccaro AR, Polly DW Jr., Shaffrey CI, *Complications Associated with Surgical Treatment of Traumatic Spinal Fractures: A Review of the Scoliosis Research Society Morbidity and Mortality Database*. World Neurosurg. 2013 Feb 8. doi:pii: S1878-8750(13)00278-7. 10.1016/j.wneu.2013.02.013. [Epub ahead of Print] PMID: 23396067 [PubMed - as supplied by publisher]
118. Blondel B, Schwab F, Bess S, **Ames C**, Mummaneni PV, Hart R, Smith JS, Shaffrey CI, Burton D, Boachie-Adiei O, Lafage V. *Posterior global malalignment after osteotomy for sagittal plane deformity: it happens and here is why*. Spine (Phila Pa 1976). 2013 Jan 15. [Epub ahead of print] PMID: 23324927 [PubMed – as supplied by publisher]
119. Tang JA, Leasure JM, Smith JS, Buckley JM, Kondrashov D, **Ames CP**. *Effect of Severity of Rod Contour on Posterior Rod Failure in the Setting of Lumbar Pedicle Subtraction Osteotomy (PSO): A Biomechanical Study*. Neurosurgery. 2013 Feb;72(2):276-83. doi: 10.1227/NEU.0b013e31827ba066. PMID: 23149956 [PubMed – in process]
120. Amin BY, Tu TH, Schairer WW, Na L, Takemoto S, Berven S, Deviren V, **Ames C**, Chou D, Mummaneni PV. *Pitfalls of calculating hospital readmission rates based on nonvalidated administrative data sets: : presented at the 2012 Joint Spine Section*

- Meeting: clinical article.* J Neurosurg Spine. 2013 Feb;18(2):134-8. doi: 10.3171/2012.10.SPINE12559.Epub 2012 Nov 27. PMID: 23186376 [PubMed – in process]
121. Schwab FJ, Blondel B, Bess S, Hostin R, Shaffrey CI, Smith JS, Boachie-Adjei O, Burton DC, Akbarnia BA, Mundis GM, Ames CP, Kebaish K, Hart RA, Farcy JP, Lafage V, The International Spine Study Group Issg. *Radiographic Spinopelvic Parameters and Disability in the Setting of Adult Spinal Deformity: A Prospective Multicenter Analysis.* Spine (Phila Pa 1976) 2013 Mar 25. [Epub ahead of print] PMID: 23532123 [Pubmed - as supplied by publisher]
 122. Smith JS, Shaffrey CI, Fu KM, Scheer JK, Bess S, Lafage V, Schwab F, Ames CP. *Clinical and radiographic of the adult spinal deformity patient.* Neurosurg Clin N Am. 2013 Apr;24(2):143-56. doi: 10.1016/j.nec.2012.12.009. Epub 2013 Feb 21. PMID: 23561553 [PubMed - in process]
 123. Akbar M, Terran J, Ames CP, Lafage V, Schwab F. *Use of Surgimap Spine in sagittal plane analysis, osteotomy planning, and correction calculation.* Neurosurg Clin N Am. 2013 Apr;24(2):163-72. doi: 10.1016/j.nec.2012.12.007. PMID: 23561555 [PubMed - in process]
 124. Bess S, Schwab F, Lafage V, Shaffrey CI, Ames CP. *Classifications for Adult Spinal Deformity and use of the Scoliosis Research Society-Schwab Adult Spinal Deformity Classification.* Neurosurg Clin N Am. 2013 Apr;24(2):185-93. doi: 10.1016/j.nec.2012.12.008. PMID: 23561557 [PubMed - in process]
 125. Fu KM, Smith JS, Shaffrey CI, Ames CP, Bess S. *Coronal realignment and reduction techniques and complication avoidance.* Neurosurg Clin N Am. 2013 Apr;24(2):195-202. doi: 10.1016/j.nec.2012.12.011. Epub 2013 Feb 21. PMID: 23561558 [PubMed - in process]
 126. Hart RA, McCarthy I, Ames CP, Shaffrey CI, Hamilton DK, Hostin R. *Proximal junctional kyphosis and proximal junctional failure.* Neurosurg Clin N Am. 2013 Apr;24(2):213-8. doi: 10.1016/j.nec.2013.01.001. Epub 2013 Feb 21. PMID: 23561560 [PubMed - in process]
 127. Scheer JK, Ames CP, Deviren V. *Assessment and treatment of cervical deformity.* Neurosurg Clin N Am. 2013 Apr;24(2):249-74. doi: 10.1016/j.nec.2012.12.010. PMID: 23561563 [PubMed - in process]
 128. McCarthy I, Hostin R, O'Brien M, Saigal R, Ames CP. *Health economic analysis of adult deformity surgery.* Neurosurg Clin N Am. 2013 Apr;24(2):293-304. doi: 10.1016/j.nec.2012.12.005. Epub 2013 Feb 21. PMID: 23561565 [PubMed - in process]
 129. Ames CP, Jian B, Shaffrey CI. *Spinal Deformity Surgery.* Neurosurg Clin N Am. 2013 Apr;24(2):xiii-xiv. doi: 10.1016/j.nec.2012.12.013. Epub 2013 Feb 6. No Abstract available. PMID: 23561566 [PubMed - in process]
 130. Acosta FL Jr, McClendon J Jr, O'Shaughnessy BA, Koski TR, Ondra SL, Koller

- H, Meier O, Neal CJ, Ames CP. *Deformity surgery. Response.* J Neurosurg Spine. 2013 Apr;18(4):415-6. No abstract available. PMID: 23667928 [PubMed - in process]
131. Tarapore PE, Modera P, Naujokas A, Oh MC, Amin B, Tihan T, Parsa AT, Ames CP, Chou D, Mummaneni PV, Weinstein PR. *Pathology of Spinal Ependymomas: An Institutional Experience Over 25 Years in 134 Patients.* Neurosurgery. 2013 May 10. [Epub ahead of print]. PMID: 23670032 [PubMed - as supplied by publisher]
132. Schairer WW, Carrer A, Deviren V, Hu SS, Takemoto S, Mummaneni P, Chou D, Ames C, Burch S, Tay B, Sawyer A, Berven SH. *Hospital Readmission After Spine Fusion for Adult Spinal Deformity.* Spine (Phila PA 1976). 2013 May 21. [Epub ahead of print]. PMID: 23698572 [PubMed – as supplied by publisher]
133. Schwab FJ, Blondel B, Bess S, Hostin R, Shaffrey CI, Smith JS, Boachie-Adjei O, Burton DC, Akbarnia BA, Mundis GM, Ames CP, Kebaish K, Hart RA, Farcy JP, Lafage V; International Spine Study Group (ISSG). *Radiographical spinopelvic parameters and disability in the setting of adult spinal deformity: a prospective multicenter analysis.* Spine (Phila Pa 1976). 2013 Jun 1;38(13):E803-12. doi: 10.1097/BRS.0b013e318292b7b9. PMID: 23722572 [PubMed – in process]
134. Smith JS, Klineberg E, Schwab F, Shaffrey CI, Moal B, Ames CP, Hostin R, Fu KM, Burton D, Akbarnia B, Gupta M, Hart R, Bess S, Lafage V; International Spine Study Group. *Change in Classification Grade by the SRS-Schwab Adult Deformity Classification Predicts Impact on Health-Related Quality of Life Measures: Prospective Analysis of Operative and Non-operative Treatment.* Spine (Phila Pa 1976). 2013 Jun 11. [Epub ahead of print]. PMID: 23759814 [PubMed – as supplied by publisher]
135. Hart R, McCarthy I, O'brien M, Bess S, Line B, Adjei OB, Burton D, Gupta M, Ames C, Deviren V, Khaled Kebaish, Shaffrey C, Wood K, Hostin R; International Spine Study Group Denver, CO. *Identification of Decision Criteria for Revision Surgery among Patients with Proximal Junctional Failure following Surgical Treatment for Spinal Deformity.* Spine (Phila Pa 1976). 2013 Jun 17. [Epub ahead of print]. PMID: 23778370 [PubMed - as supplied by publisher]
136. Clark AJ, Ziewacz JE, Safaee M, Lau D, Lyon R, Chou D, Weinstein PR, Ames CP, Clark JP 3rd, Mummaneni PV. *Intraoperative neuromonitoring with MEPs and prediction of postoperative neurological deficits in patients undergoing surgery for cervical and cervicothoracic myelopathy.* Neurosurg Focus. 2013 Jul;35(1):E7. doi: 10.3171/2013.4.FOCUS13121. PMID: 23815252 [PubMed – in process]
137. Ames CP, Smith JS, Scheer JK, Shaffrey CI, Lafage V, Deviren V, Moal B, Protosaltis T, Mummaneni PV, Mundis GM Jr, Hostin R, Klineberg E, Burton DC, Hart R, Bess S, Schwab FJ; the International Spine Study Group. *A standardized nomenclature for cervical spine soft-tissue release and osteotomy*

- for deformity correction: clinical article.* J Neurosurg Spine. 2013 Jul 5. [Epub ahead of print]. PMID: 23829287 [PubMed – as supplied by publisher]
138. Ha Y, Maruo K, Racine L, Schairer WW, Hu SS, Deviren V, Burch S, Tay B, Chou D, Mummaneni PV, Ames CP, Berven SH. *Proximal junctional kyphosis and clinical outcomes in adult spinal deformity surgery with fusion from the thoracic spine to the sacrum: a comparison of proximal and distal upper instrumented vertebrae.* J Neurosurg Spine. 2013 Jul 12. [Epub ahead of print]. PMID: 23848349. [PubMed – as supplied by publisher]
139. Abdul-Jabbar A, Berven SH, Hu SS, Chou D, Mummaneni PV, Takemoto S, Ames C, Deviren V, Tay B, Weinstein P, Burch S, Liu C. *Surgical Site Infections in Spine Surgery: Identification of Microbiologic and Surgical Characteristics in 239 Cases.* Spine (Phila Pa 1976). 2013 Jul 18. [Epub ahead of print]. PMID: 23873240 [PubMed – as supplied by publisher]
140. Dede O, Thuillier D, Pekmezci M, Ames CP, Hu SS, Berven SH, Deviren V. *Revision surgery for lumbar pseudarthrosis.* Spine J. 2013 Jul 19. doi:pii: S1529-9430(13)00555-X. 10.1016/j.spinee.2013.05.039. [Epub ahead of print]. PMID: 23876307. [PubMed – as supplied by publisher]
141. Terran J, Schwab F, Shaffrey CI, Smith JS, Devos P, Ames CP, Fu KM, Burton D, Hostin R, Klineberg E, Gupta M, Deviren V, Mundis G, Hart R, Bess S, Lafage V; International Spine Study Group. *The SRS-Schwab Adult Spinal Deformity Classification Assessment and Clinical Correlations Based on a Prospective Operative and Nonoperative Cohort.* Neurosurgery. 2013 Jul 24. [Epub ahead of print]. PMID: 23756751. [PubMed – as supplied by publisher]
142. Saigal R, Clark AJ, Scheer JK, Smith JS, Bess S, Mummaneni PV, McCarthy I, Hart R, Kebaish K, Klineberg E, Deviren V, Schwab F, Shaffrey CI, Ames CP; International Spine Study Group. *156 Adult Deformity Surgery (ASD) Patients Recall Fewer Than 50% of the Risks Discussed in the Informed Consent Process Preoperatively and the Recall Rate Worsens Significantly in the Postoperative Period.* Neurosurgery. 2013 Aug;60 Suppl 1:172. doi: 10.1227/01.neu.0000432747.55688.41. PMID: 23839423. [PubMed – in process]
143. Maruo K, Ha Y, Inoue S, Samuel S, Okada E, Hu SS, Deviren V, Burch S, William S, Ames CP, Mummaneni PV, Chou D, Berven SH. *Predictive Factors for Proximal Junctional Kyphosis in Long Fusions to the Sacrum in Adult Spinal Deformity.* Spine (Phila Pa 1976). 2013 Aug 5. [Epub ahead of print]. PMID: 23921319. [PubMed – as supplied by publisher]
144. Shamji MF, Ames C, Smith JS, Rhee J, Chapman J, Fehlings MG. *Myelopathy and Spinal Deformity: The Relevance of Spinal Alignment in Planning Surgical Intervention for Degenerative Cervical Myelopathy.* Spine (Phila Pa 1976). 2013 Aug 16. [Epub ahead of print]. PMID: 23963013. [PubMed – as supplied by publisher]

145. Ames CP, Blondel B, Scheer JK, Schwab F, Le Huec JC, Massicotte EM, Patel AA, Traynelis VC, Kim HJ, Shaffrey CI, Smith JS, Lafage V. *Cervical Radiographic Alignment Comprehensive Assessment Techniques and Potential Importance in Cervical Myelopathy*. Spine (Phila Pa 1976). 2013 Aug 16. [Epub ahead of print]. PMID: 23963007. [Pubmed – as supplied by publisher]
146. Smith JS, Lafage V, Ryan DJ, Shaffrey CI, Schwab FJ, Patel AA, Brodke D, Arnold PM, Riew KD, Traynelis V, Radcliff K, Vaccaro AR, Fehlings MG, Ames CP. *Association of Myelopathy Scores with Cervical Sagittal Balance and Normalized Spinal Cord Volume: Analysis of 56 Preoperative Cases from the AOSpine North America Myelopathy Study*. Spine (Phila Pa 1976). 2013 Aug 16. [Epub ahead of print]. PMID: 23963001. [PubMed - as supplied by publisher]
147. Scheer JK, Tang JA, Smith JS, Acosta FL Jr, Protopsaltis TS, Blondel B, Bess S, Shaffrey CI, Deviren V, Lafage V, Schwab F, Ames CP; International Spine Study Group. *Cervical spine alignment, sagittal deformity, and clinical implications: a review*. Neurosurg Spine. 2013 Aug;19(2):141-59. doi: 10.3171/2013.4.SPINE12838. Epub 2013 Jun 14. PMID: 23768023. [PubMed – in process]
148. Su BW, Shimer AL, Chinthakunta S, Salloum K, Ames CP, Vaccaro AR, Bucklen B. *Comparison of Fatigue Strength of C2 Pedicle Screws, C2 Pars Screws, and a Hybrid Construct in C1-2 Fixation*. Spine (Phila Pa 1976). 2013 Oct 9. [Epub ahead of print]. PMID: 24108297. [PubMed – as supplied by publisher]
149. Ames CP, Blondel B, Scheer JK, Schwab FJ, Le Huec JC, Massicotte EM, Patel AA, Traynelis VC, Kim HJ, Shaffrey CI, Smith JS, Lafage V. *Cervical radiographical alignment: comprehensive assessment techniques and potential importance in cervical myelopathy*. Spine (Phila Pa 1976). 2013 Oct 15;38(22 Suppl 1):S149-60. doi: 10.1097/BRS.0b013e3182a7f449. PMID: 24113358 [PubMed – in process]
150. Ha Y, Schwab F, Lafage V, Mundis G, Shaffrey C, Smith J, Bess S, Ames C. *Reciprocal changes in cervical spine alignment after corrective thoracolumbar deformity surgery*. Eur Spine J. 2013 Oct 18. [Epub ahead of print]. PMID: 24136416. [PubMed – as supplied by publisher]
151. Feldman WB, Clark AJ, Safaee M, Ames CP, Parsa AT. *Tumor control after surgery for spinal myxopapillary ependymomas; distinct outcomes in adults versus children: a systematic review*. J Neurosurg Spine. 2013 Oct;19(4):471-6. doi: 10.3171/2013.6.SPINE12927. Epub 2013 Aug 23. PMID: 23971762. [PubMed - in process]

152. Scheer JK, Tang JA, Smith JS, Klineberg E, Hart RA, Mundis GM Jr, Burton DC, Hostin R, O'Brien MF, Bess S, Kebaish KM, Deviren V, Lafage V, Schwab F, Shaffrey CI, **Ames CP**; International Spine Study Group. *Reoperation rates and impact on outcome in a large, prospective, multicenter, adult spinal deformity database: clinical article.* J Neurosurg Spine. 2013 Oct;19(4):464-70. doi: 10.3171/2013.7.SPINE12901. Epub 2013 Aug 23. PMID: 23971763. [PubMed - in process]
153. Schwab F, Blondel B, Chay E, Demakakos J, Lenke L, Tropiano P, **Ames C**, Smith JS, Shaffrey CI, Glassman S, Farcy JP, Lafage V. *The Comprehensive Anatomical Spinal Osteotomy Classification.* Neurosurgery. 2013 Nov 4. [Epub ahead of print]. PMID: 24193360. [PubMed – as supplied by publisher]
154. Bess S, Line BG, Lafarge V, Schwab F, Shaffrey CI, Hart RA, Boachie-Adjei O, Akbarnia BA, **Ames CP**, Burton DC, Deverin V, Fu KM, Gupta M, Hostin R, Kebaish K, Klineberg E, Mundis G, O'Brien M, Shelokov A, Smith JS; International Spine Study Group ISSG. *Does Recombinant Human Bone Morphogenic Protein-2 (rhBMP-2) Use in Adult Spinal Deformity (ASD) Increase Complications and Are Complications Associated With Location of rhBMP-2 Use?: A Prospective, Multicenter Study of 279 Consecutive Patients.* Spine (Phila Pa 1976), 2013 Nov 18. [Epub ahead of print]. PMID: 24253783. [PubMed – as supplied by publisher]
155. Deviren V, Tang JA, Scheer JK, Buckley JM, Pekmezci M, McClellan RT, **Ames CP**. *Construct Rigidity after Fatigue Loading in Pediatric Subtraction Osteotomy with or without Adjacent Interbody Structural Cages.* Global Spine J. 2012 Dec;2(4):213-20. doi: 10.1055/s-0032-1331460. Epub 2012 Dec 6. PMID: 24353970. [PubMed – as supplied by publisher]
156. McCarthy IM, Hostin RA, O'Brien MF, Fleming NS, Ogola G, Kudyakov R, Richter KM, Saigal R, Berven SH, **Ames CP**; International Spine Study Group. *Analysis of the direct cost of surgery for four diagnostic categories of adult spinal deformity.* Spine J. 2013 Dec;13(12):1843-8. doi: 10.1016/j.spinee.2013.06.048. PMID: 24315558. [PubMed - in process]
157. Schwab F, Blondel B, Chay E, Demakakos J, Lenke L, Tropiano P, **Ames C**, Smith JS, Shaffrey CI, Glassman S, Farcy JP, Lafage V. *The comprehensive anatomical spinal osteotomy classification.* Neurosurgery. 2014 Jan;74(1):112-20; discussion 120. doi: 10.1227/NEU.0000000000000182o. PMID: 24356197. [PubMed - in process].
158. Scheer JK, Lafage V, Smith JS, Deviren V, Hostin R, McCarthy IM, Mundis GM, Burton DC, Klineberg E, Gupta MC, Kebaish KM, Shaffrey CI, Bess S, Schwab F, **Ames CP**; the International Spine Study Group (ISSG). *Impact of age on the likelihood of reaching a minimum clinically important difference in 374 three-column spinal osteotomies.* J Neurosurg Spine. 2014 Jan 3. [Epub ahead of

- print]. PMID: 24405466. [PubMed - as supplied by publisher].
159. Shaffrey E, Smith JS, Lenke LG, Polly DW Jr, Chen CJ, Coe JD, Broadstone PA, Glassman SD, Vaccaro AR, Ames CP, Shaffrey CI. *Defining Rates and Causes of Mortality Associated with Spine Surgery: Comparison of Two Data Collection Approaches through the Scoliosis Research Society*. Spine (Phila Pa 1976). 2014 Jan 14. [Epub ahead of print]. PMID: 24430719 [PubMed - as supplied by publisher].
 160. Clark AJ, Tang JA, Leasure JM, Ivan ME, Kondrashov D, Buckley JM, Deviren V, Ames CP. *Gait-stimulating fatigue loading analysis and sagittal alignment failure of spinal pelvic reconstruction after total sacrectomy: comparison of 3 techniques*. J Neurosurg Spine. 2014 Jan 24. [Epub ahead of print]. PMID: 24460580. [PubMed - as supplied by publisher]
 161. McCarthy I, Hostin R, Ames C, Kim HJ, Smith J, Boachie-Adjei O, Schwab F, Klineberg E, Shaffrey C, Gupta M, Polly D; International Spine Study Group. *Total Hospital Costs of Surgical Treatment for Adult Spinal Deformity: An Extended Follow-up Study*. Spine J. 2014 Jan 24. pii: S1529-9430(14)00109-0. doi: 10.1016/j.spinee.2014.01.032. [Epub ahead of print]. PMID: 24469004. [PubMed - as supplied by publisher].
 162. Bess S, Line BG, Lafage V, Schwab F, Shaffrey CI, Hart RA, Boachie-Adjei O, Akbarnia BA, Ames CP, Burton DC, Deverin V, Fu KM, Gupta M, Hostin R, Kebaish K, Klineberg E, Mundis G, O'brien M, Shelokov A, Smith JS; International Spine Study Group ISSG. *Does Recombinant Human Bone Morphogenetic Protein-2 Use in adult Spinal Deformity Increase Complications and Are Complications Associated With Location rhBMP-2 Use? A Prospective, Multicenter Study of 279 Consecutive Patients*. Spine (Phila Pa 1976). 2014 Feb 1;39(3):233-42. doi: 10.1097/BRS.000000000000104. PMID: 24477081. [PubMed – in process]
 163. Safaee M, Oh MC, Mummaneni PV, Weinstein PR, Ames CP, Chou D, Berger MS, Parsa AT, Gupta N. *Surgical outcomes in spinal cord ependymomas and the importance of extent of resection in children and young adults*. J Neurosurg Pediatr. 2014 Feb 7. [Epub ahead of print]. PMID: 24506340. [PubMed - as supplied by publisher].
 164. Nacar OA, Ulu MO, Pekmezci M, Deviren V, Ames C. *Successful treatment of a very rare angiosarcoma involving the lumbar spine via en-bloc resection and radiotherapy: case report*. Turk Neurosurg. 2014;24(1):140-5. doi: 10.5137/1019-5149.JTN.8134-13.0. PMID: 24535812 [PubMed - in process]
 165. Maier S, Smith JS, Schwab F, Obeid I, Mundis G, Klineberg E, Hostin R, Hart R, Burton D, Boachie-Adjei O, Gupta M, Ames C, Protopsaltis T, Lafage V, International Spine Study Group. *Revision Surgery After Three-Column Osteotomy in 335 Adult Spinal Deformity Patients: Inter-Center Variability and Risk Factors*.

- Spine (Phila Pa 1976). 2014 Feb 27. [Epub ahead of print]. PMID: 24583729
[PubMed - as supplied by publisher]
166. Oh JK, Smith JS, Shaffrey CI, Lafage V, Schwab F, Ames CP, Matsumoto M, Baik JS, Ha Y. *Sagittal Spino-Pelvic Malalignment in Parkinson's Disease: Prevalence and Associations With Disease Severity*. Spine (Phila Pa 1976). 2014 Apr 11. [Epub ahead of print]. PMID: 24732854 [PubMed – as supplied by publisher]
 167. Smith JS, Singh M, Klineberg E, Shaffrey CI, Lafage V, Schwab FJ, Protopsaltis T, Ibrahim D, Scheer JK, Mundis G Jr, Gupta MC, Hostin R, Deviren V, Kebaish K, Hart R, Burton DC, Bess S, Ames CP; On Behalf of the International Spine Study Group. *Surgical Treatment of Pathological loss of lumbar lordosis (flatback) in patients with normal sagittal vertical axis achieves similar clinical improvement as surgical treatment of elevated sagittal vertical axis*. J Neurosurg Spine. 2014 Apr 25. [Epub ahead of print] PMID: 24766290 [PubMed – as supplied by publisher]
 168. Liu S, Schwab F, Smith JS, Klineberg E, Ames CP, Mundis G, Hostin R, Kebaish K, Deviren V, Gupta M, Boachie-Adjei O, Hart RA, Bess S, Lafage V. *Likelihood of reaching minimal clinically important difference in adult spinal deformity: a comparison of operative and nonoperative treatment*. Ochsner J. 2014 Spring;14(1):67-77. PMID: 24688336 [PubMed]
 169. Fu KM, Bess S, Shaffrey CI, Smith JS, Lafage V, Schwab F, Burton DC, Akbarnia BA, Ames CP, Boachie-Adjei O, Deverin V, Hart RA, Hostin R, Klineberg E, Gupta M, Kebaish K, Mundis G, Mummaneni PV. *Adult Spinal Deformity Patients Treated Operatively Report Greater Baseline Pain and Disability than Patients Treated Nonoperatively: However, Deformities Differ Between Age Groups*. Spine (Phila Pa 1976). 2014 May 22. [Epub ahead of print] PMID: 24859590. [PubMed – as supplied by publisher]
 170. Smith JS, Lafage V, Schwab FJ, Shaffrey CI, Protopsaltis T, Klineberg E, Gupta M, Scheer JK, Fu KM, Mundis G, Hostin R, Deviren V, Hart R, Burton DC, Bess S, Ames CP, International Spine Study Group. *Prevalence and Type of Cervical Deformity Among 470 Adults with Thoracolumbar Deformity*. Spine (Phila Pa 1976). 2014 May 22. [Epub ahead of print]. PMID: 24859571 [PubMed – as supplied by publisher]
 171. McCarthy I, O'Brien M, Ames C, Robinson C, Errico T, Polly DW Jr., Hostin R; International Spine Study Group. *Incremental cost-effectiveness of adult spinal deformity surgery: observed quality-adjusted life years with surgery compared with predicted quality-adjusted life years without surgery*. Neurosurg Focus. 2014 May;36(5):E3. doi: 10.3171/2014.3.FOCUS1415. PMID: 24785485 [PubMed – in process]
 172. Bianco K, Norton R, Schwab F, Smith JS, Klineberg E, Obeid I, Mundis G Jr, Shaffrey CI, Kebaish K, Hostin R, Hart R, Gupta MC, Burton D, Ames C, Boachie-Adjei O, Protopsaltis TS, Lafage V; International Spine Study Group. *Complications and intercenter variability of three-column osteotomies for spinal deformity surgery: a retrospective review of 423 patients*. Neurosurg Focus. 2014 May;36(5):E18. doi: 10.3171/2014.2.FOCUS1422. PMID: 24785483 [PubMed – in process]
 173. Kelly MP, Lenke LG, Shaffrey CI, Ames CP, Carreon LY, Lafage V, Smith JS, Shimer AL. *Evaluation of complications and neurological deficits with three-column spine*

- reconstruction for complex spinal deformity: a retrospective Scolio-RISK-1 study.* Neurosurg Focus. 2014 May;36(5):E17. doi: 10.3171/2014.2.FOCUS1419. PMID: 24785482 [PubMed – in process]
174. Sparrey CJ, Bailey JF, Safaee M, Clark AJ, Lafage V, Schwab F, Smith JS, Ames CP. *Etiology of lumbar lordosis and its pathophysiology: a review of the evolution of lumbar lordosis, and the mechanics and biology of lumbar degeneration.* Neurosurg Focus. 2014 May;36(5):E1. doi: 10.3171/2014.1.FOCUS13551. PMID: 24785474 [PubMed – in process]
 175. Kim HJ, Boachie-Adjei O, Shaffrey CI, Schwab F, Lafage V, Bess S, Gupta MC, Smith JS, Deviren V, Akbarnia B, Mundis GM, O'Brien M, Hostin R, Ames C; International Spine Study Group. *Upper thoracic versus lower thoracic upper instrumented vertebrae endpoints have similar outcomes and complications in adult scoliosis.* Spine (Phila Pa 1976). 2014 Jun 1;39(13):E795-9. doi: 10.1097/BRS.0000000000000339. PMID: 24732840 [PubMed – in process]
 176. Scheer JK, Lafage V, Smith JS, Deviren V, Hostin R, McCarthy IM, Mundis GM, Burton DC, Klineberg E, Gupta M, Kebaish K, Shaffrey CI, Bess S, Schwab F, Ames CP; International Spine Study Group (ISSG). *Maintenance of radiographic correction at 2 years following lumbar pedicle subtraction osteotomy is superior with upper thoracic compared with thoracolumbar junction upper instrumented vertebra.* Eur Spine J. 2014 Jun 1. [Epub ahead of print] PMID: 24880236 [PubMed – as supplied by publisher]
 177. Acosta FL Jr, Ames C, Hsieh PC, McCarthy IM. *Introduction: Costs and benefits of modern-day spine care.* Neurosurg Focus. 2014 Jun;36(6):Introduction. Doi: 10.3171/2014.4.FOCUS14124. No abstract available. PMID: 24881639 [PubMed – in process]
 178. Molina CA, Ames CP, Chou D, Rhines LD, Hsieh PC, Zadnik PL, Wolinsky JP, Gokaslan ZL, Sciubba DM. *Outcomes following attempted en bloc resection of cervical chordomas in the C-1 and C-2 region versus the subaxial region: a multiinstitutional experience.* J Neurosurg Spine. Sep;21(3):348-56. doi: 10.3171/2014.5.SPINE121045. Epub 2014 Jun 13. PMID: 24926926 [PubMed – indexed for MEDLINE]
 179. Ryan DJ, Protopsaltis TS, Ames CP, Hostin R, Klineberg E, Mundis GM, Obeid I, Kebaish K, Smith JS, Boachie-Adjei O, Burton DC, Hart RA, Gupta M, Schwab FJ, Lafage V; International Spine Study Group. *T1 pelvic angle (TPA) Effectively evaluates sagittal deformity and assesses radiographical surgical Outcomes longitudinally.* Spine (Phila Pa 1976). 2014 Jul 1;39(15):1203-10. doi: 10.1097/BRS.0000000000000382. PMID: 25171068 [PubMed – in process]
 180. Schairer WW, Carrer A, Sing DC, Chou D, Mummaneni PV, Hu SS, Berven SH, Burch S, Tay B, Deviren V, Ames C. *Hospital Readmission Rates After Surgical Treatment of Primary and Metastatic Tumors of the Spine.* Spine (Phila Pa 1976). 2014 Jul 15. [Epub ahead of print]. PMID: 25029220 [PubMed – as supplied by publisher]
 181. Choi HJ, Smith JS, Shaffrey CI, Lafage V, Schwab F, Ames CP, Matsumoto M, Baik JS, Ha Y. *Coronal Plane Spinal Malalignment and Parkinson's Disease: Prevalence and Associations with Disease Severity.* Spine J. 2014 Jul 17. pii: S1529-9430(14)00673-1.

- doi: 10.1016/j.spinee.2014.07.004. [Epub ahead of print] No abstract available. PMID: 25041726 [PubMed – as supplied by publisher]
182. Tabaraee E, Mummaneni P, Abdul-Jabbar A, Shearer D, Roy E, Amin B, Ames C, Burch S, Deviren V, Berven S, Hu S, Chou D, Tay BK. *A Comparison of Implants Used in Open-Door Laminoplasty: Structural Rib Allografts Versus Metallic Mini-Plates*. J Spinal Disord Tech. 2014 Jul 29. [Epub ahead of print]. PMID: 25075986 [PubMed – as supplied by publisher]
 183. Theologis AA, Demirkiran G, Callahan M, Pekmezci M, Ames C, Deviren V. *Local Intra-Wound Vancomycin Powder Decreases the Risk of Surgical Site Infections in Complex Adult Deformity Reconstruction: A Cost Analysis*. Spine (Phila Pa 1976). 2014 Jul 30. [Epub ahead of print]. PMID: 25077909 [PubMed – as supplied by publisher]
 184. Smith JS, Lafage V, Shaffrey CI, Schwab F, Hostin RA, Boachie-Adjei O, Scheer JK, Akbarnia BA, Klineberg E, Gupta M, Deviren V, Hart R, Burton DC, Bess S, Ames CP. *Outcomes of Operative and Nonoperative Treatment for Adult Spinal Deformity: A Prospective, Multicenter Matched and Unmatched Cohort Assessment with Minimum 2-Year Follow-up*. Neurosurgery. 2014 Aug;61 Suppl 1:197-8. doi: 10.1227/01.neu.0000452391.08672.bb. PMID: 25032568 [PubMed – in process]
 185. Soroceanu A, Passias PG, Boniello A, Scheer JK, Schwab F, Shaffrey CI, Kim HJ, Protosaltis T, Mundis G, Gupta M, Klineberg E, Lafage V, Smith JS, Ames CP. *Risk of Development of New Onset Postoperative Cervical Deformity in Thoracolumbar Adult Spinal Deformity and Effect on Clinical Outcomes at 2-year Follow-up*. Neurosurgery. 2014 Aug;61 Suppl 1:2208. doi: 10.1227/01.neu.0000452421.22065.29. PMID: 25032598 [PubMed – in process]
 186. Scheer JK, Smith JS, Lafage V, Shaffrey CI, Lafage R, Klineberg E, Gupta M, Hostin RA, Kebaish K, Bess S, Schwab F, Ames CP. *Spinal Pelvic Radiographic Thresholds for Regional Lumbar Disability are Age Dependent: Analysis of Multicenter Database of 833 Patients*. Neurosurgery. 2014 Aug;61 Suppl 1:209. doi: 10.1227/01.neu.0000452425.22046.9d. PMID: 25032601 [PubMed – in process]
 187. Bess W, Line BG, Lafage V, Ames CP, Boachie-Adjei O, Burton DC, Hart R, Gupta M, Klineberg E, Mundis G, Hostin RA, Schwab F, Shaffrey CI, Smith JS. *Intermediate dosing of recombinant human bone morphogenetic protein-2 improves fusion rates with no increase in major complications but does not improve health related quality of life for adult spinal deformity at minimum 2 years: a prospective multicenter analysis*. Neurosurgery. 2014 Aug;61 Suppl 1:209-10. doi: 10.1227/01.neu.0000452426.29670.a5. PMID: 25032602 [PubMed – in process]
 188. Clark AJ, Garcia RM, Keefe MK, Koski TR, Rosner MK, Smith JS, Shaffrey CI, McCormick PC, Ames CP, , and the International Spine Study Group. *Results of the AANS membership survey of adult spinal deformity knowledge: impact of training, practice experience, and assessment of potential areas for improved education: Clinicle Article*. J Neurosurg Spine. 2014 Jul 18:1-8. [Epub ahead of print]. PMID: 25036219 [PubMed – as supplied by publisher]

189. Maggio, D., Ailon T.T., Smith J.S., Shaffrey C.I., Lafage V., Schwab F., Haid Jr R.W., Protopsaltis T., Klineberg E., Scheer J.K., Bess S., Arnold P., Chapman J., Fehlings M.G., **Ames C.**, AO Spine North America, International Spine Study Group. *Assessment of Impact of Long-Cassette Standing Radiographs on Surgical Planning for Lumbar Pathology: An International Survey of Spine Surgeons*. Journal of Neurosurgery: Spine, In Review; XX(X), pp. XX-XX
190. Oh T., Scheer J.K., Eastlack R., Smith J.S., Lafage V., Protopsaltis T.S., Klineberg E., Passias P.G., Deviren V., Hostin R., Gupta M., Bess S., Schwab F., Shaffrey C.I., **Ames C.P.**, ISSG. *Cervical Compensatory Alignment Changes Following Correction of Adult Thoracic Deformity: A Multicenter Experience of 57 Patients with 2-Year Follow-Up*. Journal of Neurosurgery: Spine, In Review; XX(X), pp. XX-XX
191. Sciubba D.M., Scheer J.K., Yurter A., Smith J.S., Lafage V., Klineberg E., Gupta M., Eastlack R., Mundis G., Protopsaltis T., Blaskiewicz D., Kim H.J., Koski T., Keibaish K., Shaffrey C.I., Bess S., Hart R.A., Schwab F., **Ames C.P.**, ISSG. *Elderly patients (age \geq 75) with adult spinal deformity undergoing reconstructive surgery have significantly improved health-related quality of life measures at two years versus those managed non-operatively despite high surgical complication rate*. Journal of Neurosurgery: Spine, In Review; XX(X). pp. XX-XX
192. **Ames C.P.**, Smith J.S., Eastlack R.K., Blaskewitz D., Shaffrey C.I., Schwab F., Bess S., Kim, H.J., Mundis G.M., Klineberg E., Gupta M., O'Brien M., Hostin R., Scheer J.K., Protopsaltis T., Fu K.G., Hart R., Albert T.J., Riew K.D., Fehlings M.G., Deviren V., Lafage V., ISSG. *Reliability Assessment of a Novel Cervical Deformity Classification System*. Journal of Neurosurgery: Spine, In Review; XX(X), pp. XX-XX
193. Sciubba D.M., Scheer J.K., Smith J.S., Lafage V., Klineberg E., Gupta M., Mundis G., Protopsaltis T., Kim H.J., Hiratzka J.R., Koski T., Shaffrey C.I., Bess S., Hart R.A., **Ames C.P.**, ISSG. *Which Daily Functions Are Most Affected by Stiffness Following Pan-Lumbar Fusion: Comparison of Upper Thoracic and Thoracolumbar Proximal Endpoints*. Journal of Neurosurgery: Spine, In Review; XX(X), pp. XX-XX
194. Scheer J.K., Mundis G.M., Klineberg E., Hart R.A., Kelly M.P., Deviren V., Nguyen S., Protopsaltis T.S., Gupta M., Bess S., Shaffrey C.I., Schwab F., Lafage V., Smith J.S., **Ames C.P.**, ISSG. *The Effect of Patient Age on Recovery Kinetics in 149 Adult Spinal Deformity Patients with 2-year Follow-Up: A Novel Area Under the Curve Analysis*. Journal of Neurosurgery: Spine, In Review; XX(X), pp. XX-XX
195. Passias P.G., Soroceanu A., Smith J.S., Boniello A., Yang S., **Scheer J.K.**, Schwab F., Shaffrey C.I., Kim H.J., Protopsaltis T., Mundis G.M., Gupta M., Klineberg E., Lafage V., **Ames C.P.**, ISSG. *Post-Operative Cervical Deformity in 215 Thoracolumbar Adult Spinal Deformity Patients: Prevalence, Risk Factors, and Impact on Patient-Reported Outcome and Satisfaction at 2-Year Follow up*. Spine, In Review; XX(X), pp. XX-XX
196. Scheer J.K., Fakurnejad S., Lau D., Daubs M.D., Coe J.D., Paonessa K.J., LaGrone M.O., Amaral R.A., Trobisch P.D., Lee J-H., Fabris-Monterumici D., Anand N., Cree A.K., Hart R.A., Hey L.A., **Ames C.P.**, SRS Adult Spinal Deformity Committee. *Results of the 2014 SRS survey on PJK/PJF: A report on practice pattern variation, treatment indications, and membership opinion on classification development*. Spine, In Review; XX(X), pp. XX-XX

197. Sciubba D.M., Yurter A., Smith J.S., Kelly M.P., Scheer J.K., Ames C.P., ISSG. *A Systematic Review and Meta-Analysis of Complication Rates Following Surgery for Adult Deformity: a Reference for Informed Consent*. Journal of Neurosurgery: Spine, In review; XX(X), pp. XX-XX
198. Scheer J.K., Smith J.S., Clark A.C., Lafage V., Kim H.J., Rolston J.D., Eastlack R., Protopsaltis T.S., Kelly M.P., Kebaish K., Gupta M.C., Klineberg, E., Hostin R., Shaffrey C.I., Schwab F., Ames C.P., ISSG. *Comprehensive Analysis of Back and Leg Pain Improvements in Adult Spinal Deformity Surgery: Analysis of 421 Patients with 2-Year Follow-up and Impact on Treatment Satisfaction*. Journal of Neurosurgery: Spine, In Review; XX(X), pp. XX-XX
199. Saigal R., Clark A.J., Scheer J.K., Smith J.S., Bess S., Mummaneni P.V., McCarthy I.M., Hart R.A., Kebaish K.M., Klineberg, E.O., Deviren V., Schwab F., Shaffrey C.I., Ames C.P., ISSG. *Adult Deformity Surgery (ASD) Patients Recall Fewer than 50% of the Risks Discussed in the Informed Consent Process Preoperatively and the Recall Rate Worsens Significantly in the Postoperative Period*. Spine, In Review; XX(X), pp. XX-XX
200. Zygorakis CC, Davis JL, Kaur G, Ames CP, Gupta N, Auguste KI, Parsa AT. *Management of central nervous system teratoma*. J Clin Neurosci. 2014 Aug 20. Pii: S0967-5868(14)00374-9. Doi: 10.1016/j.jocn.2014.03.039. [Epub ahead of print]. PMID: 25150764 [PubMed – as supplied by publisher]
201. Fu KM, Bess S, Shaffrey CI, Smith JS, Lafage V, Schwab F, Burton DC, Akbarnia BA, Ames CP, Boachie-Adjei O, Deverin V, Hart RA, Hostin R, Klineberg E, Gupta M, Kebaish K, Mundis G, Mummaneni PV; International Spine Study Group. *Patients with adult spinal deformity treated operatively report greater baseline pain and disability than patients treated nonoperatively; however, deformities differ between age groups*. Spine (Phila Pa 1976). 2014 Aug 1;39(17):1401-7. doi: 10.1097/BRS.0000000000000414. PMID: 24859590 [PubMed – in process]
202. Protopsaltis T, Schwab F, Bronsard N, Smith JS, Klineberg E, Mundis G, Ryan DJ, Hostin R, Hart R, Burton D, Ames C, Shaffrey C, Bess S, Errico T, Lafage V; International Spine Study Group. *The T1 pelvic angle, a novel radiographic measure of global sagittal deformity, accounts for both spinal inclination and pelvic tilt and correlates with health-related quality of life*. J Bone Joint Surg Am. 2014 Oct 1, 96(19): 1631-40. doi: 10.2106/JBJS.M.01459. PMID: 25274788. [PubMed – indexed for MEDLINE]
203. Daniels AH, Ames CP, Garfin SR, Shaffrey CI, Riew KD, Smith JS, Anderson PA, Hart RA. *Spine surgery training: is it time to consider categorical spine surgery residency?* Spine J. 2014 Nov 6. Pii: S1529-9430(14)01320-5. doi: 10.1016/j.spinee.2014.08.452. [Epub ahead of print]. PMID: 25442094 [PubMed – as supplied by publisher]
204. Theologis AA, Tabaraee E, Funao H, Smith JS, Burch S, Tay B, Kebaish K, Deviren V, Ames C. *Three-column osteotomies of the lower cervical and upper thoracic spine: comparison of early outcomes, radiographic parameters, and peri-operative complications in 48 patients*. Eur Spine J. 2014 Nov 14. [Epub ahead of print]. PMID: 25394862 [PubMed – as supplied by publisher]

205. Lau D., Clark A.J., Scheer J.K., Daubs M.D., Coe J.D., Paonessa K.J., LaGrone M.O., Kasten M.D., Amaral R.A., Trobisch P.D., Lee J-H., Fabris-Monterumici D., Anand N., Cree A.K., Hart R.A., Hey L.A., **Ames C.P.**, SRS Adult Spinal Deformity Committee. *Proximal junctional kyphosis and failure following spinal deformity surgery: a systematic review of the literature as a background to classification development.* Spine (Phila Pa 1976). 2014 Dec 1;39(25):2093-102. doi: 10.1097/BRS.0000000000000627. PMID: 25271516 [PubMed – in process]
206. Daniels AH, **Ames CP**, Smith JS, Hart RA. *Variability in Spine Surgery Procedures Performed During Orthopaedic and Neurological Surgery Residency Training: An Analysis of ACGME Case Log Data.* J Bone Joint Surg Am. 2014 Dec 3;96(23):e196. Review. PMID: 25471922 [PubMed – as supplied by publisher]
207. Smith JS, Shaffrey E, Klineberg E, Shaffrey CI, Lafage V, Schwab FJ, Protopsaltis T, Scheer JK, Mundis GM Jr, Fu KM, Gupta MC, Hostin R, Deviren V, Kebaish K, Hart R, Burton DC, Line B, Bess S, **Ames CP**; International Spine Study Group. *Prospective multicenter assessment of risk factors for rod fracture following surgery for adult spinal deformity.* J Neurosurg Spine. 2014 Dec;21(6):994-1003. doi: 10.3171/2014.9.SPINE131176. Epub 2014 Oct 17. PMID: 25325175 [PubMed – in process]
208. Scheer JK, Fakurnejad S, Lau D, Daubs MD, Coe JD, Paonessa KJ, LaGrone MO, Amaral RA, Trobisch PD, Lee JH, Fabris-Monterumici D, Anand N, Cree AK, Hart RA, Hey LA, **Ames CP**; SRS Adult Spinal Deformity Committee. *Results of the 2014 SRS Survey on PJK/PJF: A report on variation of Select SRS Member Practice Patterns, Treatment Indications, and Opinions on Classification Development.* Spine (Phila Pa 1976). 2015 Jun 1;40(11):829-50. Doi: 10.1097/BRS.0000000000000897.
209. *Comprehensive study of back and leg pain improvements after adult spinal deformity surgery: analysis of 421 patients with 2-year follow-up and of the impact of the surgery on treatment satisfaction.* Scheer JK, Smith JS, Clark AJ, Lafage V, Kim HJ, Rolston JD, Eastlack R, Hart RA, Protopsaltis TS, Kelly MP, Kebaish K, Gupta M, Klineberg E, Hostin R, Shaffrey CI, Schwab F, **Ames CP**; the International Spine Study Group. J Neurosurg Spine. 2015 Feb 20:1-14. [Epub ahead of print] PMID: 25700238 [PubMed - as supplied by publisher]
210. *The comprehensive anatomical spinal osteotomy classification.* Schwab F, Blondel B, Chay E, Demakakos J, Lenke L, Tropiano P, **Ames C**, Smith JS, Shaffrey CI, Glassman S, Farcy JP, Lafage V. Neurosurgery. 2015 Mar; 76 Suppl 1:S33-41. Doi: 10.1227/01.neu.0000462076.73701.09. PMID: 25692366 [PubMed - in process]
211. *The impact of standing regional cervical sagittal alignment on outcomes in posterior cervical fusion surgery.* Tang JA, Scheer JK, Smith JS, Deviren V, Bess S, Hart RA, Lafage V, Shaffrey CI, Schwab F, **Ames CP**; ISSG. Neurosurgery. 2015 Mar;76 Suppl 1:S14-21. Doi: 10.1227/01.neu.0000462074.66077.2b. PMID: 25692364 [PubMed - in process]

212. *Recovery following adult spinal deformity surgery: the effect of complications and reoperation in 149 patients with 2-year follow-up.* Scheer JK, Mundis GM, Klineberg E, Hart RA, Deviren V, Burton DC, Protosaltis TS, Gupta M, Rolston JD, Bess S, Shaffrey CI, Schwab F, Lafage V, Smith JS, Ames CP; International Spine Study Group (ISSG). *Eur Spine J.* 2015 Feb 6. [Epub ahead of print] PMID: 25657105 [PubMed - as supplied by publisher]
213. *Patients with spinal deformity over the age of 75: a retrospective analysis of operative versus non-operative management.* Sciubba DM, Scheer JK, Yurter A, Smith JS, Lafage V, Klineberg E, Gupta M, Eastlack R, Mundis GM, Protosaltis TS, Blaskiewicz D, Kim HJ, Koski T, Kebaish K, Shaffrey CI, Bess S, Hart RA, Schwab F, Ames CP; the International Spine Study Group (ISSG). *Eur Spine J.* 2015 Feb 6. [Epub ahead of print] PMID: 25657104 [PubMed - as supplied by publisher]
214. *Factors predicting recurrence after resection of clival chordoma using variable surgical approaches and radiation modalities.* Jahangiri A, Chin AT, Wagner JR, Kunwar S, Ames C, Chou D, Barani I, Parsa AT, McDermott MW, Benet A, El-Sayed IH, Aghi MK. *Neurosurgery.* 2015 Feb;76(2):179-85; discussion 185-6. doi: 10.1227/NEU.0000000000000611. PMID: 25594191 [PubMed - in process]
215. Passias PG, Soroceanu A, Smith J, Boniello A, Yang S, Scheer JK, Schwab F, Shaffrey C, Kim HJ, Protosaltis T, Mundis G, Gupta M, Klineberg E, Lafage V, Ames C; International Spine Study Group. *Postoperative cervical deformity in 215 thoracolumbar patients with adult spinal deformity: prevalence, risk factors, and impact on patient-reported outcome and satisfaction at 2-year follow-up.* *Spine (Phila Pa 1976).* 2015 Mar 1;40(5):283-91. doi: 10.1097/BRS.0000000000000746. PMID: 25901975
216. Oh T, Scheer JK, Eastlack R, Smith JS, Lafage V, Protosaltis TS, Klineberg E, Passias PG, Deviren V, Hostin R, Gupta M, Bess S, Schwab F, Shaffrey CI, Ames CP; , and the International Spine Study Group. *Cervical compensatory alignment changes following correction of adult thoracic deformity: a multicenter experience in 57 patients with a 2-year follow-up.* *J Neurosurg Spine.* 2015 Jun;22(6):658-65. doi: 10.3171/2014.10.SPINE14829. Epub 2015 Mar 20. PMID: 25793468
217. Scheer JK, Fakurnejad S, Lau D, Daubs MD, Coe JD, Paonessa KJ, LaGrone MO, Amaral RA, Trobisch PD, Lee JH, Fabris-Monterumici D, Anand N, Cree AK, Hart RA, Hey LA, Ames CP; SRS Adult Spinal Deformity Committee. *Results of the 2014 SRS survey on PJK/PJF: A report on variation of select SRS member practice patterns, treatment indications, and opinions on classification development.* *Spine (Phila PA 1976).* 2015 Mar 25. [Epub ahead of print]. PMID: 28511261

218. Passias PG, Soroceanu A, Scheer J, Yang S, Boniello A, Smith JS, Protosaltis T, Kim HJ, Schwab F, Gupta M, Klineberg E, Mundis G, Lafage R, Hart R, Shaffrey C, Lafage V, **Ames C**; International Spine Study Group (ISSG). *Magnitude of preoperative cervical lordotic compensation and C2-T3 angle are correlated to increased risk of postoperative sagittal spinal pelvic malalignment in adult thoracolumbar deformity patients at 2-year follow-up.* Spine J. 2015 Apr 8. pii: S1529-9430(15)00347-2. doi: 10.1016/j.spinee.2015.04.007. [Epub ahead of print]. PMID: 25862507
219. Sciubba DM, Scheer JK, Smith JS, Lafage V, Klineberg E, Gupta M, Mundis GM, Protosaltis TS, Kim HJ, Hiratzka JR, Koski T, Shaffrey CI, Bess S, Hart RA, **Ames CP**; International Spine Study Group (ISSG). *Which Daily Functions Are Most Affected by Stiffness Following Total Lumbar Fusion: Comparison of Upper Thoracic and Thoracolumbar Proximal Endpoints.* Spine (Phila Pa 1976). 2015 Apr 30. [Epub ahead of print]. PMID: 25943083
220. SiagalR, Clark AJ, Scheer JK, Smith JS, Bess S, Mummaneni PV, McCarthy IM, Hart RA, Kebaish KM, Klineberg EO, Deviren V, Schwab F, Shaffrey CI, **Ames CP**. *Adult Deformity Surgery (ASD) Patients Recall Fewer than 50% of the Risks Discussed in the Informed Consent Process Preoperatively and the Recall Rate Worsens Significantly in the Postoperative Period.* Spine (Phila Pa 1976). 2015 May 5. [Epub ahead of print]. PMID: 25946720
221. Protosaltis TS, Scheer JK, Terran JS, Hamilton DK, Kim HJ, Mundis GM Jr, Hart RA, McCarthy IM, Klineberg E, Lafage V, Bess S, Schwab F, Shaffrey CI, **Ames CP**; International Spine Study Group. *How the neck affects the back: changes in regional cervical sagittal alignment correlate to HRQOL improvement in adult thoracolumbar deformity patients at 2-year follow-up.* J Neurosurg Spine. 2015 May 15:1-6. [Epub ahead of print]. PMID: 25978077
222. Ma EY, Calvo MR, Wang J, Lian B, Mühlbauer M, Brüne C, Cui YT, Lai K, Kundhikanjana W, Yang Y, Baenninger M, König M, **Ames C**, Buhmann H, Leubner P, Molenkamp LW, Zhang SC, Goldhaber-Gordon D, Kelly MA, Shen ZX. *Unexpected edge conduction in mercury telluride quantum wells under broken time-reversal symmetry.* Nat Commun. 2015 May 26;6:7252. doi: 10.1038/ncomms8252. PMID: 26006728
223. Ferrero E, Vira S, **Ames CP**, Kebaish K, Obeid I, O'Brien MF, Gupta MC, Boachie-Adjei O, Smith JS, Mundis GM, Challier V, Protosaltis TS, Schwab FJ, Lafage V; International Spine Study Group. *Analysis of an unexplored group of sagittal deformity patients: low pelvic tilt despite positive sagittal malalignment.* Eur Spine J. 2015 May 31. [Epub ahead of print]. PMID: 26026474.
224. Smith JS, Shaffrey CI, Lafage V, Schwab F, Scheer JK, Protosaltis T, Klineberg E, Gupta M, Hostin R, Fu KM, Mundis GM Jr, Kim HJ, Deviren V, Soroceanu A, Hart RA, Burton DC, Bess S, **Ames CP**; International Spine Study Group. *Comparison of best versus worst clinical outcomes for adult spinal deformity surgery: a retrospective review of a prospectively collected, multicenter database with 2-year follow-up.* J Neurosurg Spine. 2015 Jun 5:1-11. [Epub ahead of print]. PMID: 26047345

225. Fakurnejad S, Scheer JK, Lafage V, Smith JS, Deviren V, Hostin R, Mundis GM Jr, Burton DC, Klineberg E, Gupta M, Kebaish K, Shaffrey CI, Bess S, Schwab F, **Ames CP**; International Spine Study Group. *The likelihood of reaching minimum clinically important difference and substantial clinical benefit at 2 years following a 3-column osteotomy: analysis of 140 patients.* J Neurosurg Spine. 2015 Jun 19:1-9. Journal of Neurosurgery: Spine Sep 2015 / Vol. 23 / No. 3, Pages 340-348. PMID: 26091440
226. Scheer JK, Mundis GM, Klineberg E, Hart RA, Deviren V, Nguyen S, Protopsaltis TS, Gupta M, Bess S, Shaffrey CI, Schwab F, Lafage V, Smith JS, **Ames CP**; International Spine Study Group (ISSG). *Post-Operative Recovery Following Adult Spinal Deformity Surgery: Comparative Analysis of Age in 149 patients during a 2 year follow up.* Spine (Phila Pa 1976). 2015 Jul 17. [Epub ahead of print]. PMID: 26192720
227. Pekmezki M, Herfat S, Theologis AA, Viscoglosi P, Demirkiran G, McClellan RT, **Ames CP**. *Integrity of "damage control" posterior spinal fusion constructs for poly-trauma patients: A biomechanical investigation.* Spine (Phila Pa 1976). 2015 Jul 17. [Epub ahead of print]. PMID: 26192728
228. Maggio D, Ailon TT, Smith JS, Shaffrey CI, Lafage V, Schwab F, Haid RW Jr, Protopsaltis T, Klineberg E, Scheer JK, Bess S, Arnold PM, Chapman J, Fehlings MG, **Ames C**; AOSpine North America; International Spine Study Group. *Assessment of impact of standing long-cassette radiographs on surgical planning for lumbar pathology: an international survey of spine surgeons.* J Neurosurg Spine. 2015 Jul 31:1-8. Journal of Neurosurgery: Spine Nov 2015 / Vol. 23 / No. 5, Pages 581-588. PMID: 26230421
229. Soroceanu A, Burton DC, Diebo BG, Smith JS, Hostin R, Shaffrey CI, Boachie-Adjei O, Mundis GM Jr, **Ames C**, Errico TJ, Bess S, Gupta MC, Hart RA, Schwab FJ, Lafage V; International Spine Study Group. *Impact of obesity on complications, infection, and patient-reported outcomes in adult spinal deformity surgery.* J Neurosurg Spine. 2015 Jul 31:1-9. Journal of Neurosurgery: Spine Nov 2015 / Vol. 23 / No. 5, Pages 656-664. PMID: 26230419
230. **Ames CP**, Smith JS, Eastlack R, Blaskiewicz DJ, Shaffrey CI, Schwab F, Bess S, Kim HJ, Mundis GM Jr, Klineberg E, Gupta M, O'Brien M, Hostin R, Scheer JK, Protopsaltis TS, Fu KG, Hart R, Albert TJ, Riew KD, Fehlings MG, Deviren V, Lafage V; International Spine Study Group. *Reliability assessment of a novel cervical spine deformity classification system.* J Neurosurg Spine. 2015 Aug 14:1-11. [Epub ahead of print]. PMID: 26273762
231. Safaee M, Parsa AT, Barbaro NM, Chou D, Mummaneni PV, Weinstein PR, Tihan T, **Ames CP**. *Association of tumor location, extent or resection, and neurofibromatosis status with clinical outcomes for 221 spinal nerve sheath tumors.* Neurosurg Focus. 2015 Aug;39(2):E5. doi: 10.3171/2015.5.FOCUS15183. PMID: 26235022

232. Scheer JK, Hostin RA, Schwab F, Robinson C, Lafage V, Burton DC, Hart R, Kelly MP, Keefe M, Polly DW, Bess S, Shaffrey CI, Smith JS, **Ames CP**; International Spine Study Group. *170 Operative Management of Adult Spinal Deformity Results in Significant Increases in QALYs Gained Compared With Nonoperative Management: Analysis of 479 Patients With Minimum 2-Year Follow-up*. *Neurosurgery*. 2015 Aug;62 Suppl 1:222. doi: 10.1227/01.neu.0000467134.43267.d9. PMID: 26182016
233. Liu S, Lafage R, Smith JS, Protosaltis TS, Lafage VC, Challier V, Shaffrey CI, Radcliff K, Arnold PM, Chapman JR, Schwab FJ, Massicotte EM, Yoon ST, Fehlings MG, **Ames CP**. *Impact of dynamic alignment, motion, and center of rotation on myelopathy grade and regional disability in cervical spondylotic myelopathy*. *J Neurosurg Spine*. 2015 Aug 28:1-11. *Journal of Neurosurgery: Spine Dec 2015 / Vol. 23 / No. 6, Pages 690-700*. PMID: 26315953
234. Protosaltis T.S, Scheer J.K., Terran J., Smith J.S., Hamilton K.D., Kim H.J., Mundis G., Hart R., McCarthy I.M., Klineberg, E., Lafage V., Bess S., Schwab F., Shaffrey C.I., **Ames C.P.**, ISSG. *How the Neck affects the Back: Changes in Regional Cervical Sagittal Alignment Correlate to HRQL Improvement in Adult Thoracolumbar Deformity Patients at 2 Year Follow up*. *Journal of Neurosurgery: Spine, Journal of Neurosurgery: Spine Aug 2015 / Vol. 23 / No. 2, Pages 153-158*
235. Liu S, Tetreault L, Fehlings MG, Challier V, Smith JS, Shaffrey CI, Arnold PM, Scheer JK, Chapman JR, Kopjar B, Protosaltis TS, Lafage V, Schwab F, Massicotte EM, Yoon ST, **Ames CP**. *A Novel Method Using Baseline Normalization and Area Under the Curve to Evaluate Differences in Outcome Between Treatment Groups and Application to Patients with Cervical Spondylotic Myelopathy Undergoing Anterior Versus Posterior Surgery*. *Spine (Phila Pa 1976)*. 2015 Sep 1. [Epub ahead of print]. PMID: 26335673
236. Spiegel MA, Lafage R, Lafage V, Ryan D, Marascalchi B, Trimba Y, **Ames C**, Harris B, Tanzi E, Oren J, Vira S, Errico T, Schwab F, Protosaltis TS. *Developing the Total Disability Index Based on an Analysis of the Interrelationships and Limitations of ODI and NDI*. *Spine (Phila Pa 1976)*. 2015 Sep 1. [Epub ahead of print]. PMID: 26335678
237. Scheer JK, Passias PG, Soroceanu AM, Boniello AJ, Mundis GM Jr, Klineberg E, Kim HJ, Protosaltis TS, Gupta M, Bess S, Shaffrey CI, Schwab F, Lafage V, Smith JS, **Ames CP**; International Spine Study Group. *Association between preoperative cervical sagittal deformity and inferior outcomes at 2-year follow-up in patients with adult thoracolumbar deformity: analysis of 182 patients*. *J Neurosurg Spine*. 2015 Sep 11:1-8. *Journal of Neurosurgery: Spine Jan 2016 / Vol. 24 / No. 1, Pages 108-115*. PMID: 26360147
238. Soroceanu A, Diebo BG, Burton D, Smith JS, Deviren V, Shaffrey C, Kim HJ, Mundis G, **Ames C**, Errico T, Bess S, Hostin R, Hart R, Schwab F, Lafage V; International Spine Study Group. *Radiographical and Implant-Related Complications in Adult Spinal Deformity Surgery: Incidence, Patient Risk Factors, and Impact on Health-Related Quality of Life*. *Spine (Phila Pa 1976)*. 2015 Sep 15;40(18):1414-21. doi: 10.1097/BRS.0000000000001020. PMID: 26426712.

239. Winkler EA, Rowland NC, Yue JK, Birk H, Ozpinar A, Tay B, Ames CP, Mummaneni PV, El-Sayed IH. *A tunneled subcricoid approach cervical spine reoperation: technical and safety results*. *World Neurosurg*. 2015 Sep 23. pii: S1878-8750(15)01191-2. doi: 10.1016/j.wneu.2015.09.028. [Epub ahead of print]. PMID: 26409079
240. Smith J.S., Shaffrey C.I., Lafage V., Schwab F., Scheer J.K., Protopsaltis T., Klineberg E., Gupta M., Hostin R., Fu K.G., Mundis G.M., Kim H.J., Deviren V., Soroceanu A., Hart R., Burton D.C., Bess S., Ames C.P., ISSG. *Comparison of Best versus Worst Clinical Outcomes for Adult Spinal Deformity Surgery: A Prospective, Multi-Center Assessment with Two-Year Follow-Up*. *Journal of Neurosurgery: Spine*, Published online June 5, 2015; DOI: 10.3171/2014.12.SPINE14777. *Sep 2015 / Vol. 23 / No. 3 / Pages 349-359*. Published online June 5, 2015; DOI: 10.3171/2014.12.SPINE14777.
241. Ailon T, Smith JS, Shaffrey CI, Lenke LG, Brodke D, Harrop JS, Fehlings M, Ames CP. *Degenerative Spinal Deformity*. *Neurosurgery*. 2015 Oct;77 Suppl 4:S75-91. doi: 10.1227/NEU.0000000000000938. PMID: 26378361
242. Ha Y, Oh JK, Smith JS, Ailon T, Fehlings MG, Shaffrey CI, Ames CP. *Impact of Movement Disorders on Management of Spinal Deformity in the Elderly*. *Neurosurgery*. 2015 Oct; 77 Suppl 4:S173-85. doi: 10.1227/NEU.0000000000000940. PMID: 26378355
243. Iyer S, Nemani VM, Nguyen J, Elysee J, Burapachaisri A, Ames CP, Kim HJ. *The Impact of Cervical Sagittal Alignment Parameters On Neck Disability*. *Spine (Phila Pa 1976)*. 2015 Oct 15. [Epub ahead of print] PMID: 26571157
244. Bess S, Line B, Fu KM, McCarthy I, Lafage V, Schwab F, Shaffrey C, Ames C, Akbarnia B, Jo H, Kelly M, Burton D, Hart R, Klineberg E, Kebaish K, Hostin R, Mundis G, Mummaneni P, Smith JS; International Spine Study Group. *THE HEALTH IMPACT OF SYMPTOMATIC ADULT SPINAL DEFORMITY: COMPARISON OF DEFORMITY TYPES TO UNITES STATES POPULATION NORMS AND CHRONIC DISEASES*. *Spine (Phila Pa 1976)*. 2015 Oct 15. [Epub ahead of print]. PMID: 26571174
245. Daniels AH, Smith JS, Hiratzka J, Ames CP, Bess S, Shaffrey CI, Schwab FJ, Lafage V, Klineberg EO, Burton D, Mundis GM, Line B, Hart RA; International Spine Study Group (ISSG). *Functional Limitations Due to Lumbar Stiffness in Adults With and Without Spinal Deformity*. *Spine (Phila Pa 1976)*. 2015 Oct 15;40(20):1599-604. Doi: 10.1097/BRS.0000000000001090. PMID: 26731705
246. Liu S, Diebo B, Henry JK, Smith JS, Hostin R, Cunningham ME, Mundis G, Ames CP, Burton D, Bess S, Akbarnia B, Hart R, Passias PG, Schwab FJ, Lafage V; International Spine Study Group (ISSG). *The benefit of non-operative treatment for adult spinal deformity: identifying predictors for reaching a minimal clinically important difference*. *Spine J*. 2015 Oct 30. Pii: S1529-9430(15)01628-9. doi: 10.1016/j.spinee.2015.10.043. [Epub ahead of print].

PMID: 26523966

247. Smith JS, Lafage V, Shaffrey CI, Schwab F, Lafage R, Hostin R, O'Brien M, Boachie-Adjei O, Akbarnia BA, Mundis GM, Errico T, Kim HJ, Protosaltis TS, Hamilton DK, Scheer JK, Sciubba D, Ailon T, Fu KG, Kelly MP, Zebala L, Line B, Klineberg E, Gupta M, Deviren V, Hart R, Burton D, Bess S, **Ames CP**; International Spine Study Group. *Outcomes of Operative and Nonoperative Treatment for Adult Spinal Deformity: A Prospective, Multicenter, Propensity-Matched Cohort Assessment With Minimum 2-Year Follow-up*. Neurosurgery. 2015 Nov 16. [Epub ahead of print]. PMID: 26579966
248. Verma K, Kohan E, **Ames CP**, Cruz DL, Deviren V, Berven S, Errico TJ. *A Comparison of Two Different Dosing Protocols for Tranexamic Acid in Posterior Spinal Fusion for Spinal Deformity: A Prospective, Randomized Trial*. Int J Spine Surg. 2015 Nov 19;9:65. doi: 10.14444/2065. eCollection 2015. PMID: 26767157
249. Ramchandran S, Smith JS, Ailon T, Klineberg E, Shaffrey C, Lafage V, Schwab F, Bess S, Daniels A, Scheer JK, Protosaltis TS, Arnold P, Haid RW Jr, Chapman J, Fehlings MG, **Ames CP**; AOSpine North America, International Spine Study Group. *Assesment of Impact of Long-Cassette Standing X-Ray on Surgical Planning for Cdrvical Pathology: An Internationalk Survey of Spine Surgeons*. Neurosurgery. 2015 Nov 23. [Epub ahead of print]. PMID: 26619335.
250. Gupta MC, Ferrero E, Mundis G, Smith JS, Shaffrey CI, Schwab F, Kim HJ, Boachie-Adjei O, Lafage V, Bess S, Hostin R, Burton DC, **Ames CP**, Kebaish K, Klineberg E; International Spine Study Group. *Pedicle Subtraction Osteotomy in the Revision Versus Primary Adult Spinal Deformity Patient: Is There a Difference in Correction and Complications?* Spine (Phila 1976). 2015 Nov;40(22):E1169-75. Doi: 10.1097/BRS.0000000000001107. PMID: 26730526
251. Bertrand Moal, PhD, Virginie Lafage, PhD, Justin S. Smith, MD, PhD, **Christopher P. Ames, MD**, Gregory Mundis, MD, Jamie S. Terran, BS, Eric Klineberg, MD, Robert Hart, MD, Oheneba Boachie-Adjel, MD, Shay Bess, MD, Wafa Skalli, PhD, Frank Schwab, MD International Spine Stusy Group. *Clinical Improvement Through Surgery for Adult Spinal Deformity: What Can Be Expected and Who Is Likely to Benefit Most?* DOI: 10.1016/j.jspd.2015.04.004. Spine Deformity. November 2015. Volume 3, Issue 6, Pages 566–574
252. Daniel M. Sciubba, MD, Alp Yurter, BS, Justin S. Smith, MD, PhD, Michael P. Kelly, MD, Justin K. Scheer, BS, C. Rory Goodwin, MD, PhD, Virginie Lafage, PhD, Robert A. Hart, MD, Shay Bess, MD, Khaled Kebaish, MD, Frank Schwab, MD, Christopher I. Shaffrey, MD, **Christopher P. Ames, MD**, The International Spine Study Group (ISSG). *A Comprehensive Review of Complication Rates After Surgery for Adult Deformity: A Reference for Informed Consent*. DOI: 10.1016/j.jspd.,2015.04.0055. Spine Deformity. November 2015. Volume 3, Issue 6, Pages 575–594

253. Buckland AJ, Vigdorichik J, Schwab FJ, Errico TJ, Lafage R, Ames C, Bess S, Smith J, Mundis GM, Lafage V. *Acetabular Anteversion Changes Due to Spinal Deformity Correction: Bridging the Gap Between Hip and Spine Surgeons*. J Bone Joint Surg Am. 2015 Dec 2;97(23):1913-20. doi: 10.2106/JBJS.O.00276. PMID: 26631991.
254. Lau D, Funao H, Clark AJ, Nicholls F, Smith J, Bess S, Shaffrey C, Schwab FJ, Lafage V, Deviren V, Hart R, Kebaish KM, Ames CP; International Spine Study Group. *The Clinical Correlation of the Hart-ISSG Proximal Junctional Kyphosis Severity Scale with Health Related Quality of Life Outcomes and Need for Revision Surgery*. Spine (Phila Pa 1976). 2015 Dec 3. [Epub ahead of print]. PMID: 26641842
255. Moon BJ, Smith JS, Ames CP, Shaffrey CI, Lafage V, Schwab F, Matsumoto M, Baik JS, Ha Y. *Prevalence and type of cervical deformities among adults with Parkinson's disease: a cross-sectional study*. J Neurosurg Spine. 2015 Dec 11:1-8. [Epub ahead of print]. PMID: 26654338.
256. Klinebeg EO, Passias PG, Jalai CM, Worley N, Sciubba DM, Burton DC, Gupta MC, Soroceanu A, Zebala LP, Mundis GM Jr, Kim HJ, Hamilton DK, Hart RA, Ames CP, Lafage V; International Spine Study Group. *Predicting Extended Length of Hospital Stay in an Adult Spinal Deformity Surgical Population*. Spine (Phila Pa 1976). 2015 Dec 14. [Epub ahead of print]. PMID: 26679876.
257. Ames C, Gammal I, Matsumoto M, Hosogane N, Smith JS, Protosaltis T, Yamato Y, Matsuyama Y, Taneichi H, Lafage R, Ferrero E, Schwab FJ, Lafage V. *Geographic and Ethnic Variations in Radiographic Disability Thresholds: Analysis of North American and Japanese Operative Adult Spinal deformity Populations*. Neurosurgery. 2015 Dec 17. [Epub ahead of print]. PMID: 26692107
258. Christopher P. Ames, MD, Justin S. Smith, MD, PhD, Robert Eastlack, MD, Donald J. Blaskiewicz, MD, Christopher I. Shaffrey, MD, Frank Schwab, MD, Shay Bess, MD, Han Jo Kim, MD, Gregory M. Mundis Jr., MD, Eric Klineberg, MD, Munish Gupta, MD, Michael O'Brien, MD, Richard Hostin, MD, Justin K. Scheer, BS, Themistocles S. Protosaltis, MD, Kai-Ming G. Fu, MD, Robert Hart, MD, Todd J. Albert, MD, K. Daniel Riew, MD, Michael G. Fehlings, MD, PhD, Vedat Deviren, MD, Virginie Lafage, PhD, and International Spine Study Group. *Reliability assessment of a novel cervical spine deformity classification system*. Journal of Neurosurgery: Spine. Dec 2015/Vol. 23/No. 6/Pages 673-683.
259. Christopher Ames, MD, Vincent C. Traynelis, MD, Alexander R. Vaccaro. *Introduction. Dynamic stabilization of the spine*. Neurosurg Focus. 2016 Jan;40(1):E1. Doi: 10.3171/2015.10.FOCUS15539. Jan 2016/Vol. 40/No. 1/Page E1. PMID: 26721575.

260. Lafage R, Schwab F, Challier V, Henry JK, Gum J, Smith J, Hostin R, Shaffrey C, Kim HJ, Ames C, Scheer J, Klineberg E, Bess S, Burton D, Lafage V; International Spine Study Group. *Defining Spino-Pelvic Alignment Thresholds: Should Operative Goals in Adult Spinal Deformity Surgery Account for Age?* Spine (Phila Pa 1976). 2016 Jan;41(1):62-8. doi: 10.1097/BRS.0000000000001171. PMID: 26689395
261. Saeed M, Oh T, Barbaro NM, Chou D, Mummaneni PV, Weinstein PR, Tihan T, Ames CP. *Results of spinal fusion after spinal nerve sheath tumor resection.* World Neurosurg 2016 Jan 20. pii: S1878-8750(16)00094-2. doi: 10.1016/j.wneu.2016.01.015. [Epub ahead of print]. No abstract available. PMID: 26802866
262. Lenke LG, Fehlings MG, Shaffrey CI, Cheung KM, Carreon L, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Kebaish KM, Ames CP, Qiu Y, Matsuyama Y, Dahl BT, Mehdian H, Pellisé-Urquiza F, Lewis SJ, Berven SH. *Neurologic Outcomes of Complex Adult Spinal Deformity Surgery: Results of the Prospective, Multicenter Scolio-RISK-1 Study.* Spine (Phila PA 1976). 2016 Feb;41(3):204-12. Doi: 10-1097/BRS.0000000000001338. PMID: 26866736
263. Smith JS, Klineberg E, Lafage V, Shaffrey CI, Schwab F, Lafage R, Hostin R, Mundis GM Jr, Errico TJ, Kim HJ, Protopsaltis TS, Hamilton DK, Scheer JK, Soroceanu A, Kelly MP, Line B, Gupta M, Deviren V, Hart R, Burton DC, Bess S, Ames CP; International Spine Study Group. *Prospective multicenter assessment of perioperative and minimum 2-year postoperative complication rates associated with adult spinal deformity surgery.* J Neurosurg Spine. 2016 Feb 26:1-14. Published online February 26, 2016; DOI: 10.3171/2015.11.SPINE151036. Posted online on February 26, 2016. PMID: 26918574
264. Bess S, Protopsaltis TS, Lafage V, Lafage R, Ames CP, Errico T, Smith JS; International Spine Study Group. *Clinical and Radiographic Evaluation of Adult Spinal Deformity.* J Spinal Disord Tech. 2015 Dec 24. Clin Spine Surg. 2016 Feb;29(1):6-16. doi: 10.1097/BSD.0000000000000352. PMID: 26710188
265. Jain A, Lafage V, Kelly MP, Hassanzadeh H, Neuman BJ, Sciubba DM, Bess S, Shaffrey CI, Ames CP, Scheer JK, Burton D, Gupta MC, Hart R, Hostin RA, Kebaish KM; International Spine Study Group. *Validity, Reliability, and Responsiveness of SRS-7 as an Outcomes Assessment Instrument for Operatively Treated Patients with Adult Spinal Deformity.* Spine (Phila POa 1976). 2016 Feb 29. [Epub ahead of print]. PMID: 26937607
266. Passias PG, Klineberg EO, Jalai CM, Worley N, Poorman GW, Line B, Oh C, Burton DC, Kim HJ, Sciubba DM, Hamilton DK, Ames CP, Smith JS, Shaffrey CI, Lafage V, Bess S. *Hospital Readmission within Two Years Following Adult Thoracolumbar Spinal Deformity Surgery: Prevalence, Predictors, and Effect on Patient-Derived Outcome Measures.* Spine (Phila Pa 1976). 2016 Mar 8. [Epub ahead of print]. PMID: 26967123

267. Diebo BG, Lafage R, Ames CP, Bess S, Obeid I, Klineberg E, Cunningham ME, Smith JS, Hostin R, Liu S, Passias PG, Schwab FJ, Lafage V; International Spine Study Group. *Ratio of Lumbar 3-column osteotomy closure: patient-specific deformity characteristics and level of resection impact correction of truncal versus pelvic compensation.* Eur Spine J. 2016 Mar 22. [Epub ahead of print]. PMID: 27002615
268. Scheer JK, Osorio JA, Smith JS, Schwab F, Lafage V, Hart RA, Bess S, Line B, Diebo BG, Protosaltis TS, Jain A, Ailon T, Burton DC, Shaffrey CI, Klineberg E, Ames CP; and the International Spine Study Group. *Development of Validated Computer Based Pre-operative Predictive Model for Proximal Junction Failure (PJF) or Clinically Significant PJK with 86% Accuracy Based on 510 ASD Patients with 2-year Follow-up.* Spine (Phila Pa 1976). 2016 Apr 1. [Epub ahead of print]. PMID: 27046638
269. Demirkiran G, Theologis AA, Pekmezci M, Ames C, Deviren V. *Adult Spinal Deformity Correction with Multi-level Anterior Column Releases: Description of a New Surgical Technique and Literature Review.* Clin Spine Surg. 2016 Apr 1. [Epub ahead of print]. PMID: 270440020
270. Passias PG, Soroceanu A, Yang S, Schwab F, Ames C, Boniello A, Smith J, Shaffrey C, Boachie-Adjei O, Mundis G, Burton D, Klineberg E, Hart R, Hamilton DK, Sciubba DM, Bess S, Lafage V. *Predictors of Revision Surgical Procedure Excluding Wound Complications in Adult Spinal Deformity and Impact on Patient Reported Outcomes and Satisfaction: A Two-Year Follow-up.* J Bone Joint Surg. Am. 2016 Apr 6;98(7):536-43. doi: 10.2106/JBJS.14.01126. PMID: 27053581
271. Hostin R, Robinson C, O'Brien M, Ames C, Schwab F, Smith JS, Lafage V, Gupta M, Hart R, Burton D, Bess S, Shaffrey C, McCarthy I. *A Multicenter Comparison of Inpatient Resource Use for Adult Spinal Deformity Surgery.* Spine (Phila Pa 1976). 2016 Apr;41(7):603-9. Doi: 10.1097/BRS.0000000000001280. PMID: 27014953
272. Demirkiran G, Theologis AA, Pekmezci M, Ames C, Deviren V. *Adult Spinal Deformity Correction with Multi-level Anterior Column Releases: Description of a New Surgical Technique and Literature Review.* Clin Spine Surg. 2016 Apr 1. [Epub ahead of print]. PMID: 27044020
273. Scheer JK, Hostin R, Robinson C, Schwab F, Lafage V, Burton DC, Hart RA, Kelly MP, Keefe M, Polly D, Bess S, Shaffrey CI, Smith JS, Ames CP; and the international Spine Study Group. *Operative Management of Adult Spinal Deformity Results in Significant Increases in QALYs Gained Compared to Non-operative Management: Analysis of 479 patients with Minimum 2-year Follow-up.* Spine (Phila Pa 1976). 2016 Apr 11. [Epub ahead of print]. PMID: 27253084

274. Smith JS, Klineberg E, Shaffrey CI, Lafage V, Schwab FJ, Protopsaltis T, Scheer JK, Ailon T, Ramachandran S, Daniels A, Mundis G, Gupta M, Hostin R, Deviren V, Eastlack R, Passias P, Hamilton DK, Hart R, Burton DC, Bess S, **Ames CP**; International Spine Study Group. *Assessment of surgical Treatment Strategies for Moderate to Severe Cervical Spinal Deformity Reveals Marked Variation in Approaches, Osteotomies and Fusion Levels*. *World Neurosurg*. 2016 Apr 13. pii: S1878-8750(16)30093-6. doi: 10.1016/j.wneu.2016.04.020. [Epub ahead of print]. PMID: 27086260
275. Soroceanu A, Burton DC, Oren JH, Smith JS, Hostin R, Shaffrey CI, Akbarnia BA, **Ames CP**, Errico TJ, Bess S, Gupta MC, Deviren V, Schwab FJ, Lafage V; International Spine Study Group. *Medical Complications after Adult Spinal Deformity Surgery: Incidence, Risk factors, and Clinical Impact*. *Spine (Phila Pa 1976)*. 2016 Apr 19. [Epub ahead of print]. PMID: 27105460
276. Passias PG, Oh C, Jalai CM, Worley N, Lafage R, Scheer JK, Klineberg EO, Hart RA, Kim HJ, Smith JS, Lafage V, **Ames CP**; International Spine Study Group (ISSG). *Predictive Model for Cervical Alignment and Malalignment Following Surgical Correction of Adult Spinal Deformity*. *Spine (Phila Pa 1976)*. 2016 Apr 19. [Epub ahead of print]. PMID: 27105461
277. Lau D, Chan AK, Theologis AA, Chou D, Mummaneni PV, Burch S, Deviren V, **Ames C**. *Costs and readmission rates for the resection of primary and metastatic spinal tumors: a comparative analysis of 181 patients*. *J Neurosurg Spine*. 2016 Apr 29: 1-13. [Epub ahead of print]. PMID: 27129043
278. Kuo CC, Martin A, Telles C, Leasure J, Iezza A, **Ames C**, Kondrashov D. *Biomechanical demands on posterior fusion instrumentation during lordosis restoration procedures*. *J Neurosurg Spine*. 2016 May 6: 1-7. [Epub ahead of print]. PMID: 27153144
279. Theologis AA, Ailon T, Scheer JK, Smith JS, Shaffrey CI, Bess S, Gupta M, Klineberg EO, Kebaish K, Schwab F, Lafage V, Burton D, Hart R, **Ames CP**; International Spine Study Group. *Impact of preoperative depression on 2-year clinical outcomes following adult spinal deformity surgery: the importance of risk stratification based on type of psychological distress*. *J Neurosurg Spine*. 2016 May 6: 1-9. [Epub ahead of print]. PMID: 27153146
280. Diebo BG, Gammal I, Ha Y, Yoon SH, Chang JW, Kim B, Matsumoto M, Yamato Y, Takeuchi D, Hosogane N, Yagi M, Taneichi H, Schwab F, Lafage V, **Ames C**; International Spine Study Group (ISSG). *Role of Ethnicity in Alignment Compensation Propensity Matched Analysis of Differential Compensatory Mechanism Recruitment Patterns for Sagittal Malalignment in 288 ASD Patients from Japan, Korea and the United States*. *Spine (Phila Pa 1976)*. 2016 Jun 17 [Epub ahead of print]. PMID: 27323222
281. Sterom RG, Bae J, Mizutsani J, Valone F 3rd, **Ames CP**, Deviren V. *Lateral interbody fusion combined with open posterior surgery for adult spinal deformity*. *J Neurosurg Spine*. 2016 Jun 24: 1-9. [Epub ahead of print]. PMID: 27341052

282. Kim HJ, Iyer S, Zebala LP, Kelly MP, Sciubba D, Protosaltis TS, Gupta M, Neuman BJ, Mundis GM, Ames CP, Smith JS, Hart R, Burton D, Klineberg EO; International Spine Study Group (ISSG). *Perioperativen Neurologic Complications in Adult Spinal Deformity Surgery: Incidence and Risk factors in 564 Patients*. Spine (Phila Pa 1976). 2016 Jul 7. [Epub ahead of print]. PMID: 27398890
283. Soroceanu A, Oren JH, Smith JS, Hostin R, Shaffrey CI, Mundis GM, Ames CP, Burton DC, Bess S, Gupta MC, Deviren V, Schwab FJ, Lafage V, Errico TJ. *Effect of Antifibrinolytic Therapy on Complications, Thromboembolic Events, Blood Product Utilization, and Fusion in Adult Spinal Deformity Surgery*. Spine (Phila Pa 1976). 2016 Jul 15;41(14):E879-86. doi: 10.1097/BRS.0000000000001454. PMID: 27398796
284. Protosaltis T, Bronsard N, Soroceanu A, Henry JK, Lafage R, Smith J, Klineberg E, Mundis G, Kim HJ, Hostin R, Hart R, Shaffrey C, Bess S, Ames C; International Spine Study Group. *Cervical sagittal deformity develops after PJK in adult thoracolumbar deformity correction: radiographic analysis utilizing a novel global sagittal angular parameter, the CTPA*. Eur Spine J. 2016 Jul 20. [Epub ahead of print]. PMID: 27437690
285. Safee MM, Lyon R, Barbaro NM, Chou D, Mummaneni PV, Weinstein PR, Chin CT, Tihan T, Ames CP. *Neurological outcomes and surgical complications in 221 spinal nerve sheath tumors*. J Neurosurg Spine. 2016 Jul 29:1-9. [Epub ahead of print]. PMID: 27472744
286. Ames CP, *Erratum: Expandable cylindrical cages in the cervical spine: a review of 22 cases*. J Neurosurg Spine. 2016 Jul 29:1. [Epub ahead of print] No abstracts available. PMID: 27472745
287. Christopher P. Ames, Justin K. Scheer, Virginie Lafage, Justin S. Smith, Shay Bess, SDigurd H. Berven, Gregory M. Mundis, Rajiv K. Sethi, Donald A. Deinlein, Jeffery D. Coe, Lloyd A. Hey, Michael D. Daubs. *Adult Spinal Deformity: Epidemiology, Health Impact, Evaluation, and Management*. Spine Deformity, Vol. 4, Issue 4, p310-322. Published in issue: July 2016.
288. Tamir Ailon, Justin K. Scheer, Virginie Lafage, Frank J. Schwab, Eric Klineberg, Daniel M. Sciubba, Themistocles S. Protosalties, Lukas Zebala, Richard Hostin, Ibrahim Obeid, Tyler Koski, Michael P. Kelly, Shay Bess, Christopher I. Shaffrey, Justin S. Smith, Christopher P. Ames. *Adult Spinal Deformity Surgeons Are Unable to Accurately Predict Postoperative Spinal Alignment Using Clinical Judgment Alone*. Spine Deformity, Vol. 4, Issue 4, p323-329. Published in issue: July 2016.
289. Scheer JK, Ailon TT, Smith JS, Hart R, Burton DC, Bess S, Neuman BJ, Passias PG, Miller E, Shaffrey CI, Schwab F, Lafage V, Klineberg E, Ames CP. *Predictive Modeling of Length of Hospital Stay Following Adult Spinal Deformity Correction: Analysis of 653 Patients With an Accuracy of 75% Within 2 Days*. Neurosurgery. 2016 Aug;63 Suppl 1:166-7. doi: 10.1227/01.neu.0000489735.46846.2b. PMID: 27399445

290. Scheer JK, Hey L, LaGrone M, Daubs M, Ames CP. *Results of the 2015 SRS Survey on Single Versus Two Attending Surgeon Approach for Adult Spinal Deformity Surgery*. *Neurosurgery*. 2016 Aug;63 Suppl 1:201. doi: 10.122/01.neu.0000489832.09131.d2. PMID: 27399541
291. Altaf F., Weber M, Dea N, Boriani S, Ames C, Williams R, Verlaan JJ, Laufer I, Fisher CG. *An Evidence-Based Review and Survey of Expert Opinion of Reconstruction of Metastatic Spine Tumors*. *Spine (Phila Pa 1976)*. 2016 Aug 3. [Epub ahead of print]. PMID: 27488293
292. Gum JL, Hostin RT, Robinson C, Kelly MP, Carreon LY, Polly DW, Bess RS, Burton DC, Shaffrey CI, Smith JS, LaFage V, Schwab FJ, Ames CP, Glassman SD; International Spine Study Group. *Impact of cost valuation on cost-effectiveness in adult spine deformity surgery*. *Spine J*. 2016 Aug 11. pii: S1529-9430(16)30881-6. doi: 10.1016/j.spinee.2016.08.020. [Epub ahead of print]
293. Theologis AA, Miller L, Callahan M, Lau D, Zygorakis C, Scheer JK, Burch S, Pekmezci M, Chou D, Tay B, Mummaneni P, Berven S, Deviren V, Ames CP. *The Economic Impact of Revision Surgery for Proximal Junctional Failure after Adult Spinal Deformity Surgery: A Cost Analysis of 57 Operations in A 10-Year Experience at a Major Deformity Center*. *Spine (Phila Pa 1976)*. 2016 Feb 18. [Epub ahead of print] 2016 Aug 15;41(16):E964-E972. PMID: 26909838
294. Bakhsheshian J, Scheer JK, Gum JL, Hostin R, Lafage V, Bess S, Protosaltis TS, Burton DC, Keefe MK, Hart RA, Mundis GM Jr, Shaffrey CI, Schwab F, Smith JS, Ames CP; International Spine Study Group. *Impact of poor mental health in adult spinal deformity patients with poor physical function: a retrospective analysis with a 2-year follow-up*. *J Neurosurg Spine*. 2016 Aug 19:1-9. [Epub ahead of print]. PMID: 27541847
295. Jalai CM, Passias PG, Lafage V, Smith JS, Lafage R, Poorman GW, Diebo B, Liabaud B, Neuman BJ, Scheer JK, Shaffrey CI, Bess S, Schwab F, Ames CP. *A comparative analysis of the prevalence and characteristics of cervical malalignment in adults presenting with thoracolumbar spine deformity based on variations in treatment approach over 2 years*. *Eur Spine J*. 2016 Aug;25(8):2423-32. doi: 10.1007/s00586-016-4564-7. Epub 2016 Apr 13. PMID: 27076049
296. Osorio JA, Scheer JK, Ames CP. *Predictive modeling of complications*. *Curr Rev Musculoskelet Med*. 2016 Jun 10. [Epub ahead of print] Review. *Curr Rev Musculoskelet Med*. 2016 Sep;9(3):333-7. doi: 10.1007/s12178-016-9354-7. Review. PMID: 27286683
297. Smith JS, Ramchandran S, Lafage V, Shaffrey CI, Ailon T, Klineberg E, Protosaltis T, Schwab FJ, O'Brien M, Hostin R, Gupta M, Mundis G, Hart R, Kim HJ, Passias P, Scheer JK, Deviren V, Burton DC, Eastlack R, Bess S, Albert TJ, Riew KD, Ames CP, International Spine Study Group. *Prospective Multicenter Assessment of Early Complication Rates Associated With Adult Cervical Deformity Surgery in 78 Patients*. *Neurosurgery*. 2015 Nov 19. [Epub ahead of print]. *Neurosurgery*. 2016 Sep;79(3):378-388. PMID: 26595429

298. Weber MH, Fortin M, Shen J, Tay B, Hu SS, Berven S, Chou D, Ames C, Deviren V. *Graft Subsidence and Revision Rates Following Anterior Cervical Corpectomy: A Clinical Study Comparing Different Interbody Cages*. Clin Spine Surg. 2016 Sep 10. [Epub ahead of print]. PMID: 27623304
299. Daniels AH, Koller H, Hirazka SL, Mayer M, Meier O, Contag AG, Eltorai AE, Hiratzka J, Kojo Hamilton D, Shaffrey CI, Smith JS, Bess S, Klineberg EO, Ames CP, Lafage V, Line B, Schwab FJ, Hart RA, Group IS. *Selecting caudal fusion levels: 2 year functional and stiffness outcomes with matched pairs analysis in multilevel fusion to L5 versus S1*. Eur Spine J. 2016 Sep 27 [Epub ahead of print]. PMID: 27679430
300. Harris BY, Roth MF, Diebo BG, Bess S, Theologis AA, Scheer JK, Schwab FJ, Lafage V, Ames CP, Hodes R, Ayanga J, Boachie-Adjei O; International Spine Study Group. *Investigating the Universality of Preoperative Health-Related Quality of Life (HRQoL) for Surgically Treated Spinal Deformity in Young Adults: A Propensity Score-Matched Comparison Between African and US Populations*. Spine Deform. 2016 Sep;4(5). 351-357. doi: 10.1016/j.jspd.2016.03.006. PMID: 27927492
301. Dea N, Charest-Morin R, Sciubba DM, Bird JE, Disch AC, Mesfin A, Lazary A, Fisher CG, Ames C. *Optimizing the Adverse Event and HRQOL Profiles in the Management of Primary Spine Tumors*. Spine (Phila Pa 1976). 2016 Oct 15;41 Suppl 20:S212-S217. PMID: 27753783
302. Theologis AA, Mundis GM Jr, Nguyen S, Okonko DO, Mummaneni PV, Smith JS, Shaffrey CI, Fessler R, Bess S, Schwab F, Diebo BG, Burton D, Hart R, Deviren V, Ames C; for the International Spine Study Group. *Utility of multilevel lateral interbody fusion of the thoracolumbar coronal curve apex in adult deformity surgery in combination with open posterior instrumentation and L5-S1 interbody fusion: a case-matched evaluation of 32 patients*. J Neurosurg Spine. 2016 Oct 21: 1-12. [Epub ahead of print]. PMID: 27767682
303. Keefe MK, Zygorakis CC, Theologis AA, Canepa E, Shaw JD, Goldman LH, Burch S, Berven S, Chou D, Tay B, Mummaneni P, Deviren V, Ames CP. *Sexual function after cervical spine surgery: Independent predictors of functional impairment*. J Clin Neurosci. 2016 Nov 4. pii: S0967-5868(16)30590-2. doi: 10.1016/j.jocn.2016.10.017. [Epub ahead of print]. PMID: 27825608
304. Scheer JK, Osorio JA, Smith JS, Schwab F, Lafage V, Hart RA, Bess S, Line B, Diebo BG, Protopsaltis TS, Jain A, Ailon T, Burton DC, Shaffrey CI, Klineberg E, Ames CP; International Spine Study Group. *Development of Validated Computer-based Preoperative Predictive Model for Proximal Junction Failure (PJF) or Clinically Significant PJK With 86% Accuracy Based on 510 ASD Patients With 2-year Follow-up*. Spine (Phila Pa 1976). 2016 Nov 15;41(22):E1328-E1335. PMID: 27831987

305. Moal B, Lafage V, Smith JS, Ames CP, Mundis G, Terran JS, Klineberg E, Hart R, Boachie-Adjei O, Bess S, Skalli W, Schwab F; International Spine Study Group. *Clinical Improvement Through Surgery for Adult Spinal Deformity: What Can Be Expected and Who Is Likely to Benefit Most?* Spine Deform. 2015 Nov;3(6):566-574. doi: 10.1016/j.jspd.2015.04.004. PMID: 27927560
306. Sciubba DM, Yurter A, Smith JS, Kelly MP, Scheer JK, Goodwin CR, Lafage V, Hart RA, Bess S, Kebaish K, Schwab F, Shaffrey CI, Ames CP; International Spine Study Group (ISSG). *A Comprehensive Review of Complication Rates After Surgery for Adult Deformity: A Reference for Informed Consent.* Spine Deform. 2015 Nov;3(6):575-594. Doi: 10.1016/j.jspd.2015.04.005. PMID: 27927561
307. Bakhshexhian J, Scheer JK, Gum JL, Horner L, Hostin R, Lafage V, Bess S, Protopsaltis TS, Burton DC, Keefe M, Hart RA, Mundis GM, Shaffrey CI, Schwab F, Smith JS, Ames CP; International Spine Study Group (ISSG). *Comparison of Structural Disease Burden to Health-related Quality of Life Scores in 264 Adult Spinal Deformity Patients With 2-Year Follow-up: Novel insights into Drivers of Disability.* Clin Spine Surg. 2016 Nov 21. [Epub ahead of print]. PMID: 27875416
308. Hart RA, Hiratzka J, Kane MS, Lafage V, Klineberg E, Ames CP, Line BG, Schwab F, Scheer JK, Bess S, Hamilton DK, Shaffrey CI, Mundis G, Smith JS, Burton DC, Sciubba DM, Deviren V, Boachie-Adjei O; International Spine Study Group. *Stiffness after Pan-Lumbar Arthrodesis for Adult Spinal Deformity Does Not Significantly Impact Patient Functional Status or Satisfaction Irrespective of Proximal Endpoint.* Spine (Phila Pa 1976). 2016 Nov 29. [Epub ahead of print]. PMID: 27902557
309. Theologis AA, Bellevue KD, Qamirani E, Ames CP, Deviren V. *Asymmetric C7 pedicle subtraction osteotomy for correction of rigid cervical coronal imbalance secondary to post-traumatic heterotopic ossification: a case report, description of a novel surgical technique, and literature review.* Eur Spine J. 2016 Dec 28. doi: 10.1007/s00586-016-4931-4. [Epub ahead of print]. PMID: 28032224
310. Gum JL, Hostin R, Robinson C, Kelly MP, Carreon LY, Polly DW, Bess RS, Burton DC, Shaffrey CI, Smith JS, Lafage V, Schwab FJ, Ames CP, Glassman SD; International Spine Study Group. *Impact of cost valuation on cost-effectiveness in adult spine deformity surgery.* Spine J. 2017 Jan;17(1):96-101. doi: 10.1016/j.spinee.2016.08.020. PMID: 27523283
311. McClelland S 3rd, Baker JF, Smith JS, Line BG, Errico TJ, Ames CP, Bess RS. *Impact of Parkinson's disease on perioperative complications and hospital cost in multilevel spine fusion: A population-based analysis.* J Clin Neurosci. 2017 Jan;35:88-91. doi: 10.1016/j.jocn.2016.10.008. PMID: 27765561
312. Oh T, Lafage V, Protopsaltis T, Challier V, Shaffrey C, Kim HJ, Arnold P, Chapman J, Schwab F, Massicotte E, Yoon T, Bess S, Fehlings M, Smith J, Ames C. *Comparing Quality of Life in Cervical Spondylotic Myelopathy with Other Chronic Debilitating Diseases Using the SF-36 Survey.* World Neurosurg. 2017 Jan 5. pii: S1878-8750(16)31439-5. doi: 10.1016/j.wneu.2016.12.124. [Epub

- ahead of print. PMID: 28065875
313. Gomez JA, Lafage V, Scuibba DM, Bess S, Mundis GM Jr, Liabaud B, Hanstein R, Shaffrey C, Kelly M, Ames C, Smith JS, Passias PG, Errico T, Schwab F; International Spine Study Group. *Adult Scoliosis Deformity Surgery: Comparison of Outcomes Between 1 vs. 2 Attending Surgeons*. *Spine (Phila Pa 1976)*. 2017 Jan 16. doi: 10.1097/BRS.0000000000002071. [Epub ahead of print]. PMID: 28098740
 314. De la Garza Ramos R, Goodwin CR, Elder BD, Boah AO, Miller EK, Jain A, Klineberg EO, Ames CP, Neuman BJ, Kebaish KM, Lafage V, Schwab F, Bess S, Scuibba DM. *Preoperative functional status as a predictor of short-term outcome in adult spinal deformity surgery*. *J Clin Neurosci*. 2017 Jan 20. pii: S0967-5868(16)31045-1. doi: 10.1016/j.jocn.2016.12.039. [Epub ahead of print]. PMID: 281177262.
 315. Zygourakis C, Sizzdahkhani S, Keefe M, Lee J, Chou D, Mummaneni P, Ames CP. *Comparison of Patient Outcomes and Cost of Overlapping versus Non-overlapping Spine Surgery*. *World Neurosurg*. 2017 Jan 27. pii: S1878-8750(17)30087-6. doi: 10.1016/j.wneu.2017.01.064. [Epub ahead of print] No abstract available. PMID: 28137549
 316. Lafage R, Bess S, Glassman S, Ames C, Burton D, Hart R, Kim HJ, Klineberg E, Henry J, Line B, Scheer J, Protosaltis T, Schwab F, Lafage V. *Virtual Modeling of Postoperative Alignment Following Adult Spinal Deformity (ASD) Surgery Helps Predict associations between Compensatory Spinopelvic Alignment Changes, Overcorrection and Proximal Junctional Kyphosis (PJK)*. *Spine (Phila Pa 1976)*. 2017 Feb 9. doi: 10.1097/BRS.0000000000002116. [Epub ahead of print]. PMID: 28187069
 317. Theologis AA, Jain D, Ames CP, Pekmezci M. *Circumferential fusion for degenerative lumbar spondylolisthesis complicated by distal junctional grade 4 spondylolisthesis in the sub-acute post-operative setting*. *Eur Spine J*. 2017 Feb 15. doi: 10.1007/s00586-017-4976-z. [Epub ahead of print]. PMID: 28204925
 318. Diebo BG, Gammal I, Ha Y, Yoon SH, Chang JW, Kim B, Matsumoto M, Yamato Y, Takeuchi D, Hosogane N, Yagi M, Taneichi H, Schwab F, Lafage V, Ames C; International Spine Study Group (ISSG). *Role of Ethnicity in Alignment Compensation: Propensity Matched Analysis of Differential Compensatory Mechanism Recruitment Patterns for Sagittal Malalignment in 288 ASD Patients From Japan, Korea, and United States*. *Spine (Phila Pa 1976)*. 2017 Feb 15;42(4):E234-E240. doi: 10.1097/BRS.0000000000001744. PMID: 28207663
 319. Smith JS, Shaffrey CI, Klineberg E, Lafage V, Schwab F, Lafage R, Kim HJ, Hostin R, Mundis GM Jr, Gupta M, Liabaud B, Scheer JK, Diebo BG, Protosaltis TS, Kelly MP, Deviren V, Hart R, Burton D, Bess S, Ames CP; , on behalf of the International Spine Study Group.. *Complication rates associated with 3-column osteotomy in 82 adult spinal deformity patients: retrospective review of a prospectively collected multicenter consecutive series with 2-year follow-up*. *J Neurosurg Spine*. 2017 Feb 17:1-14. doi: 10.3171/2016.10.SPINE16849. [Epub ahead of print]. PMID: 28291402

320. Theologis AA, Safaee M, Scheer JK, Lafage V, Hostin R, Hart RA, Klineberg EO, Protosaltis TS, Deviren V, Burton DC, Sciubba DM, Kebaish K, Bess S, Shaffrey CI, Schwab F, Smith JS, **Ames CP**; International Spine Study Group (ISSG). *Magnitude, Location, and Factors Related to Regional and Global Sagittal Alignment Change in Long Adult Deformity Constructs: Report of 183 Patients With 2-Year Follow-up*. Clin Spine Surg. 2017 Feb 20. doi: 10.1097/BSD.0000000000000503. [Epub ahead of print]. PMID: 28225365
321. Scheer JK, Bakhsheshian J, Keefe MK, Lafage V, Bess S, Protosaltis TS, Burton DC, Hart RA, Shaffrey CI, Schwab F, Smith JS, Smith ZA, Koski TR, **Ames CP**. *Initial Experience With Real-Time Continuous Physical Activity Monitoring in Patients Undergoing Spine Surgery*. Clin Spine Surg. 2017 Feb 23. doi: 10.1097/BSD.0000000000000521. [Epub ahead of print]. PMID: 28234773
322. Barry JJ, Yucekul A, Theologis AA, Hansen EN, **Ames C**, Deviren V. *Spinal Realignment for Adult Deformity: Three-column Osteotomies Alter Total Hip Acetabular Component Positioning*. J Am Acad Orthop Surg. 2017 Feb;25(2):125-132. doi: 10.5435/JAAOS-D-16-00080. PMID: 28033151
323. Smith JS, Shaffrey CI, Bess S, Shamji MF, Brodke D, Fehlings MG, Lafage V, Schwab F, Vaccaro AR, **Ames CP**. *Recent and Emerging Advances in Spinal Deformity*. Neurosurgery. 2017 Mar 1;80(3S):S70-S85. doi: 10.1093/neuros/nyw048. PMID: 28350940
324. Lafage R, Schwab F, Glassman S, Bess S, Harris B, Sheer J, Hart R, Line B, Henry J, Burton D, Kim H, Klineberg E, **Ames C**, Lafage V; ISSG. *Age-adjusted Alignment Goals Have the Potential to Reduce PJK*. Spine (Phila Pa 1976). 2017 Mar 3. doi: 10.1097/BRS.0000000000002146. [Epub ahead of print]. PMID: 28263226
325. Carreon LY, Glassman SD, Shaffrey CI, Fehlings MG, Dahl B, **Ames CP**, Matsuyama Y, Qiu Y, Mehdian H, Cheung KM, Schwab FJ, Pellisé F, Kebaish KM, Lenke LG. *Predictors of Health-Related Quality-of-Life After Complex Adult Spinal Deformity Surgery: A Scolio-RISK-1 Secondary Analysis*. Spine Deform. 2017 Mar;5(2):139-144. doi: 10.1016/j.jspd.2016.11.001. PMID: 28259266
326. Jain A, Kebaish KM, Sciubba DM, Hassanzadeh H, Scheer JK, Neuman BJ, Lafage V, Bess S, Protosaltis TS, Burton DC, Smith JS, Shaffrey CI, Hostin RA, **Ames CP**; International Spine Study Group. *Early Patient-Reported Outcomes Predict 3-Year Outcomes in Operatively Treated Patients with Adult Spinal Deformity*. World Neurosurg. 2017 Mar 10. pii: S1878-8750(17)30315-7. doi: 10.1016/j.wneu.2017.03.003. [Epub ahead of print]. PMID: 28288920
327. Zygourakis CC, Liu CY, Wakam G, Moriates C, Boscardin C, **Ames CP**, Mummaneni PV, Ratliff J, Dudley RA, Gonzales R. *Geographic and Hospital Variation in Cost of Lumbar Laminectomy and Lumbar Fusion for Degenerative Conditions*. Neurosurgery. 2017 Mar 10. doi: 10.1093/neuros/nyx047. [Epub ahead of print]. PMID: 28327960

328. Rutkowski MJ, Birk HS, Wood MD, Perry A, Nicolaides T, Ames CP, Gupta N. *Metastatic clival chordoma: a case report of multiple extraneurological metastases following resection and proton beam radiotherapy in a 5-year old boy.* J Neurosurg Pediatr. 2017 Mar 17:1-7. doi: 10.3171/2017.1.PEDS16549. [Epub ahead of print]. PMID: 28304223
329. Scheer JK, Smith JS, Schwab F, Lafage V, Shaffrey CI, Bess S, Daniels AH, Hart RA, Protosaltis TS, Mundis GM Jr, Sciubba DM, Ailon T, Burton DC, Klineberg E, Ames CP; International Spine Study Group. *Development of a preoperative model for major complications following adult spinal deformity surgery.* J Neurosurg Spine. 2017 Mar 24:1-8. doi: 10.3171/2016.10.SPINE16197. [Epub ahead of print]. PMID: 28338449
330. Smith JS, Line B, Bess S, Shaffrey CI, Kim HJ, Mundis G, Scheer JK, Klineberg E, O'Brien M, Hostin R, Gupta M, Daniels A, Kelly M, Gum JL, Schwab FJ, Lafage V, Lafage R, Ailon T, Passias P, Protosaltis T, Albert TJ, Riew KD, Hart R, Burton D, Deviren V, Ames CP, Group IS. *The Health Impact of Adult Cervical Deformity in Patients Presenting for Surgical Treatment: Comparison to United States Population Norms and Chronic Disease States Based on the EuroQuol-5 Dimensions Questionnaire.* Neurosurgery. 2017 Mar 24. doi: 10.1093/neuros/nyx028. [Epub ahead of print]. PMID: 28368524
331. Smith JS, Shaffrey CI, Lafage R, Lafage V, Schwab FJ, Kim HJ, Scheer JK, Protosaltis T, Passias P, Mundis G, Hart R, Neuman B, Klineberg E, Hostin R, Bess S, Deviren V, Ames CP; ISSG. *Three-column osteotomy for correction of cervical and cervicothoracic deformities: alignment changes and early complications in a multicenter prospective series of 23 patients.* Eur Spine J. 2017 Mar 30. doi: 10.1007/s00586-017-5071-1. [Epub ahead of print]. PMID: 28361367
332. Zygourakis CC, Sizdahkhani S, Keefe M, Lee J, Chou D, Mummaneni PV, Ames CP. *Comparison of Patient Outcomes and Cost of Overlapping Versus Nonoverlapping Spine Surgery.* World Neurosurg. 2017 Apr;100:658-664.e8. mdoi: 10.1016/j.wneu.2017.01.064. Epub 2017 Jan 27. PMID: 28137549
333. Jahangiri A, Chin AT, Wagner JR, Kunwar S, Ames C, Chou D, Barani I, Parsa AT, McDermott MW, Benet A, El-Sayed IH, Aghi MK. *In Reply: Factors Predicting Recurrence After Resection of Clival Chordoma Using Variable Surgical Approaches and Radiation Modalities.* Neurosurgery. 2017 Apr 4. doi: 10.1093/neuros/nyx137. [Epub ahead of print] No abstract available. PMID: 28379552
334. Ames CP, Clark AJ, Kanter AS, Arnold PM, Fehlings MG, Mroz TE, Riew KD. *Hypoglossal Nerve Palsy After Cervical Spine Surgery.* Global Spine J. 2017 Apr;7(1 Suppl):37S-39S. doi: 10.1177/2192568216687307. Epub 2017 Apr 1. PMID: 38451489
335. Scheer JK, Keefe M, Lafage V, Kelly MP, Bess S, Burton DC, Hart RA, Jain A, Lonner BS, Protosaltis TS, Hostin R, Shaffrey CI, Smith JS, Schwab F, Ames CP. *Importance of patient reported individualized goals when assessing outcomes for adult spinal deformity (asd): initial experience with a patient generated index*

- (PGI). *Spine J.* 2017 Apr 13. Pii: S1529- 9430(17)30147-X. doi: 10.1016/j.spinee.2017.04.013. [Epub ahead of print]. PMID: 28414170
336. Lafage R, Line BG, Gupta S, Liabaud B, Schwab F, Smith JS, Gum JL, Ames CP, Hostin R, Mundis GM Jr, Kim HJ, Bess S, Klineberg E, Lafage V; and International Spine Study Group (ISSG). *Orientation of the Upper-Most Instrumented Segment Influences Proximal Junctional Disease Following Adult Spinal Deformity Surgery.* *Spine (Phila Pa 1976).* 2017 Apr 24. doi: 10.1097/BRS.0000000000002191. [Epub ahead of print]. PMID: 28441306
 337. Nicholls FH, Bae J, Theologis AA, Eksi MS, Ames CP, Berven SH, Burch S, Tay BK, Deviren V. *Factors Associated With the Development of and Revision for Proximal Junctional Kyphosis in 440 Consecutive Adult Spinal Deformity Patients.* *Spine (Phila Pa 1976).* 2017 Apr 24. doi: 10.1097/BRS.0000000000002209. [Epub ahead of print]. PMID: 28441308
 338. Kelley MP, Lenke LG, Godzik J, Pellise F, Shaffrey CI, Smith JS, Lewis SJ, Ames CP, Carreon LY, Fehlings MG, Schwab F, Shimer AL. *Retrospective analysis underestimates neurological deficits in complex spinal deformity surgery: a Scolio-RISK-1 Study.* *J Neurosurg Spine.* 2017 May 5:1-6. doi: 10.3171/2016.12.SPINE161068. [Epub ahead of print]. PMID: 28475019
 339. Zygourakis CC, Liu CY, Keefe M, Moriates C, Ratliff J, Dudley RA, Gonzales R, Mummaneni PV, Ames CP. *Analysis of National Rates, Cost, and Sources of Cost Variation in Adult Spinal Deformity.* *Neurosurgery.* 2017 May 9. doi: 10.1093/neuros/nyx218. [Epub ahead of print]. PMID: 28486687
 340. Passias PG, Horn SR, Jalai CM, Poorman G, Bono OJ, Ramchandran S, Smith JS, Scheer JK, Sciubba DM, Hamilton DK, Mundis G, Oh C, Klineberg EO, Lafage V, Shaffrey CI, Ames CP; International Spine Study Group. *Comparative analysis of peri-operative complications between a multicenter prospective cervical deformity database and the nationwide inpatient sample database.* *Spine J.* 2017 May 17. pii: S1529-9430(17)30210-3. doi: 10.1016/j.spinee.2017.05.018. [Epub ahead of print]. PMID: 28527757
 341. Goldshmidt E, Angriman F, Agarwal N, Zhou J, Chen K, Tempel ZJ, Gerszten PC, Kanter AS, Okonkwo DO, Passias P, Scheer J, Protosaltis T, Lafage V, Lafage R, Schwab F, Bess S, Ames C, Smith JS, Shaffrey CI, Miller E, Jain A, Neuman B, Sciubba DM, Burton D, Hamilton DK; International Spine Study Group (ISSG). *A Novel Tool for Deformity Surgery Planning: Determining the Magnitude of Lordotic Correction Required to Achieve a Desired Sagittal Vertical Axis.* *World Neurosurg.* 2017 May 24. pii: S1878-8750(17)30785-4. doi: 10.1016/j.wneu.2017.05.086. [Epub ahead of print]. PMID: 28552696
 342. Liu CY, Zygourakis CC, Yoon S, Kliot T, Moriates C, Ratliff J, Dudley RA, Gonzales R, Mummaneni PV, Ames CP. *Trends in Utilization and Cost of Cervical Spine Surgery Using the National Inpatient Sample Database, 2001-2013.* *Spine (Phila Pa 1976).* 2017 May 29. doi: 10.1097/BRS.0000000000001999. [Epub ahead of print]. PMID: 28562473

343. Passias PG, Jalai CM, Smith JS, Lafage V, Diebo BG, Protosaltis T, Poorman G, Ramchandran U, Bess H, Shaffrey CI, Ames CP, Schwab F; International Spine Study Group. *Characterizing Adult Cervical Deformity Based on Existing Cervical and Adult Deformity Classification Schemes at Presentation and Following Correction*. Neurosurgery. 2017 May 30. doi: 10.1093/neuros/nyx175. [Epub ahead of print]. PMID: 28575457
344. Tabaraee E, Mummaneni P, Abdul-Jabber A, Shearer D, Roy E, Amin B, Ames C, Burch S, Deviren V, Berven S, Hu S, Chou D, Tay BK. *A Comparison of Implants Used in Open-Door Laminoplasty: Structural Rib Allografts Versus Metallic Miniplates*. Clin Spine Surg. 2017 Jun;30(5):E523-E529. doi: 10.1097/BSD.000000000000139. PMID: 28525472
345. Neuman BJ, Ailon T, Scheer JK, Klineberg E, Sciubba DM, Jain A, Zebala LP, Passias PG, Daniels AH, Burton DC, Protosaltis TS, Hamilton DK, Ames CP. *Development and Validation of a Novel Adult Spial Deformity Surgical Invasiveness Score: Analysis of 464 Patients*. Neurosurgery. 2017 Jun 6. doi: 10.1093/neuros/nyx303. [Epub ahead of print]. PMID: 28586476
346. McClelland S 3rd, Baker JF, Smith JS, Line BG, Hart RA, Ames CP, Bess RS. *Complications and operative spine fusion construct length in Parkinson's disease: A nationwide population-based analysis*. J Clin Neurosci. 2017 Jun 6. pii: S0967-5868(16) /j.jocn.2017.05.006. [Epub ahead of print]. PMID: 28599840
347. Mizutani J, Verma K, Endo K, Ishii K, Abumi K, Yagi M, Hosogane N, Yang J, Tay B, Deviren V, Ames C. *Global Spine Alignment in Cervical Kyphotic Deformity: The Importance of Head Position and Thoracolumbar Alignment in the Compensatory Mechanism*. Neurosurgery. . 2017 Jun 7. doi: 10.1093/neuros/nyx288. [Epub ahead of print]. PMID: 28591781
348. Scheer JK, Sethi RK, Hey LA, LaGrone MO, Keefe M, Aryan HE, Errico TJ, Deviren V, Hart RA, Lafage V, Schwab F, Daubs MD, Ames CP; and the SRS Adult Spinal Deformity Committee. *Results of 2015 Scoliosis Research Society Survey on Single Versus Dual Attending Surgeon Approach for Adult Deformity Surgery*. Spine (Phila Pa 1976). 2017 Jun 15;42(12):932-942. doi: 10.1097/BRS.0000000000002070. PMID: 28609324
349. Vasudevan HN, Raleigh DR, Johnson J, Garsa AA, Theodosopoulos PV, Aghi MK, Ames C, McDermott MW, Barani IJ, Braunstein SE. *Management of Chordoma and Chondrosarcoma with Fractionated Stereotactic Radiotherapy*. Front Surg. 2017 23;4:35. doi: 10.3389/fsurg.2017.00035.eCollection 2017. PMID: 28691010
350. Protosaltis TS, Lafage R, Vira S, Sciubba D, Soroceanu A, Hamilton K, Smith J, Passias PG, Mundis G, Hart R, Schwab F, Klineberg E, Shaffrey C, Lafage V, Ames C; International Spine Study group. *Novel Angular Measures of Cervical Deformity Account for Upper Cervical Compensation and Sagittal Alignment*. Clin Spine Surg. 2017 Jun 23. doi: 10.1097/BSD.000000000000554. [Epub ahead of print] PMID: 28650879

351. Pellisé F, Vila-Casademunt A, Núñez-Pereira S, Domingo-Sàbat M, Bagó J, Vidal X, Alanay A, Acaroglu E, Kleinstück F, Obeid I, Pérez-Grueso FJS, Lafage V, Bess S, Ames C, Mannion AF; European Spine Study Group. *The Adult Deformity Surgery Complexity Index (ADSCI): a Valid Tool to Quantify the Complexity of Posterior Adult Spinal Deformity Surgery and Predict Postoperative Complications*. Spine J. 2017 Jul 3. pii: S1529-9430(17)30316-9. doi: 10.1016/j.spinee.2017.06.042. [Epub ahead of print]. PMID: 28684347
352. Gum JL, Carreon LY, Kelly MP, Hostin R, Robinson C, Burton DC, Polly DW, Shaffrey CI, LaFage V, Schwab FJ, Ames CP, Kim HJ, Smith JS, Bess RS; International Spine Study Group. *Cell Saver for Adult Spinal Deformity Surgery Reduces Cost*. Spine Deform. 2017 Jul;5(4):272-276. doi: 10.1016/j.jspd.2017.01.005. PMID: 28622903
353. Gupta S, Eksi MS, Ames CP, Deviren V, Durbin-Johnson B, Smith JS, Gupta MC. *A Novel 4-Rod Technique Offers Potential to Reduce Rod Breakage and Pseudarthrosis in Pedicle Subtraction Osteotomies for Adult Spinal Deformity Correction*. Oper Neurosurg (Hagerstown). 2017 Jul 7. doi: 10.1093/ons/opx151. [Epub ahead of print]. PMID: 28973658
354. Diebo BG, Lafage V, Varghese JJ, Gupta M, Kim HJ, Ames C, Kebaish K, Shaffrey C, Hostin R, Obeid I, Burton D, Hart RA, Lafage R, Schwab FJ. *After 9 Years of 3-Column Osteotomies, Are We Doing Better? Performance Curve Analysis of 573 Surgeries With 2-Year Follow-up*. Neurosurgery. 2017 Jul 21. doi: 10.1093/neuros/nyx338. [Epub ahead of print]. PMID: 28973410
355. Protopsaltis TS, Lafage R, Smith JS, Passias PG, Shaffrey CI, Kim HJ, Mundis GM, Ames CP, Burton DC, Bess S, Klineberg E, Hart RA, Schwab FJ, Lafage V; International Spine Study Group. *The Lumbar Pelvic Angle (LPA), the Lumbar Component of the T1 Pelvic Angle, Correlates with HRQOL, PI-LL Mismatch and it Predicts Global Alignment*. Spine (Phila Pa 1976). 2017 Jul 24. doi: 10.1097/BRS.0000000000002346. [Epub ahead of print]. PMID: 28742755
356. Passias PG, Jalai CM, Lafage V, Lafage R, Protopsaltis T, Ramchandran S, Horn SR, Poorman GW, Gupta M, Hart RA, Deviren V, Soroceanu A, Smith JS, Schwab F, Shaffrey CI, Ames CP. *Primary Drivers of Adult Cervical Deformity: Prevalence, Variations in Presentation, and Effect of Surgical Treatment Strategies on Early Postoperative Alignment*. Neurosurgery. 2017 Aug 5. doi: 10.1093/neuros/nyx438. [Epub ahead of print]. PMID: 28950349.
357. Yagi M, Ames CP, Keefe M, Hosogane N, Smith JS, Shaffrey CI, Schwab F, Lafage V, Shay Bess R, Matsumoto M, Watanabe K; International Spine Study Group (ISSG). *A cost-effectiveness comparisons of adult spinal deformity surgery in the United States and Japan*. Eur Spine J. 2017 Aug 23. doi: 10.1007/s00586-017-5274-5. [Epub ahead of print]. PMID: 28836012
358. Baker JF, McClelland S 3rd, Line BG, Smith JS, Hart RA, Ames CP, Shaffrey C, Bess S. *In-hospital Complications Following Lumbar Spine Surgery in Patients with Parkinson's Disease: Evaluation of the National Inpatient Sample Database*. World Neurosurg. 2017 Oct; 106: 470-476. doi: 10.1016/j.wneu.2017.07.006. Epub 2017 Jul 12. PMID: 28711540

359. Leung JM, Sands LP, Chen N, Ames C, Berven S, Bozic K, Burch S, Chou D, Covinsky K, Deviren V, Kinjo S, Kramer JH, Ries M, Tay B, Vail T, Weinstein P, Chang S, Meckler G, Newman S, Tsai T, Voss V, Youngblom E; Perioperative Medicine Research Group. *Perioperative Gabapentin Does Not Reduce Postoperative Delirium in Older Surgical Patients: A Randomized Clinical Trial*. *Anesthesiology*. 2017 Oct; 127(4):633-644. doi: 10.1097/ALN.0000000000001804. PMID: 28727581
360. Hamilton DK, Buza JA 3rd, Passias P, Jalai C, Kim HJ, Ailon T, Gupta M, Sciubba D, Jain A, Ames CP, Deviren V, Daniels A, Lafage V, Bess S, Klineberg E, Shaffrey CI, Smith JS, Hart R; Study Group. *The Fate of Patients with Adult Spinal Deformity (ASD) Patients Incurring Rod Fracture After Thoracolumbar Fusion*. *World Neurosurg*. 2017 Oct; 106:905-911. doi: 10.1016/j.wneu.2017.07.061. Epub 2017 Jul 20. PMID: 28735127
361. Safaee MM, Osorio JA, Verma K, Bess S, Shaffrey CI, Smith JS, Hart R, Deviren V, Ames CP. *Proximal Junctional Kyphosis Prevention Strategies: A Video Technique Guide*. *Oper Neurosurg (Hagerstown)*. 2017 Oct 1;13(5): 581-585. doi: 10.1093/ons/oxp054. PMID: 28922883
362. Passias PG, Jalai CM, Lafage V, Poorman GW, Vira S, Horn SR, Scheer JK, Hamilton DK, Line BG, Bess S, Schwab FJ, Ames CP, Burton DC, Hart RA, Klineberg EO. *Recovery Kinetics of Radiographic and Implant-Related Revision Patients Following Adult Spinal Deformity Surgery*. *Neurosurgery*. 2017 Oct 6. doi: 10.1093/neuros/nyx490. [Epub ahead of print]. PMID: 29029213
363. Scheer JK, Lafage R, Schwab FJ, Liabaud B, Smith JS, Mundis GM, Hostin R, Shaffrey CI, Burton DC, Hart RA, Kim HJ, Bess S, Gupta M, Lafage V, Ames CP; International Spine Study Group. *Under-Correction of Sagittal Deformities Based on Age-Adjusted Alignment Thresholds Leads to Worse HRQOL While Over-Correction Provides No Additional Benefit*. *Spine (Phila Pa 1976)*. 2017 Oct 9. doi: 10.1097/BRS.0000000000002435. [Epub ahead of print]. PMID: 29016433
364. Passias PG, Horn SR, Jalai CM, Ramchandran S, Poorman GW, Kim HJ, Smith JS, Sciubba D, Soroceanu A, Ames CP, Hamilton DK, Eastlack R, Burton D, Gupta M, Bess S, Lafage V, Schwab F. *Cervical Alignment Changes in Patients Developing Proximal Junctional Kyphosis Following Surgical Correction of Adult Spinal Deformity*. *Neurosurgery*. 2017 Oct 12. doi: 10.1093/neuros/nyx479. [Epub ahead of print]. PMID: 29040759.
365. Nguyen J, Chu B, Kuo CC, Leasure JM, Ames C, Kondrashov D. *Changes in foraminal area with anterior decompression versus keyhole foraminotomy in the cervical spine: a biomechanical investigation*. *J Neurosurg Spine*. 2017 Oct 13:1-7. doi: 10.3171/2017.2.SPINE141237. [Epub ahead of print]. PMID: 29027895
366. Miller EK, Ailon T, Neuman BJ, Klineberg EO, Mundis GM Jr, Sciubba DM, Kebaish KM, Lafage V, Scheer JK, Smith JS, Hamilton DK, Bess S, Shaffrey CI, Ames CP; International Spine Study Group. *Assessment of a novel Adult Cervical Deformity Frailty Index as a Component of Preoperative Risk*

- Stratification*. World Neurosurg. 2017 Oct 26. pii: S1878-8750(17)31820-X. doi: 10.1016/j.wneu.2017.10.092. [Epub ahead of print]. PMID: 29107159
367. Ferrero E, Liabaud B, Henry JK, Ames CP, Kebaish K, Mundis GM, Hostin R, Gupta MC, Boachie-Adjei O, Smith JS, Hart RA, Obeid I, Diebo BG, Schwab FJ, Lafage V. *Sagittal alignment and complications following lumbar 3-column osteotomy: does the level of resection matter?* J Neurosurg Spine. 2017 Nov; 27(5):560-569. doi: 10.3171/2017.3.SPINE16357. Epub 2017 Sep 8. PMID: 28885128
 368. Bae J, Theologis AA, Strom R, Tay B, Burch S, Berven S, Mummaneni PV, Chou D, Ames CP, Deviren V. *Comparative analysis of 3 surgical strategies for adult spinal deformity with mild to moderate sagittal imbalance*. J Neurosurg Spine. 2017 Nov 3:1-10. doi: 10.3171/2017.5.SPINE161370. [Epub ahead of print]. PMID: 29087808
 369. Kato S, Fehlings MG, Lewis SJ, Lenke LG, Shaffrey CI, Cheung KMC, Carreon L, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Kebaish KM, Ames CP, Qiu Y, Matsuyama Y, Dahl BT, Mehdian H, Pellisé F, Berven SH. *An Analysis of the Incidence and Outcomes of Major vs. Minor Neurological Decline after Complex Adult Deformity Surgery: A Sub-analysis of Scolio-Risk-1 Study*. Spine (Phila Pa 1976). 2017 Nov 10. doi: 10.1097/BRS.0000000000002486. [Epub ahead of print]. PMID: 29135883
 370. Ramchandran S, Protosaltis TS, Sciubba D, Scheer JK, Jalai CM, Daniels A, Passias PG, Lafage V, Kim HJ, Mundis G, Klineberg E, Hart RA, Smith JS, Shaffrey C, Ames CP; International Spine Study Group. *Prospective multi-Centric evaluation of upper cervical and infra-cervical sagittal compensatory alignment in patients with adult cervical deformity*. Eur Spine J. 2017 Nov 28. doi: 10.1007/s00586-017-5395-x. [Epub ahead of print]. PMID: 29185112
 371. Hart RA, Rastegar F, Contag A, Kane M, Daniels A, Klineberg E, Eastlack R, Smith JS, Hostin R, Hamilton DK, Gum JL, Burton DC, Sheer JK, Ames C, Schwab F, Lafage V, Bess S, Shaffrey C, Kebaish K; and the International Spine Study Group. *Inter- and Intra-rater Reliability of the Hart-ISSG Proximal Junctional Failure Severity Scale*. Spine (Phila Pa 1976). 2017 Nov 20. doi: 10.1097/BRS.0000000000002498. [Epub ahead of print]. PMID: 29189643
 372. Oh T, Scheer JK, Smith JS, Hostin R, Robinson C, Gum JL, Schwab F, Hart RA, Lafage V, Burton DC, Bess S, Protosaltis T, Klineberg EO, Shaffrey CI, Ames CP; International Spine Study Group. *Potential of predictive computer models for preoperative computer models for preoperative patient selection to enhance overall quality-adjusted life years gained at 2-year follow-up: a simulation in 234 patients with adult spinal deformity*. Neurosurg Focus. 2017 Dec;43(6):E2. doi: 10.3171/2017.9.FOCUS17494. PMID: 29191094
 373. Bumpass DB, Lenke LG, Gum JL, Shaffrey CI, Smith JS, Ames CP, Bess S, Neuman BJ, Klineberg E, Mundis GM Jr, Schwab F, Lafage V, Kim HJ, Burton DC, Kebaish KM, Hostin R, Lafage R, Kelly MP; International Spine Study Group. *Male sex may not be associated with worse outcomes in primary all-posterior adult spinal deformity: a multicenter analysis*. Neurosurg Focus. 2017 Dec;43(6):E9. doi: 10.3171/2017.9.FOCUS17475. PMID: 29191095

374. Shaffrey CI, Smith JS, Ames CP, Yagi M, Alanay A, Ha Y. *Introduction. Adult spinal deformity*. Neurosurg Focus. 2017 Dec;43(6):E1. doi: 10.3171/2017.9.FOCUS17599. No abstract available. PMID: 29191097
375. Miller EK, Neuman BJ, Jain A, Daniels AH, Ailon T, Sciubba DM, Kebaish KM, Lafage V, Scheer JK, Smith JS, Bess S, Shaffrey CI, Ames CP; International Spine Study Group. *An assessment of frailty as a tool for risk stratification in adult spinal deformity surgery*. Neurosurg Focus. 2017 Dec;43(6):E3. doi: 10.3171/2017.10.FOCUS17472. PMID: 29191099
376. Poorman GW, Passias PG, Horn SR, Frangella NJ, Daniels AH, Hamilton DK, Kim H, Sciubba D, Diebo BG, Bortz CA, Segreto FA, Kelly MP, Smith JS, Neuman BJ, Shaffrey CI, LaFage V, LaFage R, Ames CP, Hart R, Mundis GM Jr, Eastlack R; International Spine Study Group. *Despite worse baseline status depressed patients achieved outcomes similar to those in nondepressed patients after surgery for cervical deformity*. Neurosurg Focus. 2017 Dec;43(6):E10. doi: 10.3171/2017.8.FOCUS17486. PMID: 29191101
377. Lau D, Chan AK, Deviren V, Ames CP. *Does prior spine surgery or instrumentation affect surgical outcomes following 3-column osteotomy for correction of thoracolumbar deformities?* Neurosurg Focus. 2017 Dec;43(6):E8. doi: 10.3171/2017.8.FOCUS17460. PMID: 29191104
378. Kelly MP, Kim HJ, Ames CP, Burton DC, Carreon LY, Polly DW Jr, Hostin R, Jain A, Gum JL, Lafage V, Schwab FJ, Shaffrey CI, Smith JS, Bess S; International Spine Study Group. *Minimum Detectable Measurement Difference (MDMD) for Health Related Quality of Life (HRQL) Measures Varies According Age and Disability in Adult Spinal Deformity (ASD): Implications for Calculating Minimal Clinically Important Difference (MCID)*. Spine (Phila Pa 1976). 2017 Dec 5. doi: 10.1097/BRS.0000000000002519. [Epub ahead of print]. PMID: 29215503
379. Protosaltis TS, Ramchandran S, Hamilton K, Sciubba D, Passias PG, Lafage V, Lafage R, Smith JS, Hart RA, Gupta M, Burton D, Bess S, Shaffrey C, Ames CP; International Spine Study Group (ISSG). *Analysis of Successful vs. Failed Radiographic Outcomes following Cervical Deformity Surgery*. Spine (Phila Pa 1976). 2017 Dec 8. doi: 10.1097/BRS.0000000000002524. [Epub ahead of print]. PMID: 29227365.
380. Passias PG, Bortz C, Horn S, Segreto F, Poorman G, Jalai C, Daniels A, Hamilton DK, Kim HJ, Sciubba D, Smith JS, Neuman B, Shaffrey C, Lafage V, Protosaltis T, Ames C, Hart R, Mundis G, Eastlack R. *Drivers of Cervical Deformity Have a Strong Influence on Achieving Optimal Radiographic and Clinical Outcomes at 1 year Following Cervical Deformity Surgery*. World Neurosurg. 2017 Dec 14. pii: S1878-8750(17)32140-X. doi: 10.1016/j.wneu.2017.12.024. [Epub ahead of print]. PMID: 29248781

381. Ailon T, Smith JS, Shaffrey CI, Kim HJ, Mundis G, Gupta M, Klineberg E, Schwab F, Lafage V, Lafage R, Passias P, Protosaltis T, Neuman B, Daniels A, Scheer JK, Soroceanu A, Hart R, Hostin R, Burton D, Deviren V, Albert TJ, Riew KD, Bess S, **Ames CP**; International Spine Study Group. *Outcomes of Operative Treatment for Adult Cervical Deformity: A Prospective Multicenter Assessment With 1-Year Follow-up*. Neurosurgery. 2017 Dec 21. doi: 10.1093/neuros/nyx574. [Epub ahead of print]. PMID: 2928107
382. Challier V, Henry JK, Liu S, **Ames C**, Kebaish K, Obeid I, Hostin R, Gupta M, Boachie-Adjei O, Smith JS, Mundis G, Bess S, Schwab F, Lafage V; International Spine Study Group. *Complication Rates and Maintenance of Correction After 3-Column Osteotomy in the Elderly: Report of 55 Patients With 2-Year Follow-up*. Neurosurgery. 2017 Dec 21. doi: 10.1093/neuros/nyx580. [Epub ahead of print]. PMID: 29281113
383. Ailon T, Smith JS, Shaffrey CI, Kim HJ, Mundis G, Gupta M, Klineberg E, Schwab F, Lafage V, Lafage R, Passias P, Protosaltis T, Neuman B, Daniels A, Scheer JK, Soroceanu A, Hart R, Hostin R, Burton D, Deviren V, Albert TJ, Riew KD, Bess S, **Ames CP**; International Spine Study Group. *Outcomes of Operative Treatment for Adult Cervical Deformity: A Prospective Multicenter Assessment With 1-Year Follow-up*. Neurosurgery. 2017 Dec 21. doi: 10.1093/neuros/nyx574. [Epub ahead of print]. PMID: 29281107
384. Grabel ZJ, Hart RA, Clark AP, Park SH, Shaffrey CI, Scheer JK, Smith JS, Kelly MP, DePasse JM, Gupta MC, **Ames CP**, Daniels AH. *Adult Spinal Deformity Knowledge in Orthopedic Spine Surgeons: Impact of Fellowship Training, Experience, and Practice Characteristics*. Spine Deform. 2018 Jan;6(1):60-66. doi: 10.1016/j.jspd.2017.06.003. PMID: 29287819
385. Hosogane N, **Ames C**, Matsumoto M, Taneichi H, Yamato Y, Takeuchi D, Schwab F, Shaffrey C, Smith JS, Bess S, Lafage V; International Spine Study Group. *Ethnic Variations in Radiographic Parameters and SRS-22 Scores in Adult Spinal Deformity: A Comparison Between North American and Japanese Patients Above 50 Years of Age With Minimum 2-Year Follow-up*. Clin Spine Surg. 2018 Jan 8. doi: 10.1097/BSD.0000000000000610. [Epub ahead of print]. PMID: 29315120
386. Langella F, Villafañe JH, Lafage V, Smith JS, Shaffrey C, Kim HJ, Burton D, Hostin R, Bess S, **Ames C**, Mundis G, Klineberg E, Schwab F, Lafage R, Berjano P. *Xipho-pubic angle (XPA) correlates with patient's reported outcomes in a population of adult spinal deformity: results from a multi-center cohort study*. Eur Spine J. 2018 Jan 12. doi: 10.1007/s00586-017-5460-5. [Epub ahead of print]. PMID: 29330576
387. Smith JS, Shaffrey CI, Kim HJ, Passias P, Protosaltis T, Lafage R, Mundis GM Jr, Klineberg E, Lafage V, Schwab FJ, Scheer JK, Miller E, Kelly M, Hamilton DK, Gupta M, Deviren V, Hostin R, Albert T, Riew KD, Hart R, Burton D, Bess S, **Ames CP**. *Prospective Multicenter Assessment of All-Cause Mortality Following Surgery for Adult Cervical Deformity*. Neurosurgery. 2018 Jan 17. doi: 10.1093/neuros/nyx605. [Epub ahead of print]. PMID: 29351637

388. Safaee MM, Ames CP, Deviren V, Clark AJ. *Minimally Invasive Lateral Retroperitoneal Approach for Resection of Extraforaminal Lumbar Plexus Schwannomas: Operative Techniques and Literature Review*. Oper Neurosurg (Hagerstown). 2018 Jan 17. doi: 10.1093/ons/oxp304. [Epub ahead of print]. PMID: 29351647
389. Reid DBC, Daniels AH, Ailon T, Miller E, Sciubba DM, Smith JS, Shaffrey CI, Schwab F, Burton D, Hart RA, Hostin R, Line B, Bess S, Ames CP; ISSG. *Frailty and Health-Related Quality of Life Improvement Following Adult Spinal Deformity Surgery*. World Neurosurg. 2018 Jan 19. pii: S1878-8750(18)30122-0. doi: 10.1016/j.wneu.2018.01.079. [Epub ahead of print]. PMID: 29360585
390. Iyer S, Klineberg EO, Zebala LP, Kelly MP, Hart RA, Gupta MC, Hamilton DK, Mundis GM, Sciubba D, Ames CP, Smith JS, Lafage V, Burton D, Kim HJ; International Spine Study Group (ISSG). *Dural Tears in Adult Deformity Surgery: Incidence, Risk Factors, and Outcomes*. Global Spine J. 2018 Feb;8(1):25-31. doi: 10.1177/2192568217717973. Epub 2017 Jul 20. PMID: 29456912
391. Fehlings MG, Kato S, Lenke LG, Nakashima H, Nagoshi N, Shaffrey CI, Cheung KMC, Carreon L, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Kebaish KM, Ames CP, Qiu Y, Matsuyama Y, Dahl BT, Mehdian H, Pellisé-Urquiza F, Lewis SJ, Berven SH. *Incidence and risk factors of post-operative neurological decline after complex adult spinal deformity surgery: results of the scoli-risk-1 study*. Spine J. 2018 Feb 13. pii: S1529-9430(18)30057-3. doi: 10.1016/j.spinee.2018.02.001. [Epub ahead of print]. PMID: 29452281
392. Passias PG, Horn SR, Bortz CA, Ramachandran S, Burton DC, Protopsaltis T, Lafage R, Lafage V, Diebo BG, Poorman GW, Segreto FA, Smith JS, Ames C, Shaffrey CI, Kim HJ, Neuman B, Daniels AH, Soroceanu A, Klineberg E; International Spine Study Group (ISSG). *The Relationship between Improvements in Myelopathy and Sagittal Realignment in Cervical Deformity Surgery Outcomes*. Spine (Phila Pa 1976). 2018 Feb 16. doi: 10.1097/BRS.0000000000002610. [Epub ahead of print]. PMID: 29462071
393. Safaee MM, Deviren V, Dalle Ore C, Scheer JK, Lau D, Osorio JA, Nicholls F, Ames CP. *Ligament augmentation for prevention of proximal junctional kyphosis and proximal junctional failure in adult spinal deformity*. J Neurosurg Spine. 2018 Feb 23:1-8. doi: 10.3171/2017.9.SPINE1710. [Epub ahead of print]. PMID: 29473789
394. Poorman GW, Passias PG, Qureshi R, Hassanzadeh H, Horn S, Bortz C, Segreto F, Jain A, Kelly M, Hostin R, Ames C, Smith J, LaFage V, Burton D, Bess S, Shaffrey C, Schwab F, Gupta M. *Cost-utility analysis of cervical deformity surgeries using one-year outcome*. Spine J. 2018 Feb 27. pii: S1529-9430(18)30019-6. doi: 10.1016/j.spinee.2018.01.016. [Epub ahead of print]. PMID: 29499339
395. Dalle Ore CL, Lau D, Davis JL, Safaee MM, Ames CP. *Rare case of a recurrent juvenile ossifying fibroma of the lumbosacral spine*. J Neurosurg Spine. 2018 Mar 9:1-7. doi: 10.3171/2017.10.SPINE17947. [Epub ahead of print]. PMID:

29521580

396. Raad J, Jain A, Neuman BJ, Hassanzadeh H, Gupta MC, Burton DC, Mundis GM Jr., Lafage V, Klineberg EO, Hostin RA, Ames CP, Bess S, Sciubba DM, Kebaish KM; International Spine Study Group. *Association of Patient-reported Narcotic Use with Short- and Long-term Outcomes After Adult Spinal Deformity Surgery. Multicenter Study of 425 Patients With 2-year Follow-up.* Spine (Phila Pa 1976). 2018 Mar 13. doi: 10.1097/BRS.0000000000002631. [Epub ahead of print] PMID: 29538242
397. Yeramaneni S, Ames CP, Bess S, Burton D, Smith JS, Glassman S, Gum JL, Carreon L, Jain A, Zygorakis C, Avramis I, Hostin R; International Spine Study Group. *Center variation in episode-of-care costs for adult spinal deformity surgery: results from a prospective, multicenter database.* Spine J. 2018 Mar 22. pii: S1529-9430(18)30101-3. doi: 10.1016/j.spinee.2018.03.012. [Epub ahead of print]
398. Miller EK, Vila-Casademunt A, Neuman BJ, Sciubba DM, Kebaish KM, Smith JS, Alanay A, Acaroglu ER, Kleinstück F, Obeid I, Sánchez Pérez-Gruoso FJ, Carreon LY, Schwab FJ, Bess S, Scheer JK, Lafage V, Shaffrey CI, Pellisé F, Ames CP; European Spine Study Group; International Spine Study Group. *External validation of the adult spinal deformity (ASD) frailty index (ASD-FI).* Eur Spine J. 2018 Mar 30. doi: 10.1007/s00586-018-5575-3. [Epub ahead of print]. PMID: 29603013
399. Lau D, Osorio JA, Deviren V, Ames CP. *The relationship of older age and perioperative outcomes following thoracolumbar three-column osteotomy for adult spinal deformity: an analysis of 300 consecutive cases.* J Neurosurg Spine. 2018 Apr 6:1-14. doi: 10.3171/2017.10.SPINE17374. [Epub ahead of print]. PMID: 29624129
400. Lenke LG, Shaffrey CI, Carreon LY, Cheung KMC, Dahl BT, Fehlings MG, Ames CP, Boachie-Adjei O, Dekutoski MB, Kebaish KM, Lewis SJ, Matsuyama Y, Mehdian H, Pellisé F, Qiu Y, Schwab FJ; AO Spine International and SRS Scolio-RISK-1 Study Group. *Lower Extremity Motor Function Following Complex Adult Spinal Deformity: Two Year Follow-up in the Scolio-RISK-1 Prospective, Multicenter, International Study.* J Bone Joint Surg Am. 2018 Apr 18;100(8):656-665. doi: 10.2106/JBJS.17.00575. PMID: 29664852
401. Safaee MM, Scheer JK, Ailon T, Smith JS, Hart RA, Burton DC, Bess S, Neuman BJ, Passias PG, Miller E, Shaffrey CI, Schwab F, Lafage V, Klineberg EO, Ames CP; International Spine Study Group. *Predictive modeling of length of hospital stay following adult spinal deformity correction: Analysis of 653 patients with an accuracy of 75% within 2 days.* World Neurosurg. 2018 Apr 17. pii: S1878-8750(18)30780-0. doi: 10.1016/j.wneu.2018.04.064. [Epub ahead of print]. PMID: 29678702
402. Buell TJ, Buchholz AL, Quinn JC, Bess S, Line BG, Ames CP, Schwab FJ, Lafage V, Shaffrey CI, Smith JS. *A Pilot Study on Posterior Polyethylene Tethers to Prevent Proximal Junctional Kyphosis After Multilevel Spinal Instrumentation for Adult Spinal Deformity.* Oper Neurosurg (Hagerstown). 2018 Apr 24. doi: 10.1093/ons/opy065. [Epub ahead of print]. PMID: 29688555

403. Daniels AH, Bess S, Line B, Eltorai AEM, Reid DBC, Lafage V, Akbarnia BA, **Ames CP**, Boachie-Adjei O, Burton DC, Deviren V, Kim HJ, Hart RA, Kebaish KM, Klineberg EO, Gupta M, Mundis GM Jr., Hostin RA Jr., O'Brien M, Schwab FJ, Shaffrey CI, Smith JS; ISSG. *Peak Timing for Complications Following Adult Spinal Deformity Surgery*. *World Neurosurg*. 2018 Apr 21. pii: S1878-8750(18)30803-9. doi: 10.1016/j.wneu.2018.04.084. [Epub ahead of print]. PMID: 29689393
404. Dalle Ore CL, **Ames CP**, Magill ST, Deviren V, Aghi MK, Lau D. *Initial Experience with Intraoperative Phosphorous-32 Brachytherapy During Resection of Malignant Spinal Tumors*. *World Neurosurg*. 2018 Apr 24. pii: S1878-8750(18)30825-8. doi: 10.1016/j.wneu.2018.04.105. [Epub ahead of print]. PMID: 29702311
405. Ailon T, Hamilton DK, Klineberg E, Daniels AH, Lafage V, Bess S, Burton DC, Gupta M, Schwab F, **Ames CP**, Smith JS, Shaffrey CI, Hart RA; International Spine Study Group. *Radiographic Fusion Grade Does Not Impact Health Related Quality of Life in the Absence of Instrumentation Failure for Patients Undergoing Posterior Instrumented Fusion for Adult Spinal Deformity*. *World Neurosurg*. 2018 Apr 27. pii: S1878-8750(18)30847-7. doi: 10.1016/j.wneu.2018.04.127. [Epub ahead of print]. PMID: 29709744
406. Mizutani J, Strom R, Abumi K, Endo K, Ishii K, Yagi M, Tay B, Deviren V, **Ames C**. *How Cervical Reconstruction Surgery Affects Global Spinal Alignment*. *Neurosurgery*. 2018 Apr 28. doi: 10.1093/neuros/nyy141. [Epub ahead of print]. PMID: 29718359
407. Safaee MM, Dalle Ore CL, Zygourakis CC, Deviren V, **Ames CP**. *The unreimbursed costs of preventing revision surgery in adult spinal deformity: analysis of cost-effectiveness of proximal junctional failure prevention with ligament augmentation*. *Neurosurg Focus*. 2018 May;44(5):E13. doi: 10.3171/2018.1.FOCUS17806. PMID: 29712521
408. Miller EK, , Lenke LG, Neuman BJ, Sciubba DM, Kebaish KM, Smith JS, Qiu Y, Dahl BT, Pellisé F, Matsuyama Y, Carreon LY, Fehlings MG, Cheung KM, Lewis S, Dekutoski MB, Schwab FJ, Boachie-Adjei, O, Mehdian H, Bess S, Shaffrey CI, **Ames CP**; AOSpine Knowledge Forum Deformity, the International Spine Study Group. *External Validation of the Adult Spinal Deformity (ASD-FI) in the Scolio-RISK-1 Patient Database*. *Spine (Phila Pa 1976)*. 2018 May 14. doi: 10.1097/BRS.0000000000002717. [Epub ahead of print]. PMID: 29762340
409. Ailon T, Smith JS, Shaffrey CI, Soroceanu A, Lafage V, Schwab F, Burton D, Hart R, Kim HJ, Gum J, Hostin R, Kelly MP, Glassman S, Scheer JK, Bess S, **Ames CP**; International Spine Study Group. *Patients with Adult spinal Deformity with Previous Fusions Have an Equal Chance of Reaching Substantial Clinical Benefit Thresholds in Health-Related Quality of Life Measures but Do Not Reach the Same Absolute Level of Improvement*. *World Neurosurg*. 2018 May 9. pii: S1878-8750(18)30924-0. doi: 10.1016/j.wneu.2018.04.204. [Epub ahead of print]. PMID: 29751181

410. Zygourakis CC, DiGiorgio AM, Crutcher CL 2nd, Safaee M, Nicholls FH, Ore CD, Ahmed AK, Deviren V, Ames CP. *The Safety and Efficacy of CT-Guided, Fluoroscopy-Free Vertebroplasty in Adult Spinal Deformity Surgery*. *World Neurosurg*. 2018 May 29. pii: S1878-8750(18)31092-1. doi: 10.1016/j.wneu.2018.05.139. [Epub ahead of print]. PMID: 29857213
411. Passias PG, Horn SR, Oh C, Ramchandran S, Burton DC, Lafage V, Lafage R, Poorman GW, Steinmetz L, Segreto FA, Bortz CA, Smith JS, Ames C, Shaffrey CI, Kim HJ, Soroceanu A, Klineberg EO; International Spine Study Group (ISSG). *Evaluating cervical deformity corrective surgery outcomes at 1-year using current patient-derived and functional measures: are they adequate?* *J Spine Surg*. 2018 Jun;4(2):295-303. doi: 10.21037/jss.2018.05.29. PMID: 30069521
412. Daniels AH, DePasse JM, Durand W, Hamilton DK, Passias P, Kim HJ, Protopsaltis T, Reid DBC, LaFage V, Smith JS, Shaffrey C, Gupta M, Klineberg E, Schwab F, Burton D, Bess S, Ames C, Hart RA; International Spine Study Group. *Rod Fracture After Apparently Solid Radiographic Fusion in Adult Spinal Deformity Patients*. *World Neurosurg*. 2018 Jun 19. doi: 10.1097/BRS.0000000000002778. [Epub ahead of print]. PMID: 29929025
413. Yang J, Lafage V, Lafage R, Smith J, Klineberg EO, Shaffrey CI, Mundis G Jr, Hostin R, Burton D, Ames CP, Bess S, Kim HJ, Schwab F; International Spine Study Group (ISSG). *Determinants of Patient Satisfaction Two Years after Spinal Deformity Surgery: A Lateral Class Analysis*. *Spine (Phila Pa 1976)*. 2018 Jun 21. doi: 10.1097/BRS.0000000000002753. [Epub ahead of print]. PMID: 29933336
414. Kalo S, Fehlings MG, Lewis SJ, Lenke LG, Shaffrey CI, Cheung KMC, Carreon LY, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Kebaish KM, Ames CP, Qiu Y, Matsuyama Y, Dahl BT, Mehdi H, Pellisé F, Berven SH. *An Analysis of the Incidence and Outcomes of Major Versus Minor Neurological Decline After Complex adult Spinal Deformity Surgery: A Subanalysis of Scolio-RISK-1 Study*. *Spine (Phila Pa 1976)*. 2018 Jul 1;43(13):905-912. doi: 10.1097/BRS.0000000000002486. PMID: 29894429
415. Passias PG, Bortz CA, Segreto FA, Horn SR, Lafage R, Lafage V, Smith JS, Line B, Kim HJ, Eastlack R, Hamilton DK, Protopsaltis T, Hostin RA Jr, Klineberg EO, Burton DC, Hart RA, Schwab FJ, Bess S, Shaffrey CI, Ames CP, International Spine Study Group. *Development of a Modified Cervical Deformity Frailty Index: A Streamlined Clinical Tool for Preoperative Risk Stratification*. *Spine (Phila Pa 1976)*. 2018 Jul 12. doi: 10.1097/BRS.0000000000002778. [Epub ahead of print]. PMID: 30005037
416. Passias PG, Horn SR, Poorman GW, Daniels AH, Hamilton DK, Kim HJ, Diebo BG, Steinmetz L, Bortz CA, Segreto FA, Sciubba DM, Smith JS, Neuman BJ, Shaffrey CI, Lafage R, Lafage V, Ames C, Hart R, Mundis G, Eastlack RK, Schwab FJ; International Spine Study Group (ISSG). *Clinical and radiographic presentation and treatment of patients with cervical deformity secondary to thoracolumbar proximal junctional kyphosis are distinct despite achieving similar outcomes: Analysis of 123 prospective CD cases*. *J Clin Neurosci*. 2018 Jul 2. pii: S0967-5868(18)30583-6. doi: 10.1016/j.jocn.2018.06.040. [Epub ahead of print]. PMID: 30042069

417. Verma R., Lafage R, Scheer J, Smith J, Passias P, Hostin R, Ames C, Mundis G, Burton D, Kim HJ, Bess S, Kleinberg E, Schwab F, Lafage V; and the International Spine Study Group. *Improvement in Back and Leg Pain and Disability Following Adult Spinal Deformity Surgery: Study of 324 Patients With 2-year Follow-up and the Impact of Surgery on Patient-reported Outcomes*. Spine (Phila Pa 1976). 2018 Jul 31. Doi: 10.1097/BRS.0000000000002815. [Epub ahead of print]. PMID: 30067577
418. Dalle Ore CL, Ames CP, Deviren V, Lau D. *Outcomes Following Single Posterior Vertebral Column Resection for Severe Thoracic Kyphosis*. World Neurosurg, 2018 Aug 1. pii: S1878-8750(18)31689-9. doi: 10.1016/j.wneu.2018.07.209. [Epub ahead of print]. PMID: 30077025
419. Protosaltis TS, Diebo BG, Lafage R, Henry JK, Smith JS, Scheer JK, Sciubba DM, Passias PG, Kim HJ, Hamilton DK, Soroceanu A, Klineberg EO, Ames CP, Shaffrey CI, Bess S, Hart RA, Schwab FJ, Lafage V; and International Spine Study Group. *Identifying Thoracic Compensation and Predicting Reciprocal Thoracic Kyphosis and PJK in Adult Spinal Deformity Surgery*. Spine (Phila Pa 1976). 2018 Aug 9. doi: 10.1097/BRS.0000000000002843. [Epub ahead of print]. PMID: 30096125
420. Tuchman A, Lenke LG, Cerpa M, Fehlings MG, Lewis SJ, Shaffrey CI, Cheung KMC, Carreon LY, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Kebaish K, Ames CP, Qiu Y, Matsuyama Y, Dahl BT, Mehdian H, Pellisé F, Berven SH. *Unilateral vs. Bilateral Lower Extremity Motor Deficit Following Complex Adult Spinal Deformity Surgery: Is there a Difference in Recovery Up to 2-Year F/U?* Spine J. 2018 Aug 14. pii: S1529-9430(18)31091-X. doi: 10.1016/j.spinee.2018.08.003. [Epub ahead of print]. PMID: 30118851
421. Kang J, Hosogane N, Ames C, Schwab F, Hart R, Burton D, Shaffrey C, Smith JS, Bess S, Lafage V, Cho KJ, Ha Y; International Spine Study Group and Asian Pacific Spine Study Group. *Diversity in Surgical Decision Strategies for Adult Spine Deformity Treatment: The Effects of Neurosurgery or Orthopedic Training Background and Surgical Experience*. Neurospine. 2018 Aug 29. doi: 10.14245/ns.1836086.043. [Epub ahead of print]. PMID: 30157582
422. Scheer JK, Osorio JA, Smith JS, Schwab F, Hart RA, Hostin R, Lafage V, Jain A, Burton DC, Bess S, Ailon T, Protosaltis TS, Klineberg EO, Shaffrey CI, Ames CP; International Spine Study Group. *Development of a Preoperative Predictive Model for Reaching the Oswestry Disability Index Minimal Clinically Important Difference for Adult Spinal Deformity Patients*. Spine Deform. 2018 Sep - Oct;6(5):593-599. doi: 10.1016/j.jspd.2018.02.010. PMID: 30122396
423. Iyer S, Kim HJ, Bao H, Smith JS, Gupta M, Albert TJ, Protosaltis TS, Mundis GM, Passias P, Neuman BJ, Klineberg EO, Lafage V, Ames CP. *The Posterior Use of BMP-2 In Cervical Deformity Surgery Does Not Result in Increased Early Complications: A Prospective Multicenter Study*. Global Spine J. 2018 Sep;8(6):622-628. doi: 10.1177/2192568218760538. Epub 2018 Mar 26. PMID: 30202717

424. Buell TJ, Chen CJ, Quinn JC, Buchholz AL, Mazur MD, Mullin JP, Nguyen JH, Taylor DG, Bess S, Line BG, Ames CP, Schwab FJ, Lafage V, Shaffrey CI, Smith JS. *Alignment Risk Factors for Proximal Junctional Kyphosis and the Effect of Lower Thoracic Junctional Tethers for Adult Spinal Deformity*. *World Neurosurg*. 2018 Sep 11. pii: S1878-8750(18)32051-5. doi: 10.1016/j.wneu.2018.08.242. [Epub ahead of print]. PMID: 30217780
425. Segreto FA, Lafage V, Lafage R, Smith JS, Line BG, Eastlack RK, Scheer JK, Chou D, Frangella NJ, Horn SR, Bortz CA, Diebo BG, Neuman BJ, Protosaltis TS, Kim HJ, Klineberg EO, Burton DC, Hart RA, Schwab FJ, Bess S, Shaffrey CI, Ames CP, Passias PG; International Spine Study Group. *Recovery Kinetics: Comparison of Patients undergoing Primary or Revision Procedures for Adult Cervical Deformity Using a Novel Area Under the Curve Methodology*. *Neurosurgery*. 2018 Sep 28. doi: 10.1093/neuros/nyy435. [Epub ahead of print]. PMID: 30272188.
426. Raad M, Jain A, Neuman BJ, Hassanzadeh H, Gupta MC, Burton DC, Mundis GM Jr, Lafage V, Klineberg EO, Hostin RA, Ames CP, Bess S, Sciubba DM, Kebaish KM; International Spine Study Group. *Association of Patient-Reported Narcotic Use With Short- and Long-Term Outcomes after Adult Spinal Deformity Surgery: Multicenter Study of 425 Patients With 2-year Follow-up*. *Spine (Phila Pa 1976)*. 2018 Oct 1;43(19):1340-1346. doi: 10.1097/BRS.0000000000002631. PMID: 29538242
427. Kwan KYH, Bow C, Samartzis D, Lenke LG, Shaffrey CI, Carreon LY, Dahl BT, Fehlings MG, Ames CP, Boachie-Adjei O, Dekutoski MB, Kebaish KM, Lewis SJ, Matsuyama Y, Mehdian H, Pellisé F, Qiu Y, Schwab FJ, Cheung KMC. *Non-neurologic adverse events after complex adult spinal deformity surgery: results from the prospective, multicenter Scolio-RISK-1 study*. *Eur Spine J*. 2018 Oct 16. doi: 10.1007/s00586-018-5790-y. [Epub ahead of print]. PMID: 30327909
428. Miller EK, Lenke LG, Neuman BJ, Sciubba DM, Kebaish KM, Smith JS, Qiu Y, Dahl BT, Pellisé F, Matsuyama Y, Carreon LY, Fehlings MG, Cheung KM, Lewis S, Dekutoski MB, Schwab FJ, Boachie-Adjei O, Mehdian H, Bess S, Shaffrey CI, Ames CP; AOSpine Knowledge Forum Deformity, the International Spine Study Group. *External Validation of the Adult Spinal Deformity (ASD) Frailty Index (ASD-FI) in the Scolio-Risk-1 Patient Database*. *Spine (Phila Pa 1976)*. 2018 Oct 15;43(20):1426-1431. doi: 10.1097/BRS.0000000000002717. PMID: 29762340
429. Passias PG, Horn SR, Poorman GW, Daniels AH, Hamilton DK, Kim HJ, Diebo BG, Steinmetz L, Bortz CA, Segreto FA, Sciubba DM, Smith JS, Neuman BJ, Shaffrey CI, Lafage R, Lafage V, Ames C, Hart R, Mundis G, Eastlack RK, Schwab FJ; International Spine Study Group (ISSG). *Clinical and radiographic presentation and treatment of patients with cervical deformity secondary to thoracolumbar proximal junctional kyphosis are distinct despite achieving similar outcomes: Analysis of 123 prospective CD cases*. *J Clin Neurosci*. 2018 Oct;56:121-126. doi: 10.1016/j.jocn.2018.06.040. Epub 2018 Jul 2. PMID: 30042069

430. Protopsaltis TS, Diebo BG, Lafage R, Henry JK, Smith JS, Scheer JK, Sciubba DM, Passias PG, Kim HJ, Hamilton DK, Soroceanu A, Klineberg EO, Ames CP, Shaffrey CI, Bess S, Hart RA, Schwab FJ, Lafage V; International Spine Study Group. *Identifying Thoracic Compensation and Predicting Reciprocal Thoracic Kyphosis in Adult Spinal Deformity Surgery*. *Spine (Phila Pa 1976)*. 2018 Nov 1;43(21):1479-1486. doi: 10.1097/BRS.0000000000002843. PMID: 30096125

BOOK:

1. Edited by: Christopher P. Ames, ients Stefano Boriani, Rahul Jandial; Section Editors: Mark H. Bilsky, Frank D. Vrionis, Vedat Deviren, Yoshiya Yamada, Rex A.W. Marco. *SPINE and SPINAL CORD TUMORS: Advanced Management and Operative Techniques*. QMP CRC 2014
2. Edited by: Christopher Ames MD, Brian Jian MD and Christopher Shaffrey MD. *Adult Spinal Deformity*. *Neurosurgery Clinics of North America*. Elsevier. NY, NY.

BOOK CHAPTERS:

1. Nottmeier EW, Ames C.P., Sonntag VK. Spondylosis. In Aminoff M (ed.) *Encyclopedia of the Neurosciences*. Academic Press, 2001.
2. Nottmeier EW, Ames C.P., Sonntag VK. Treatment of Spinal Cord Tumors. In Aminoff M (ed.) *Encyclopedia of the Neurosciences*. Academic Press, 2001.
3. Ames C.P., Marshall LF The Differential Diagnosis of Altered States of Consciousness.. *Neurological Surgery*. Youmans, J ed. Fifth edition. 2004.
4. Acosta FL Jr, Aryan HE, Ames C.P. Emerging directions in motion preservation spinal surgery. *Neurosurg Clin N Am*. 2005 Oct;16(4):665-9, vii. Review.
5. Aryan HE, Acosta FL Jr, Ames C.P. The ProDisc artificial disc: insertion technique. *Neurosurg Clin N Am*. 2005 Oct;16(4):651-6, vii. Review
6. Aryan HE, Acosta FL Jr, Ames C.P. The Charite Artificial Disc: insertion technique. *Neurosurg Clin N Am*. 2005 Oct;16(4):637-50, vii.
7. Chi JH, Ames C.P., Tay B. General considerations for cervical arthroplasty with technique for ProDisc-C. *Neurosurg Clin N Am*. 2005 Oct;16(4):609-19, vi. Review.
8. Acosta FL Jr, Ames C.P. Cervical disc arthroplasty: general introduction. *Neurosurg Clin N Am*. 2005 Oct;16(4):603-7, vi. Review.
9. Acosta FL, Galvez L, Aryan HE, Ames CP, Vertebral (Spinal) Infections in Current Infectious Disease Reports (Gerald Mandell, Editor-in-Chief) *Skin, Soft Tissue, Bone, and Joint Infections (Volume 8, Issue 5)* Edited by James S. Tan, MD.
10. Acosta, Frank, Ames CP. Biomechanical Properties of a Newly-Designed Bioabsorbable Anterior Cervical Plate. *Innovations in Spinal Reconstruction—Clinical Examples of Basic Science, Biomechanics, and Engineering*.

11. F.L. Acosta, Jr., H.E. Aryan, **Ames C.P.** “Reconstruction of the cervical spine using artificial pedicle screws,” in *Innovations in Spinal Reconstruction: Clinical Examples of Basic Science, Biomechanics, and Engineering*. K.-U. Lewandrowski, M.J. Yaszemski, I.H. Kalfas, P. Park, R.F. McLain and D.J. Trantolo (eds.).
12. F.L. Acosta, Jr., C.J. Ledezma, H.E. Aryan, **C.P. Ames** “Results of extended corpectomy, stabilization, and fusion of the cervical and cervico-thoracic spine,” in *Spinal Reconstruction: Clinical Examples of Applied Basic Science, Biomechanics, and Engineering*. K.-U. Lewandrowski, M.J. Yaszemski, I.H. Kalfas, P. Park, R.F. McLain and D.J. Trantolo (eds.).
13. **C.P. Ames**, F.L. Acosta, Jr., R.H. Chamberlain, A.E. Larios, N.R. Crawford. “Biomechanical properties of a newly designed bioabsorbable anterior cervical plate,” in *Spinal Reconstruction: Clinical Examples of Applied Basic Science, Biomechanics, and Engineering*. K.-U. Lewandrowski, M.J. Yaszemski, I.H. Kalfas, P. Park, R.F. McLain and D.J. Trantolo (eds.).
14. Chi, J, Gokaslan Z, **Ames C.P.** Editors . Primary Tumors of the Spine Neurosurgery Clinics of North America 2007
15. Acosta F, **Ames C.P.** Adult Thoracolumbar Scoliosis Youmans 2009.
16. Acosta F. **Ames C.P.** Degenerative Disc Disease and Low Back Pain Youmans 2009
17. Acosta F, **Ames C.P.** Transpedicular Corpectomy Neurosurgery Tricks of the Trade 2009
18. Acosta F, **Ames C.P.** Thoracolumbar Spondylectomy Neurosurgery Tricks of the Trade 2009
19. **Ames, C.P.**, Bilsky M, Vrionis F, Boriani, S. Editors Advanced Techniques in Spinal Tumor Surgery Quality Medical Publishers 2009
20. Scheer J.K., Farin A., Vrionis F., **Ames C.P.**, 2011. Approaches and Techniques for C2 Tumors: Spondylectomy and Transpedicular Corpectomy, in *Spine and Spinal Cord Tumors: Advanced Management and Operative Techniques*. Ames C.P., Boriani S., Jandial R., Quality Medical Publishing Inc. St Louis, MO.
21. Scheer J.K., Deviren V., Lee S.H., **Ames C.P.**, 2011. Posterior Cervicothoracic Osteotomy, in *Surgical Atlas of Spinal Operations*. Vaccaro, A., Eck J.C., Jaypee Brothers Medical Publishers Ltd. Maryland Heights, MO
22. Scheer J.K., Ha Y., Sears W.R., Lee S.H., Deviren V., **Ames C.P.**, 2011. Cervical Deformity and Treatment Algorithms, in *The Cervical Spine*. Shen F.H., Samartzis D.S., and Fessler R.G., Elsevier Inc. Philadelphia, PA.
23. Scheer J.K., Ha Y., Sears W.R., Lee S.H., Deviren V., **Ames C.P.**, 2011. Osteotomies of the Cervical Spine, in *The Cervical Spine*. Shen F.H., Samartzis D.S., and Fessler R.G., Elsevier Inc. Philadelphia, PA.
24. Oh, M., **Ames C.** Complications in Resection Of Primary Spinal Tumors. AO Spine Master Series 2015. AO Spine. Switzerland.

25. Daniels A, DePasse J, Reid D, Durand W, Hamilton D, Passias P, Protopsaltis T, Bess S, Kim H, LaFage V, Schwab F, Smith J, Shaffrey C, Gupta M, Klineberg E, Burton D, Ames C, Hart R. *Rod Fracture After Apparently Solid Radiographic Fusion in Adult Spinal Deformity Patients*. *World Neurosurgery*, vol. 117 (2018)

ABSTRACTS/PRESENTATIONS

INTERNATIONAL

1. Acosta, F., Buckley, J. M., Xu, Z., Lotz, J. and Ames, C. (2007). Biomechanical Stability Of Extended Anterior Fixation Alone Versus Anterior/Posterior Fixation For Unstable Three-Column Burst Fractures Of The Thoraco-Lumbar Spine. International Society for the Study of the Lumbar Spine.
2. Buckley, J.M., Acosta, F., Xu, Z., Lotz, J. and Ames, C. (2007). Extended Anterior Fixation Is Biomechanically Comparable To Circumferential Fusion For Treatment Of Unstable Thoracolumbar Burst Fractures. International Society for the Study of the Lumbar Spine. Hong Kong, China.
3. Eguizabal, J., Nguyen, T.-Q., Buckley, J. M., Lotz, J. and Ames, C. (2007). Revised Protocol Test Results: Dynamic Fusion Rod Deformity. Cervical Spine Research Society - European Section.
4. Eguizabal, J., Barnes, A., Acosta, F., Wheeler, D., Buckley, J. M., Lotz, J. and Ames, C. (2008). Multilevel Pediclectomy Does Not Compromise Biomechanical Stability Of Posterior Fusion Constructs In The Cervical Spine. International Society For The Study Of The Lumbar Spine. Geneva, Switzerland.
5. Cheng, L., Liddle, K., Koch, K., McClellan, T., Deviren, V., Ames, C. and Buckley, J. M. (2009). Survival of Human Cadaveric Lumbar Spines for High Cycle Fatigue Tests at Physiologic Load Levels. Spine Arthroplasty Society. London, England.
6. Koch, K., Tai, V., Burch, S., Mulligan, K., Ames, C., McClellan, R. T., Buckley, J. M. and Matityahu, A. (2009). In Vitro DEXA-BMD Measurements Affected by Type of Soft Tissue Surrogate. Spine Arthroplasty Society. London, England.
7. Rodriguez, J., Scheer, J. K., Eguizabal, J., McClellan, R. T., Buckley, J. and Ames, C. (2009). Posterior Cervical 3.5 mm Titanium Rods Undergo Substantial Bending Deformations During Common Postural Changes of Daily Living. International Meeting on Advanced Spine Techniques.
8. Rodriguez, J. P., Farin, Azadeh, Deviren, and Vedat, H., Serena S., Ames, Christopher P. (2009). Restoration of Global Sagittal Balance with Thoracolumbar Osteotomy Results in Spontaneous Correction of Cervical Alignment in Patients who maintain Horizontal Gaze Preoperatively. International Meeting on Advanced Spine Techniques.
9. Scheer, J. K., Eguizabal, J., Buckley, J. M., Deviren, V., McClellan, R. T. and Ames, C. (2009). Biomechanical Analysis of Cranial Cervical Junction Reconstruction Strategies after C2 Corpectomy for Primary Tumor. 16th International Meeting of Advanced Spine Techniques.

10. Scheer, J. K., Mulkerin, W., Nguyen, T.-Q., Koch, K., Tia, S., Lotz, J. C., Ames, C., Buckley, J. M. and Burch, S. (2009). *Biomechanical Analysis of Cranial Cervical Junction Reconstruction Strategies after C2 in Long Fusion Constructs*. Spine Arthroplasty Society. London, England.
11. Cheng, L., Currey, J., Modak, A., McClellan, R. T., Pekmezci, M., Buckley, J. M. and Ames, C. (2010). Comparison Of Endplate Contact Force Profiles For Expandable Versus Non-Expandable Lumbar Interbody Cages. International Society for the Study of the Lumbar Spine, Auckland, New Zealand.
12. Cheng, L., Currey, J., Modak, A., McClellan, R. T., Pekmezci, M., Buckley, J. M. and Ames, C. (2010). FATIGUE FAILURE OF EXPANDABLE VS. FIXED INTERBODY CAGES: A BIOMECHANICAL INVESTIGATION. International Society for the Study of the Lumbar Spine, Auckland, New Zealand.
13. Hostin R, Bess S, Hart R, Line B, Ames C, Kebaish K, Burton D, Lafage V, O'Brien M, Schwab F, Shaffrey C, Smith J, Wood K, ISSG. Acute proximal junctional failure following long posterior fusion for spinal deformity. Risk factors and radiographic analysis comparing thoracolumbar to upper thoracic failures. 17th Annual International Meeting on Advanced Spine Techniques. Toronto, Canada 2010
14. Scheer, J. K., Tang, J. A., Buckley, J. M., Pekmezci, M., McClellan, R. T. and Ames, C. P. (2010). Biomechanical Analysis of Osteotomy Type (OWO, CWO) and Rod Diameter for Treatment of Cervicothoracic Kyphosis. 17th Annual International Meeting on Advanced Spine Techniques. Toronto, Canada. - **Podium**
15. Scheer, J. K., Tang, J. A., Deviren, V., Buckley, J. M., Pekmezci, M., McClellan, R. T. and Ames, C. P. (2010). Biomechanical Analysis of Cervicothoracic Junction Osteotomy in Cadaveric Model of Ankylosing Spondylitis: Effect of Rod Material and Diameter. 17th Annual International Meeting on Advanced Spine Techniques. Toronto, Canada.
16. Scheer, J. K., Tang, J. A., Deviren, V., Buckley, J. M., Pekmezci, M., McClellan, R. T. and Ames, C. P. (2010). Biomechanical Analysis of Osteotomy Type (OWO, CWO) and Rod Diameter for Treatment of Cervicothoracic Kyphosis. Scoliosis Research Society. Kyoto, Japan.
17. Bess S, Schwab F, Lafage V, Hostin R, Ames C, Klineberg E, Boachie-Adjei O, Burton D, Hart R, Shaffrey C, Smith J, ISSG. Thoracic three column osteotomy for adult spinal deformity improves regional deformity and pelvic tilt. Scoliosis Research Society (SRS). (paper 41). Kyoto, Japan 2010
18. Lafage V, Klineberg E, Schwab F, Akbarnia B, Ames C, Boachie-Adjei O, Burton D, Hart R, Hostin R, Shaffrey C, Wood K, Bess S, ISSG. Changes in thoracic kyphosis negatively impact sagittal alignment following lumbar pedicle osteotomy. Scoliosis Research Society (SRS). (paper 44). Kyoto, Japan 2010
19. Deviren V., Scheer J.K., Ames C.P., (2011). Pedicle Subtraction Osteotomy for Cervicothoracic Kyphosis: Technique and Report of 11 Cases. 18th International Meeting on Advanced Spine Techniques. Copenhagen, Denmark. – **podium**

20. Blondel B, Schwab F, Bess S, Ames C, Hart R, Smith J, Shaffrey C, Burton D, Boachie-Adjei O, ISSG, Lafage V. Over Correction by Osteotomy for Sagittal Plane Deformity: It Happens and Here is Why. 18th International Meeting on Advanced Spine Techniques. Copenhagen, Denmark. 2011
21. Gupta M, Klineberg E, Lafage V, Bess S, Schwab F, Boachie O, Kebaish K, Wood K, Akbarnia B, Mundis G, Ames C, O'Brien M, Hostin R, ISSG. Pedicle Subtraction Osteotomy with Extension of Fusion to the Pelvis: Does Anterior Interbody Support at L5-S1 Improve Sagittal and Pelvic Parameters? International Meeting on Advanced Spinal Techniques (IMAST). (paper 95). Copenhagen, Denmark. 2011.
22. Tang J.A., Scheer J.K., Smith J.S., Deviren V., Bess S., Hart R.A., Lafage V., Shaffrey C.I., Schwab F., Ames C.P., ISSG, 2012. Sagittal Alignment on Outcomes in Adult Cervical Spine Surgery. International Society for the Advancement of Spine Surgery. Barcelona, Spain. – **podium**
23. Tang J.A., Scheer J.K., Deviren V., Bess S., Hart R.A., Lafage V., Shaffrey C.I., Schwab F., Ames C.P., ISSG, 2012. The Impact of Positive Regional Sagittal Alignment on Outcomes in Posterior Cervical Fusion Surgery. CSRS-ES Spine Week 2012. Amsterdam, The Netherlands. – **podium**
24. Tang J.A., Scheer J.K., Ames C.P., Buckley J.M., 2012. *Pure Moment Testing for Spinal Biomechanics Applications: Fixed versus 3D Floating Ring Cable Driven Test Designs*. ASME Summer Bioengineering Conference, Fajardo, Puerto Rico. – **Podium**
25. Smith J.S., Scheer J.K., Shaffrey C.I., Lafage V., Moal B., Schwab F., Protopsaltis T., Blondel B., Mummaneni P., Mundis G., Hostin R., Klineberg, E., Bess S., Ames C.P., 2012. *Cervical Spinal Osteotomy Classification*. International Society for the Advancement of Spine Surgery, Vancouver, Canada. – **Podium**
26. Clark A.J., Scheer J.K., Shaffrey C.I., Smith J.S., Bess S., Mummaneni P.V., McCarthy I., Hart R., O'Brien M.F., Hostin R.A., Kebaish K.M., Klineberg E.O., Gupta M., Li C.M., Lafage V., Deviren V., Schwab F., Ames C.P., ISSG. 2013. *Retention of Key Portions of Informed Consent in the Adult Deformity Patient; Interim Report of a Prospective Study*. International Society for the Advancement of Spine Surgery, Vancouver Canada. – **Podium**
27. Scheer J.K., Protopsaltis T., Kim H.J., Hostin R., Kebaish K., Smith J., Mundis G., Schwab F., Lafage V., Hart R., Bess S., Shaffrey C.I., Deviren V., Ames C.P., ISSG, 2013. *Health Impact Comparison of Cervical Sagittal Deformity and Thoracolumbar Sagittal Deformity on Baseline Disability and Surgical Outcomes: Cervical PSO versus Lumbar PSO*. 20th International Meeting On Advanced Spine Techniques, Vancouver, Canada. – **Podium**
28. Eastlack R., Scheer J.K., Kim H.J., Boachie-Adjei O., Deviren V., Smith J., Hart R., Bess S., Mundis G., Lafage V., Schwab F., Shaffrey C.I., Burton D., Ames C.P., ISSG, 2013. *Do Operative Outcomes for Adults with Spinal Deformity Differ Based on the Relative Severity of Back and Leg Pain Prior to Surgery?* 20th International Meeting On Advanced Spine Techniques, Vancouver, Canada. – **Podium**
29. Kim H.J., Mundis G., Eastlack R., Burton D., Scheer J.K., Boachie-Adjei O.,

- Cunningham M.E., Smith J., Hostin R., Kebaish K., Mundis G., Schwab F., Lafage V., Hart R., Bess S., Shaffrey C.I., Ames C.P., ISSG, 2013. *Severity and Treatment Response of Back and Leg Pain Differ by Curve Location in Adult Spinal Deformity (ASD)*. 20th International Meeting On Advanced Spine Techniques, Vancouver, Canada.
30. Smith J., Scheer J.K., Lafage V., Ames C.P., ISSG, 2013. *Health Impact Comparison of Cervical Sagittal Deformity and Thoracolumbar Sagittal Deformity on Baseline Disability and Surgical Outcomes: Cervical PSO versus Lumbar PSO*. Cervical Spine Research Society, European Section, Bordeaux, France.
 31. Scuibba D., Camilo M., Rhines L., Wolinsky J.P., Chou D., Scheer J.K., Hsieh P., Gokaslan Z., Ames C.P., 2013. *En bloc Resection of Cervical Chordomas. A Multi-institutional Series of 16 Patients and Clinical Outcomes*. Global Spine Congress, Hong Kong, China. – **Podium**
 32. Protopsaltis T., Scheer J.K., Terran J., Smith J., Kim H.J., Mundis G., Hart R., McCarthy I., Klineberg E., Lafage V., Bess S., Schwab F., Shaffrey C.I., Ames C.P., ISSG, 2013. *How the Neck affects the Back: Changes in Regional Cervical Sagittal Alignment Correlate to HRQL Improvement in Adult Thoracolumbar Deformity Patients at 2 Year Follow up*. 48th Annual Meeting & Course of the Scoliosis Research Society, Lyon, France. – **Podium**
 33. Smith J., Shaffrey C.I., Lafage V., Schwab F., Protopsaltis T., Klineberg E., Scheer J.K., Fu K.M., Hostin R., Deviren V., Hart R., Burton D., Bess S., Ames C.P., ISSG, 2013. *Prevalence and Type of Cervical Deformity Among 470 Adults with Thoracolumbar Deformity*. 48th Annual Meeting & Course of the Scoliosis Research Society, Lyon, France. – **Podium**
 34. Saigal R., Clark A.J., Scheer J.K., Smith J., Bess S., Mummaneni P.V., McCarthy I., Hart R., Kebaish K., Klineberg E., Deviren V., Schwab F., Shaffrey C.I., Ames C.P., ISSG, 2013. *Adult deformity surgery (ASD) patients recall fewer than 50% of the risks discussed in the informed consent process preoperatively and the recall rate worsens significantly in the postoperative period*. 48th Annual Meeting & Course of the Scoliosis Research Society, Lyon, France. – **Podium**
 35. Kim H.J., Boachie-Adjei O., Scheer J.K., Hostin R., Kebaish K., Smith J., Mundis G., Eastlack R., Schwab F., Lafage V., Hart R., Bess S., Deviren V., Shaffrey C.I., Ames C.P., ISSG, 2013. *Upper Thoracic versus Lower Thoracic Upper Instrumented Vertebrae Endpoints have Similar Outcomes and Complications in Adult Scoliosis at 2 year follow up*. 48th Annual Meeting & Course of the Scoliosis Research Society 2013, Lyon, France. – **Podium**
 36. Kim H.J., Mundis G., Eastlack R., Burton D., Scheer J.K., Boachie-Adjei O., Cunningham M.E., Smith J., Bess S., Shaffrey C.I., Ames C.P., ISSG, 2013. *Severity and Treatment Response of Back and Leg Pain Differ by Curve Location in Adult Spinal Deformity (ASD)*. 48th Annual Meeting & Course of the Scoliosis Research Society 2013, Lyon, France.
 37. Smith JS, Challier V, Shaffrey C, Protopsaltis TS, Lafage V, Liu S, Lafage R, Ames CP. *Cervical spondylotic myelopathy: does surgical approach influence post-operative*

- sagittal alignment and outcomes?* 30th Annual Cervical Scoliosis Research Society (European Section). Pamplona, Spain. June 25-28, 2014. – **podium**
38. Challier V, Lafage R, Smith JS, Protosaltis TS, Lafage V, Liu S, Shaffrey C, Ames CP. *The impact of dynamic alignment, motion and center of rotation on myelopathy grade and regional disability in cervical spondylotic myelopathy.* 30th Annual Cervical Scoliosis Research Society (European Section). Pamplona, Spain. June 25-28, 2014. – **podium**
39. Liu S, Smith JS, Shaffrey C, Challier V, Protosaltis TS, Lafage V, Schwab FJ, Ames CP. *Area under the curve: analysis of approach related recovery time in 165 operative cervical spondylotic myelopathy patients with two-year follow up.* 30th Annual Cervical Scoliosis Research Society (European Section). Pamplona, Spain. June 25-28, 2014. – **podium**
40. Smith, Justin S., Shaffrey, Christopher I., Lafage, Virginie, Schwab, Frank J., Protosaltis, Themistocles S., Klineberg, Eric, Scheer, Justin K., Deviren, Vedat, Hart, Robert A., Bess, Shay, Arnold, Paul, Chapman, Jens, Fehlings, Michael G., Ames, Christopher P. *Assessment of Impact of Long-Cassette Standing X-rays on Surgical Planning for Lumbar Pathology: An International Survey of Spine Surgeons.* IMAST. Valencia, Spain 2014. - **podium**
41. Lafage, Virginie, Schwab, Frank J., Scheer, Justin K., Klineberg, Eric, Sciubba, Daniel M., Zebala, Lukas P., Hostin, Richard, Obeid, Ibrahim, Koski, Tyler, Kelly, Michael P., Bess, Shay, Shaffrey, Christopher I., Smith, Justin S., Ames, Christopher P., Study Group, International Spine. *Adult Spinal Deformity Surgeons Are Unable to Accurately Predict Postoperative Spinal Alignment: Initial Analysis of a 3 Phase Study.* IMAST 2014. Valencia, Spain – **podium**
42. Ames, Christopher P., Scheer, Justin K., Mundis, Gregory M., Klineberg, Eric, Hart, Robert A., Kelly, Michael P., Deviren, Vedat, Nguyen, Stacie, McCarthy, Ian, Bess, Shay, Schwab, Frank J., Shaffrey, Christopher I., Lafage, Virginie, Smith, Justin S., Study Group, International Spine. *The Effect of Patient Age on Recovery Kinetics in 149 Adult Spinal Deformity Patients with 2-year Follow-Up: A Novel Area Under the Curve Analysis.* IMAST 2014. Valencia, Spain – **podium**
43. Robinson, Chessie, McCarthy, Ian, O'Brien, Michael F., Gupta, Munish C., Ames, Christopher P., Lafage, Virginie, Hart, Robert A., Burton, Douglas C., Bess, Shay, Shaffrey, Christopher I., Schwab, Frank J., Kebaish, Khaled, Smith, Justin S., Hostin, Richard, Study Group, International Spine. *Role of Implant Costs in the Long Term Cost-Effectiveness of Surgical Treatment of Adult Spinal Deformity (ASD).* IMAST 2014. Valencia, Spain – **podium**
44. McCarthy, Ian, O'Brien, Michael F., Robinson, Chessie, Gupta, Munish C., Ames, Christopher P., Lafage, Virginie, Hart, Robert A., Bess, Shay, Shaffrey, Christopher I., Schwab, Frank J., Kebaish, Khaled, Smith, Justin S., Klineberg, Eric, Hostin, Richard, Study Group, International Spine. *Incremental Cost-Effectiveness of Adult Spinal Deformity Surgery by Classification of Deformity.* IMAST 2014. Valencia, Spain – **podium**

45. Protopsaltis, Themistocles S.; Boniello, Anthony J.; Smith, Justin S.; Passias, Peter G.; Shaffrey, Christopher I.; Boachie-Adjei, Oheneba; Mundis, Gregory M.; **Ames, Christopher P.**; Errico, Thomas J.; Bess, Shay ; Gupta, Munish C.; Hart, Robert A.; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *Are established targets for spinal deformity correction valid? Pre- to Postoperative analysis using the T1 Pelvic Angle (TPA), a novel radiographic parameter of sagittal deformity.* IMAST 2014. Valencia, Spain – **podium**
46. Protopsaltis, Themistocles S.; Bianco, Kristina; Smith, Justin S.; Passias, Peter G.; Shaffrey, Christopher I.; Kim, Han Jo; Mundis, Gregory M.; **Ames, Christopher P.**; Burton, Douglas C.; Bess, Shay; Klineberg, Eric; Hart, Robert A.; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *The Lumbar Pelvic Angle (LPA), the lumbar component of the fan of spinopelvic alignment, correlates with HRQOL and PI-LL mismatch and predicts global alignment.* IMAST 2014. Valencia, Spain – **podium**
47. Smith, Justin S.; Shaffrey, Christopher I.; Lafage, Virginie; Schwab, Frank J.; Protopsaltis, Themistocles S.; Klineberg, Eric; Gupta, Munish C.; Hostin, Richard; Fu, Kai-Ming; Soroceanu, Alex; Hart, Robert A.; Burton, Douglas C.; Bess, Shay; **Ames, Christopher P.**; Study Group, International Spine. *Comparison of Best vs Worst Clinical Outcomes for Adult Spinal Deformity (ASD) Surgery: A Prospective, Multi-Center Assessment with Minimum 2-Yr Follow-Up.* IMAST 2014. Valencia, Spain – **podium**
48. Protopsaltis, Themistocles S.; Fehlings, Michael G.; Liu, Shian; Smith, Justin S.; Lafage, Virginie; Shaffrey, Christopher I.; Kim, Han Jo; Arnold, Paul; Chapman, Jens; Lafage, Renaud; Challier, Vincent; Schwab, Frank J.; Massicotte, Eric; Yoon, S. Tim; **Ames, Christopher P.** *Impact of Regional and Focal Cervical Alignment on Myelopathy Severity: report of 151 patients from AONA CSM Database.* IMAST 2014. Valencia, Spain – **podium**
49. Smith, Justin S.; Eastlack, Robert K.; Blaskiewicz, Donald J.; Shaffrey, Christopher I.; Schwab, Frank J.; Bess, Shay; Kim, Han Jo; Klineberg, Eric; O'Brien, Michael F.; Albert, Todd J.; Fehlings, Michael G.; Lafage, Virginie; **Ames, Christopher P.**; Riew, K. Daniel; Study Group, International Spine. *Reliability Assessment of a Novel Cervical Deformity Classification System.* IMAST 2014. Valencia, Spain – **podium**
50. McCarthy, Ian; O'Brien, Michael F.; Robinson, Chessie I.; Gupta, Munish C.; **Ames, Christopher P.**; Lafage, Virginie; Hart, Robert A.; Bess, Shay; Shaffrey, Christopher I.; Schwab, Frank J.; Kebaish, Khaled; Smith, Justin S.; Klineberg, Eric; Hostin, Richard; Study Group, International Spine. *Efficiency in Adult Spinal Deformity Surgery: A Multi-Center Comparison of Resource Use.* IMAST 2014. Valencia, Spain – **podium**
51. Klineberg, Eric; Gupta, Munish C.; Nguyen, Stacie; **Ames, Christopher P.**; Burton, Douglas C.; Hart, Robert A.; Protopsaltis, Themistocles S.; Akbarnia, Behrooz A.; Shaffrey, Christopher I.; Smith, Justin S.; Schwab, Frank J.; Deviren, Vedat; Kim, Han Jo; Bess, Shay; Study Group, International Spine. *Posterior Surgical Correction With or Without Interbody in Matched Curves: No Difference in Correction or Fusion Rates.* IMAST 2014. Valencia, Spain – **podium**
52. Passias, Peter G.; Smith, Justin S.; Soroceanu, Alex; Boniello, Anthony J.; scheer, Justin K.; Schwab, Frank J.; Shaffrey, Christopher I.; Kim, Han Jo; Protopsaltis, Themistocles S.; Mundis, Gregory M.; Gupta, Munish C.; Klineberg, Eric; Lafage, Virginie; **Ames,**

- Christopher P.**; Study Group, International Spine. *Post Operative Cervical Deformity in 215 Thoracolumbar Adult Spinal Deformity Patients: Prevalence, Risk Factors, and Impact on Patient-Reported Outcome and Satisfaction at 2 Year Follow up.* IMAST 2014. Valencia, Spain – **podium**
53. Lafage, Renaud; Lafage, Virginie; Smith, Justin S.; Hostin, Richard; Shaffrey, Christopher I.; Kim, Han Jo; Mundis, Gregory M.; **Ames, Christopher P.**; Errico, Thomas J.; Bess, Shay; Gupta, Munish C.; Hart, Robert A.; Schwab, Frank J.; Protopsaltis, Themistocles S.; Study Group, International Spine. *Upper cervical compensation and maintenance of horizontal gaze in 150 thoracolumbar deformity patients with and without cervical deformity.* IMAST 2014. Valencia, Spain – **podium**
54. Liu, Shian; Lafage, Renaud; Smith, Justin S.; Protopsaltis, Themistocles S.; Lafage, Virginie; Challier, Vincent; Shaffrey, Christopher I.; Kim, Han Jo; Arnold, Paul; Chapman, Jens; Schwab, Frank J.; Massicotte, Eric; Yoon, S. Tim; Fehlings, Michael G.; **Ames, Christopher P.** *The Impact of Dynamic Alignment, Motion and Center of Rotation on Myelopathy Grade and Regional Disability in Cervical Spondylotic Myelopathy.* IMAST 2014. Valencia, Spain – **podium**
55. Challier, Vincent; Smith, Justin S.; Shaffrey, Christopher I.; Kim, Han Jo; Arnold, Paul; Liu, Shian; Scheer, Justin K.; Chapman, Jens; Protopsaltis, Themistocles S.; Lafage, Virginie; Schwab, Frank J.; Massicotte, Eric; Yoon, S. Tim; Fehlings, Michael G.; **Ames, Christopher P.** *Area Under the Curve: Analysis of Approach Related Recovery Time in 165 Operative Cervical Spondylotic Myelopathy Patients with 2 year follow up.* IMAST July 16-19, 2014. Valencia, Spain – **podium**
56. **Ames, Christopher P.**; Smith, Justin S.; Liu, Shian; Shaffrey, Christopher I.; Kim, Han Jo; Arnold, Paul; Challier, Vincent; Chapman, Jens; Protopsaltis, Themistocles S.; Schwab, Frank J.; scheer, Justin K.; Massicotte, Eric; Yoon, S. Tim; Lafage, Virginie; Fehlings, Michael G. *Correlation of Myelopathy to Regional Neck Disability: A Surgical Approach-Specific Analysis in 217 Patients.* IMAST 2014. Valencia, Spain – **podium**
57. Fehlings, Michael G.; Smith, Justin S.; Challier, Vincent; Shaffrey, Christopher I.; Kim, Han Jo; Arnold, Paul; Chapman, Jens; Protopsaltis, Themistocles S.; Lafage, Virginie; Liu, Shian; Lafage, Renaud; Schwab, Frank J.; Massicotte, Eric; Yoon, S. Tim; **Ames, Christopher P.** *Cervical Spondylotic Myelopathy: Does Surgical Approach Influence Post-operative Sagittal Alignment and Outcomes?* IMAST 2014. Valencia, Spain – **podium**
58. Kim, Han Jo; Protopsaltis, Themistocles S.; Nguyen, Stacie; Cunningham, Matthew E.; Passias, Peter G.; Smith, Justin S.; Shaffrey, Christopher I.; Schwab, Frank J.; Mundis, Gregory M.; Klineberg, Eric; Gupta, Munish C.; Hart, Robert A.; Burton, Douglas C.; Bess, Shay; **Ames, Christopher P.**; Study Group, International Spine. *High Post-Operative C2-7 SVA is Associated with Proximal Junctional Kyphosis.* IMAST 2014. Valencia, Spain – **podium**
59. **Ames, Christopher P.**; scheer, Justin K.; Mundis, Gregory M.; Klineberg, Eric; Hart, Robert A.; Kelly, Michael P.; Deviren, Vedat; Burton, Douglas C.; McCarthy, Ian; Bess, Shay; Schwab, Frank J.; Shaffrey, Christopher I.; Lafage, Virginie; Smith, Justin S.; Study Group, International Spine. *The Effect of Complications and Reoperation on*

- Recovery Kinetics in 149 Adult Spinal Deformity Pts with 2-year Follow-Up: An Area Under the Curve Analysis.* IMAST 2014. Valencia, Spain – **podium**
60. Bess, Shay; Line, Breton; Lafage, Virginie; **Ames, Christopher P.**; Boachie-Adjei, Oheneba; Burton, Douglas C.; Hart, Robert A.; Akbarnia, Behrooz A.; Klineberg, Eric; Mundis, Gregory M.; Hostin, Richard; Schwab, Frank J.; Shaffrey, Christopher I.; Smith, Justin S.; Study Group, International Spine. *Prospective Analysis of Location of RhBMP-2 Use in Adult Spinal Deformity (ASD) Surgery Does Not Correlate with Site Specific Complications and Generates Greater Fusion Rates at Minimum 2 Year Follow Up.* IMAST 2014. Valencia, Spain – **podium**
61. Bess, Shay; Line, Breton; Lafage, Virginie; **Ames, Christopher P.**; Boachie-Adjei, Oheneba; Burton, Douglas C.; Hart, Robert A.; Akbarnia, Behrooz A.; Klineberg, Eric; Mundis, Gregory M.; Hostin, Richard; Schwab, Frank J.; Shaffrey, Christopher I.; Smith, Justin S.; Study Group, International Spine. *Peak Timing and Associated Risk Factors for Specific Complications Following Adult Spinal Deformity (ASD) are Identifiable; A Guide for Surgeons and Patients.* IMAST 2014. Valencia, Spain – **podium**
62. Hamilton, D. K.; Hiratzka, Jayme R.; Hiratzka, Shannon; **Ames, Christopher P.**; Smith, Justin S.; Shaffrey, Christopher I.; Akbarnia, Behrooz A.; Boachie-Adjei, Oheneba; Bess, Shay; scheer, Justin K.; Lafage, Virginie; Schwab, Frank J.; Hart, Robert A.; Study Group, International Spine. *Adverse Events Have Limited Impact on Clinical Outcome following Surgery for Adult Spinal Deformity.* IMAST 2014. Valencia, Spain – **podium**
63. Hamilton, D. K.; Hiratzka, Jayme R.; Hiratzka, Shannon; **Ames, Christopher P.**; Smith, Justin S.; Shaffrey, Christopher I.; Akbarnia, Behrooz A.; Boachie-Adjei, Oheneba; Bess, Shay; scheer, Justin K.; Lafage, Virginie; Schwab, Frank J.; Hart, Robert A.; Study Group, International Spine. *Perioperative Complications Do Not Affect Patient Satisfaction Following Adult Spinal Deformity Surgery.* IMAST 2014. Valencia, Spain – **podium**
64. Soroceanu, Alex; Burton, Douglas C.; Smith, Justin S.; Hostin, Richard; Shaffrey, Christopher I.; Boachie-Adjei, Oheneba; Akbarnia, Behrooz A.; **Ames, Christopher P.**; Errico, Thomas J.; Bess, Shay; Gupta, Munish C.; Deviren, Vedat; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *Predictors of Infections and Medical Complications in the setting of Adult Spinal Deformity Surgery.* IMAST 2014. Valencia, Spain – **podium**
65. Soroceanu, Alex; Errico, Thomas J.; Smith, Justin S.; Hostin, Richard; Shaffrey, Christopher I.; Boachie-Adjei, Oheneba; Mundis, Gregory M.; **Ames, Christopher P.**; Burton, Douglas C.; Bess, Shay ; Gupta, Munish C.; Deviren, Vedat; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *The Effect of Antifibrinolytic Therapy on Complications, Blood Product Utilization, and Fusion in Adult Spinal Deformity.* IMAST 2014. Valencia, Spain – **podium**
66. Passias, Peter G.; Yang, Sun; Soroceanu, Alex; Smith, Justin S.; Shaffrey, Christopher I.; Boachie-Adjei, Oheneba; Mundis, Gregory M.; **Ames, Christopher P.**; Burton, Douglas C.; Bess, Shay; Klineberg, Eric; Hart, Robert A.; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *Predictors of Revision Surgery in Adult Spinal Deformity and Impact on Patient-Reported Outcomes and Satisfaction – 2-Year Follow-Up.* IMAST 2014. Valencia, Spain – **podium**

67. Protopsaltis, Themistocles S.; Maier, Stephen P.; Smith, Justin S.; Hostin, Richard; Shaffrey, Christopher I.; Boachie-Adjei, Oheneba; Mundis, Gregory M.; **Ames, Christopher P.**; Errico, Thomas J.; Bess, Shay; Klineberg, Eric; Hart, Robert A.; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *Should our elderly spinal deformity patients have the same targets for correction and is there an optimal alignment target that results in less PJK?* IMAST 2014. Valencia, Spain – **podium**
68. Hiratzka, Jayme R.; Hamilton, D. K.; Klineberg, Eric; **Ames, Christopher P.**; Smith, Justin S.; Shaffrey, Christopher I.; Bess, Shay; scheer, Justin K.; Lafage, Virginie; Schwab, Frank J.; Burton, Douglas C.; Hostin, Richard; McCarthy, Ian; Hiratzka, Shannon; Hart, Robert A.; Study Group, International Spine. *Readmission, Reoperation and Index Length of Stay Resulting from Specific Complications Following Adult Deformity Surgery.* IMAST 2014. Valencia, Spain – **podium**
69. Liabaud, Barthelemy; Ferrero, Emmanuelle; **Ames, Christopher P.**; Kebaish, Khaled; Mundis, Gregory M.; Hostin, Richard; Gupta, Munish C.; Boachie-Adjei, Oheneba; Smith, Justin S.; Hart, Robert A.; Diebo, Bassel G.; Protopsaltis, Themistocles S.; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *Sagittal Alignment following Lumbar 3-Column Osteotomy: Does the Level of Resection Matter?* IMAST 2014. Valencia, Spain – **podium**
70. Challier, Vincent; Liu, Shian; **Ames, Christopher P.**; Kebaish, Khaled; Obeid, Ibrahim; Hostin, Richard; Klineberg, Eric; Boachie-Adjei, Oheneba; Smith, Justin S.; Akbarnia, Behrooz A.; Bianco, Kristina; Protopsaltis, Themistocles S.; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *Three-Column Osteotomies in Elderly Patients: Is It Worth it?* IMAST 2014. Valencia, Spain – **podium**
71. Schwab, Frank J.; Diebo, Bassel G.; Smith, Justin S.; Hostin, Richard; Shaffrey, Christopher I.; Cunningham, Matthew E.; Mundis, Gregory M.; **Ames, Christopher P.**; Burton, Douglas C.; Bess, Shay; Gupta, Munish C.; Hart, Robert A.; Protopsaltis, Themistocles S.; Lafage, Virginie; Study Group, International Spine. *Fine-Tuned Surgical Planning in Adult Spinal Deformity: Determining the Lumbar Lordosis Necessary by Accounting for both Thoracic Kyphosis and Pelvic Incidence.* IMAST 2014. Valencia, Spain – **podium**
72. Lafage, Virginie; Matsumoto, Morio; Hosogane, Naobumi; Smith, Justin S.; Protopsaltis, Themistocles S.; Yamato, Yu; Matsuyama, Yukihiro; Taneichi, Hiroshi; Liu, Shian; Ferrero, Emmanuelle; Shaffrey, Christopher I.; Schwab, Frank J.; **Ames, Christopher P.**; Study Group, International Spine. *Impact of Ethnicity on Adult Spinal Deformity (ASD) Surgical Outcomes: An Analysis of Japanese and North American Databases.* IMAST 2014. Valencia, Spain – **podium**
73. Smith, Justin S.; Shaffrey, Christopher I.; Lafage, Virginie; Schwab, Frank J.; Protopsaltis, Themistocles S.; Klineberg, Eric; Gupta, Munish C.; Fu, Kai-Ming; Hostin, Richard; Deviren, Vedat; Hart, Robert A.; Burton, Douglas C.; Bess, Shay; **Ames, Christopher P.**; Study Group, International Spine. *Prospective, Multi-Center Assessment of Nonoperative Treatment Outcomes and Conversion to Operative Treatment for Adult Spinal Deformity: Minimum 2-Year Follow-Up.* IMAST 2014. Valencia, Spain – **podium**

74. Liu S., Lafage R., Smith J.S., Protopsaltis T.S., Lafage V., Challier V., Shaffrey C.I., Kim H.J., Arnold P., Chapman J., Schwab F., Massicotte E., Yoon T., Fehlings M.G., **Ames C.P.**, 2015. *The Impact of Dynamic Alignment, Motion and Center of Rotation on Myelopathy Grade and Regional Disability in Cervical Spondylotic Myelopathy*. Global Spine Congress, Buenos Aires, Argentina. – **podium**
75. Protopsaltis T.S., Fehlings M.G., Liu S., Smith J.S., Lafage V., Shaffrey C.I., Kim H.J., Arnold P., Chapman J., Lafage R., Challier V., Schwab F., Massicotte E., Yoon T., **Ames C.P.**, 2015. *Impact of Regional and Focal Cervical Alignment on Myelopathy Severity: Report of 151 Patients*. Global Spine Congress, Buenos Aires, Argentina. – **podium**
76. Scheer J.K., Smith J.S., Passias P.G., Soroceanu A., Boniello A.J., Schwab F., Shaffrey C.I., Kim H.J., Protopsaltis T.S., Mundis G.M., Gupta M.C., Klineberg E., Lafage V., **Ames C.P.**, ISSG, 2015. *The Presence of Preoperative Cervical Deformity in Adult Spinal Deformity Patients is a Strong Predictor of Inferior Outcomes and Failure to Reach MCID at 2 Year Follow up: Analysis of 235 Patients*. Global Spine Congress, Buenos Aires, Argentina. – **podium**
77. Smith J.S., Lafage V., Shaffrey C.I., Schwab F., Hostin R.A., Boachie-Adjei O., Akbarnia B.A., Klineberg E., Gupta M., Deviren V., Hart R., Burton D.C., Bess S., **Ames C.P.**, 2015. *Outcomes of Operative and Nonoperative Treatment for Adult Spinal Deformity (ASD): A Prospective, Multi-Center Matched and Unmatched Cohort Assessment with Minimum 2-Year Follow-Up*. Global Spine Congress, Buenos Aires, Argentina. – **podium**
78. Lau D., Haruki F., Clark A.J., Smith J.S., Bess S., Shaffrey C.I., Schwab F., Lafage V., Deviren V., Hart R.A., Kebaish K., **Ames C.P.**, 2015. *Clinical Impact Correlation of a Delphi based Proximal Junctional Kyphosis Severity Scale and HRQOL*. Global Spine Congress, Buenos Aires, Argentina. – **podium**
79. Scheer J.K., Smith J.S., Passias P.G., Soroceanu A., Boniello A.J., Schwab F., Shaffrey C.I., Kim H.J., Protopsaltis T.S., Mundis G.M., Gupta M.C., Klineberg E., Lafage V., **Ames C.P.**, ISSG, 2015. *The Presence of Preoperative Cervical Deformity in Adult Spinal Deformity Patients is a Strong Predictor of Inferior Outcomes and Failure to Reach MCID at 2 Year Follow up: Analysis of 235 Patients*. Global Spine Congress, Buenos Aires, Argentina. – Podium
80. Jain A., **Ames C.P.**, Lafage V., Neuman B., Sciubba D., Hart R., Scheer J.K., Kelly M., Bess S., Hostin R., Shaffrey C., Gupta M., Schwab F., Kebaish K., ISSG, 2015. *Postoperative Coronal Malalignment is Associated with Significantly Poor Patient Reported Outcomes in Operatively Treated Adult Spinal Deformity*. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia. – Podium
81. Lafage R., Bess S., Glassman S., **Ames C.P.**, Burton D., Harris B., Hart R., Kim H.J., Klineberg E., Line B., Scheer J.K., Protopsaltis T., Schwab F., Lafage V., ISSG, 2015. *Novel Virtual Modeling of Alignment Following ASD Surgery: Establishing Relationships Between Compensatory Changes and Overcorrection Due to Proximal Junctional Kyphosis*. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia. – Podium

82. Scheer J.K., Keefe M., Kelly M.P., Lafage V., Bess S., Burton D.C., Hart R.A., Jain A., Protopsaltis T.S., Hostin R., Shaffrey C.I., Smith J.S., Schwab F., Ames C.P., ISSG, 2015. *Importance of Patient Reported Individualized Goals When Assessing Outcomes For Adult Spinal Deformity (ASD): Initial experience with a Patient Generated Instrument (PGI)*. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia. – Podium
83. Sciubba D., Jain A., Neuman B., Kebaish K., Passias P., Zebala L., Kim H.J., Protopsaltis T., Scheer J.K., Smith J.S., Hamilton D.K., Bess S., Klineberg E., Ames C.P., ISSG, 2015. *Development of a Preoperative Adult Spinal Deformity Frailty Index that Correlates to Common Quality and Value Metrics: Length of Stay, Major Complications and Patient Reported Outcomes*. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia. – Podium
84. Neuman B.J., Scheer J.K., Ailon T., Klineberg E., Sciubba D., Jain A., Kim H.J., Zebala L., Passias P., Daniels A., Burton A., Protopsaltis T., Hamilton D.K., Ames C.P., ISSG, 2015. *Development and Validation of a Novel Adult Spinal Deformity Surgical Invasiveness Score: Analysis of 464 patients*. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia. – Podium
85. Theologis A.A., Scheer J.K., Ailon T., Smith J.S., Shaffrey C., Bess S., Gupta M., Klineberg E., Kebaish K., Schwab F., Lafage V., Burton D., Hart R., Ames C.P., ISSG, 2015. *The impact of depression on 2-year outcomes after adult spinal deformity surgery*. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia. – Podium
86. Jain A., Kebaish K., Sciubba D., Neuman B., Scheer J.K., Schwab F., Lafage V., Protopsaltis T., Burton D., Smith J.S., Shaffrey C., Hostin R., Robinson C., Ames C.P., ISSG, 2015. *Early Recovery Kinetics Predict 3-Year Outcomes in Operatively Treated Adult Patients with Spinal Deformity*. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia. – Podium
87. Jain A., Lafage V., Kelly M., Neuman B., Sciubba D., Bess S., Shaffrey C., Ames C.P., Scheer J.K., Burton D., Gupta M., Hart R., Hostin R., Kebaish K., ISSG, 2015. *Validity, Reliability and Responsiveness of SRS-7 as a Functional Outcome Measure for Operatively Treated Adult Spinal Deformity (ASD) Patients*. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia. – Podium
88. Scheer J.K., Smith J.S., Schwab F., Lafage V., Shaffrey C.I., Bess S., Daniels A., Hart R.A., Protopsaltis T.S., Mundis G.M., Ailon A., Burton D.C., Klineberg E., Ames C.P., ISSG, 2015. *Development of a Preoperative Predictive Model for Intra- or Peri-operative Major Complications with High Accuracy Validated with 558 ASD Patients*. 22nd International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia. – Podium
89. Ames C.P., Smith J.S., Schwab F., Jain A., Ailon T., Klineberg E., Scheer J.K., ISSG, 2015. *Development of Validated Computer Based Preoperative Predictive Model for Proximal Junction Failure (PJF) or Clinically Significant PJK with 86% Accuracy based on 510 ASD Patients with 2-year Follow-up*. Eurospine, Copenhagen, Denmark. – Podium

90. Smith J.S., Klineberg E., Schwab F., Shaffrey C.I., Bess S., Mundis G., Kim H.J., Scheer J.K., Ames C.P., ISSG, 2015. *Prospective Multicenter Assessment of Complication Rates Associated with Adult Spinal Deformity (ASD) Surgery in 291 Patients with Minimum 2-Year Follow-Up*. Eurospine, Copenhagen, Denmark. – Podium
91. Ames C.P., Smith J.S., Schwab F., Shaffrey C.I., Mundis G., Ailon T., Klineberg E., Scheer J.K., ISSG, 2015. *Development of a Preoperative Predictive Model for Intra- or Peri-operative Major Complications with High Accuracy Validated with 558 ASD Patients*. Eurospine, Copenhagen, Denmark. – Podium
92. Ames C.P., Jain A., Sciubba D., Kim H.J., Hamilton D.K., Scheer J.K., Neuman B., ISSG, 2015. *Regional Thoracic and Lumbar Sagittal Cobb Angle Changes and UIV Determine Evolution of Cervical Alignment after ASD surgery: Series of 171 patients with 2 year follow up*. Eurospine, Copenhagen, Denmark. – Podium
93. Smith J.S., Klineberg E., Schwab F., Shaffrey C.I., Bess S., Mundis G., Kim H.J., Scheer J.K., Ames C.P., ISSG, 2015. *Prospective Multicenter Assessment of Intraoperative and Perioperative Complication Rates Associated with Adult Spinal Deformity (ASD) Surgery in 558 Patients*. Eurospine, Copenhagen, Denmark. – Podium
94. Jalai C., Passias P., Poorman G., Smith J.S., Scheer J.K., Sciubba D., Hamilton D.K., Mundis G., Klineberg E., Lafage V., Shaffrey C.I., Ames C.P., ISSG, 2016. *Comparative Analysis of Intra-Operative Complications between a Multicenter Prospective Cervical Deformity Database Versus a Nationwide Sample*. 32nd Annual Meeting of the Cervical Spine Research Society: European Section, Prague, Czech Republic. – Podium
95. Miller E., Ailon T., Neuman B., Klineberg E., Mundis G., Sciubba D., Kebaish K., Lafage V., Scheer J.K., Smith J.S., Hamilton D.K., Bess S., Ames C.P., ISSG, 2016. *Assessment of a Novel Adult Cervical Deformity (ACD) Frailty Index (FI) as a Component of Preoperative Risk Stratification*. 32nd Annual Meeting of the Cervical Spine Research Society: European Section, Prague, Czech Republic. – Podium
96. Passias P., Jalai C., Smith J.S., Lafage V., Diebo B., Protosaltis T., Poorman G., Ramchandran S., Bess S., Shaffrey C., Ames C.P., Schwab F., ISSG, 2016. *Predictive Model for Patient-Reported Outcomes Scores Following Cervical Spine Deformity Surgical Correction*. 32nd Annual Meeting of the Cervical Spine Research Society: European Section, Prague, Czech Republic.
97. Ailon T., Scheer J., Shaffrey C., Lafage V., Protosaltis T., Ames C., ISSG, 2016. *Characterization of Distribution of Segmental Changes in Cervical Alignment After Lumbar Pedicle Subtraction Osteotomy*. Global Spine Conference, Dubai, United Arab Emirates. – Podium
98. Scheer J., Smith J., Schwab F., Lafage V., Hart R., Bess R.S., Line B., Diebo B., Protosaltis T., Jain A., Ailon T., Burton D., Klineberg E., Ames C., 2016. *Development of Validated Computer Based Preoperative Predictive Model for Proximal Junction Failure (PJF) or Clinically Significant PJK with 86% Accuracy based on 510 ASD Patients with 2-year Follow-up*. Global Spine Conference, Dubai, United Arab Emirates. – Podium
99. Klineberg E., Smith J., Lafage V., Shaffrey C., Bess R.S., Schwab F., Gupta M., Hart R., Protosaltis T., Mundis G., Kim H., Burton D., Scheer J., Ames C., 2016. *Prospective*

- Multicenter Assessment of Intraoperative and Perioperative Complication Rates Associated with Adult Spinal Deformity (ASD) Surgery in 558 Patients.* Global Spine Conference, Dubai, United Arab Emirates. – Podium
100. *Saigal R, Berven S, Lafage V, Kelly M, Kpjar B, Smith J, Dahl B, Cheung K, Carreon L, Schwab F, Rebmann K, Shaffrey C, Fehlings M, Lenke L, Ames C. *New motor deficit after spinal deformity surgery leads to worsened early HRQOL: subanalysis of 273 patients from Scoliosis Risk 1 prospective study.* Global Spine Congress. Dubai, United Arab Emirates. April 13-16, 2016.
101. *Smith JS, Lafage V, Shaffrey CI, Protosaltis T, Passias P, Schwab F, O'Brien M, Mundis G, Hart R, Kim HJ, Klineberg E, Riew KD, Ames CP, ISSG. *Prospective multicenter assessment of early complication rates associated with adult cervical deformity (ACD) surgery in 78 patients.* Global Spine Congress. Dubai, United Arab Emirates. April 13-16, 2016.
102. *Klineberg E, Smith JS, Lafage V, Shaffrey CI, Bess S, Schwab F, Gupta M, Hart R, Protosaltis T, Mundis G, Kim H, Burton D, Scheer J, Ames C, ISSG. *Prospective multicenter assessment of complication rates associated with adult spinal deformity surgery in 291 patients with minimum 2-year follow-up.* Global Spine Congress. Dubai, United Arab Emirates. April 13-16, 2016.
103. *Gupta M, Henry JK, Lafage V, Schwab F, Ames CP, Klineberg E, Smith JS, Deviren V, Shaffrey CI, Hart R, Hostin R, Mundis G, Kim HJ, Burton D, ISSG. *Reducing rod breakage and nonunion in pedicle subtraction osteotomy: the importance of rod number and configuration in 264 patients with 2-year follow-up.* Global Spine Congress. Dubai, United Arab Emirates. April 13-16, 2016.
104. *Berven S, Saigal R, Lafage V, Kelly M, Kpjar B, Smith J, Dahl B, Cheung K, Carreon L, Schwab F, Espinoza-Rebmann K, Shaffrey C, Fehlings M, Lenke L, Ames C. *Defining normative quality metrics in complex high-risk deformity cases: results from the Scoliosis-Risk 1 study.* Global Spine Congress. Dubai, United Arab Emirates. April 13-16, 2016.
105. Miller E., Jain A., Daniels A., Neuman B., Soroceanu A., Ailon T., Sciubba D., Bess S., Line B., Lafage V., Scheer J.K., Kebaish K., Smith J.S., Ames C.P., ISSG, 2016. *Assessment of a Novel Adult Spinal Deformity (ASD) Frailty Index (ASD-FI) to Assist with Risk Stratification for ASD Surgery.* 51st Annual Meeting & Course of the Scoliosis Research Society, Prague, Czech Republic. – Podium
106. Scheer J.K., Lafage R., Liabaud B., Schwab F., Smith J.S., Mundis G., Hostin R., Shaffrey C.I., Ames C.P., Burton D., Kim H.J., Bess S., Gupta M., Lafage V., ISSG, 2016. *Under-Correction of Sagittal Deformities Based on Age-Adjusted Alignment Thresholds Leads to Worse HRQOL While Over-Correction Provides No Additional Benefit.* 51st Annual Meeting & Course of the Scoliosis Research Society, Prague, Czech Republic. – Podium
107. Passias P., Oh C., Jalai C., Poorman G., Lafage R., Diebo B., Scheer J.K., Smith J.S., Shaffrey C.I., Protosaltis T., Kim H.J., Hart R., Lafage V., Ames C.P., ISSG, 2016. *Predictive Model for Patient-Reported Outcomes Scores Following Cervical Spine*

- Deformity Surgical Correction*. 51st Annual Meeting & Course of the Scoliosis Research Society, Prague, Czech Republic.
108. Gupta M., Diebo B.G., Protopsaltis T., Hart R.A., Smith J.S., Ames C.P., Lafage R., Scheer J.K., Kim H.J., Bess S., Burton D., Passias P., Schwab F., Lafage V., ISSG, 2016. *Bimodal Incidence and causes of proximal junctional kyphosis (PJK) in adult spinal deformity (ASD)*. 51st Annual Meeting & Course of the Scoliosis Research Society, Prague, Czech Republic.
109. Ramchandran S., Protopsaltis T.S., Sciubba D. Scheer J.K., Daniels A., Passias P.G., Lafage V., Kim H.J., Mundis G., Klineberg E., Hart R.A., Smith J.S., Shaffrey C.I., Ames C.P., ISSG, 2016. *Upper Cervical and Infra-cervical Compensation in Cervical Deformity Patients*. 51st Annual Meeting & Course of the Scoliosis Research Society, Prague, Czech Republic.
110. *Smith JS, Gupta M, Klineberg E, Shaffrey C, Schwab F, Lafage V, Liabaud B, Kim HJ, Hart R, Kostin R, Burton D, Deviren V, Bess S, Ames C, ISSG. *Complication Rates Associated with 3-Column Osteotomy in 82 Adult Spinal Deformity Patients: Retrospective Review of a Prospectively Collected Multicenter Consecutive Series with Minimum 2-Yr Follow-Up*. 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016.
111. *Miller E, Lenke L, Rebmann-Espinoza K, Neuman B, Sciubba D, Smith JS, Qiu Y, Dahl B, Matsuyama Y, Fehlings M, Cheung K, Carreon L, Ames C, AO Spine KFD, ISSG. *Use of the Adult Spinal Deformity (ASD) Frailty Index (ASD-FI) to Predict Major Complication Risk in the Scolio-Risk 1 Patient Database*. 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016.
112. *Kim HJ, Diebo BG, Schwab FJ, Lafage V, Mundis GM Jr, Shaffrey CI, Smith JS, Hart RA, Burton DC, Bess S, Ames CP, Klineberg EO, ISSG. *Factors associated with complication-free patients in adult spinal deformity surgery: a study of 301 patients with 2-year follow-up*. 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016.
113. *Miller E, Vila-Casademunt A, Sciubba D, Neuman B, Smith JS, Kebaish K, Alanay A, Acaroglu E, Kleinstuck F, Obeid I, Perez-Grueso FS, Pellise F, Ames C, ESSG, ISSG. *Development and External Validation of the Adult Spine Deformity (ASD) Frailty Index (ASD-FI)*. 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016. (Nominated for Hibbs Basic Research Award, 6 nominated out of a total 1,541 abstract submissions)
114. *Kim HJ, Bao H, Iyer S, Smith JS, Kelly MP, Gupta M, Albert TJ, Protopsaltis T, Mundis GM, Passias P, Neuman B, Klineberg E, Lafage V, Ames CP, ISSG. *Neurological complications in Adult Cervical Deformity Surgery*. 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016. (Nominated for Hibbs Clinical Research Award, 9 nominated out of a total 1,541 abstract submissions)
115. *Protopsaltis T, Ramchandran S, Kim HJ, Neuman B, Passias P, Lafage V, Lafage R, Gupta M, Hart R, Smith JS, Schwab F, Bess S, Shaffrey C, Ames C, ISSG. *Analysis of Early Distal Junctional Kyphosis (DJK) after Cervical Deformity Correction*. 51st

- Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016.
116. *Lafage R, Line B, Liabaud B, Schwab F, Smith JS, Gum J, Ames C, Hostin R, Mundis G, Burton D, Kim HJ, Bess S, Klineberg E, Lafage V, ISSG. *Orientation of The Upper Instrumented Segment Influences Proximal Junctional Disease Following Adult Spinal Deformity (ASD) Surgery*. 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016.
 117. *Ailon TT, Smith JS, Shaffrey CI, Soroceanu A, Lafage V, Schwab F, Burton D, Hart R, Gum J, Hostin R, Kelly M, Glassman S, Bess S, Ames C, ISSG. *Adult Spinal Deformity Patients with Previous Fusions have an Equal Chance of Reaching Substantial Clinical Benefit Thresholds in Health-related Quality of Life Measures but do not Reach the Same Absolute Level of Improvement*. 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016.
 118. *Kim HJ, Iyer S, Schwab F, Protopsaltis T, Passias P, Hostin R, Mundis G, Deviren V, Shaffrey C, Kebaish K, Smith JS, Bess S, Ames C, Klineberg E, ISSG. *Rates of Recovery and Outcomes after Neurologic Complications in Adult Spinal Deformity Surgery*. 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016.
 119. *Hosogane N, Ames CP, Matsumoto M, Yagi M, Matsuyama Y, Taneichi H, Yamato Y, Takeuchi D, Schwab FJ, Shaffrey CI, Smith JS, Bess S, Lafage V, ISSG. *Ethnic variations in surgical outcomes in older adult spinal deformity (ASD) patients: a comparison between North American and Japanese ASD patients with 2-year follow-up*. 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016.
 120. *Varghese JJ, Patel A, Liabaud B, Ames CP, Smith JS, Gum JL, Shaffrey CI, Diebo BG, Lafage R, Bess S, Schwab FJ, Lafage V, Kim HJ, ISSG. *The impact of pre-operative supine radiographs on surgical strategy in adult spinal deformity*. 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016.
 121. Protopsaltis T, Ramchandran S, Hamilton DK, Sciubba DM, Passias PG, Lafage V, Lafage R, Smith JS, Hart RA, Gupta MC, Burton DC, Bess S, Shaffrey CI, Ames CP, ISSG. *Analysis of successful vs failed radiographic outcomes following cervical deformity surgery*. 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016.
 122. Gupta MC, Diebo BG, Protopsaltis TS, Hart RA, Smith JS, Ames CP, Lafage R, Scheer JK, Kim HJ, Bess S, Burton DC, Passias PG, Schwab FJ, Lafage V, ISSG. *Bimodal incidence and causes of proximal junctional kyphosis in adult spinal deformity*. 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016.
 123. Liabaud B, Lafage R, Hart RA, Schwab FJ, Smith JS, Kim HJ, Hostin R, Passias PG, Ames CP, Mundis GM, Burton DC, Bess S, Klineberg EO, Lafage V, ISSG. *Proximal junctional kyphosis can be predicted following adult spinal deformity surgery: models*

- based on regional alignment changes within the fusion area.* 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016.
124. Passias P, Jalai C, Smith JS, Lafage V, Diebo B, Protosaltis T, Poorman G, Ramchandran S, Bess S, Shaffrey C, Ames C, Schwab F, ISSG. *Characterizing Cervical Spine Deformity Based on Existing Cervical and Adult Deformity Classification Schemes at Presentation and Following Treatment.* 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016.
125. Smith JS, Shaffrey C, Kim HJ, Neuman B, Klineberg E, Schwab F, Lafage R, Protosaltis T, Passias P, Mundis G, Hart R, Deviren V, Bess S, Ames CP, ISSG. *Three-column Osteotomy for Correction of Cervical Deformity: Alignment Changes and Early Complications in A Multicenter Prospective Series of 24 Patients.* 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016.
126. Smith JS, Line B, Bess S, Shaffrey C, Kim HJ, Mundis G, Klineberg E, Schwab F, Lafage V, Passias P, Protosaltis T, Hart R, Burton D, Ames C, ISSG. *The Health Impact of Symptomatic Adult Cervical Deformity: Comparison to United States Population Norms and Chronic Disease States Based on the EQ5D.* 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016.
127. Kim HJ, Bao H, Iyer S, Smith JS, Gpta MC, Albert TJ, Protosaltis TS, Munids GM, Passias PG, Neuman BJ, Klineberg EO, Lafage V, Ames CP, ISSG. *The posterior use of BMP-2 in cervical deformity surgery does not result in increased complications: a prospective multicenter study.* 51st Annual Meeting of the Scoliosis Research Society. Prague, Czech Republic. September 21-24, 2016.
128. Miller E., Ailon T., Neuman B.J., Klineberg E.O., Mundis G.M., Sciubba D., Kebaish K.M., Lafage V., Scheer J.K., Smith J.S., Hamilton D.K., Bess R.S., Ames C., ISSG, 2016. *Assessment Of A Novel Adult Cervical Deformity (Acd) Frailty Index (Fi) As A Component Of Preoperative Risk Stratification.* 44th Annual Meeting of the Cervical Spine Research Society, Toronto, Ontario, Canada.
129. Ramchandran S., Protosaltis T.S., Sciubba D., Scheer J.K., Daniels A.H., Passias P.G., Lafage V., Kim H.J., Mundis G.M., Klineberg E.O., Hart R.A., Smith J.S., Shaffrey C.I., Ames C., ISSG, 2016. *Upper Cervical And Infra-Cervical Compensation In Cervical Deformity Patients.* 44th Annual Meeting of the Cervical Spine Research Society, Toronto, Ontario, Canada
130. Protosaltis T.S., Ramchandran S., Kim H.J., Sciubba D., Passias P.G., Lafage V., Scheer J.K., Klineberg E.O., Gupta M.C. Hart R.A., Mundis G.M., Bess R.S., Smith J.S., Shaffrey C.I., Ames C., ISSG, 2016. *The Importance Of C2-Slope As A Singular Marker Of Cervical Deformity And The Link Between Upper-Cervical And Cervico-Thoracic Alignment Among Cervical Deformity Patients.* 44th Annual Meeting of the Cervical Spine Research Society, Toronto, Ontario, Canada.
131. Smith J.S., Shaffrey C.I., Kim H.J., Neuman B.J., Klineberg E.O., Schwab F.J., Lafage V., Lafage R., Scheer J.K., Protosaltis T.S., Passias P.G., Mundis G.M., Hart R.A., Deviren V., Bess R.S., Ames C., ISSG, 2016. *Three-Column Osteotomy for Correction of Cervical Deformity: Alignment Changes and Early Complications in a Multicenter*

- Prospective Series of 24 Patients.* 44th Annual Meeting of the Cervical Spine Research Society, Toronto, Ontario, Canada.
132. Smith J.S., Line B.G., Bess R.S., Shaffrey C.I., Kim H.J., Mundis G.M., Scheer J.K., Klineberg E.O., Gupta M.C., Daniels A.H., Kelly M.P., Gum J., Schwab F.J., Lafage V., Lafage R., Ailon T., Passias P.G., Protosaltis T.S., Hart R.A., Burton D.C., Deviren V., **Ames C.**, ISSG, 2016. *The Health Impact Of Symptomatic Adult Cervical Deformity: Comparison To United States Population Norms And Chronic Disease States Based On The EQ5D.* 44th Annual Meeting of the Cervical Spine Research Society, Toronto, Ontario, Canada.
133. Smith J.S., Shaffrey C.I., Kim H.J., Mundis G.M., Gupta M.C., Klineberg E.O., Schwab F.J., Lafage V., Lafage R., Passias P.G., Protosaltis T.S., Neuman B.J., Daniels A.H., Ailon T., Scheer J.K., Soroceanu A., Kebaish K. M., Hart R.A., O'Brien M.F., Burton D.C., Deviren V., Albert T.J., Riew D.K., Bess R.S., **Ames C.**, ISSG, 2016. *Outcomes of Operative Treatment for Adult Cervical Deformity: A Prospective Multicenter Assessment with 1-Year Follow-Up.* 44th Annual Meeting of the Cervical Spine Research Society, Toronto, Ontario, Canada. – **Podium**
134. Goldschmidt, E., Angriman F., Ferreyro B., Agarwal N., Tempel Z.J., Gerszten P., Kanter A., Okonkwo D., Passias P.G., Scheer J.K., Protosaltis T.S., Lafage V., Schwab F.J., Bess R.S., **Ames C.**, Shaffrey C.I., Hamilton D.K., 2016. *A Novel Score Predicting Spine Sagittal Imbalance Based on a Lateral Cervical Plain Radiograph.* 44th Annual Meeting of the Cervical Spine Research Society, Toronto, Ontario, Canada. – **Podium**
135. Smith J.S., Shaffrey C.I., Kim H.J., Mundis G., Gupta M., Klineberg E., Schwab F., Lafage V., Lafage R., Passias P., Protosaltis T., Neuman B., Daniels A., Ailon T., Scheer J.K., Soroceanu A., Kebaish A., Hart R.A., O'Brien M., Burton D., Deviren V., Albert T.J., Riew K.D., Bess S., **Ames C.P.** ISSG. 2017. *Outcomes of operative treatment for adult cervical deformity – a prospective multicenter assessment with one-year follow-up.* Cervical Spine Research Society – Europe Annual Meeting, Salzburg, Austria. – **Podium**
136. Smith JS, Shaffrey C, Kim HJ, Mundis G, Gupta M, Klineberg E, Schwab F, Lafage V, Lafage R, Passias P, Protosaltis T, Neuman B, Daniels A, Ailon T, Scheer J, Kebaish K, Hart R, O'Brien M, Burton D, Deviren V, Albert T, Riew D, **Ames C**, ISSG. *Outcomes of Operative Treatment for Adult Cervical Deformity: A Prospective Multicenter Assessment with 1-Year Follow-up.* 44th Annual Meeting of the Cervical Spine Research Society. Toronto, Ontario, Canada. December 1-3, 2016.
137. *Iyer S, Hongda B, Kim HJ, Smith JS, Kelly MP, Gupta MC, Albert TJ, Protosaltis TS, Mundis GM, Passias PG, Neuman BJ, Klineberg EO, Lafage V, **Ames CP**. *Cervical deformity surgery does not result in post-operative dysphagia: A prospective cohort study.* 44th Annual Meeting of the Cervical Spine Research Society. Toronto, Ontario, Canada. December 1-3, 2016.
138. *Passias PG, Jalai C, Kim HJ, Smith JS, **Ames CP**, Hamilton DK, Eastlack RK, Burton DC, Gupta MC, Bess S, Lafage V, Schwab F, ISSG. *Adult spinal deformity patients with proximal junctional kyphosis adjust with cervical malalignment at similar rates but distinct characteristics relative to those unaffected.* 44th Annual Meeting of the Cervical Spine Research Society. Toronto, Ontario, Canada. December 1-3, 2016.

139. *Ramchandran S, Hamilton DK, Sciubba D, Passias PG, Lafage V, Lafage R, Hart RA, Burton DC, Bess S, Gupta MC, Smith JS, Shaffrey CI, Ames CP, ISSG. *Analysis of successful vs failed radiographic outcomes following cervical deformity surgery*. 44th Annual Meeting of the Cervical Spine Research Society. Toronto, Ontario, Canada. December 1-3, 2016.
140. *Kim HJ, Iyer S, Bao H, Protosaltis TS, Mundis GM, Passias PG, Neuman B, Klineberg E, Lafage V, Ames CP, ISSG. *The posterior use of BMP-2 in cervical deformity surgery does not result in increased peri-operative complications: A prospective multicenter study*. 44th Annual Meeting of the Cervical Spine Research Society. Toronto, Ontario, Canada. December 1-3, 2016.
141. Protosaltis TS, Ramchandran S, Kim HJ, Neuman B, Passias PG, Lafage V, Gupta MC, Hart RA, Schwab F, Bess S, Smith JS, Shaffrey CI, Ames CP, ISSG. *Analysis of early distal junction kyphosis (DJK) after cervical deformity correction*. 44th Annual Meeting of the Cervical Spine Research Society. Toronto, Ontario, Canada. December 1-3, 2016.
142. Protosaltis TS, Cruz D, Spiegel MA, Day L, Ames CP, Burton DC, Smith JS, Shaffrey CI, Schwab FJ, Errico TJ, Bess S, Lafage V. *Total Disability Index (TDI): A single measure of disability in patients with neck and/or back pain*. 44th Annual Meeting of the Cervical Spine Research Society. Toronto, Ontario, Canada. December 1-3, 2016.
143. Smith JS, Line B, Bess S, Shaffrey C, Kim HJ, Mundis G, Schher J, Klineberg E, Gupta M, Daniels S, Kelly MP, Gum J, Schwab F, Lafage V, Lafage R, Ailon T, Passias P, Protosaltis T, Hart R, Burton D, Deviren V, Ames C, ISSG. *The Health Impact of Symptomatic Adult Cervical Deformity: Comparison to United States Population Norms and Chronic Disease States Based on the EQ5D*. 44th Annual Meeting of the Cervical Spine Research Society. Toronto, Ontario, Canada. December 1-3, 2016.
144. Protosaltis T, Ramchandran S, Kim HJ, Sciubba D, Passias PG, Lafage C, Scheer J, Klineberg E, Gupta M, Hart R, Mundis G, Bess S, Smith JS, Shaffrey CI, Ames CP, ISSG. *The importance of C2-slope as a singular marker of cervical deformity and the link between upper-cervical and cervico-thoracic alignment among cervical deformity patients*. 44th Annual Meeting of the Cervical Spine Research Society. Toronto, Ontario, Canada. December 1-3, 2016.
145. Ramchandran S, Protosaltis T, Sciubba D, Scheer JK, Daniels AH, Passias P, Lafage V, Kim HJ, Mundis GM, Klineberg E, Hart RA, Smith JS, Shaffrey CI, Ames CP, ISSG. *Upper cervical and infra-cervical compensation in cervical deformity patients*. 44th Annual Meeting of the Cervical Spine Research Society. Toronto, Ontario, Canada. December 1-3, 2016.
146. Miller E, Ailon T, Neuman B, Klineberg E, Mundis G, Sciubba D, Kebaish K, Lafage V, Scheer J, Smith JS, Hamilton DK, Bess S, Ames C. *Assessment of a novel cervical deformity (ACD) frailty index (FI) as a component of preoperative risk stratification*. 44th Annual Meeting of the Cervical Spine Research Society. Toronto, Ontario, Canada. December 1-3, 2016.
147. Smith J.S., Shaffrey C.I., Kim H.J., Neuman B., Klineberg E., Schwab F., Lafage V., Lafage R., s Protosaltis T., Passias P., Mundis G., Hart R.A., Deviren V., Bess S., Ames

- C.P.** ISSG. 2017. *Three-column osteotomy for correction of cervical deformity – alignment changes and early complications in a multicenter prospective series of 24 patients*. Cervical Spine Research Society – Europe Annual Meeting, Salzburg, Austria. – **Podium**
148. Smith J.S., Line B., Bess S., Shaffrey C.I., Kim H.J., Mundis G., Scheer J.K., Klineberg E., Gupta M., Daniels A., Kelly M., Gum J., Schwab F., Lafage V., Lafage R., Ailon T., Passias P., Protopsaltis T., Hart R.A., Burton D., Deviren V., **Ames C.P.** ISSG. 2017. *The health impact of adult cervical deformity in patients presenting for surgical treatment – comparison to population norms and chronic disease states based on the EQ-5D*. Cervical Spine Research Society – Europe Annual Meeting, Salzburg, Austria. – **Podium**
149. *Koller H, Smith JS, Mehdian H, **Ames CP**, Bartels RHMA, Schroeder J, Ferch R, Toyone T, Deviren V, Shaffrey C, Robinson Y. *The CSRS-ES cervical kyphosis study*. Cervical spine Research Society European Section. Salzburg, Austria. May 24-26, 2017.
150. *Passias P, Vasquez-Montes D, Poorman GW, Protopsaltis T, Horn S, Diebo B, **Ames CP**, Smith JS, Lafage V, Lafage R, Klineberg E, Shaffrey C, Bess S, Schwab F, ISSG. c. Annual Meeting of the European Cervical Spine Research Society. Salzburg, Germany. May 24-27, 2017.
151. *Zygourakis CC, Scheer J, Upton L, Yoon S, Yeremaneni S, Hostin R, O'Brien MF, Shaffrey C, Smith JS, Deviren V, **Ames CP**. *Direct cost analysis of 38 cervical spinal deformity operations across two major spinal deformity centers with implications for catastrophic costs and 90-day cost bundles*. Annual Meeting of the European Cervical Spine Research Society. Salzburg, Germany. May 24-27, 2017.
152. Ailon T., Smith J.S., Shaffrey C.I., Kim H.J., Mundis G., Gupta M., Klineberg E., Schwab F., Lafage V., Lafage V., Passias P., Protopsaltis T., Neuman B., Daniels A., Scheer J.K., Soroceanu A., Hart R.A., Burton D., Deviren V., Albert T.J., Riew K.D., Bess S., **Ames C.P.** 2017. *Outcomes of Operative Treatment for Adult Cervical Deformity: A Prospective Multicenter Assessment with 1-Year Follow-up*. Global Spine Congress, Milan, Italy.
153. Smith J.S., Shaffrey C.I., Lafage R., Lafage V., Schwab F., Kim H.J., Scheer J.K., Protopsaltis T., Passias P., Mundis G., Hart R., Neuman B., Klineberg E., Hostin R., Bess S., Deviren V., Ames C.P. 2017. *Three-column Osteotomy for Correction of Cervical and Cervicothoracic Deformities: Alignment Changes and Early Complications in A Multicenter Prospective Series of 24 Patients*. Global Spine Congress, Milan, Italy.
154. Scheer J.K., Ailon T., Smith J.S., Hart R.A., Burton D., Bess S., Neuman B., Passias P., Miller E., Shaffrey C.I., Schwab F., Lafage V., Klineberg E., **Ames C.P.** 2017. *Predictive Modeling of Length of Hospital Stay (LOS) Following Adult Spinal Deformity (ASD) Correction: Analysis of 653 Patients with an Accuracy of 75% within 2 Days*. Global Spine Congress, Milan, Italy.
155. Miller E., Hamilton D.K., Daniels A., Neuman B., Kebaish K., Scheer J.K., Smith J.S., Shaffrey C.I., **Ames C.P.** 2017. *Surgical Strategy Can Mitigate Effects of Patient Factors on Pseudarthrosis Rate at 2 Years Following Adult Deformity Surgery (ASD)*. Global Spine Congress, Milan, Italy. – **Podium**

156. Miller E., Lenke L., Scheer J.K., Espinoza K., Neuman B., Kebaish K., Ames C.P. 2017. *Use of the Adult Spinal Deformity (ASD) Frailty Index (ASD-FI) to Predict Major Complications in the Scolio-Risk 1 Multicenter, International Patient Database*. Global Spine Congress, Milan, Italy. – **Podium**
157. Miller E., Neuman B., Sciubba D.M., Kebaish K., Scheer J.K., Smith J.S., Shaffrey C.I., Ames C.P. 2017. *Assessment of a Novel Adult Cervical Deformity (CD) Frailty Index (FI) as a Component of Preoperative Risk Stratification*. Global Spine Congress, Milan, Italy. – **Podium**
158. Miller E., Neuman B., Sciubba D.M., Scheer J.K., Smith J.S., Kebaish K., Shaffrey C.I., Ames C.P. 2017. *Comparison of Frailty Based on Cervical and Global SVA Classification*. Global Spine Congress, Milan, Italy. – **Podium**
159. Miller E., Ailon T., Scheer J.K., Daniels A., Hamilton D.K., Smith J.S., Shaffrey C.I., Neuman B., Kebaish K., Ames C.P. 2017. *Despite Higher Risk Stratification Scores, Frail Patients Achieve Greater Two-year Health Related Quality of Life Improvement from Baseline Compared to Nonfrail Patients Following Adult Spinal Deformity Surgery*. Global Spine Congress, Milan, Italy. – **Podium**
160. Miller E., Neuman B., Jain A., Sciubba D.M., Kebaish K., Scheer J.K., Smith J.S., Shaffrey C.I., Ames C.P. 2017. *Development and Assessment of a Novel Adult Spinal Deformity (ASD) Frailty Index (ASD-FI) to Assist with Risk Stratification for ASD Surgery*. Global Spine Congress, Milan, Italy. – **Podium**
161. Ailon T., Smith J.S., Shaffrey C.I., Soroceanu A., Lafage V., Schwab F., Burton D., Hart R.A., Kim H.J., Gum J., Hostin R., Kelly M., Glassman S., Scheer J.K., Bess S., Ames C.P. 2017. *Adult spinal deformity patients with previous fusions have an equal chance of reaching substantial clinical benefit thresholds in health-related quality of life measures but do not reach the same absolute level of improvement*. Global Spine Congress, Milan, Italy. – **Podium**
162. Scheer J.K., Lafage R., Liabaud B., Schwab F., Smith J.S., Mundis G., Hostin R., Shaffrey C.I., Burton D., Kim H.J., Bess S., Gupta M., Lafage V., Ames C.P. 2017. *Under-Correction of Sagittal Deformities Based on Age-Adjusted Alignment Thresholds Leads to Worse HRQOL While Over-Correction Provides No Additional Benefit*. Global Spine Congress, Milan, Italy.
163. Smith J.S., Shaffrey C.I., Klineberg E., Lafage V., Schwab F., Lafage R., Kim H.J., Hostin R., Mundis G., Gupta M., Liabaud B., Scheer J.K., Diebo B., Protosaltis T., Kelly M., Deviren V., Hart R.A., Burton D., Bess S., Ames C.P. 2017. *Complication Rates Associated with 3-Column Osteotomy in 82 Adult Spinal Deformity Patients: Retrospective Review of a Prospectively Collected Multicenter Consecutive Series with Minimum 2-Year Follow-Up*. Global Spine Congress, Milan, Italy. – **Podium**
164. Smith J.S., Line B., Bess S., Shaffrey C.I., Kim H.J., Mundis G., Scheer J.K., Klineberg E., Hostin R.A., Gupta M., Daniels A., Kelly M., Gum J., Schwab F., Lafage V., Lafage R., Ailon T., Passias P., Protosaltis T., Albert T.J., Riew K.D., Hart R.A., Burton D., Deviren V., Ames C.P. 2017. *The Health Impact of Symptomatic Adult Cervical Deformity: Comparison to United States Population Norms and Chronic Disease States Based on the EQ-5D*. Global Spine Congress, Milan, Italy. – **Podium**

165. Gupta M., Diebo B., Protosaltis T., Hart R., Smith J.S., Ames C.P., Lafage R., Scheer J.K., Kim H.J., Burton D., Passias P., Schwab F., Lafage V., Klineberg E., ISSG. 2017. *Bimodal Incidence and causes of proximal junctional kyphosis (PJK) in adult spinal deformity (ASD)*. Global Spine Congress, Milan, Italy. – **Podium**
166. Langella, Lafage V, Ames CP, Bess S, Burton D, Kim H, Hostin R, Klineberg E, Mundis G, Schwab F, Smith JS, Liabaud B, Berjano P, ISSG. The correlation between abdominal morphology and adult spinal deformity measured using xipho-pubic angle: a multi-center cohort study. Global Spine Congress. Milan, Italy. May 3-6, 2017.
167. Miller E., Neuman B., Sciubba D., Scheer J.K., Smith J.S., Ailon T., Kebaish K., Shay B., Lafage V., Line B., Shaffrey C.I., Schwab F., Klineberg E., Ames C.P., ISSG. 2017. *The Association of Frailty with Chin-Brow Vertebral Angle Compensatory Ability in 122 Cervical Deformity Patients and with global Sagittal Vertebral Angle in 813 Global Deformity Patients*. 24th International Meeting on Advanced Spine Techniques, Cape Town, South Africa. – **Podium**

NATIONAL

1. Acosta, Jr. FL, Aryan HE, Ames C.P. No evidence for association of Tau microtubule binding protein point mutations with early or late onset. Alzheimer's disease in 100 patients. HHMI-NIH Research Symposium 1992
2. Acosta, Jr. FL, Aryan HE, Ames C.P. Use of Coblation technology for end plate preparation in interbody fusion. Spine and Peripheral Nerve Joint Section Meeting 2001
3. Acosta, Jr. FL, Aryan HE, Ames C.P. Biomechanical evaluation of a resorbable anterior cervical graft containment plate. American Association of Neurological Surgeons Annual Meeting 2003
4. Acosta, Jr. FL, Aryan HE, Ames C.P. Biomechanical evaluation of a resorbable odontoid screw. American Association of Neurological Surgeons Annual Meeting 2003
5. Acosta, Jr. FL, Aryan HE, Ames C.P. Biomechanical testing of a novel C1-C2 screw - claw construct. Cervical Spine Research Society 2003
6. Acosta, Jr. FL, Aryan HE, Ames C.P. Biomechanical evaluation of a resorbable anterior cervical graft containment plate. Cervical Spine Research Society 2003
7. Acosta, Jr. FL, Aryan HE, Ames C.P. Biomechanical Evaluation of Rigid Stabilization Techniques for Three Column Injury in the Lower Cervical Spine. Cervical Spine Research Society 2003
8. Aryan HE, Acosta, Jr. FL, Ames C.P. Biomechanical analysis of a newly designed bioabsorbable anterior cervical plate. AANS/CNS Spine Joint Section 2003
9. Aryan HE, Acosta, Jr. FL, Ames C.P. Biomechanical analysis of a resorbable odontoid screw. AANS/CNS Spine Joint Section 2003

10. Acosta, Jr. FL, Aryan HE, Ames C.P. Novel Treatment of Basilar Invagination as a Consequence of Untreated C1 Fracture Associated with Transverse Ligament Avulsion. Congress of Neurosurgeons 2004
11. Acosta, Jr. FL, Aryan HE, Ames C.P. Technique Description of Lateral Paramedian Transpedicular Approach to Ventral Lesions of the Cervical and Cervico-Thoracic Spine. Congress of Neurosurgeons 2004
12. Acosta, Jr. FL, Aryan HE, Ames C.P. Two-level Lumbar Spondylectomy with En Bloc Dural Resection. Congress of Neurosurgeons 2004
13. Acosta, Jr. FL, Aryan HE, Ames C.P. Lateral Paramedian Transpedicular Approach to Ventral Lesions of the Cervical and Cervico-Thoracic Spine: Report of 2 cases. Congress of Neurosurgeons 2004
14. Aryan HE, Acosta, Jr. FL, Ames C.P. Rh-BMP-2 reverses the adverse effects of radiation on spinal fusion. North American Spine Society 2004
15. Aryan HE, Acosta, Jr. FL, Ames C.P. Biomechanics of stabilization after cervicothoracic compression-flexion injury. Cervical Spine Research Society 2004 Annual Meeting Podium Presentation
16. Acosta, Jr. FL, Aryan HE, Ames C.P. AANS Biomechanical Testing of the First Resorbable Anterior Cervical Plate. 2005
17. Acosta, Jr. FL, Aryan HE, Ames C.P. AANS Expandable Cages in Cervical Spine Reconstruction: Report of 22 Cases. 2005
18. Aryan HE, Acosta, Jr. FL, Ames C.P. Course Director: Image Guided Surgery and Radiosurgery of the Spine. AANS 2005
19. Aryan HE, Acosta, Jr. FL, Ames C.P. Multimodality Management of Symptomatic Vertebral Hemangioma. AANS 2005
20. Ames C.P., Tay, B., Puttlitz, C.P. Intraoperative Force Relaxation is Significant across the intervertebral space in anterior cervical discectomy. Cervical Spine Research Society 2005.
21. Aryan HE, Acosta, Jr. FL, Ames C.P. Faculty: Extreme Lateral Interbody Fusion. AANS 2005
22. F.L. Acosta, Jr., K.I. Auguste, C. Dowd, C. Chin, Ames C.P., P.R. Weinstein. "Multimodality management of symptomatic vertebral hemangiomas." AANS Meeting, Oral Presentation, April 2005.
23. Aryan HE, Ames C.P., Acosta Jr. FL. "Paramedian transpedicular approach and spinal reconstruction with artificial pedicle screws for ventral intradural tumors of the cervical spine." IMAST Meeting, July 2006.
24. Aryan HE, Ames C.P., Acosta Jr. FL. "Percutaneous Pre-Sacral Interbody Fusion for Degeneration of the L5-S1 Disc Space." IMAST Meeting, July 2006.

25. Aryan HE, Acosta Jr. FL., Ames C.P. "Percutaneous Pre-Sacral Interbody Fusion for Degeneration of the L5-S1 Disc Space." International Meeting on Advanced Spine Techniques (IMAST), July 2006.
26. Aryan HE, Acosta Jr. FL., Ames C.P. "Stand-Alone Anterior Lumbar Discectomy and Fusion (ALDF) with Plate: Initial Experience." International Meeting on Advanced Spine Techniques (IMAST), July 2006.
27. Womack, W; Ames, C.P., Puttlitz, C. Application Of A Modified Quasi-Linear Viscoelastic Model To The Cervical Disc." Orthopaedic Research Society. 2006
28. F.L. Acosta, Jr., J. Chi, A.T. Parsa, H.E. Aryan, C.P. Ames. "Results of a Modified Paramedian Transpedicular Approach with Radical Bone Resection for Intradural, Extramedullary Tumors of the Ventral Cervicothoracic Spine." AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Meeting, Oral Presentation, March 2006.
29. F.L. Acosta, Jr., H.E. Aryan, C.P. Ames. "Effects of age on perioperative and intermediate-term clinical outcomes and fusion rates after multilevel 360-degree lumbar fusion." AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Meeting, Oral Presentation, March 2006.
30. Acosta, Jr. FL, Aryan HE, Ames C.P. "Artificial Cervical Pedicle Screw Reconstruction for Degenerative and Neoplastic Disease: Intermediate-term Clinical and Radiographic Results." AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Meeting, Oral Presentation, March 2006
31. Ames C.P. "Stem Cell Advances in Disc Degeneration" Invited Presentation Joint Section Spine and Peripheral Nerves Phoenix AZ March 2007
32. F.L. Acosta, Jr., H.E. Aryan, C.P. Ames. "Patient satisfaction and radiographic results of lumbar spinal fusion without iliac crest autograft in 200 consecutive patients." AANS Meeting, Oral Presentation, April 2007.
33. F.L. Acosta, Jr., H.E. Aryan, J. Chi, A.T. Parsa, C.P. Ames. "Modified Paramedian Transpedicular Approach and Spinal Reconstruction for Intradural Tumors of the Cervical and Cervicothoracic Spine: Clinical Experience." AANS/CNS Section on Tumors Satellite Symposium, April 2007.
34. F.L. Acosta, Jr., C.P. Ames, J.M. Cloyd "Initial Posterior Stabilization Improves Regional Lordosis following Lumbar Corpectomy" ISSLS Hong Kong Oral Presentation 2007.
35. Eguizabal, J., Barnes, A., Acosta, F., Wheeler, D., Buckley, J. M., Lotz, J. and Ames, C. (2008). Biomechanical Stability And Pullout Strength Of The Cervical Artificial Pedicle Screw. Orthopaedic Research Society.
36. Eguizabal, J., Nguyen, T.-Q., Lotz, J., Buckley, J. M. and Ames, C. (2008). Effect Of Rod Diameter On Stability After Cervico Thoracic Osteotomy For Fixed Kyphosis. Scoliosis Research Society. Salt Lake City, Utah.

37. Eguizabal, J., Tufaga, M., Wheeler, D., Buckley, J. M., Ames, C. and Lotz, J. (2008). Validation of the Pure Moment Cable Pulley System for Spinal Biomechanics Testing. Spine Arthroplasty Society. Miami, FL.
38. Cheng, L., Liddle, K., Koch, K., McClellan, T. R., Deviren, V., Ames, C. and Buckley, J. M. (2009). Survival Of Human Cadaveric Lumbar Spines For High Cycle Fatigue Tests At Physiological Load Levels. ASME Summer Bioengineering Conference. Resort at Squaw Creek, Lake Tahoe, California, USA: 2.
39. Eguizabal, J., Nguyen, T.-Q., Lotz, J., Buckley, J. M. and Ames, C. (2009). Effect Of Rod Diameter On Stability After Cervico Thoracic Osteotomy For Fixed Kyphosis. Cervical Spine Research Society.
40. Eguizabal, J., Tufaga, M., Scheer, J. K., McDonald, E., Do, S., Lotz, J., Ames, C. and Buckley, J. M. (2009). Multisegmental Spinal Biomechanical Testing Using a Novel 3-D Sliding Ring Pure Moment Apparatus. Orthopaedic Research Society. Las Vegas, NV.
41. Koch, K., Tai, V., Burch, S., Mulligan, K., Ames, C., McClellan, R. T., Buckley, J. M. and Matityahu, A. (2009). In Vitro DEXA-BMD Measurements Affected By Type Of Soft Tissue Surrogate. ASME Summer Bioengineering Conference Resort at Squaw Creek, Lake Tahoe, CA, USA: 2.
42. Nguyen, T.-Q., Buckley, J. M., Ames, C. and Deviren, V. (2009). Fatigue Life Of Contoured Vitallium Posterior Spinal Fusion Rods Is Comparable To Stainless Steel. Orthopaedic Research Society Las Vegas, NV.
43. Ortiz, G., Koch, K., McClellan, R., Ames, C. and Buckley, J. M. (2009). Characterizing Spinous Process Strength: Implications For Interspinous Device Design. Orthopaedic Research Society Las Vegas, NV.
44. Rodriguez, J. P., Scheer, J. K., Eguizabal, J., Buckley, J. M., McClellan, T., Deviren, V. and Ames, C. (2009). Cervical Posterior Fusion Rods Undergo Substantial Bending Deformations For Activities Of Daily Living. ASME Summer Bioengineering Conference. Resort at Squaw Creek, Lake Tahoe, California, USA.
45. Scheer, J. K., Buckley, J. M., McClellan, R., Ames, C. and Eguizabal, J. (2009). Biomechanical Testing of C2 Corpectomy and Fusion Techniques. Orthopaedic Research Society Las Vegas, NV.
46. Scheer, J. K., Eguizabal, J., Currey, J. M., Buckley, J. M., McClellan, R. T. and Ames, C. (2009). Optimal Fusion Configuration Following C2 Corpectomy. ASME 2009 Summer Bioengineering Conference. Squaw Resort, Lake Tahoe, California, USA.
47. Scheer, J. K., Koch, K., Mulkerin, W., Nguyen, T.-Q., Currey, J., Buckley, J. M., Ames, C., McClellan, R. and Burch, S. (2009). Axialif® Versus Alif As Supplemental Hardware In Long Posterior Fusion Constructs. North American Spine Society.
48. Scheer, J. K., Mulkerin, W., Nguyen, T.-Q., Tia, S., Buckley, J. M., Ames, C. and Burch, S. (2009). Biomechanical Evaluation of AxialIF as Supplemental Hardware In Long Fusion Constructs. Orthopaedic Research Society Las Vegas, NV.

49. Scheer, J. K., Tang, J., Eguizabal, J., Buckley, J. M., McClellan, R. T. and Ames, C. (2009). Optimal Fusion Hardware Configuration Following C2 Corpectomy. Cervical Spine Research Society Annual Meeting. Salt Lake City, UT.
50. Cheng, L., Currey, J., Modak, A., McClellan, R. T., Pekmezci, M., Buckley, J. M. and Ames, C. (2010). Comparison Of Endplate Contact Force Profiles For Expandable Versus Non-Expandable Lumbar Interbody Cages. American Society of Mechanical Engineers (ASME), Naples, FL.
51. Cheng, L., Currey, J., Modak, A., McClellan, R. T., Pekmezci, M., Buckley, J. M. and Ames, C. (2010). Comparison Of Endplate Contact Force Profiles For Expandable Versus Non-Expandable Lumbar Interbody Cages North American Spine Society, Orlando, FL.
52. Cheng, L., Currey, J., Modak, A., McClellan, R. T., Pekmezci, M., Buckley, J. M. and Ames, C. (2010). Comparison Of Endplate Contact Force Profiles For Expandable Versus Non-Expandable Lumbar Interbody Cages. Orthopaedic Research Society, New Orleans, LA.
53. Cheng, L., Currey, J., Modak, A., McClellan, R. T., Pekmezci, M., Buckley, J. M. and Ames, C. (2010). FATIGUE FAILURE OF EXPANDABLE VS. FIXED INTERBODY CAGES: A BIOMECHANICAL INVESTIGATION. American Society of Mechanical Engineers, Naples, FL.
54. Cheng, L., Currey, J., Modak, A., McClellan, R. T., Pekmezci, M., Buckley, J. M. and Ames, C. (2010). Fatigue Failure of Expandable vs. Fixed Interbody Cages: A Biomechanical Investigation North American Spine Society, Orlando, FL.
55. Lafage V, Klineberg E, Schwab F, Akbarnia B, Ames C, Boachie-Adjel O, Burton D, Hart R, Hostin R, Shaffrey C, Wood K, Bess S, ISSG. Changes in thoracic kyphosis negatively impact sagittal alignment following lumbar pedicle subtraction osteotomy. North American Spine Society (paper 134). Orlando, FL 2010
56. Cheng, L. C., Currey, J., Modak, A., McClellan, R. T., Pekmezci, M., Buckley, J. M. and Ames, C. (2010). In Situ Fatigue Strength Of Expandable Versus Non-Expandable Lumbar Interbody Cages. Orthopaedic Research Society, New Orleans, LA.
57. Freire, C., Eguizabal, J., Herrera, T., Buckley, J. M. and Ames, C. (2010). Age Related Effects On The Outcome Of Spinal Fusion Surgery: A Meta-Analysis. Orthopaedic Research Society, New Orleans, LA.
58. Liu, J., Marmor, M., McClellan, R. T., Ames, C., Coughlin, R., Matityahu, A., Jergesen, H. and Buckley, J. M. (2010). Trends in In Situ Biomechanical Testing for Orthopaedic Applications. Orthopaedic Research Society, New Orleans, LA.
59. Rodriguez, J., Scheer, J. K., Eguizabal, J., Buckley, J. M., Deviren, V., McClellan, R. T. and Ames, C. (2010). Cervical Posterior Fusion Rods Undergo Substantial Bending Deformations for Activities of Daily Living. Orthopaedic Research Society, New Orleans, LA.

60. Scheer, J. K., Tang, J., Deviren, V., Acosta, F., Buckley, J. M., Pekmezci, M., McClellan, R. T. and Ames, C. (2010). Optimal Hardware Configuration across the Cervicothoracic Junction in Spines with Ankylosing Spondylitis: Effect of Posterior Rod Diameter and Material Type. Orthopaedic Research Society, New Orleans, LA.
61. Scheer, J. K., Tang, J., Deviren, V., Buckley, J. M., Pekmezci, M., McClellan, R. T. and Ames, C. (2010). Biomechanical Characterization of Fusion Constructs Across the Cervicothoracic Junction. Orthopaedic Research Society, New Orleans, LA.
62. Scheer, J. K., Tang, J. A., Deviren, V., Buckley, J. M., Pekmezci, M., McClellan, R. T. and Ames, C. P. (2010). Biomechanical Analysis of Cervicothoracic Junction Osteotomy in Cadaveric Model of Ankylosing Spondylitis: Effect of Rod Material and Diameter. ASME Summer Bioengineering Conference. Naples, FL.
63. Scheer, J. K., Tang, J. A., Deviren, V., Buckley, J. M., Pekmezci, M., McClellan, R. T. and Ames, C. P. (2010). Biomechanical Analysis of Osteotomy Type (OWO, CWO) and Rod Diameter for Treatment of Cervicothoracic Kyphosis. ASME Summer Bioengineering Conference. Naples, FL.
64. Scheer, J. K., Tang, J. A., Deviren, V., Buckley, J. M., Pekmezci, M., McClellan, R. T. and Ames, C. P. (2010). Biomechanical Analysis of Osteotomy Type (OWO, CWO) and Rod Diameter for Treatment of Cervicothoracic Kyphosis. North American Spine Society. Orlando, FL.
65. Scheer, J. K., Tang, J. A., Deviren, V., Buckley, J. M., Pekmezci, M., McClellan, R. T. and Ames, C. P. (2010). Revision Rod Strategies In Spinal Deformity with Hardware Failure: A Biomechanical Study ASME Summer Bioengineering Conference. Naples, FL.
66. Scheer, J. K., Tang, J. A., Deviren, V., Buckley, J. M., Pekmezci, M., McClellan, R. T. and Ames, C. P. (2010). Revision Rod Strategies In Spinal Deformity with Hardware Failure: A Biomechanical Study North American Spine Society. Orlando, FL.
67. Hostin R, Hart R, Line B, Ames C, LafageV, Schwab F, Burton D, Shaffrey C, Smith J, O'Brien M, Wood K, Bess S, ISSG (2010). Treatment parameters and injury mechanisms associated acute proximal junctional failure following posterior spinal fusion for deformity. Lumbar Spine Research Society (LSRS). Chicago, IL 2010
68. Deviren, V., Scheer, J. K. and Ames, C. P. (2010 - In Review). Pedicle Subtraction Osteotomy for Cervicothoracic Kyphosis: Technique and Report of 10 Cases. Cervical Spine Research Society. Charlotte, NC.
69. Liddle, K., Tufaga, M., Diekmann, G., Buckley, J., Tai, V., Mulligan, K., Ames, C. and McClellan, T. (2010-In Review). Assessment of Cancellous Bone Strength in the Lumbar Spine Using a "Smart" Ball-Tip Probe. North American Spine Society, Orlando, FL.
70. Liddle, K., Tufaga, M., Diekmann, G., Buckley, J., Tai, V., Mulligan, K., Ames, C. and McClellan, T. (2010-In Review). Assessment of Cancellous Bone Strength in the Lumbar Spine Using a "Smart" Ball-Tip Probe. ASME Summer Bioengineering Conference, Naples, FL.

71. Scheer, J. K., Tang, J., Deviren, V., Buckley, J. M., Pekmezci, M., McClellan, R. T. and **Ames, C. P.** (2010 - In Review). Biomechanical Analysis of Cervicothoracic Junction Osteotomy in Cadaveric Model of Ankylosing Spondylitis: Effect of Rod Material and Diameter. Cervical Research Society. Charlotte, NC.
72. Scheer, J. K., Tang, J., Deviren, V., Buckley, J. M., Pekmezci, M., McClellan, R. T. and **Ames, C. P.** (2010 - In Review). Biomechanical Analysis of Osteotomy Type (OWO, CWO) and Rod Diameter for Treatment of Cervicothoracic Kyphosis. Cervical Spine Research Society. Charlotte, NC.
73. Deviren, V., Scheer, J. K. and **Ames, C. P.** (2011 - In Review). Pedicle Subtraction Osteotomy for Cervicothoracic Kyphosis: Technique and Report of 10 Cases. American Academy of Orthopaedic Surgeons.
74. Smith J, Shaffrey C, **Ames C**, Deviren V, Fu KMG, Schwab F, Lafage V, Bess S, ISSG. Assessment of Symptomatic Rod Fracture Following Posterior Instrumented Fusion for Adult Spinal Deformity. Scoliosis Research Society (SRS). (paper 19). Louisville, KY. 2011.
75. Schwab F, Bess S, Blondel B, Hostin R, Shaffrey C, Smith J, Boachie-Adjei O, Burton D, Akbarnia B, Mundis G, **Ames C**, Kebaish K, Hart R, ISSG, Lafage V. Combined Assessment of Pelvic Tilt, Pelvic Incidence/Lumbar Lordosis Mismatch and Sagittal Vertical Axis Predicts Disability in Adult Spinal Deformity: A Prospective Analysis. Scoliosis Research Society (SRS). (paper 20). Louisville, KY 2011.
76. O'Brien M, Hostin R, Freeman C, Fleming N, Ogola G, Kudyakov R, Richter KM, deVenny JT, Myers N, **Ames C**, Berven S, ISSG. Analysis of Direct Cost for Four Diagnostic Categories of Adult Spinal Deformity (ASD). International Meeting on Advanced Spinal Techniques (IMAST). (paper 113). Louisville, KY 2011.
77. Scheer, J. K., Deviren, V., Buckley, J. M., Pekmezci, M., McClellan, R. T. and **Ames, C. P.** (2011 - In Review). Revision Rod Strategies in Spinal Deformity Correction: A Biomechanical Study American Academy of Orthopaedic Surgeons. San Diego, CA.
78. Scheer, J. K., Tang, J., Deviren, V., Buckley, J. M., Pekmezci, M., McClellan, R. T. and **Ames, C. P.** (2011 - In Review). Biomechanical Analysis of Osteotomy Type and Rod Diameter for Treatment of Cervicothoracic Kyphosis. American Academy of Orthopaedic Surgeons. San Diego, CA.
79. Scheer, J. K., Tang, J., Deviren, V., Buckley, J. M., Pekmezci, M., McClellan, R. T. and **Ames, C. P.** (2011 - In review). Biomechanical Analysis of Rod Material and Diameter for Cervicothoracic Ankylosing Spondylitis American Academy of Orthopaedic Surgeons. San Diego, CA.
80. Smith J, Lafage V, Klineberg E, Shaffrey C, Schwab F, Hart R, Bess S, Hostin R, Burton D, Gupta M, Deviren V, **Ames C**, ISSG. Correction of Sagittal Malalignment Following Pedicle Subtraction Osteotomy Improves Cervical Lordosis. North American Spine Society (NASS). Chicago, IL. 2011

81. Blondel B, Schwab F, Bess S, **Ames C**, Hart R, Smith J, Shaffrey C, Burton D, Boachie-Adjei O, ISSG, Lafage V. Over Correction by Osteotomy for Sagittal Plane Deformity: It Happens and Here is Why. North American Spine Society (NASS). Chicago, IL. 2011.
82. Smith J, Blondel B, Schwab F, Bess S, **Ames C**, Hart R, Shaffrey C, Burton D, Boachie-Adjei O, ISSG, Lafage V. Over Correction by Osteotomy for Sagittal Plane Deformity: It Happens and Here is Why. Congress of Neurological Surgeons (CNS). (paper 924). Washington, DC. 2011.
83. Tang JA, Scheer J, Smith J, Deviren V, Bess S, Hart RA, Lafage V, Shaffrey C, Schwab F, **Ames C**, ISSG. The Impact of Positive Regional Sagittal Alignment on Outcomes in Posterior Cervical Fusion Surgery. American Academy of Orthopaedic Surgeons (AAOS). (paper 572). San Francisco, CA. 2012.
84. Tang JA, Scheer J, Smith J, Deviren V, Bess S, Hart RA, Lafage V, Shaffrey C, Schwab F, **Ames C**, ISSG. The Impact of Positive Regional Sagittal Alignment on Outcomes in Posterior Cervical Fusion Surgery. AANS/CNS Section. (paper 101). Orlando, FL. 2012.
85. Tang JA, Scheer J, Smith J, Deviren V, Bess S, Hart RA, Lafage V, Shaffrey C, Schwab F, **Ames C**, ISSG. The Impact of Positive Regional Sagittal Alignment on Outcomes in Posterior Cervical Fusion Surgery. American Association of Neurological Surgeons (AANS). Miami, FL. 2012.
86. Smith J, Shaffrey C, Schwab F, Bess S, Blondel B, Hostin R, Boachie-Adjei O, Burton D, Akbarnia B, Mundis G, **Ames C**, Kebaish K, Hart R, ISSG, Lafage V. How the Assessment of Pelvic Tilt, Pelvic Incidence/Lumbar Lordosis Mismatch and Sagittal Vertical Axis Predicts Disability in Adult Spinal Deformity: A Prospective Analysis. American Association of Neurological Surgeons (AANS). Miami, FL. 2012
87. McCarthy I., O'Brien M.F., **Ames C.P.**, Errico T., Kim H.J., Smith J.S., Schwab F., Klineberg E., Scheer J.K., Shaffrey C.I., Gupta M., Hostin R., ISSG, 2014. *Incremental Cost-Effectiveness of Adult Spinal Deformity Surgery: Observed QALYs with Surgery Compared to Predicted QALYs without Surgery*. 82nd Annual Meeting of the American Association of Neurological Surgeons, 2014 – **Podium**
88. Smith J.S., Shaffrey C.I., Lafage V., Schwab F., Protopsaltis T.S., Klineberg E., Scheer J.K., Fu K., Hostin R., Deviren V., Hart R.A., Burton D.C., Bess S., **Ames C.P.**, ISSG, 2014. *Prevalence and Type of Cervical Deformity Among 470 Adults with Thoracolumbar Deformity*. 82nd Annual Meeting of the American Association of Neurological Surgeons, San Francisco CA. – **Podium**
89. Sciubba, Daniel M.; scheer, Justin K.; Smith, Justin S.; Lafage, Virginie; Klineberg, Eric; Gupta, Munish C.; Mundis, Gregory M.; Protopsaltis, Themistocles S.; Kim, Han Jo; Koski, Tyler; Hamilton, D. K.; Shaffrey, Christopher I.; Bess, Shay; Hart, Robert A.; **Ames, Christopher P.**; Study Group, International Spine. *Patients with Instrumented Fusions to the Ilium Report Greater Impairment of Perineal Care with Construct Extension to the Upper thoracic Versus Extension to the Thoracolumbar Junction with 2 year follow up*. SRS 2014 Annual Meeting, Anchorage Alaska – **podium**
90. McCarthy, Ian; Robinson, Chessie; O'Brien, Michael F.; Gupta, Munish C.; **Ames, Christopher P.**; Lafage, Virginie; Hart, Robert A.; Bess, Shay; Shaffrey, Christopher I.;

- Mundis, Gregory M.; Schwab, Frank J.; Kebaish, Khaled; Smith, Justin S.; Hostin, Richard; Study Group, International Spine. *Long Term Cost-Effectiveness of Adult Spinal Deformity Surgery*. SRS 2014 Annual Meeting, Anchorage Alaska – **podium**
91. Soroceanu, Alex; Passias, Peter G.; Boniello, Anthony J.; scheer, Justin K.; Schwab, Frank J.; Shaffrey, Christopher I.; Kim, Han Jo; Protopsaltis, Themistocles S.; Mundis, Gregory M.; Gupta, Munish C.; Klineberg, Eric; Lafage, Virginie; Smith, Justin S.; **Ames, Christopher P.**; Study Group, International Spine. *Risk of Development of New Onset Post Operative Cervical Deformity (CD) in Thoracolumbar Adult Spinal Deformity (ASD) and Effect on Clinical Outcomes at 2 year follow up*. SRS 2014 Annual Meeting, Anchorage Alaska – **podium**
92. **Ames, Christopher P.**; Passias, Peter G.; Soroceanu, Alex; Boniello, Anthony J.; scheer, Justin K.; Schwab, Frank J.; Shaffrey, Christopher I.; Kim, Han Jo; Protopsaltis, Themistocles S.; Mundis, Gregory M.; Gupta, Munish C.; Klineberg, Eric; Lafage, Virginie; Smith, Justin S.; Study Group, International Spine. *The Presence of Preoperative Cervical Deformity in Adult Spinal Deformity Patients is a Strong Predictor of Inferior Outcomes and Failure to Reach MCID at 2 Year Follow up: Analysis of 235 Patients*. SRS 2014 Annual Meeting, Anchorage Alaska – **podium**
93. Bess, Shay; Line, Breton; Lafage, Virginie; **Ames, Christopher P.**; Boachie-Adjei, Oheneba; Burton, Douglas C.; Hart, Robert A.; Gupta, Munish C.; Klineberg, Eric; Mundis, Gregory M.; Hostin, Richard; Schwab, Frank J.; Shaffrey, Christopher I.; Smith, Justin S.; Study Group, International Spine. *Intermediate Dosing of Recombinant Human Bone Morphogenetic Protein-2 (rhBMP-2) Improves Fusion Rates With No Increase in Major Complications but Does Not Improve Health Related Quality of Life for Adult Spinal Deformity (ASD) at Minimum Two Years: A Prospective, Multicenter Analysis*. SRS 2014 Annual Meeting, Anchorage Alaska – **podium**
94. Soroceanu, Alex; Burton, Douglas C.; Smith, Justin S.; Deviren, Vedat; Shaffrey, Christopher I.; Boachie-Adjei, Oheneba; Akbarnia, Behrooz A.; **Ames, Christopher P.**; Errico, Thomas J.; Bess, Shay; Hostin, Richard; Hart, Robert A.; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *Incidence Of Radiographic And Implant-Related Complications In Adult Spinal Deformity Surgery, Patient Risk Factors And Impact On Hrql*. SRS 2014 Annual Meeting, Anchorage Alaska – **podium**
95. Zebala, Lukas P.; Naef, Floreana A.; Funao, Haruki; Lafage, Virginie; Klineberg, Eric; Kelly, Michael P.; Gupta, Munish C.; Kim, Han Jo; Mundis, Gregory M.; Bess, Shay; Hart, Robert A.; Schwab, Frank J.; **Ames, Christopher P.**; Kebaish, Khaled; Study Group, International Spine. *Revision Surgery in Adult Spinal Deformity Patients Achieves Similar Improvement In HRQOL Compared to Primary Surgery: Prospective, Multicenter Analysis*. SRS 2014 Annual Meeting, Anchorage Alaska – **podium**
96. Hart, Robert A.; **Ames, Christopher P.**; Hiratzka, Jayme R.; Hamilton, D. K.; Bess, Shay ; Schwab, Frank J.; Shaffrey, Christopher I.; Kelly, Michael P.; Gates, Marilyn L.; Rahm, Mark D.; Gupta, Munish C.; Smith, Justin S.; Hostin, Richard; Klineberg, Eric; Study Group, International Spine. *When Does Proximal Junctional Failure Require Revision? Validation and Utility of the PJF Severity Score*. SRS 2014 Annual Meeting, Anchorage Alaska – **podium**

97. Smith, Justin S.; Lafage, Virginie; Shaffrey, Christopher I.; Schwab, Frank J.; Hostin, Richard; Boachie-Adjei, Oheneba; Akbarnia, Behrooz A.; Klineberg, Eric; Gupta, Munish C.; Deviren, Vedat; Hart, Robert A.; Burton, Douglas C.; Bess, Shay; **Ames, Christopher P.**; Study Group, International Spine. *Outcomes of Operative and Nonoperative Treatment for Adult Spinal Deformity (ASD): A Prospective, Multi-Center Matched and Unmatched Cohort Assessment with Minimum 2-Year Follow-Up.* SRS 2014 Annual Meeting, Anchorage Alaska – **podium**
98. Lafage, Virginie; Schwab, Frank J.; scheer, Justin K.; Klineberg, Eric; Sciubba, Daniel M.; Zebala, Lukas P.; Hostin, Richard; Obeid, Ibrahim; Koski, Tyler; Kelly, Michael P.; Bess, Shay; Shaffrey, Christopher I.; Smith, Justin S.; **Ames, Christopher P.**; Study Group, International Spine. *Adult Spinal Deformity Surgeons Are Unable to Accurately Predict Postoperative Spinal Alignment: Initial Analysis of a 3 Phase Study.* NASS 2014 Annual Meeting. San Francisco, California - **podium**
99. Smith, Justin S.; Lafage, Virginie; scheer, Justin K.; Shaffrey, Christopher I.; Lafage, Renaud; Klineberg, Eric; Gupta, Munish C.; Hostin, Richard; Kebaish, Khaled; Bess, Shay; Schwab, Frank J.; **Ames, Christopher P.**; Study Group, International Spine. *Spinal Pelvic Radiographic Thresholds for Regional Lumbar Disability are Age Dependent: Analysis of Multicenter Database of 833 patients.* NASS 2014 Annual Meeting. San Francisco, California - **podium**
100. **Ames, Christopher P.**; Lafage, Virginie; scheer, Justin K.; Kelly, Michael P.; Hostin, Richard; Hart, Robert A.; Klineberg, Eric; Protopsaltis, Themistocles S.; Deviren, Vedat; Sciubba, Daniel M.; Bess, Shay; Shaffrey, Christopher I.; Schwab, Frank J.; Smith, Justin S.; Study Group, International Spine. *Magnitude, Location and Factors Related to Regional and Global Correction Loss in Long Adult Deformity Constructs: Report of 183 Patients with 2 Year Follow up.* NASS 2014 Annual Meeting. San Francisco, California – **podium**
101. **Ames, Christopher P.**; scheer, Justin K.; Mundis, Gregory M.; Klineberg, Eric; Hart, Robert A.; Kelly, Michael P.; Deviren, Vedat; Nguyen, Stacie; McCarthy, Ian; Bess, Shay; Schwab, Frank J.; Shaffrey, Christopher I.; Lafage, Virginie; Smith, Justin S.; Study Group, International Spine. *The Effect of Patient Age on Recovery Kinetics in 149 Adult Spinal Deformity Patients with 2-year Follow-Up: A Novel Area Under the Curve Analysis.* NASS 2014 Annual Meeting. San Francisco, California – **podium**
102. Sciubba, Daniel M.; scheer, Justin K.; Smith, Justin S.; Klineberg, Eric; Gupta, Munish C.; Mundis, Gregory M.; Protopsaltis, Themistocles S.; Lafage, Virginie; Kim, Han Jo; Koski, Tyler; Kebaish, Khaled; Shaffrey, Christopher I.; Bess, Shay; Hart, Robert A.; Schwab, Frank J.; **Ames, Christopher P.**; Study Group, International Spine. *Elderly Patients over 75 years Undergoing Reconstructive Spinal Deformity Surgery Have Significantly Improved Health-Related Quality of Life Measures Versus Those Managed Non-operatively Despite High Surgical Complication Rate.* NASS 2014 Annual Meeting. San Francisco, California – **podium**
103. McCarthy, Ian; O'Brien, Michael F.; Robinson, Chessie; Gupta, Munish C.; **Ames, Christopher P.**; Lafage, Virginie; Hart, Robert A.; Bess, Shay; Shaffrey, Christopher I.; Schwab, Frank J.; Kebaish, Khaled; Smith, Justin S.; Klineberg, Eric; Hostin, Richard; Study Group, International Spine. *Efficiency in Adult Spinal Deformity Surgery: A Multi-*

- Center Comparison of Resource Use.* NASS 2014 Annual Meeting. San Francisco, California – **podium**
104. Klineberg, Eric; Gupta, Munish C.; Nguyen, Stacie; **Ames, Christopher P.**; Burton, Douglas C.; Kelly, Michael P.; Mundis, Gregory M.; Shaffrey, Christopher I.; Smith, Justin S.; Schwab, Frank J.; Errico, Thomas J.; Hostin, Richard; Kim, Han Jo; Bess, Shay; Study Group, International Spine. *Anterior Posterior Versus Posterior Only Correction in Adult Spinal Deformity Matched Curves: Similar Correction with More Intra-Operative, but Less Late Implant Complications.* NASS 2014 Annual Meeting. San Francisco, California – **podium**
105. Maier, Stephen P.; Bianco, Kristina; Smith, Justin S.; Hostin, Richard; Shaffrey, Christopher I.; Boachie-Adjei, Oheneba; Mundis, Gregory M.; **Ames, Christopher P.**; Burton, Douglas C.; Bess, Shay; Hart, Robert A.; Protopsaltis, Themistocles S.; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *Inter-center Variability in Adult Spinal Deformity Outcomes at 2 Years Post-treatment: A Retrospective Analysis from 6 Surgical Centers.* NASS 2014 Annual Meeting. San Francisco, California – **podium**
106. Protopsaltis, Themistocles S.; Boniello, Anthony J.; Smith, Justin S.; Passias, Peter G.; Shaffrey, Christopher I.; Boachie-Adjei, Oheneba; Mundis, Gregory M.; **Ames, Christopher P.**; Errico, Thomas J.; Bess, Shay; Gupta, Munish C.; Hart, Robert A.; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *Are established targets for spinal deformity correction valid? Pre- to Postoperative analysis using the T1 Pelvic Angle (TPA), a novel radiographic parameter of sagittal deformity.* NASS 2014 Annual Meeting. San Francisco, California – **podium**
107. Protopsaltis, Themistocles S.; Bianco, Kristina; Smith, Justin S.; Passias, Peter G.; Shaffrey, Christopher I.; Kim, Han Jo; Mundis, Gregory M.; **Ames, Christopher P.**; Burton, Douglas C.; Bess, Shay; Klineberg, Eric; Hart, Robert A.; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *The Lumbar Pelvic Angle (LPA), the lumbar component of the fan of spinopelvic alignment, correlates with HRQOL and PI-LL mismatch and predicts global alignment.* NASS 2014 Annual Meeting. San Francisco, California – **podium** .
108. Smith, Justin S.; Shaffrey, Christopher I.; Lafage, Virginie; Schwab, Frank J.; Protopsaltis, Themistocles S.; Klineberg, Eric; Gupta, Munish C.; Hostin, Richard; Fu, Kai-Ming; Soroceanu, Alex; Hart, Robert A.; Burton, Douglas C.; Bess, Shay; **Ames, Christopher P.**; Study Group, International Spine. *Comparison of Best vs Worst Clinical Outcomes for Adult Spinal Deformity (ASD) Surgery: A Prospective, Multi-Center Assessment with Minimum 2-Yr Follow-Up.* NASS 2014 Annual Meeting. San Francisco, California – **podium** .
109. Kim, Han Jo; Kelly, Michael P.; Nguyen, Stacie; Cunningham, Matthew E.; Lafage, Virginie; Smith, Justin S.; Shaffrey, Christopher I.; Schwab, Frank J.; Mundis, Gregory M.; Gupta, Munish C.; Hart, Robert A.; Burton, Douglas C.; Bess, Shay; **Ames, Christopher P.**; Klineberg, Eric; Study Group, International Spine. *A Comparison of Four Different Surgical Approaches to Adult Spinal Deformity - Which Approach is Best?.* NASS 2014 Annual Meeting. San Francisco, California – **podium** .

110. Passias, Peter G.; Smith, Justin S.; Soroceanu, Alex; Boniello, Anthony J.; scheer, Justin K.; Schwab, Frank J.; Shaffrey, Christopher I.; Kim, Han Jo; Protopsaltis, Themistocles S.; Mundis, Gregory M.; Gupta, Munish C.; Klineberg, Eric; Lafage, Virginie; **Ames, Christopher P.**; Study Group, International Spine. *Post Operative Cervical Deformity in 215 Thoracolumbar Adult Spinal Deformity Patients: Prevalence, Risk Factors, and Impact on Patient-Reported Outcome and Satisfaction at 2 Year Follow up*. NASS 2014 Annual Meeting. San Francisco, California – **podium** .
111. **Ames, Christopher P.**; Passias, Peter G.; Soroceanu, Alex; Boniello, Anthony J.; scheer, Justin K.; Schwab, Frank J.; Shaffrey, Christopher I.; Kim, Han Jo; Protopsaltis, Themistocles S.; Mundis, Gregory M.; Gupta, Munish C.; Klineberg, Eric; Lafage, Virginie; Smith, Justin S.; Study Group, International Spine. *The Presence of Preoperative Cervical Deformity in Adult Spinal Deformity Patients is a Strong Predictor of Inferior Outcomes and Failure to Reach MCID at 2 Year Follow up: Analysis of 235 Patients*. NASS 2014 Annual Meeting. San Francisco, California – **podium** .
112. **Ames, Christopher P.**; Lafage, Virginie; Oh, Taemin; scheer, Justin K.; Eastlack, Robert K.; Kelly, Michael P.; Klineberg, Eric; Hostin, Richard; Deviren, Vedat; McCarthy, Ian; Schwab, Frank J.; Bess, Shay; Shaffrey, Christopher I.; Smith, Justin S.; Study Group, International Spine. *Cervical Mal-alignment Persists Following Adult Thoracic Deformity Correction: A Multicenter Experience of 81 Patients with 2-Year Follow-Up*. NASS 2014 Annual Meeting. San Francisco, California – **podium** .
113. Kim, Han Jo; Protopsaltis, Themistocles S.; Nguyen, Stacie; Cunningham, Matthew E.; Passias, Peter G.; Smith, Justin S.; Shaffrey, Christopher I.; Schwab, Frank J.; Mundis, Gregory M.; Klineberg, Eric; Gupta, Munish C.; Hart, Robert A.; Burton, Douglas C.; Bess, Shay; **Ames, Christopher P.**; Study Group, International Spine. *High Post-Operative C2-7 SVA is Associated with Proximal Junctional Kyphosis*. NASS 2014 Annual Meeting. San Francisco, California – **podium** .
114. Bess, Shay; Line, Breton; Lafage, Virginie; **Ames, Christopher P.**; Boachie-Adjei, Oheneba; Burton, Douglas C.; Hart, Robert A.; Gupta, Munish C.; Klineberg, Eric; Mundis, Gregory M.; Hostin, Richard; Schwab, Frank J.; Shaffrey, Christopher I.; Smith, Justin S.; Study Group, International Spine. *Intermediate Dosing of Recombinant Human Bone Morphogenetic Protein-2 (rhBMP-2) Improves Fusion Rates With No Increase in Major Complications but Does Not Improve Health Related Quality of Life for Adult Spinal Deformity (ASD) at Minimum Two Years: A Prospective, Multicenter Analysis*. NASS 2014 Annual Meeting. San Francisco, California – **podium** .
115. Bess, Shay; Line, Breton; Lafage, Virginie; **Ames, Christopher P.**; Boachie-Adjei, Oheneba; Burton, Douglas C.; Hart, Robert A.; Akbarnia, Behrooz A.; Klineberg, Eric; Mundis, Gregory M.; Hostin, Richard; Schwab, Frank J.; Shaffrey, Christopher I.; Smith, Justin S.; Study Group, International Spine. *Prospective Analysis of Location of RhBMP-2 Use in Adult Spinal Deformity (ASD) Surgery Does Not Correlate with Site Specific*. NASS 2014 Annual Meeting. San Francisco, California – **podium** .

116. Bess, Shay; Line, Breton; Lafage, Virginie; **Ames, Christopher P.**; Boachie-Adjei, Oheneba; Burton, Douglas C.; Hart, Robert A.; Akbarnia, Behrooz A.; Klineberg, Eric; Mundis, Gregory M.; Hostin, Richard; Schwab, Frank J.; Shaffrey, Christopher I.; Smith, Justin S.; Study Group, International Spine. *Peak Timing and Associated Risk Factors for Specific Complications Following Adult Spinal Deformity (ASD) are Identifiable; A Guide for Surgeons and Patients*. NASS 2014 Annual Meeting. San Francisco, California – **podium** .
117. Passias, Peter G.; Yang, Sun; Soroceanu, Alex; Smith, Justin S.; Shaffrey, Christopher I.; Boachie-Adjei, Oheneba; Mundis, Gregory M.; **Ames, Christopher P.**; Burton, Douglas C.; Bess, Shay; Klineberg, Eric; Hart, Robert A.; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *Predictors of Revision Surgery in Adult Spinal Deformity and Impact on Patient-Reported Outcomes and Satisfaction – 2-Year Follow-Up*. NASS 2014 Annual Meeting. San Francisco, California – **podium** .
118. Zebala, Lukas P.; Naef, Floreana A.; Funao, Haruki; Lafage, Virginie; Klineberg, Eric; Kelly, Michael P.; Gupta, Munish C.; Kim, Han Jo; Mundis, Gregory M.; Bess, Shay; Hart, Robert A.; Schwab, Frank J.; **Ames, Christopher P.**; Kebaish, Khaled; Study Group, International Spine. *Revision Surgery in Adult Spinal Deformity Patients Achieves Similar Improvement In HRQOL Compared to Primary Surgery: Prospective, Multicenter Analysis*. NASS 2014 Annual Meeting. San Francisco, California – **podium** .
119. Liabaud, Barthelemy; Lafage, Virginie; Schwab, Frank J.; Smith, Justin S.; Hamilton, D. K.; Hiratzka, Jayme R.; Deviren, Vedat; **Ames, Christopher P.**; Kim, Han Jo; Bess, Shay; Mundis, Gregory M.; Klineberg, Eric; Hu, Serena; Hart, Robert A.; Study Group, International Spine. *How Much Lordosis Is Required for Sagittal Alignment in Patients with High or Low Pelvic Incidence?* NASS 2014 Annual Meeting. San Francisco, California – **podium**
120. Schwab, Frank J.; Diebo, Bassel G.; Smith, Justin S.; Hostin, Richard; Shaffrey, Christopher I.; Cunningham, Matthew E.; Mundis, Gregory M.; **Ames, Christopher P.**; Burton, Douglas C.; Bess, Shay; Gupta, Munish C.; Hart, Robert A.; Protopsaltis, Themistocles S.; Lafage, Virginie; Study Group, International Spine. *Fine-Tuned Surgical Planning in Adult Spinal Deformity: Determining the Lumbar Lordosis Necessary by Accounting for both Thoracic Kyphosis and Pelvic Incidence*. NASS 2014 Annual Meeting. San Francisco, California – **podium**
121. Fu Kai-Ming, Bess Shay, Lafage Virginie, **Ames Christopher**, Akbarnia Behrooz, Boachie-Adjei Oheneba, Burton Doug, Deviren Vedat, Hart Robert, Gupta Munish, Klineberg Eric, Errico Thomas, Mundis Gregory, Hostin Richard, O'Brien Michael, Kebaish Khaled, Schwab Frank, Shaffrey Christopher, Smith Justin, ISSG. *Operative Treatment of Adult Spinal Deformity (ASD) Improves Disease State and Physical Function Regardless of Age and Deformity Type, While Nonoperative Treatment Has No Impact; A 2 Year Prospective Analysis*. NASS 2014 Annual Meeting. San Francisco, California – **podium**
122. **Ames, Christopher P.**; Matsumoto, Morio; Hosogane, Naobumi; Smith, Justin S.; Protopsaltis, Themistocles S.; Yamato, Yu; Matsuyama, Yukihiro; Taneichi, Hiroshi; Lafage, Renaud; Ferrero, Emmanuelle; Shaffrey, Christopher I.; Lafage, Virginie; Study Group, International Spine. *Geographic and Ethnic Variation in Radiographic Disability*

- Thresholds: Analysis of North American and Japanese Operative Adult Spinal Deformity (ASD) Populations.* NASS 2014 Annual Meeting. San Francisco, California – **podium**
123. Liu, Shian; Liabaud, Barthelemy; Smith, Justin S.; Hostin, Richard; Shaffrey, Christopher I.; Cunningham, Matthew E.; Mundis, Gregory M.; **Ames, Christopher P.**; Burton, Douglas C.; Bess, Shay; Akbarnia, Behrooz A.; Hart, Robert A.; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *Reaching Minimal Clinically Important Difference Through Non-operative Treatment of Adult Spinal Deformity.* NASS 2014 Annual Meeting. San Francisco, California – **podium**
124. Smith, Justin S.; Lafage, Virginie; Shaffrey, Christopher I.; Schwab, Frank J.; Hostin, Richard; Boachie-Adjei, Oheneba; Akbarnia, Behrooz A.; Klineberg, Eric; Gupta, Munish C.; Deviren, Vedat; Hart, Robert A.; Burton, Douglas C.; Bess, Shay; **Ames, Christopher P.**; Study Group, International Spine. *Outcomes of Operative and Nonoperative Treatment for Adult Spinal Deformity (ASD): A Prospective, Multi-Center Matched and Unmatched Cohort Assessment with Minimum 2-Year Follow-Up.* NASS 2014 Annual Meeting. San Francisco, California – **podium**
125. Smith, Justin S.; Shaffrey, Christopher I.; Lafage, Virginie; Schwab, Frank J.; Protopsaltis, Themistocles S.; Klineberg, Eric; Gupta, Munish C.; Fu, Kai-Ming; Hostin, Richard; Deviren, Vedat; Hart, Robert A.; Burton, Douglas C.; Bess, Shay; **Ames, Christopher P.**; Study Group, International Spine. *Prospective, Multi-Center Assessment of Nonoperative Treatment Outcomes and Conversion to Operative Treatment for Adult Spinal Deformity: Minimum 2-Year Follow-Up.* NASS 2014 Annual Meeting. San Francisco, California – **podium**
126. Haruki Funao, MD, Floreana Naef, MD, Virginie Lafage, PhD, Frank J. Schwab, MD, Robert A. Hart, MD, Richard A. Hostin, MD, Gregory M. Mundis Jr., MD, Shay Bess, MD, Khaled M. Kebaish, MD, **Christopher P. Ames, MD**, Justin S. Smith, MD, PhD. *Time Course Changes of Health Related Quality of Life after three Column Osteotomies in Adult Spinal Deformity.* NASS 2014 Annual Meeting. San Francisco, California – **podium**
127. Fehlings MF, Smith JS, Challier V, Shaffrey CI, Kim HJ, Arnold P, Chapman J, Protopsaltis TS, Lafage V, Liu S, Lafage R, Schwab FJ, Massicotte E, Yoon ST, **Ames CP.** *Cervical spondylotic myelopathy: does surgical approach influence post-operative sagittal alignment and outcomes?* North American Spine Society 29th Annual Meeting. San Francisco, CA. November 12-15, 2014. **-podium**
128. Smith J.S., Shaffrey C.I., Lafage V., Schwab F., Heid R.W., Protopsaltis T.S., Klineberg E., Scheer J.K., Deviren V., Hart R., Bess S., Arnold P.M., Chapman J., Fehlings M.G., **Ames C.P.**, 2015. *Assessment of Impact of Long-Cassette Standing X-rays on Surgical Planning for Lumbar Pathology: An International Survey of Spine Surgeons.* 31st Annual Meeting of the CNS/AANS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ.– **podium**
129. Scheer J.K., Lafage V., Kelly M.P., Hostin R., Hart R.A., Klineberg E., Protopsaltis T.S., Deviren V., Sciubba D.M., Bess S., Shaffrey C.I., Schwab F., Smith J.S., **Ames C.P.**, ISSG, 2015. *Regional and Global Correction Loss in Long Adult Deformity Constructs: Magnitude, Location, and Factors from 183 Patients with 2 Year Follow-up.* 31st Annual

- Meeting of the CNS/AANS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – **podium**
130. Scheer J.K., Mundis G.M., Klineberg E., Hart R.A., Kelly M.P., Deviren V., Burton D.C., McCarthy I., Bess S., Schwab F., Shaffrey C.I., Lafage V., Smith J.S., **Ames C.P.**, ISSG, 2015. *Recovery Kinetics in 149 Adult Spinal Deformity Patients with 2-year Follow-up: The Effect of Complications and Reoperation Using an Area under the Curve Analysis*. 31st Annual Meeting of the CNS/AANS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – **podium**
 131. Scheer J.K., Smith J.S., Passias P.G., Soroceanu A., Boniello A.J., Schwab F., Shaffrey C.I., Kim H.J., Protosaltis T.S., Mundis G.M., Gupta M.C., Klineberg E., Lafage V., **Ames C.P.**, ISSG, 2015. *Adult Spinal Deformity Patients with Concomitant Preoperative Cervical Deformity Have Inferior Outcomes at 2 Year Follow up*. 31st Annual Meeting of the CNS/AANS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – **podium**
 132. Sciubba D.M., Scheer J.K., Smith J.S., Klineberg E., Gupta M., Mundis G.M., Protosaltis T., Lafage V., Kim H.J., Koski T.R., Lafage V., Kebaish K., Shaffrey C.I., Bess S., Hart R.A., Schwab F., **Ames C.P.**, ISSG, 2015. *Operative versus Non-operative Management in Elderly Patients over 75 years Undergoing Reconstructive Spinal Deformity Surgery*. 31st Annual Meeting of the CNS/AANS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – **podium**
 133. Smith J.S., Shaffrey C.I., Lafage V., Schwab F., Protosaltis T., Klineberg E., Gupta M., Scheer J.K., Hostin R., Fu K.G., Soroceanu A., Hart R., Burton D., Bess S., **Ames C.P.**, ISSG, 2015. *A Prospective, Multi-Center Assessment of the Best Versus Worst Clinical Outcomes for Adult Spinal Deformity (ASD) Surgery*. 31st Annual Meeting of the CNS/AANS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – **podium**
 134. Smith J.S., Lafage V., Shaffrey C.I., Schwab F., Hostin R.A., Boachie-Adjei O., Scheer J.K., Akbarnia B.A., Klineberg E., Gupta M., Deviren V., Hart R., Burton D.C., Bess S., **Ames C.P.**, 2015. *A Prospective, Multi-Center Matched and Unmatched Cohort Assessment of Outcomes for Operative and Nonoperative Treatment in Adult Spinal Deformity (ASD)*. 31st Annual Meeting of the CNS/AANS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – **podium**
 135. Smith J.S., Lafage V., Shaffrey C.I., Schwab F., Scheer J.K., Deviren V., Hart R., Bess S., **Ames C.P.**, 2015. *Outcomes of Operative and Nonoperative Treatment for Adult Spinal Deformity (ASD): A Prospective, Multi-Center Matched and Unmatched Cohort Assessment with Minimum 2-Year Follow-Up*. American Academy of Orthopedic Surgeons, Las Vegas, NV – **podium**
 136. Scheer J.K., Smith J.S., Clark A.C., Lafage V., Kim H.J., Rolston J.D., Eastlack R., Hart R.A., Protosaltis T.S., Kelly M.P., Kebaish K., Gupta M.C., Klineberg, E., Hostin R., Shaffrey C.I., Schwab F., **Ames C.P.**, ISSG, 2014 *Surgical treatment of Adult Spinal Deformity results in vastly superior back and leg pain improvement compared to non op treatment: Analysis of 421 patients with 2-year follow-up*. Annual Meeting of the Congress of Neurological Surgeons, Boston, MA – **podium**

137. Scheer J.K., Smith J.S., Lafage V., Shaffrey C.I., Lafage R., Klineberg E., Gupta M., Hostin R., Kebaish K., Bess S., Schwab F., Ames C.P., ISSG, 2014. *Spinal Pelvic Radiographic Thresholds for Regional Lumbar Disability are Age Dependent: Analysis of Multicenter Database of 833 patients*. Annual Meeting of the Congress of Neurological Surgeons, Boston, MA – **podium**
138. Soroceanu A., Passias P.G., Boniello A.J., Scheer J.K., Schwab F., Shaffrey C.I., Kim H.J., Protopsaltis T.S., Mundis G.M., Gupta M., Klineberg E., Lafage V., Smith J.S., Ames C.P., ISSG, 2014. *Risk of Development of New Onset Post Operative Cervical Deformity (CD) in Thoracolumbar Adult Spinal Deformity (ASD) and Effect on Clinical Outcomes at 2 year follows up*. Annual Meeting of the Congress of Neurological Surgeons, Boston, MA – **podium**
139. Smith J.S., Lafage V., Shaffrey C.I., Schwab F., Hostin R., Boachie-Adjei O., Scheer J.K., Akbarnia B.A., Klineberg E., Gupta M., Deviren V., Hart R.A., Burton D., Bess S., Ames C.P., ISSG, 2014. *Outcomes of Operative and Nonoperative Treatment for Adult Spinal Deformity (ASD): A Prospective, Multi-Center Matched and Unmatched Cohort Assessment with Minimum 2-Year Follow-Up*. Annual Meeting of the Congress of Neurological Surgeons, Boston, MA – **podium**
140. Kim H.J., Protopsaltis T.S., Nguyen S., Cunningham M.E., Passias P., Smith J.S., Shaffrey C.I., Schwab F., Mundis G.M., Klineberg E., Gupta M., Hart R.A., Burton D., Bess S., Ames C.P., 2014. *High Post-Operative C2-7 SVA is Associated with Proximal Junctional Kyphosis*. 42nd Annual Meeting of the Cervical Spine Research Society, Orlando, FL – **podium**
141. Bess S., Line B., Lafage V., Ames C.P., Boachie-Adjei O., Burton D., Hart R.A., Gupta M., Klineberg E., Mundis G.M., Hostin R., Schwab F., Shaffrey C.I., Smith J.S., ISSG, 2014. *Intermediate Dosing of Recombinant Human Bone Morphogenetic Protein-2 (rhBMP-2) Improves Fusion Rates With No Increase in Major Complications but Does Not Improve Health Related Quality of Life for Adult Spinal Deformity (ASD) at Minimum Two Years: A Prospective, Multicenter Analysis*. Annual Meeting of the Congress of Neurological Surgeons, Boston, MA – **podium**
142. Sciubba D.M., Scheer J.K., Smith J.S., Klineberg E., Gupta M., Mundis G.M., Protopsaltis T., Lafage V., Kim H.J., Koski T.R., Lafage V., Kebaish K., Shaffrey C.I., Bess S., Hart R.A., Schwab F., Ames C.P., ISSG, 2015. *Elderly Patients Undergoing Reconstructive Spinal Deformity Surgery Have Significantly Improved HRQOLs Versus Those Managed Non-operatively*. 83rd Annual Meeting of the American Association of Neurological Surgeons, Washington, DC. – **podium**
143. Smith J.S., Lafage V., Scheer J.K., Shaffrey C.I., Lafage R., Klineberg E., Gupta M., Hostin R., Kebaish K., Bess S., Schwab F., Ames C.P., ISSG, 2015. *Spinal Pelvic Radiographic Thresholds for Regional Lumbar Disability are Age Dependent: Analysis of Multicenter Database*. 83rd Annual Meeting of the American Association of Neurological Surgeons, Washington, DC. – **podium**
144. Scheer J.K., Smith J.S., Clark A.C., Lafage V., Kim H.J., Rolston J.D., Eastlack R., Hart R.A., Protopsaltis T.S., Kelly M.P., Kebaish K., Gupta M.C., Klineberg E., Hostin R., Shaffrey C.I., Schwab F., Ames C.P., ISSG, 2015. *Surgical treatment of Adult Spinal Deformity results in vastly superior back and leg pain improvement compared to non op*

- treatment: Analysis of 421 patients with 2-year follow-up.* 42nd Annual Meeting of the International Society for the Study of the Lumbar Spine, San Francisco, CA – **podium**
145. Liu S., Lafage R., Smith J.S., Protopsaltis T.S., Lafage V., Challier V., Shaffrey C.I., Kim H.J., Arnold P., Chapman J., Schwab F., Massicotte E., Yoon T., Fehlings M.G., **Ames C.P.**, 2015. *The Impact of Dynamic Alignment, Motion and Center of Rotation on Myelopathy Grade and Regional Disability in Cervical Spondylotic Myelopathy.* 31st Annual Meeting of the CNS/AANS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – **podium**
 146. Protopsaltis T.S., Fehlings M.G., Liu S., Smith J.S., Lafage V., Shaffrey C.I., Kim H.J., Arnold P., Chapman J., Lafage R., Challier V., Schwab F., Massicotte E., Yoon T., **Ames C.P.**, 2015. *Impact of Regional and Focal Cervical Alignment on Myelopathy Severity: Report of 151 Patients.* 31st Annual Meeting of the CNS/AANS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – **podium**
 147. Fehlings M.G., Challier V., Shaffrey C.I., Kim H.J., Arnold P., Chapman J., Protopsaltis T.S., Lafage V., Liu S., Lafage R., Schwab F., Massicotte E., Yoon T., **Ames C.P.**, 2015. *Cervical Spondylotic Myelopathy: Does Surgical Approach Influence Post-operative Sagittal Alignment and Outcomes* 31st Annual Meeting of the CNS/AANS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – **podium**
 148. Clark A.J, Oh T., Saigal R., Li C., Ryan D.J., Klineberg E., Hart R., Kim H.J., Schwab F., Smith J.S., Protopsaltis T.S., Lafage V., **Ames C.P.**, 2015. *Assessing the Impact of Thoracolumbar Deformity on Cervical Disability and Pain: How the Back Affects the Neck.* 31st Annual Meeting of the CNS/AANS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – **podium**
 149. Hostin R., Robinson C., O'Brien M., **Ames, C.P.**, Lafage V., Schwab F., Gupta M., Smith J.S., Burton D., Bess S., Shaffrey C.I., McCarthy I., ISSG, 2015. *Comparison of Resource Use and Health-related Quality-of-life Outcomes Across Multiple Centers Performing Adult Spinal Deformity Surgeries.* 31st Annual Meeting of the CNS/AANS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – **podium**
 150. Hostin R., O'Brien M., Robinson C., **Ames, C.P.**, Schwab F., Smith J.S., Lafage V., Gupta M., Klineberg E., Hart R., McCarthy I., ISSG, 2015. *Estimating Incremental Cost-Effectiveness of Adult Spinal Deformity Surgery Using the SRS-Schwab Classification System.* 31st Annual Meeting of the CNS/AANS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – **podium**
 151. Smith J.S., Lafage V., Shaffrey C.I., Schwab F., Hostin R.A., Boachie-Adjei O., Scheer J.K., Akbarnia B.A., Klineberg E., Gupta M., Deviren V., Hart R., Burton D.C., Bess S., **Ames C.P.**, 2015. *A Prospective, Multi-Center Matched and Unmatched Cohort Assessment of Outcomes for Operative and Nonoperative Treatment in Adult Spinal Deformity (ASD).* 31st Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – **Podium**
 152. Smith J.S., Shaffrey C.I., Lafage V., Schwab F., Protopsaltis T., Klineberg E., Gupta M., Scheer J.K., Hostin R., Fu K.G., Soroceanu A., Hart R., Burton D., Bess S., **Ames C.P.**, ISSG, 2015. *A Prospective, Multi-Center Assessment of the Best Versus Worst Clinical Outcomes for Adult Spinal Deformity (ASD) Surgery.* 31st Annual Meeting of the

- AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – Podium
153. Scheer J.K., Smith J.S., Passias P.G., Soroceanu A., Boniello A.J., Schwab F., Shaffrey C.I., Kim H.J., Protopsaltis T.S., Mundis G.M., Gupta M.C., Klineberg E., Lafage V., **Ames C.P.**, ISSG, 2015. *Adult Spinal Deformity Patients with Concomitant Preoperative Cervical Deformity Have Inferior Outcomes at 2 Year Follow up.* 31st Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – Podium
 154. Scheer J.K., Mundis G.M., Klineberg E., Hart R.A., Kelly M.P., Deviren V., Burton D.C., McCarthy I., Bess S., Schwab F., Shaffrey C.I., Lafage V., Smith J.S., **Ames C.P.**, ISSG, 2015. *Recovery Kinetics in 149 Adult Spinal Deformity Patients with 2-year Follow-up: The Effect of Complications and Reoperation Using an Area Under the Curve Analysis.* 31st Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – Podium
 155. Scheer J.K., Lafage V., Kelly M.P., Hostin R., Hart R.A., Klineberg E., Protopsaltis T.S., Deviren V., Sciubba D.M., Bess S., Shaffrey C.I., Schwab F., Smith J.S., **Ames C.P.**, ISSG, 2015. *Regional and Global Correction Loss in Long Adult Deformity Constructs: Magnitude, Location, and Factors from 183 Patients with 2 Year Follow-up.* 31st Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – Podium
 156. Scheer J.K., Smith J.S., Lafage V., Shaffrey C.I., Lafage R., Klineberg E., Gupta M., Hostin R., Kebaish K., Bess S., Schwab F., **Ames C.P.**, ISSG, 2015. *Spinal Pelvic Radiographic Thresholds for Regional Lumbar Disability are Age Dependent: Analysis of Multicenter Database of 833 patients.* 31st Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ.
 157. Smith J.S., Shaffrey C.I., Lafage V., Schwab F., Heid R.W., Protopsaltis T.S., Klineberg E., Scheer J.K., Deviren V., Hart R., Bess S., Arnold P.M., Chapman J., Fehlings M.G., **Ames C.P.**, 2015. *Assessment of Impact of Long-Cassette Standing X-rays on Surgical Planning for Lumbar Pathology: An International Survey of Spine Surgeons.* 31st Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ. – Podium
 158. **Ames C.P.**, Smith J.S., Liu S., Shaffrey C.I., Kim H.J., Arnold P., Challier V., Chapman J., Protopsaltis T.S., Schwab F., Scheer J.K., Massicotte E., Yoon S.T., Lafage V., Fehlings M.G., 2015. *Correlation of Myelopathy to Regional Neck Disability: A Surgical Approach-Specific Analysis in 217 Patients.* 31st Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ.
 159. Challier V., Smith J.S., Shaffrey C.I., Kim H.J., Arnold P., Liu S., Scheer J.K., Chapman J., Protopsaltis T.S., Lafage V., Schwab F., Massicotte E., Yoon T., Fehlings M.G., **Ames C.P.**, 2015. *Area Under the Curve: Analysis of Approach Related Recovery Time in 165 Operative Cervical Spondylotic Myelopathy Patients with 2 year follow up.* 31st Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ.

160. Smith J.S., Lafage V., Scheer J.K., Shaffrey C.I., Lafage R., Klineberg E., Gupta M., Hostin R., Kebaish K., Bess S., Schwab F., **Ames C.P.**, ISSG, 2015. *Spinal Pelvic Radiographic Thresholds for Regional Lumbar Disability are Age Dependent: Analysis of Multicenter Database*. 83rd Annual Meeting of the American Association of Neurological Surgeons, Washington, DC. – Podium
161. Sciubba D.M., Scheer J.K., Smith J.S., Klineberg E., Gupta M., Mundis G.M., Protosaltis T., Lafage V., Kim H.J., Koski T.R., Lafage V., Kebaish K., Shaffrey C.I., Bess S., Hart R.A., Schwab F., **Ames C.P.**, ISSG, 2015. *Elderly Patients Undergoing Reconstructive Spinal Deformity Surgery Have Significantly Improved HRQOLs Versus Those Managed Non-operatively*. 83rd Annual Meeting of the American Association of Neurological Surgeons, Washington, DC. – Podium
162. Smith J.S., Lafage V., Shaffrey C.I., Schwab F., Scheer J.K., Deviren V., Hart R., Bess S., **Ames C.P.**, 2015. *Outcomes of Operative and Nonoperative Treatment for Adult Spinal Deformity (ASD): A Prospective, Multi-Center Matched and Unmatched Cohort Assessment with Minimum 2-Year Follow-Up*. American Academy of Orthopaedic Surgeons, Las Vegas, NV – **Podium**
163. Scheer J.K., Smith J.S., Clark A.C., Lafage V., Kim H.J., Rolston J.D., Eastlack R., Hart R.A., Protosaltis T.S., Kelly M.P., Kebaish K., Gupta M.C., Klineberg E., Hostin R., Shaffrey C.I., Schwab F., **Ames C.P.**, ISSG, 2015 *Surgical treatment of Adult Spinal Deformity results in vastly superior back and leg pain improvement compared to non op treatment: Analysis of 421 patients with 2-year follow-up*. 42nd Annual Meeting of the International Society for the Study of the Lumbar Spine, San Francisco, CA. – Podium
164. Scheer J.K., Smith J.S., Schwab F., Lafage V., Hart R.A., Bess S., Line B., Diebo B., Protosaltis T.S., Jain A., Ailon A., Burton D.C., Klineberg E., **Ames C.P.**, ISSG. 2015. *Development of Validated Computer Based Preoperative Predictive Model for Proximal Junction Failure (PJF) or Clinically Significant PJK with 86% Accuracy based on 510 ASD Patients with 2-year Follow-up*. Annual Meeting of the Congress of Neurological Surgeons, New Orleans, LA.
165. Ailon T., Scheer J.K., **Ames C.P.**, Hart R., Klineberg E., Lafage V., Bess S., Burton D., Gupta M., Protosaltis T., Hostin R., Schwab F., Smith J.S., Shaffrey C., ISSG, 2015. *Proximal Junctional Angle Predicts Need for Revision but Not Deterioration in Sagittal Radiographic Parameters After Adult Spinal Deformity Surgery*. Annual Meeting of the Congress of Neurological Surgeons, New Orleans, LA.
166. Scheer J.K., Smith J.S., Schwab F., Hart R.A., Hostin R., Lafage V., Jain A., Burton D.C., Bess S., Ailon A., Protosaltis T.S., Klineberg E., Shaffrey C.I., **Ames C.P.**, ISSG. 2015. *Development of Validated Computer Based Preoperative Predictive Model for Reaching ODI MCID for Adult Spinal Deformity (ASD) Patients*. Annual Meeting of the Congress of Neurological Surgeons, New Orleans, LA.
167. Sciubba D., Jain A., Neuman B., Kebaish K., Passias P., Zebala L., Kim H.J., Protosaltis T., Scheer J.K., Smith J.S., Hamilton D.K., Bess S., Klineberg E., **Ames C.P.**, ISSG, 2015. *Development of a Preoperative Adult Spinal Deformity Frailty Index that Correlates to Common Quality and Value Metrics: Length of Stay, Major Complications and Patient Reported Outcomes*. Annual Meeting of the Congress of Neurological Surgeons, New Orleans, LA.

168. Neuman B.J., Jain A., Sciubba D., Klineberg E., Kim H.J., Zebala L., Mundis G., Lafage V., Passias P., Lafage R., Protopsaltis T., Hamilton D.K., Scheer J.K., **Ames C.P.**, and ISSG, 2015. *Regional Thoracic and Lumbar Sagittal Cobb Angle Changes and UIV Determine Evolution of Cervical Alignment after ASD surgery: Series of 171 patients with 2 year follow up.* Annual Meeting of the Congress of Neurological Surgeons, New Orleans, LA.
169. Passias P.G., Worley N., Jalai C., Scheer J.K., Klineberg E., Soroceanu A., Protopsaltis T., Sciubba D., Mundis G., Kim H.J., Hamilton D.K., Smith J.S., Lafage V., **Ames C.P.**, ISSG, 2015. *Development of New Onset Cervical Deformity in Non-Operative ASD Patients with 3-Year Follow-Up.* Annual Meeting of the Congress of Neurological Surgeons, New Orleans, LA.
170. Smith J.S., Klineberg E., Shaffrey C.I., Ailon T., Lafage V., Schwab F., Bess S., Daniels A., Scheer J.K., Protopsaltis T.S., Chapman J., Fehlings M.G., **Ames C.P.**, ISSG, 2015. *Assessment of Impact of Long-Cassette Standing X-Rays on Surgical Planning for Cervical Pathology: An International Survey of Spine Surgeons.* Annual Meeting of the Congress of Neurological Surgeons, New Orleans, LA.
171. Ailon T., Scheer J.K., Smith J.S., Shaffrey C.I., Lafage V., Protopsaltis T., **Ames C.P.**, ISSG, 2015. *Characterization of Distribution of Segmental Changes in Cervical Alignment After Lumbar Pedicle Subtraction Osteotomy.* Annual Meeting of the Congress of Neurological Surgeons, New Orleans, LA.
172. Scheer J.K., Hostin R., Schwab F., Robinson C., Lafage V., Burton D., Hart R., Kelly M., Keefe M., Polly D., Bess S., Shaffrey C., Smith J.S., **Ames C.P.**, ISSG, 2015. *Operative Management of Adult Spinal Deformity Results in Significant increases in QALYs Gained Compared to Nonoperative Management: Analysis of 479 patients with minimum 2-year Follow-up.* Annual Meeting of the Congress of Neurological Surgeons, New Orleans, LA. – Podium
173. Lafage R., Schwab F., Bess S., Burton D., **Ames C.P.**, Hart R., Line B., Scheer J.K., Smith J.S., Kim H.J., Klineberg E., Protopsaltis T., Lafage V., ISSG, 2015. *Redefining Radiographic Thresholds for Junctional Kyphosis Pathologies.* North American Spine Society, Chicago, IL.
174. Lafage R., Bess S., Glassman S., **Ames C.P.**, Burton D., Harris B., Hart R., Kim H.J., Klineberg E., Line B., Scheer J.K., Protopsaltis T., Schwab F., Lafage V., ISSG, 2015. *Novel Virtual Modeling of Alignment Following ASD Surgery: Establishing Relationships Between Compensatory Changes and Overcorrection Due to Proximal Junctional Kyphosis.* North American Spine Society, Chicago, IL. – Podium
175. Jain A., **Ames C.P.**, Lafage V., Neuman B., Sciubba D., Hart R., Scheer J.K., Kelly M., Bess S., Hostin R., Shaffrey C., Gupta M., Schwab F., Kebaish K., ISSG, 2015. *Postoperative Coronal Malalignment is Associated with Significantly Poor Patient Reported Outcomes in Operatively Treated Adult Spinal Deformity.* North American Spine Society, Chicago, IL. – Podium
176. Scheer J.K., Smith J.S., Schwab F., Lafage V., Hart R.A., Bess S., Line B., Diebo B., Protopsaltis T.S., Jain A., Ailon A., Burton D.C., Klineberg E., **Ames C.P.**, ISSG, 2015. *Development of Validated Computer Based Preoperative Predictive Model for Proximal Junction Failure (PJF) or Clinically Significant PJK with 86% Accuracy based on 510*

ASD Patients with 2-year Follow-up. North American Spine Society, Chicago, IL. – Podium

177. Ailon T., Scheer J.K., Ames C.P., Hart R., Klineberg E., Lafage V., Bess S., Burton D., Gupta M., Protopsaltis T., Hostin R., Schwab F., Smith J.S., Shaffrey C., ISSG. 2015. *Proximal Junctional Angle Predicts Need for Revision but Not Deterioration in Sagittal Radiographic Parameters After Adult Spinal Deformity Surgery.* North American Spine Society, Chicago, IL. – Podium
178. Scheer J.K., Keefe M., Kelly M., Lafage V., Bess S., Burton D., Hart R., Jain A., Protopsaltis T., Hostin R., Shaffrey C., Smith J.S., Schwab F., Ames C.P., ISSG. 2015. *Quantifying Risk Aversion and Likelihood of Decision Regret in the Preoperative Evaluation of the Adult Deformity Patient.* North American Spine Society, Chicago, IL.
179. Scheer J.K., Hostin R., Schwab F., Robinson C., Lafage V., Burton D., Hart R., Kelly M., Keefe M., Polly D., Bess S., Shaffrey C., Smith J.S., Ames C.P., ISSG. 2015. *Operative Management of Adult Spinal Deformity Results in Significant increases in QALYs Gained Compared to Nonoperative Management: Analysis of 479 patients with minimum 2-year Follow-up.* North American Spine Society, Chicago, IL. – Podium (Value Award Recipient)
180. Scheer J.K., Gum J., Kelly M., Schwab F., Hostin R., Lafage V., Bess S., Protopsaltis T., Burton D., Gupta M., Hart R., Mundis G., Smith J.S., Ames C.P., ISSG. 2015. *Ratio of Disability to Deformity Burden in 264 Adult Spinal Deformity Patients with 2-year Follow-up: Novel Insight into Drivers of Disability.* North American Spine Society, Chicago, IL. – Podium
181. *ISSG, Buckland AJ, Vigdorichik J, Lafage R, Mundis GM, Gum JL, Kelly MP, Hart RA, Ames CP, Smith JS, Bess S, Errico TJ, Schwab FJ, Lafage V. *Acetabular anteversion changes in spinal deformity correction: implications for hip and spine surgeons.* 30th Annual Meeting of the North American Spine Society. Chicago, IL. October 14-17, 2015.
182. *ISSG, Bess S, Line B, Kelly MP, Ames CP, Burton DC, Hart RA, Hostin R, Gum JL, Fu KG, Klineberg EO, Lafage V, Schwab FJ, Shaffrey CI, Smith JS, ISSG. *Operative treatment of adult spinal deformity improves health related quality of life for all deformity types, while patients treated nonoperatively demonstrate no change at minimum two years follow-up.* 30th Annual Meeting of the North American Spine Society. Chicago, IL. October 14-17, 2015.
183. *ISSG, Scheer JK, Smith JS, Schwab FJ, Lafage V, Hart RA, Bess S, Line B, Diebo BG, Protopsaltis TS, Jain A, Ailon T, Burton DC, Klineberg EO, Ames CP, ISSG. *Development of validated computer based preoperative predictive model for proximal junction failure or clinically significant PJK with 86 percent accuracy based on 510 ASD patients with two-year follow up.* 30th Annual Meeting of the North American Spine Society. Chicago, IL. October 14-17, 2015.
184. *ISSG, Protopsaltis TS, Diebo B, Lafage R, Smith JS, Scheer JK, Sciubba DM, Passias PG, Kim HJ, Hamilton DK, Soroceanu A, O'Brien MF, Klineberg EO, Ames CP, Shaffrey CI, Bess S, Hart RA, Schwab FJ, Lafage V. *Identifying preoperative thoracic compensation and predicting postoperative reciprocal thoracic kyphosis and PJK.* 30th

- Annual Meeting of the North American Spine Society. Chicago, IL. October 14-17, 2015.
185. *ISSG, Klineberg EO, Carlson BB, Protosaltis TS, Passias PG, Smith JS, Ames CP, Hostin RA, Gupta MC, Lafage V, Mundis GM, Kelly MP, Hart RA, Schwab FJ, Burton DB. *Can measures on cervical radiographs predict concurrent thoracolumbar deformity and provide a threshold for acquiring full-length spine radiographs?* 30th Annual Meeting of the North American Spine Society. Chicago, IL. October 14-17, 2015.
 186. *ISSG, Gupta MC, Henry JK, Lafage V, Schwab FJ, Ames CP, Klineberg EO, Smith JS, Deviren V, Shaffrey CI, Hart RA, Hostin R, Mundis GM, Kim HJ, Burton DC, ISSG. *Reducing rod breakage and nonunion in pedicle subtraction osteotomy: the importance of rod number and configuration in 264 patients with two-year follow up.* 30th Annual Meeting of the North American Spine Society. Chicago, IL. October 14-17, 2015.
 187. Scheer J.K., Smith J.S., Schwab F., Hart R.A., Hostin R., Lafage V., Jain A., Burton D.C., Bess S., Ailon A., Protosaltis T.S., Klineberg E., Shaffrey C.I., Ames C.P., ISSG, 2015. *Development of Validated Computer Based Preoperative Predictive Model for Reaching ODI MCID for Adult Spinal Deformity (ASD) Patients.* 50th Annual Meeting & Course of the Scoliosis Research Society, Minneapolis, MN. – Podium
 188. Scheer J.K., Smith J.S., Schwab F., Lafage V., Hart R.A., Bess S., Line B., Diebo B., Protosaltis T.S., Jain A., Ailon A., Burton D.C., Klineberg E., Ames C.P., ISSG, 2015. *Development of Validated Computer Based Preoperative Predictive Model for Proximal Junction Failure (PJF) or Clinically Significant PJK with 86% Accuracy based on 510 ASD Patients with 2-year Follow-up.* 50th Annual Meeting & Course of the Scoliosis Research Society, Minneapolis, MN. – Podium
 189. Ailon T., Scheer J.K., Ames C.P., Hart R., Klineberg E., Lafage V., Bess S., Burton D., Gupta M., Protosaltis T., Hostin R., Schwab F., Smith J.S., Shaffrey C., ISSG, 2015. *Proximal Junctional Angle Predicts Need for Revision but Not Deterioration in Sagittal Radiographic Parameters After Adult Spinal Deformity Surgery.* 50th Annual Meeting & Course of the Scoliosis Research Society, Minneapolis, MN. – Podium
 190. Scheer J.K., Hostin R., Schwab F., Robinson C., Lafage V., Burton D., Hart R., Kelly M., Keefe M., Polly D., Bess S., Shaffrey C., Smith J.S., Ames C.P., ISSG, 2015. *Operative Management of Adult Spinal Deformity Results in Significant increases in QALYs Gained Compared to Nonoperative Management: Analysis of 479 patients with minimum 2-year Follow-up.* 50th Annual Meeting & Course of the Scoliosis Research Society, Minneapolis, MN. – Podium
 191. Smith J.S., Klineberg E., Lafage V., Shaffrey C.I., Bess S., Schwab F., Gupta M., Hart R., Protosaltis T., Mundis M., Kim H.J., Burton D., Scheer J.K., Ames C.P., ISSG, 2015. *Prospective Multicenter Assessment of Intraoperative and Perioperative Complication Rates Associated with Adult Spinal Deformity (ASD) Surgery in 558 Patients.* 50th Annual Meeting & Course of the Scoliosis Research Society, Minneapolis, MN. – Podium
 192. Neuman B.J., Jain A., Sciubba D., Klineberg E., Kim H.J., Zebala L., Mundis G., Lafage V., Passias P., Lafage R., Protosaltis T., Hamilton D.K., Scheer J.K., Ames C.P., and ISSG, 2015. *Regional Thoracic and Lumbar Sagittal Cobb Angle Changes and UIV*

- Determine Evolution of Cervical Alignment after ASD surgery: Series of 171 patients with 2 year follow up.* 50th Annual Meeting & Course of the Scoliosis Research Society, Minneapolis, MN. – Podium
193. Passias P.G., Worley N., Jalai C., Scheer J.K., Klineberg E., Soroceanu A., Protosaltis T., Sciubba D., Mundis G., Kim H.J., Hamilton D.K., Smith J.S., Lafage V., **Ames C.P.**, ISSG, 2015. *Development of New Onset Cervical Deformity in Non-Operative ASD Patients with 3-Year Follow-Up.* 50th Annual Meeting & Course of the Scoliosis Research Society, Minneapolis, MN. – Podium
 194. Theologis A.A., Miller L., Callahan M., Lau D., Zygourakis C., Scheer J.K., Burch S., Pekmezci M., Chou D., Tay B., Mummaneni P., Berven S., Deviren V., **Ames C.P.**, 2015. *The economic impact of revision surgery for proximal junctional failure after adult spinal deformity surgery: a cost analysis of 57 operations in a 10-year experience at a major deformity center.* 32nd Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL. – Podium
 195. *Grabel ZJ, Hart RA, Clark AP, Park SH, Shaffrey CI, Scheer J, Smith JS, Kelly M, DePasse JM, Gupta M, **Ames CP**, Daniels AH. *Adult spinal deformity knowledge in orthopaedic spine surgeons: impact of training and practice experience.* American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL. March 1-5, 2016.
 196. *Cheriyian T, Schwab F, Kebaish K, Gupta M, **Ames C**, Shaffrey C, Tanzi E, Kelly M, Smith JS, Bess S, Hart R, Hostin R, Errico T, Lafage V, ISSG. *Site variability in surgical technique and outcomes in adult spinal deformity.* American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL. March 1-5, 2016.
 197. Passias P, Jalai C, Worley N, Scheer JK, Soroceanu A, Protosaltis T, Klineberg E, Sciubba D, Neuman B, Kim HJ, Kamilton K, Smith JS, Lafage V, **Ames CP**. *Development of new onset cervical deformity is common in operative and non-operative ASD patients but is associated with different baseline factors: series of 2010 patients with 3 year follow up.* American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL. March 1-5, 2016.
 198. Smith JS, Lafage V, Shaffrey CI, Protosaltis T, Passias P, Schwab F, O'Brien M, Mundis G, Hart R, Kim HJ, Klineberg E, Riew KD, **Ames CP**, ISSG. *Prospective multicenter assessment of early complication rates associated with adult cervical deformity (ACD) surgery in 78 patients.* American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL. March 1-5, 2016.
 199. *Lafage R, Lafage V, Protosaltis T, Hart R, Passias P, Klineberg E, Smith JS, Neuman B, Hamilton K, Jain A, Mundis G, Zabala L, Shaffrey C, **Ames C**, ISSG. *Focal and dynamic cervical alignment pathology correlates with myelopathy severity in cervical deformity patients.* American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL. March 1-5, 2016.
 200. *Sciubba D, Jain A, Neuman B, Kebaish K, Passias P, Zebala L, Kim HJ, Protosaltis T, Scheer J, Smith JS, Hamilton K, Bess S, Klineberg E, **Ames C**, ISSG. *Development of a preoperative adult spinal deformity frailty index that correlates to common quality and value metrics: length of stay, major complications and patient reported outcomes.*

- American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL. March 1-5, 2016.
201. *Smith JS, Klineberg E, Lafage V, Shaffrey CI, Bess S, Schwab F, Gupta M, Hart R, Protopsaltis T, Mundis G, Kim HJ, Burton D, Scheer JK, Ames CP, ISSG. *Prospective multicenter assessment of intraoperative and perioperative complication rates associated with adult spinal deformity surgery in 558 patients*. American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL. March 1-5, 2016.
 202. *Scheer JK, Smith JS, Schwab FJ, Lafage V, Shaffrey CI, Bess S, Daniels AH, Hart RA, Protopsaltis T, Mundis GM, Ailon T, Burton DC, Klineberg EO, Ames CP, ISSG. *Development of a preoperative predictive model for intra- or peri-operative major complications with high accuracy validated with 558 ASD patients*. American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL. March 1-5, 2016.
 203. Henry J, Schwab F, Protopsaltis T, Smith JS, Ames C, Kelly M, Gum J, Mundis G, Hostin R, Hart R, Kebaish K, Burton D, Bess S, Lafage V, ISSG. *Post-operative alignment in ASD surgery can be predicted based on construct length, termination level and procedure type: series of 222 patients*. American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL. March 1-5, 2016.
 204. *Bronson WH, Protopsaltis T, Liabaud B, Mundis G, Gum J, Burton D, Smith JS, Ames C, Schwab F, Lafage V, ISSG. *Reliability of intraoperative prone lateral radiographs in predicting postoperative standing sagittal alignment*. American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL. March 1-5, 2016.
 205. *Gupta M, Henry JK, Lafage V, Schwab F, Ames CP, Klineberg E, Smith JS, Deviren V, Shaffrey CI, Hart R, Hostin R, Mundis G, Kim HJ, Burton D, ISSG. *Reducing rod breakage and nonunion in pedicle subtraction osteotomy: the importance of rod number and configuration in 264 patients with 2-year follow-up*. American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL. March 1-5, 2016.
 206. Scheer J.K., Smith J.S., Schwab F., Lafage V., Hart R., Bess S., Line B.G., Diebo, Keefe M.K., Protopsaltis T., Jain A., Ailon T.T., Burton D.C., Klineberg E., Ames C.P., ISSG. 2016. *Development of Validated Computer-based Preoperative Predictive Model for Proximal Junction Failure (PJF) or Clinically Significant PJK with 86 Percent Accuracy Based on 510 ASD Patients with Two-year Follow-up*. 32nd Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Orlando FL. – **Podium**
 207. Passias P.G., Jalai C.M., Worley N., Scheer J.K., Soroceaunu A., Protopsaltis T., Klineberg E., Keefe M.K., Sciubba D.M., Neuman B.J., Kim H.J., Hamilton D.K., Smith J.S., Lafage V., Ames C.P., ISSG. 2016. *Development of New Onset Cervical Deformity in Non-operative ASD Patients with Three-year Follow-up*. 32nd Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Orlando FL. – **Podium**
 208. Smith J.S., Klineberg E., Shaffrey C.I., Ailon T.T., Lafage V., Schwab F., Bess S., Keefe M.K., Daniels A.H., Scheer J.K., Protopsaltis T., Chapman J., Fehlings M.G., Ames C.P., ISSG. 2016. *Assessment of Impact of Long-cassette Standing X-rays on Surgical Planning for Cervical Pathology: An International Survey of Spine Surgeons*. 32nd

- Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Orlando FL. – **Podium**
209. Neuman B.J., Jain A., Sciubba D.M., Klineberg E., Kim H.J., Zebala L., Mundis G.M., Keefe M.K., Lafage V., Passias P.G., Lafage R., Protosaltis T., Hamilton D.K., Scheer J.K., **Ames C.P.**, ISSG. 2016. *Regional Thoracic and Lumbar Sagittal Cobb Angle Changes and UIV Determine Evolution of Cervical Alignment After ASD Surgery: Series of 171 Patients with Two-year Follow-up.* 32nd Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Orlando FL. – **Podium**
210. Ailon T.T., Scheer J.K., **Ames C.P.**, Hart R.A., Sciubba D.M., Klineberg E., Lafage V., Bess S., Burton D.C., Keefe M.K., Gupta M., Protosaltis T., Hostin R.A., Schwab F., Smith J.S., Shaffrey C.I., ISSG. 2016. *Proximal Junctional Angle Predicts Need for Revision but not Deterioration in Sagittal Radiographic Parameters After Adult Spinal Deformity Surgery.* 32nd Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Orlando FL. – **Podium**
211. Theologis A., Ailon T.T., Scheer J.K., Smith J.S., Shaffrey C.I., Bess S., Gupta M., Klineberg E., Kebaish K., Schwab F., Lafage V., Burton D.C., Hart R., **Ames C.P.**, ISSG. 2016. *Impact of Preoperative Depression on Two-year Clinical Outcomes Following Adult Spinal Deformity Surgery.* 32nd Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Orlando FL. – **Podium**
212. Sciubba D.M., Jain A., Neuman B.J., Kebaish K., Passias P.G., Zebala L., Kim H.J., Protosaltis T., Keefe M.K., Scheer J.K., Smith J.S., Hamilton D.K., Bess S., Klineberg E., **Ames C.P.**, ISSG. 2016. *Development of a Preoperative Adult Spinal Deformity Frailty Index that Correlates to Common Quality and Value Metrics: Length of Stay, Major Complications, and Patient Reported Outcomes.* 32nd Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Orlando FL. – **Podium**
213. *Klineberg EO, Carlson BB, Protosaltis TS, Passias PG, Smith JS, **Ames CP**, Hostin RA, Gupta MC, Lafage V, Mundis GM, Kelly MP, Hart RA, Schwab FJ, Burton DB. *Can measures on cervical radiographs predict concurrent thoracolumbar deformity and provide a threshold for acquiring full-length spine radiographs?* 32nd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves Spine Summit 2016. Orlando, FL. March 16-19, 2016.
214. *Passias P, Jalai C, Worley N, Scheer JK, Soroceanu A, Protosaltis T, Klineberg E, Sciubba D, Neuman B, Kim HJ, Kamilton K, Smith JS, Lafage V, **Ames CP**. *Development of new onset cervical deformity is common in operative and non-operative ASD patients but is associated with different baseline factors: series of 2010 patients with 3 year follow up.* 32nd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves Spine Summit 2016. Orlando, FL. March 16-19, 2016.
215. *Lafage R, Lafage V, Protosaltis T, Hart R, Passias P, Klineberg E, Smith JS, Neuman B, Hamilton K, Jain A, Mundis G, Zabala L, Shaffrey C, **Ames C**, ISSG. *Focal and dynamic cervical alignment pathology correlates with myelopathy severity in cervical deformity patients.* 32nd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves Spine Summit 2016. Orlando, FL. March 16-19, 2016.

216. *Protopsaltis T, Lafage R, Lafage V, Sciubba DM, Hamitn DK, Smith JS, Passias PG, Soroceanu A, Mundis GM, Klineberg EO, Hart RA, Shaffrey CI, Schwab FJ, Ames CP, ISSG. *Novel cervical angular measures account for both upper cervical compensation and sagittal alignment*. 32nd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves Spine Summit 2016. Orlando, FL. March 16-19, 2016.
217. *Smith JS, Klineberg E, Shaffrey CI, Ailon T, Lafage V, Schwab F, Bess S, Daniels A, Scheer JK, Protopsaltis T, Chapman J, Fehlings MG, Ames CP. *Assessment of impact of long-cassette standing x-rays on surgical planning for cervical pathology: an international survey of spine surgeons*. 32nd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves Spine Summit 2016. Orlando, FL. March 16-19, 2016.
218. *Theologis A, Mundis GM Jr, Nguyen S, Okonkwo DO, Mummaneni PV, Smith JS, Shaffrey CI, Fessler RG, Bess S, Schwab F, Diebo BG, Burton DC, Hart R, Deviren V, Ames CP, ISSG. *Utility of multi-level lateral interbody fusion of the thoracolumbar coronal curve apex in adult deformity surgery in combination with posterior instrumentation and L5-S1 interbody fusion: a case-matched evaluation of 46 patients*. 32nd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves Spine Summit 2016. Orlando, FL. March 16-19, 2016.
219. *Theologis A, Scheer JK, Ailon T, Smith JS, Shaffrey CI, Bess S, Gupta M, Klineberg E, Kebaish K, Schwab FJ, Lafage V, Burton DC, Hart RA, Ames CP, ISSG. *The impact of depression on two-year outcomes after adult spinal deformity surgery*. 32nd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves Spine Summit 2016. Orlando, FL. March 16-19, 2016.
220. *Scheer JK, Gum J, Kelly M, Schwab F, Hostin R, Lafage V, Bess S, Protopsaltis T, Burton D, Gupta M, Hart R, Mundis G, Smith JS, Ames CP, ISSG. *Ratio of disability to deformity burden in 264 adult spinal deformity patients with 2-year follow-up: novel insight into drivers of disability*. American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL. March 1-5, 2016.
221. Scheer J.K., Gum J., Kelly M.P., Schwab F.J., Hostin R.A., Lafage V., Smith J.S., Ames C., ISSG, 2016. *Ratio of Disability to Deformity Burden in 264 Adult Spinal Deformity Patients with Two-Year Follow Up*. American Academy of Orthopaedic Surgeons, Orlando, FL. – Podium
222. Scheer J.K., Smith J.S., Schwab F.S., Lafage V., Shaffrey C.I., Keefe M.K., Klineberg E.O., Ames C.P., ISSG, 2016. *Development of a Pre-op Predictive Model for Intra- or Perioperative Major Complications for Adult Spinal Deformity*. American Academy of Orthopaedic Surgeons, Orlando, FL. – Podium
223. Ames C.P., Scheer J.K., Smith J.S., Schwab F., Lafage V., Shaffrey C.I., Bess S., Ailon T., Burton D., Klineberg E., ISSG, 2016. *Development of a Preoperative Predictive Model for Intra- or Peri-operative Major Complications with High Accuracy Validated with 558 Patients*. 84th Annual Meeting of the American Association of Neurological Surgeons, Chicago IL. – Podium
224. Bakhsheshian J., Scheer J.K., Gum J., Hostin R., Lafage V., Bess S., Mundis G., Shaffrey C.I., Smith J.S., Ames C.P., ISSG, 2016. *The Impact of Low Mental Health in Adult*

- Spinal Deformity Patients with Low Physical Health*. 84th Annual Meeting of the American Association of Neurological Surgeons, Chicago IL.
225. Ames C.P., Scheer J.K., Smith J.S., Schwab F., Lafage V., Hart R., Bess S., Ailon T., Burton D., Klineberg E., ISSG, 2016. Development of a Validated Computer Based Preoperative Predictive Model for PJF or Clinically Significant PJK. 84th Annual Meeting of the American Association of Neurological Surgeons, Chicago IL. – Podium
 226. Passias P.G., Oh C., Jalai C.M., Worley N.J., Lafage R., Scheer J.K., Smith J.S., Klineberg E.O., Lafage V., Ames C.P., ISSG, 2016. *Predictive Model for Cervical Alignment Outcomes following Surgical Correction of Adult Spinal Deformity*. 84th Annual Meeting of the American Association of Neurological Surgeons, Chicago IL.
 227. Klineberg E.O., Smith J.S., Lafage V., Shaffrey C.I., Bess R.S., Burton D.C., Scheer J.K., Ames C.P., ISSG, 2016. *Prospective Multicenter Assessment of Intra- and Perioperative Complication Rates Associated with ASD Surgery*. American Academy of Orthopaedic Surgeons, Orlando, FL. – Podium
 228. *Miller E, Ailon T, Neuman BJ, Klineberg EO, Mundis GM, Sciubba DM, Kebaish K, Lafage V, Scheer JK, Smith JS, Hamilton DK, Bess S, Ames CP, ISSG. *Assessment of a novel cervical deformity frailty index as a component of a preoperative risk stratification*. 23rd Annual International Meeting for Advanced Spine Techniques. Washington, DC. July 13-16, 2016. (One of 9 abstracts nominated for the Whitecloud Award for Best Clinical Abstract from >1,500 submitted abstracts)
 229. Passias P., Oh C., Jalai C., Poorman G., Lafage R., Diebo B., Scheer J.K., Smith J.S., Shaffrey C.I., Protosaltis T., Kim H.J., Hart R., Lafage V., Ames C.P., ISSG, 2016. *Predictive Model for Patient-Reported Outcomes Scores Following Cervical Spine Deformity Surgical Correction*. 23rd International Meeting on Advanced Spine Techniques, Washington, D.C. – Podium
 230. Soroceanu A., Smith J.S., Gupta M., Passias P., Protosaltis T., Hart R., Lafage V., Scheer J.K., Burton D., Schwab F., Errico T., Shaffrey C.I., Ames C.P., ISSG, 2016. *Primary vs Revision Adult Cervical Deformity: a Prospective Multicenter Study with 1-Year Follow-up*. 23rd International Meeting on Advanced Spine Techniques, Washington, D.C. – Podium
 231. Gupta M., Diebo B.G., Protosaltis T., Hart R.A., Smith J.S., Ames C.P., Lafage R., Scheer J.K., Kim H.J., Bess S., Burton D., Passias P., Schwab F., Lafage V., ISSG, 2016. *Bimodal Incidence and causes of proximal junctional kyphosis (PJK) in adult spinal deformity (ASD)*. 23rd International Meeting on Advanced Spine Techniques, Washington, D.C. – Podium
 232. *Lafage R, Obeid I, Liabaud B, Bess S, Burton DC, Smith JS, Jalai CM, Hostin R, Shaffrey CI, Ames CP, Kim HJ, Klineberg EO, Schwab FJ, Lafage V, ISSG. *Location of correction within the lumbar spine impacts acute adjacent segment kyphosis*. 23rd Annual International Meeting for Advanced Spine Techniques. Washington, DC. July 13-16, 2016. (One of 9 abstracts nominated for the Whitecloud Award for Best Clinical Abstract from >1,500 submitted abstracts)

233. *Kim HJ, Bao H, Iyer S, Smith JS, Gupta MC, Albert TJ, Protosaltis TS, Mundis GM, Passias PG, Neuman BJ, Klineberg EO, Lafage V, Ames CP, ISSG. *The posterior use of BMP-2 in cervical deformity surgery does not result in increased complications: a prospective multicenter study.* 23rd Annual International Meeting for Advanced Spine Techniques. Washington, DC. July 13-16, 2016.
234. *Kim HJ, Diebo BG, Iyer S, Kelly MP, Sciubba DM, Schwab FJ, Lafage V, Mundis GM, Shaffrey CI, Smith JS, Hart RA, Burton DC, Bess S, Ames CP, Klineberg EO, ISSG. *Thromboembolic disease in adult spinal deformity Surgery: incidence and risk factors in 737 patients.* 23rd Annual International Meeting for Advanced Spine Techniques. Washington, DC. July 13-16, 2016.
235. *Ramchandran S, Protosaltis TS, Sciubba DM, Scheer JK, Daniels AH, Passias PG, Lafage V, Kim HJ, Mundis Gm, Klineberg EO, Hart RA, Smith JS, Shaffrey CI, Ames CP, ISSG. *Upper cervical and infra-cervical compensation in cervical deformity patients.* 23rd Annual International Meeting for Advanced Spine Techniques. Washington, DC. July 13-16, 2016.
236. *Smith JS, Shaffrey CI, Kim HJ, Neuman BJ, Klineberg EO, Schwab FJ, Lafage R, Protosaltis TS, Passias PG, Mundis GM, Hart RA, Deviren V, Bess S, Ames CP, ISSG. *Three-column osteotomy for correction of cervical deformity: alignment changes and early complications in a multicenter prospective series of 24 patients.* 23rd Annual International Meeting for Advanced Spine Techniques. Washington, DC. July 13-16, 2016.
237. *Smith JS, Line B, Bess S, Shaffrey CI, Kim HJ, Mundis GM, Klineberg EO, Schwab FJ, Lafage V, Protosaltis TS, Hart RA, Burton DC, Ames CP, ISSG. *The health impact of symptomatic adult cervical deformity: comparison to United States population norms and chronic disease states based on the EQ5D.* 23rd Annual International Meeting for Advanced Spine Techniques. Washington, DC. July 13-16, 2016.
238. *Passias PG, Jalai CM, Lafage V, Lafage R, Protosaltis TS, Ramchandran S, Gupta MC, Hart RA, Deviren V, Soroceanu A, Smith JS, Schwab FJ, Shaffrey CI, Ames CP, ISSG. *Primary drivers of cervical deformity: prevalence and effect of surgical treatment strategies on post-operative alignment.* 23rd Annual International Meeting for Advanced Spine Techniques. Washington, DC. July 13-16, 2016.
239. *Kim HJ, Bao H, Iyer S, Smith JS, Kelly MP, Gupta MC, Albert TJ, Mundis GM, Passias PG, Neuman BJ, Klineberg E, Lafage V, Ames CP, ISSG. *Cervical deformity surgery does not result in post-operative dysphagia: a prospective cohort study.* 23rd Annual International Meeting for Advanced Spine Techniques. Washington, DC. July 13-16, 2016.
240. *Gupta MC, Diebo BG, Protosaltis TS, Hart RA, Smith JS, Ames CP, Lafage R, Scheer JK, Kim HJ, Bess S, Burton DC, Passias PG, Schwab FJ, Lafage V, ISSG. *Bimodal incidence and causes of proximal junctional kyphosis in adult spinal deformity.* 23rd Annual International Meeting for Advanced Spine Techniques. Washington, DC. July 13-16, 2016.
241. *Liabaud B, Lafage R, Hart RA, Schwab FJ, Smith JS, Kim HJ, Hostin R, Passias PG, Ames CP, Mundis GM, Burton DC, Bess S, Klineberg EO, Lafage V, ISSG. *Proximal*

- junctional kyphosis can be predicted following adult spinal deformity surgery: models based on regional alignment changes within the fusion area.* 23rd Annual International Meeting for Advanced Spine Techniques. Washington, DC. July 13-16, 2016.
242. Scheer J.K., Ailon T., Smith J.S., Hart R.A., Burton D.C., Bess S., Neuman B., Passias P.G., Miller E., Shaffrey C.I., Schwab F., Lafage V., Klineberg E., Ames C.P., ISSG, 2016. *Predictive Modeling of Length of Hospital Stay (LOS) Following Adult Spinal Deformity (ASD) Correction: Analysis of 653 Patients with an Accuracy of 75% within 2 Days.* North American Spine Society, Boston MA.
 243. Passias P., Oh C., Jalai C., Poorman G., Lafage R., Diebo B., Scheer J.K., Smith J.S., Shaffrey C.I., Protosaltis T., Kim H.J., Hart R., Lafage V., Ames C.P., ISSG, 2016. *Predictive Model for Patient-Reported Outcomes Scores Following Cervical Spine Deformity Surgical Correction.* North American Spine Society, Boston MA. – Podium
 244. Gupta M., Diebo B.G., Protosaltis T., Hart R.A., Smith J.S., Ames C.P., Lafage R., Scheer J.K., Kim H.J., Bess S., Burton D., Passias P., Schwab F., Lafage V., ISSG, 2016. *Bimodal Incidence and causes of proximal junctional kyphosis (PJK) in adult spinal deformity (ASD).* North American Spine Society, Boston MA. – Podium
 245. Jalai C., Passias P.G., Poorman G., Smith J.S., Scheer J.K., Sciubba D., Hamilton D.K., Mundis G., Klineberg E., Lafage V., Shaffrey C.I., Ames C.P., ISSG, 2016. *Comparative Analysis of Intra-Operative Complications between a Multicenter Prospective Cervical Deformity Database Versus a Nationwide Sample.* North American Spine Society, Boston MA.
 246. Scheer J.K., Hostin R., Robinson C., Gum J., Schwab F., Hart R.A., Lafage V., Burton D., Bess S., Protosaltis T.S., Klineberg E., Shaffrey C.I., Smith J.S., Ames C.P., ISSG, 2016. *Use of a Validated Predictive Model for Patient Selection in Adult Spinal Deformity (ASD) Surgery has the Potential to Enhance QALYs Gained at 2-years: Simulation in 234 ASD Patients.* North American Spine Society, Boston MA. – Podium
 247. Klineberg E., Amit J., Puvanesarajah V., Shaffrey C.I., Smith J.S., Bess S., Burton D., Lafage V., Kim H.J., Sciubba D., Ames C.P., Scheer J.K., Gupta M., Hassanzadeh H., ISSG, 2016. *Medical Complication Profile for Elective Orthopaedic Surgery in the Elderly, Establishment of a Baseline Complication Rate for THA, TKA, and Spine Fusion.* North American Spine Society, Boston MA. – Podium
 248. Miller E., Neuman B., Sciubba D., Scheer J.K., Smith J.S., Klineberg E., Ames C.P., ISSG, 2016. *Association of Frailty with Cervical and Global SVA Classification.* North American Spine Society, Boston MA.
 249. Hamilton D.K., Goldschmidt E., Passias P., Scheer J.K., Protosaltis T.S., Lafage V., Lafage R., Schwab F., Bess S., Ames C.P., Tempel Z., Kanter A., Okonkwo D., ISSG, 2016. *A Novel Score Predicting Spine Global Sagittal Alignment Based on a Lateral Cervical Plain Radiograph.* North American Spine Society, Boston MA. – Podium
 250. Passias P.G., Jalai C., Lafage V., Scheer J.K., Hamilton D.K., Line B., Bess S., Schwab F., Ames C.P., Burton D., Hart R.A., Klineberg E., ISSG, 2016. *Recovery Kinetics of Radiographic and Implant-Related Revision Patients Following Adult Spinal Deformity (ASD) Surgery.* North American Spine Society, Boston MA.

251. Keefe M., Scheer J.K., Yagi M., Smith J.S., Shaffrey C., Bess S., Lafage V., Schwab F., Hosogane N., Matsumoto M., **Ames C.P.**, ISSG, 2016. *Comparing Japanese and American Patient Expectations and Priorities Using A Patient Generated Index (PGI)*. North American Spine Society, Boston MA.
252. Lafage R., Scheer J.K., Liabaud B., Schwab F., Smith J.S., Passias P.G., Hostin R., **Ames C.P.**, Mundis G., Burton D., Kim H.J., Bess S., Klineberg E., Lafage V., ISSG, 2016. *Impact of Radiculopathy on Patients Reported Outcomes (PRO): A Propensity Matched Study on 386 Adult Spinal Deformity Patients With and Without Leg Pain*. North American Spine Society, Boston MA. – Podium
253. Miller E., Amit J., Daniels A., Neuman B., Soroceanu A., Ailon T., Sciubba D., Bess S., Line B., Lafage V., Scheer J.K., Kebaish K., Smith J.S., **Ames C.P.**, ISSG, 2016. *Assessment of a Novel Adult Spinal Deformity (ASD) Frailty Index (ASD-FI) to Assist with Risk Stratification for ASD Surgery*. North American Spine Society, Boston MA.
254. Ailon TT, Smith JS, Shaffrey CI, Soroceanu A, Lafage V, Schwab F, Burton D, Hart R, Gum J, Hostin R, Kelly M, Glassman S, Bess S, **Ames C**, ISSG. *Adult Spinal Deformity Patients with Previous Fusions have an Equal Chance of Reaching Substantial Clinical Benefit Thresholds in Health-related Quality of Life Measures but do not Reach the Same Absolute Level of Improvement*. 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
255. Smith JS, Gupta M, Klineberg E, Shaffrey C, Schwab F, Lafage V, Liabaud B, Kim HJ, Hart R, Kostin R, Burton D, Deviren V, Bess S, **Ames C**, ISSG. *Complication Rates Associated with 3-Column Osteotomy in 82 Adult Spinal Deformity Patients: Retrospective Review of a Prospectively Collected Multicenter Consecutive Series with Minimum 2-Yr Follow-Up*. 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
256. Smith JS, Line B, Bess S, Shaffrey C, Kim HJ, Mundis G, Klineberg E, Schwab F, Lafage V, Passias P, Protopsaltis T, Hart R, Burton D, **Ames C**, ISSG. *The Health Impact of Symptomatic Adult Cervical Deformity: Comparison to United States Population Norms and Chronic Disease States Based on the EQ5D*. 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
257. *Smith JS, Shaffrey C, Kim HJ, Neuman B, Klineberg E, Schwab F, Lafage R, Protopsaltis T, Passias P, Mundis G, Hart R, Deviren V, Bess S, **Ames CP**, ISSG. *Three-column Osteotomy for Correction of Cervical Deformity: Alignment Changes and Early Complications in A Multicenter Prospective Series of 24 Patients*. 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
258. Smith JS, Shaffrey C, Kim HJ, Gupta M, Schwab F, Passias P, Protopsaltis T, Hart R, O'Brien M, Burton D, Deviren V, Albert T, Riew D, **Ames C**, ISSG. *Outcomes of Operative Treatment for Adult Cervical Deformity: A Prospective Multicenter Assessment with 1-Year Follow-up*. 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
259. Line B, Bess S, Smith JS, Shaffrey CI, Klineberg E, Kim HJ, Lafage V, Schwab F, Soroceanu A, Burton D, Gupta M, Deviren V, **Ames C**, Hart R, ISSG. *Failure Patterns of Prophylactic Techniques Utilized to Prevent Proximal Junctional Failure (PJF)*

- Following Adult Spinal Deformity (ASD) Surgery Are Predictable: A Guideline for Surgeons.* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
260. Buckland A, Puvanesarajah, Jain A, Klineberg E, Vigdorichik J, Schwarzkopf R, Shaffrey C, Smith JS, Hart R, Ames C, Hassanzadeh, ISSG. *Dislocation of Primary Total Hip Arthroplasty is More Common in Patients with Lumbar Spinal Fusion.* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
261. *Passias P, Jalai C, Smith JS, Lafage V, Diebo B, Protosaltis T, Poorman G, Ramchandran S, Bess S, Shaffrey C, Ames C, Schwab F, ISSG. *Characterizing Cervical Spine Deformity Based on Existing Cervical and Adult Deformity Classification Schemes at Presentation and Following Treatment.* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
262. *Kim HJ, Bao H, Iyer S, Smith JS, Gupta MC, Albert TJ, Protosaltis TS, Mundis GM, Passias PG, Neuman BJ, Klineberg EO, Lafage V, Ames CP, ISSG. *The posterior use of BMP-2 in cervical deformity surgery does not result in increased complications: a prospective multicenter study.* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
263. Passias P, Jalai C, Smith JS, Poorman G, Protosaltis T, Neuman B, Sciubba D, Diebo B, Lafage R, Lafage V, Ames C, Shaffrey C, ISSG. *Does Myelopathy or Alignment Improvement Drive Acute Post-Operative Outcomes in Cervical Deformity Patients?* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
264. *Kim HJ, Bao H, Iyer S, Smith JS, Kelly MP, Gupta M, Albert TJ, Protosaltis T, Mundis GM, Passias P, Neuman B, Klineberg E, Lafage V, Ames CP, ISSG. *Neurological complications in Adult Cervical Deformity Surgery.* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
265. *Kim HJ, Bao H, Iyer S, Smith JS, Kelly MP, Gupta M, Albert TJ, Protosaltis T, Mundis GM, Passias P, Neuman B, Klineberg E, Lafage V, Ames CP, ISSG. *Cervical Deformity Surgery does not result in Post-operative Dysphagia: a Prospective Cohort Study.* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
266. *Passias PG, Jalai CM, Lafage V, Lafage R, Protosaltis TS, Ramchandran S, Gupta MC, Hart RA, Deviren V, Soroceanu A, Smith JS, Schwab FJ, Shaffrey CI, Ames CP, ISSG. *Primary drivers of cervical deformity: prevalence and effect of surgical treatment strategies on post-operative alignment.* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
267. *Kim HJ, Diebo BG, Iyer S, Kelly MP, Sciubba DM, Schwab FJ, Lafage V, Mundis GM, Shaffrey CI, Smith JS, Hart RA, Burton DC, Bess S, Ames CP, Klineberg EO, ISSG. *Thromboembolic disease in adult spinal deformity Surgery: incidence and risk factors in 737 patients.* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.

268. Klineberg E, Nguyen S, Kelly M, Bess S, Shaffrey C, Smith JS, Lafage V, Schwab F, Errico T, Burton D, Kim HJ, Ames CP, Gupta M, Mundis GM, ISSG. *Estimated Blood Loss is a Weak Predictor of Major Complications in Adult Spinal Deformity Surgery*. 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
269. *Kim HJ, Iyer S, Schwab F, Protosaltis T, Passias P, Hostin R, Mundis G, Deviren V, Shaffrey C, Kebaish K, Smith JS, Bess S, Ames C, Klineberg E, ISSG. *Rates of Recovery and Outcomes after Neurologic Complications in Adult Spinal Deformity Surgery*. 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
270. Hamilton DK, Buza J, Passias P, Jalai C, Kim HJ, Hart R, Ailon T, Gupta M, Ames C, Deviren V, Daniels A, Lafage V, Bess S, Klineberg E, Shaffrey C, Jain A, Smith JS, ISSG. *The Fate of Adult Spinal Deformity (ASD) Patients Incurring Rod Fracture after Thoracolumbar Fusion without Prior 3-Column Osteotomy*. 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
271. *Gum JL, Hostin R, Robinson C, Glassman S, Burton D, Polly DW Jr, Bess S, Kelly M, Shaffrey C, Smith JS, Lafage V, Schwab F, Ames C, Carreon LY, ISSG. *Cost-effectiveness of Surgical Treatment of Adult Spinal Deformity: Comparison of Posterior-only versus Anterior-Posterior Approach*. 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016. (Recipient of the 2016 North American Spine Society Value Abstract Award)
272. *Gum JL, Carreon LY, Hostin R, Robinson C, Glassman SD, Kelly M, Burton D, Polly DW Jr, Smith JS, Shaffrey C, Schwab F, Lafage V, Hart R, Ames C, ISSG. *Propensity-Matched Cost-effectiveness Comparison of Bone Morphogenetic Protein (BMP) Utilization in Adult Spinal Deformity (ASD) Surgery using Direct Costs*. 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
273. *Cruz DL, Day L, Ramchandran S, Foster N, Line B, Lafage V, Ames C, Shaffrey C, Kelly M, Gum J, Smith JS, Schwab F, Hostin R, Bess S, ISSG. *Operative (OP) Treatment of Adult Spinal Deformity (ASD) Patients with Moderate to Severe Disability is Superior to Nonoperative (NON) Treatment*. 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
274. *Gupta MC, Diebo BG, Protosaltis TS, Hart RA, Smith JS, Ames CP, Lafage R, Scheer JK, Kim HJ, Bess S, Burton DC, Passias PG, Schwab FJ, Lafage V, ISSG. *Bimodal incidence and causes of proximal junctional kyphosis in adult spinal deformity*. 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
275. *Miller E, Lenke L, Rebmann-Espinoza K, Neuman B, Sciubba D, Smith JS, Qiu Y, Dahl B, Matsuyama Y, Fehlings M, Cheung K, Carreon L, Ames C, AO Spine KFD, ISSG. *Use of the Adult Spinal Deformity (ASD) Frailty Index (ASD-FI) to Predict Major Complication Risk in the Scolio-Risk 1 Patient Database*. 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
276. Daniels A, Line B, Lafage V, Smith JS, Shaffrey C, Gupta M, Klineberg E, Schwab F, Passias P, Burton D, Bess S, Ames C, Hart R, ISSG. *When Do Surgeons Choose Upper*

- Thoracic Versus Lower Thoracic Proximal End Point for Fusion of Adult Spinal Deformity Patients?* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
277. *Protopsaltis T, Ramchandran S, Kim HJ, Neuman B, Passias P, Lafage V, Lafage R, Gupta M, Hart R, Smith JS, Schwab F, Bess S, Shaffrey C, Ames C, ISSG. *Analysis of Early Distal Junctional Kyphosis (DJK) after Cervical Deformity Correction.* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
278. Steiner C, Henry J, Diebo B, Smith JS, Patel, Shaffrey C, Ames C, Mundis G, Burton D, Bess S, Gum J, Schwab F, Lafage V, Kim HJ, ISSG. *Operative vs. Nonoperative Treatment for Sagittal Deformities Characterized by Loss of Lumbar Lordosis with Normal Sagittal Vertical Axis.* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
279. *Lafage R, Scheer J, Liabaud B, Schwab F, Smith JS, Passias P, Hostin R, Ames C, Mundis G, Burton D, Kim HJ, Bess S, Klineberg E, Lafage V, ISSG. *Impact of Radiculopathy on Patients Reported Outcomes (PRO): A Propensity Matched Study on 386 Adult Spinal Deformity Patients With and Without Leg Pain.* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
280. *Lafage R, Obeid I, Liabaud B, Bess S, Burton D, Smith JS, Jalai C, Hostin R, Shaffrey C, Ames C, Kim HJ, Klineberg E, Schwab F, Lafage V, ISSG. *Location of Correction Within the Lumbar Spine Impacts Acute Adjacent Segment Kyphosis.* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
281. *Elysee, Lafage R, Line B, Schwab F, Smith JS, Obeid I, Hart R, Gum J, Ames C, Mundis G, Albert TJ, Bess S, Gupta M, Lafage V, ISSG. *Upper-Most Instrumented Vertebra Mechanical Loading Correlates With the Magnitude of Proximal Junctional Kyphosis in Adult Spinal Deformity Surgery.* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
282. *Liabaud B, Lafage R, Hart R, Schwab F, Smith JS, Kim HJ, Hostin R, Passias P, Ames C, Mundis G, Burton D, Bess S, Klineberg E, Lafage V, ISSG. *Proximal Junctional Kyphosis (PJK) Can Be Predicted Following Adult Spinal Deformity (ASD) Surgery: Models Based On Regional Alignment Changes Within the Fusion Area.* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
283. *Lafage R, Gum J, Liabaud B, Schwab F, Smith JS, Ames C, Hostin R, Shaffrey C, Mundis G, Burton D, Hart, Bess S, Gupta M, Lafage V, ISSG. *Unfused Thoracic Spine Reciprocal Alignment Changes Following Adult Spinal Deformity (ASD) Surgery Can Be Predicted.* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
284. *Lafage R, Line B, Liabaud B, Schwab F, Smith JS, Gum J, Ames C, Hostin R, Mundis G, Burton D, Kim HJ, Bess S, Klineberg E, Lafage V, ISSG. *Orientation of The Upper Instrumented Segment Influences Proximal Junctional Disease Following Adult Spinal Deformity (ASD) Surgery.* 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.

285. *Baker JF, McClelland S 3rd, Line BG, Smith JS, Gold HT, Hart RA, Ames CP, Bess RS. *Surgery for degenerative conditions of the lumbar spine in Parkinson's disease: comparative analysis from the Nationwide Inpatient Sample Database*. 31st Annual Meeting of the North American Spine Society. Boston, MA. October 26-29, 2016.
286. Scheer J.K., Ailon T., Smith J.S., Hart R.A., Burton D.C., Bess S., Neuman B., Passias P., Miller E., Shaffrey C.I., Schwab F., Lafage V., Klineberg E., Ames C.P., ISSG, 2016. *Predictive Modeling of Length of Hospital Stay (LOS) Following Adult Spinal Deformity (ASD) Correction: Analysis of 653 Patients With an Accuracy of 75% Within 2 Days*. Annual Meeting of the Congress of Neurological Surgeons, San Diego, CA. – Podium
287. Scheer J.K., Hey L.A., LaGrone M.O., Daubs M.D., Ames C.P., 2016. *Results of the 2015 SRS Survey on Single Versus Two Attending Surgeon Approach for Adult Spinal Deformity (ASD) Surgery*. Annual Meeting of the Congress of Neurological Surgeons, San Diego, CA. – Podium
288. Kim H.J., Iyer S., Theologis A.A., Albert T.J., Lenke L.G., Deviren V., Nemani V.M., Boachie-Adjei O., Burch S., Mizutani J., Klineberg E.O., Protosaltis T.S., Smith J.S., Scheer J.K., Ames C.P., ISSG, 2015. *Extent of Proximal Fusion correlates with Worse Clinical Outcomes in Cervical to Pelvis Fusions*. 43rd Annual Meeting of the Cervical Spine Research Society, San Diego, CA.
289. Passias P.G., Oh C., Jalai C.M., Worley N.J., Lafage R., Scheer J.K., Klineberg E.O., Hart R.A., Kim H.J., Smith J.S., Lafage V., Ames C.P., ISSG, 2015. *Predictive Model for Cervical Alignment Outcomes following Surgical Correction of Adult Spinal Deformity*. 43rd Annual Meeting of the Cervical Spine Research Society, San Diego, CA.
290. Neuman B.J., Jain A., Sciubba D.M., Klineberg E.O., Kim H.J., Zabala L.P., Mundis G.M., Lafage V., Passias P.G., Lafage R., Protosaltis T.S., Hamilton D.K., Scheer J.K., Ames C.P., ISSG, 2015. *Regional Thoracic and Lumbar Sagittal Cobb Angle Changes and UIV Determine Evolution of Cervical Alignment after ASD Surgery: Series of 171 Patients with Two-Year Follow-up*. 43rd Annual Meeting of the Cervical Spine Research Society, San Diego, CA. – Podium
291. Iyer S., Kim H.J., Theologis A., Nemani V.M., Albert T.J., Lenke L.G., Burch S., Boachie-Adjei O., Deviren V., Protosaltis T.S., Smith J.S., Scheer J.K., Mizutani J., Klineberg E.O., Ames C.P., ISSG, 2015. *Outcomes and Complications of Fusions from the Cervical Spine to the Pelvis: Series of 46 Cases with Average 2.7-Year Follow-up*. 43rd Annual Meeting of the Cervical Spine Research Society, San Diego, CA. – Podium
292. *Kim HJ, Iyer S, Smith JS, Kelly MP, O'Brien MF, Gupta MC, Albert TJ, Protosaltis TS, Mundis GM, Passias PG, Klineberg EO, Ames CP, ISSG. *Cervical deformity surgery does not result in acute post-operative dysphagia: preliminary results from a prospective cervical deformity study*. 43rd Annual Cervical Spine Research Society Annual Meeting. San Diego, CA. December 2-5, 2016.
293. Kim HJ, Iyer S, Theologis AA, Albert TJ, Lenke LG, Deviren V, Nemani VM, Boachie-Adjei O, Burch S, Mizutani J, Klineberg EO, Protosaltis TS, Smith JS, Scheer JK, Ames CP. *Extent of proximal fusion correlates with worse outcomes in cervical to pelvis fusions*. 43rd Annual Cervical Spine Research Society Annual Meeting. San Diego, CA. December 2-5, 2016.

294. Scheer J.K., Hostin R., Robinson C., Schwab F., Hart R.A., Lafage V., Burton D.C., Bess S., Protopsaltis T.S., Shaffrey C.I., Smith J.S., **Ames C.P.**, ISSG. 2017. *Use of a Validated Predictive Model for Patient Selection in Adult Spinal Deformity (ASD) Surgery Has the Potential to Enhance QALYs Gained at 2-years: Simulation in 234 ASD Patients.* 33rd Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Las Vegas, NV. – **Podium**
295. Scheer J.K., Ailon T., Smith J.S., Hart R.A., Burton D.C., Bess S., Neuman B., Passias P.G., Miller E., Shaffrey C.I., Schwab F., Lafage V., Klineberg E., **Ames C.P.**, ISSG. 2017. *Predictive Modeling of Length of Hospital Stay (LOS) Following Adult Spinal Deformity (ASD) Correction: Analysis of 653 Patients with an Accuracy of 75% within 2 Days.* 33rd Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Las Vegas, NV. – **Podium**
296. Scheer J.K., Lafage R., Liabaud B., Schwab F., Smith J.S., Hostin R., Shaffrey C.I., Burton D.C., Kim H.J., Bess S., Lafage V., **Ames C.P.**, ISSG. 2017. *Under-Correction of Sagittal Deformities Based on Age-Adjusted Alignment Thresholds Leads to Worse HRQOL While Over-Correction Provides No Additional Benefit.* 33rd Annual Meeting of the 33rd Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Las Vegas NV. – **Podium**
297. Smith JS, Shaffrey C, Kim HJ, Mundis G, Gupta M, Klineberg E, Schwab F, Lafage V, Lafage R, Passias P, Protopsaltis T, Neuman B, Daniels A, Ailon T, Scheer J, Kebaish K, Hart R, O'Brien M, Burton D, Deviren V, Albert T, Riew D, **Ames C**, ISSG. *Outcomes of Operative Treatment for Adult Cervical Deformity: A Prospective Multicenter Assessment with 1-Year Follow-up.* Spine Summit Annual Meeting of the AANS/CNS DSPN. Las Vegas, NV. March 8-11, 2017.
298. Smith JS, Shaffrey C, Kim HJ, Neuman B, Klineberg E, Schwab F, Lafage V, Lafage R, Scheer J, Protopsaltis T, Passias P, Mundis G, Hart R, Deviren V, Bess S, **Ames CP**, ISSG. *Three-column Osteotomy for Correction of Cervical Deformity: Alignment Changes and Early Complications in A Multicenter Prospective Series of 24 Patients.* Spine Summit Annual Meeting of the AANS/CNS DSPN. Las Vegas, NV. March 8-11, 2017.
299. *Ailon TT, Smith JS, Shaffrey CI, Soroceanu A, Lafage V, Schwab F, Burton D, Hart R, Gum J, Hostin R, Kelly M, Glassman S, Bess S, **Ames C**, ISSG. *Adult Spinal Deformity Patients with Previous Fusions have an Equal Chance of Reaching Substantial Clinical Benefit Thresholds in Health-related Quality of Life Measures but do not Reach the Same Absolute Level of Improvement.* Spine Summit Annual Meeting of the AANS/CNS DSPN. Las Vegas, NV. March 8-11, 2017.
300. *Lenke L, Miller EK, Sciubba DM, Scheer JK, Neuman BJ, Smith JS, Dahl B, Fehlings MG, Cheung K, Carreon LY, Shaffrey CI, Kebaish K, **Ames CP**, ISSG. *Use of the adult spinal deformity frailty index (ASD-FI) to predict major complications in the scoli-risk 1 multicenter, international patient database.* Spine Summit Annual Meeting of the AANS/CNS DSPN. Las Vegas, NV. March 8-11, 2017.
301. *Miller EK, Ailon TT, Scheer JK, Daniels AH, Smith JS, Schwab F, Lafage V, Burton DC, Hart R, Bess S, Shaffrey CI, **Ames CP**, ISSG. *Despite higher risk stratification*

- sores, frail patients achieve greater two-year health-related quality of life improvement from baseline compared to non-frail patients following adult spinal deformity surgery. Spine Summit Annual Meeting of the AANS/CNS DSPN. Las Vegas, NV. March 8-11, 2017.
302. *Gupta MC, Diebo BG, Protopsaltis TS, Hart RA, Smith JS, Ames CP, Lafage R, Scheer JK, Kim HJ, Bess S, Burton DC, Passias PG, Schwab FJ, Lafage V, ISSG. *Bimodal incidence and causes of proximal junctional kyphosis in adult spinal deformity*. Spine Summit Annual Meeting of the AANS/CNS DSPN. Las Vegas, NV. March 8-11, 2017.
 303. *Goldschmidt E, Angriman F, Trevisan M, Zhou J, Agarwal N, Chen K, Kanter AS, Okonkwo DO, Passias P, Scheer JK, Protopsaltis T, Lafage V, Lafage R, Schwab F, Bess S, Ames CP, Smith JS, Burton DC, Hamilton DK, ISSG. *Towards a better understanding of cervical sagittal alignment: utilizing a novel angle to describe the relationship between T1 vertebral body slope, cervical lordosis, and cervical sagittal alignment*. Spine Summit Annual Meeting of the AANS/CNS DSPN. Las Vegas, NV. March 8-11, 2017.
 304. *Passias PG, Jalai CM, Lafage R, Ramchandran S, Poorman GW, Lafage V, Smith JS, Horn SR, Deviren V, Hart R, Protopsaltis T, Daniels AH, Klineberg E, Shaffrey CI, Ames CP, ISSG. *Reciprocal changes in unfused spinal regions after treatment of cervical deformity based on deformity driver and surgical strategies*. Spine Summit Annual Meeting of the AANS/CNS DSPN. Las Vegas, NV. March 8-11, 2017.
 305. Smith JS, Shaffrey C, Kim HJ, Mundis G, Gupta M, Klineberg E, Schwab F, Lafage V, Lafage R, Passias P, Protopsaltis T, Neuman B, Daniels A, Ailon T, Scheer J, Kebaish K, Hart R, O'Brien M, Burton D, Deviren V, Albert T, Riew D, Ames C, ISSG. *Outcomes of Operative Treatment for Adult Cervical Deformity: A Prospective Multicenter Assessment with 1-Year Follow-up*. Annual Meeting of American Association of Neurological Surgeons. Los Angeles, CA. April 22-26, 2017.
 306. Smith JS, Shaffrey C, Kim HJ, Neuman B, Klineberg E, Schwab F, Lafage V, Lafage R, Scheer J, Protopsaltis T, Passias P, Mundis G, Hart R, Deviren V, Bess S, Ames CP, ISSG. *Three-column Osteotomy for Correction of Cervical Deformity: Alignment Changes and Early Complications in A Multicenter Prospective Series of 24 Patients*. Annual Meeting of American Association of Neurological Surgeons. Los Angeles, CA. April 22-26, 2017.
 307. Smith JS, Line B, Bess S, Shaffrey C, Kim HJ, Mundis G, Schher J, Klineberg E, Gupta M, Daniels S, Kelly MP, Gum J, Schwab F, Lafage V, Lafage R, Ailon T, Passias P, Protopsaltis T, Hart R, Burton D, Deviren V, Ames C, ISSG. *The Health Impact of Symptomatic Adult Cervical Deformity: Comparison to United States Population Norms and Chronic Disease States Based on the EQ5D*. Annual Meeting of American Association of Neurological Surgeons. Los Angeles, CA. April 22-26, 2017.
 308. Ailon TT, Smith JS, Shaffrey CI, Soroceanu A, Lafage V, Schwab F, Burton D, Hart R, Gum J, Hostin R, Kelly M, Glassman S, Bess S, Ames C, ISSG. *Adult Spinal Deformity Patients with Previous Fusions have an Equal Chance of Reaching Substantial Clinical Benefit Thresholds in Health-related Quality of Life Measures but do not Reach the Same Absolute Level of Improvement*. Annual Meeting of American Association of Neurological Surgeons. Los Angeles, CA. April 22-26, 2017.

309. Smith JS, Gupta M, Klineberg E, Shaffrey C, Schwab F, Lafage V, Liabaud B, Kim HJ, Hart R, Kostin R, Burton D, Deviren V, Bess S, **Ames C**, ISSG. *Complication Rates Associated with 3-Column Osteotomy in 82 Adult Spinal Deformity Patients: Retrospective Review of a Prospectively Collected Multicenter Consecutive Series with Minimum 2-Yr Follow-Up*. Annual Meeting of American Association of Neurological Surgeons. Los Angeles, CA. April 22-26, 2017.
310. *Miller EK, Ailon TT, Scheer JK, Daniels AH, Smith JS, Schwab F, Lafage V, Burton DC, Hart R, Bess S, Shaffrey CI, **Ames CP**, ISSG. Frail patients achieve greater health-related quality of life improvement following adult spinal deformity surgery. Annual Meeting of American Association of Neurological Surgeons. Los Angeles, CA. April 22-26, 2017.
311. Scheer JK, Lafage R, Liabaud B, Schwab FJ, Smith JS, Mundis GM Jr, Hostin R, Shaffrey CI, **Ames CP**, Burton DC, Kim HJ, Bess S, Gupta MC, Lafage V, ISSG. Under-correction of sagittal deformities based on age-adjusted alignment thresholds leads to worse HRQOL while over-correction provides no additional benefit. Annual Meeting of American Association of Neurological Surgeons. Los Angeles, CA. April 22-26, 2017.
312. Scheer JK, Ailon T, Smith JS, Hart RA, Burton DB, Bess S, Neuman B, Passias P, Miller E, Shaffrey C, Schwab F, Lafage V, Klineberg E, **Ames CP**, ISSG. Predictive Modeling of Length of Hospital Stay (LOS) Following Adult Spinal Deformity (ASD) Correction: Analysis of 653 Patients with an Accuracy of 75% within 2 Days. Annual Meeting of American Association of Neurological Surgeons. Los Angeles, CA. April 22-26, 2017.
313. Scheer J, Hostin R, Robinson C, Gum J, Schwab F, Hart R, Lafage V, Burton D, Bess S, Protopsaltis T, Klineberg E, Shaffrey C, Smith JS, **Ames C**, ISSG. Use of a Validated Predictive Model for Patient Selection in Adult Spinal Deformity (ASD) Surgery has the Potential to Enhance QALYs Gained at 2-years: Simulation in 234 ASD Patients. Annual Meeting of American Association of Neurological Surgeons. Los Angeles, CA. April 22-26, 2017.
314. *Passias P, Jalai C, Smith JS, Poorman G, Protopsaltis T, Neuman B, Sciubba D, Diebo B, Lafage R, Lafage V, **Ames C**, Shaffrey C, ISSG. Does Myelopathy or Alignment Improvement Drive Acute Post-Operative Outcomes in Cervical Deformity Patients? Annual Meeting of American Association of Neurological Surgeons. Los Angeles, CA. April 22-26, 2017.
315. Soroceanu A., Gum J., Kelly M., Passias P., Smith J.S., Protopsaltis T., Lafage V., Kim H.J., Scheer J.K., Gupta M., Mundis G., Klineberg E., Burton D., Bess S., **Ames C.P.**, ISSG. 2017. *Establishing the Minimum Clinically Important Difference in NDI and mJOA for Adult Cervical Deformity*. North American Spine Society, Orlando, FL. – **Podium**
316. Miller E., Neuman B., Sciubba D., Scheer J.K., Smith J.S., Ailon T., Kebaish K., Bess S., Lafage V., Line B., Shaffrey C.I., Schwab F., Klineberg E., **Ames C.P.**, ISSG. 2017. *The Association of Frailty with Chin-Brow Vertebral Angle Compensatory Ability in 122 Cervical Deformity Patients and with global Sagittal Vertebral Angle in 813 Global Deformity Patients*. North American Spine Society, Orlando, FL.

317. Neuman B.J., Raad M., Klineberg E., Sciubba D., Mundis G., Passias P, Scheer J.K., Gum J., Kebaish K., Hamilton D.K., Protopsaltis T., Line B., Smith J.S., **Ames C.P.**, ISSG. 2017. *ASD-SR Invasiveness Index Predicts the Magnitude of Deformity Surgery Essential to Stage to Reduce the Risk of Complications*. North American Spine Society, Orlando, FL. – **Podium**
318. Scheer J.K., Smith J.S., Shaffrey C., Daniels A., Protopsaltis T., Passias P., Hart R., Burton D., Bess S., Lafage R., Lafage V., Schwab F., Klineberg E., **Ames C.**, ISSG. 2017. *Development of a Validated Computer Based Preoperative Predictive Model for Pseudoarthrosis with 91% Accuracy in 336 Adult Spinal Deformity (ASD) Patients*. North American Spine Society, Orlando, FL.
319. Smith J., Shaffrey C., Gupta M., Klineberg E., Lafage V., Schwab F., Kim H.J., Passias P., Protopsaltis T., Lafage R., Mundis G., Scheer J.K., Kelly M., Hamilton D.K., Soroceanu A., Daniels A., Deviren V., Hostin R., Hart R., Burton D., Bess S., **Ames C.**, ISSG. 2017. *Incidence and Outcomes of Neurological Complications in 176 Adult Spinal Deformity (ASD) Patients Treated with 3-Column Osteotomy (3CO)*. North American Spine Society, Orlando, FL.
320. Smith J., Shaffrey C., Kim H.J., Passias P., Protopsaltis T., Lafage R., Mundis G., Klineberg E., Lafage V., Schwab F., Scheer J.K., Kelly M., Hamilton D.K., Gupta M., Deviren V., Hostin R., Albert T., Riew D., Hart R., Burton D., Bess S., **Ames C.**, ISSG. 2017. *Prospective Multicenter Assessment of All-Cause Mortality Following Surgery for Adult Cervical Deformity (ACD)*. North American Spine Society, Orlando, FL. – **Podium**
321. Smith J., Shaffrey C., Kim H.J., Passias P., Protopsaltis T., Lafage R., Mundis G., Klineberg E., Lafage V., Schwab F., Scheer J.K., Kelly M., Hamilton D.K., Gupta M., Deviren V., Hostin R., Albert T., Riew D., Hart R., Burton D., Bess S., **Ames C.**, ISSG. 2017. *Prospective Multicenter Assessment of All-Cause Mortality Following Surgery for Adult Cervical Deformity (ACD)*. 52nd Annual Meeting & Course of the Scoliosis Research Society, Philadelphia, PA. – **Podium**
322. Soroceanu A., Gum J., Kelly M., Passias P., Smith J.S., Protopsaltis T., Lafage V., Kim H.J., Scheer J.K., Gupta M., Mundis G., Klineberg E., Burton D., Bess S., **Ames C.P.**, ISSG. 2017. *Establishing the Minimum Clinically Important Difference in NDI and mJOA for Adult Cervical Deformity*. 52nd Annual Meeting & Course of the Scoliosis Research Society, Philadelphia, PA. – **Podium**

POSTER PRESENTATIONS

INTERNATIONAL

1. Hostin R, Hart R, Line B, **Ames C**, Lafage V, Schwab F, Burton D, Shaffrey C, Smith J, Kebaish K, O'Brien M, Wood K, Bess S, ISSG. Treatment parameters and injury mechanisms associated with acute proximal junctional failure following posterior spinal fusion for deformity. International Meeting on Advanced Spinal Techniques (IMAST). (e-poster 259). Toronto, Canada, 2010.
2. Lafage V, Schwab F, **Ames C**, Hostin R, Hart R, Deviren V, Akbarnia B, Demakakos J, Smith J, Shaffrey C, Kebaish K, Burton D, Bess S, ISSG. Can Different Surgical

- Strategies Result in Satisfactor Post-Operative Sagittal Alignment? International Meeting on Advanced Spinal Techniques (IMAST). (#440). Copenhagen, Denmark. 2011.
3. Smith J, Lafage V, Klineberg E, Shaffrey C, Schwab F, Mundis G, Hart R, Bess S, Hostin R, Burton D, Gupta M, Deviren V, Ames C, ISSG. Correction of Sagittal Malalignment Following Pedicle Subtraction Osteotomy Improves Cervical Lordosis. International Meeting on Advanced Spinal Techniques (IMAST). (#439). Copenhagen, Denmark. 2011.
 4. Hart R, Mummaneni P, Line B, Shaffrey C, Smith J, Boachie-Adjei O, Burton D, Akbarnia B, Mundis G, Lafage V, Schwab F, Ames C, Bess S, Wood K, ISSG. Self Reported Functional Limitations Due to Lumbar Stiffness Correlate with Age and SRS-22 Scores Among Asymptomatic Volunteers. International Meeting on Advanced Spinal Techniques (IMAST). (#502). Copenhagen, Denmark. 2011.
 5. Burton D, Lai SM, Akbarnia B, Ames C, Bess S, Deviren V, Hart R, Kebaish K, Mundis G, Shaffrey C, Smith J, ISSG. The Association Between DRAM and the SRS 22r: Can We Substitute the SRS 22r for the DRAM for Assessing Psychological Distress? International Meeting on Advanced Spinal Techniques (IMAST). (#666). Copenhagen, Denmark. 2011.
 6. Hart R, Hostin R, Bess S, Line B, Ames CP, Kebaish K, Burton D, Lafage V, O'Brien M, Schwab F, Shaffrey C, Smith J, Wood K. Acute Proximal Junctional Failure Following Long Posterior Fusion for Spinal Deformity: Risk Factors and Radiographic Analysis Comparing Thoracolumbar to Upper Thoracic Failures. Amsterdam, Netherlands 2012.
 7. Hart R, Mummaneni P, Line B, Shaffrey C, Smith J, Boachie-Adjei O, Burton D, Akbarnia B, Mundis G, Lafage V, Schwab F, Ames C, Bess S, Wood K, ISSG. Self Reported Functional Limitations Due to Lumbar Stiffness Correlate with Age and SRS-22 Scores Among Asymptomatic Volunteers. Amsterdam, Netherlands 2012.
 8. Blondel B, Schwab F, Ames C, Le Huec JC, Smith J, Shaffrey C, Bess S, Demakakos J, Moal B, Tropiano P, Farcy JP, Lafage V. The Crucial Role of Cervical Alignment in Regulating Sagittal Spino-Pelvic Alignment in Human Standing Posture. IMAST. Istanbul, Turkey 2012.
 9. Bess S, Line B, Boachie-Adjei O, Hart R, Lafage V, Schwab F, Akbarnia B, Ames C, Burton D, Hostin R, Klineberg E, Mundis G, Shaffrey C, Smith J, ISSG. Does Recombinant Human Bone Morphogenetic Protein-2 (BMP) Use in Adult Spinal Deformity (ASD) Increase Complications and Are Complications Dose Related? A Prospective, Multicenter Study of 257 Consecutive Patients. IMAST. Istanbul, Turkey 2012.
 10. Hart R, Hostin R, Protosaltis T, Bess S, Schwab F, Lafage V, Mummaneni P, Ames C, Shaffrey C, Smith J, Boachie-Adjei O, Klineberg E, Burton D, Gupta M, ISSG. Age, Sagittal Deformity and Operative Correction are Risk Factors for Proximal Junctional Failure (PJF) Following Adult Spinal Deformity (ASD) Surgery. IMAST. Istanbul, Turkey 2012.
 11. Ames C, Scheer J, Smith J, Klineberg E, Hart R, Mundis G, Burton D, Hostin R, O'Brien M, Shaffrey C, Bess S, Schwab F, Kebaish K, Deviren V, ISSG. Reoperation Rates and

- Impact on Outcome in a Large Prospective Multicenter Adult Spinal Deformity Database. IMAST. Istanbul, Turkey 2012.
12. Hostin R, O'Brien M, McCarthy I, Ames C, Kebaish K, Burton D, Lafage V, Schwab F, Shaffrey C, Smith J, Wood K, Hart R, Line b, Deviren V, ISSG. Identification of Decision Criteria for Revision Surgery among Patients with Acute Proximal Junctional Failure following Surgical Treatment for Spinal Deformity. IMAST. Istanbul, Turkey 2012.
 13. O'Brien M, Hostin R, McCarthy I, Fleming N, Ogola G, Kudyakov R, Richter K, Saigal R, Berven S, Deviren V, Ames C, ISSG. Analysis of Health Related Quality of Life Improvements among Patients with Adult Spinal Deformity. IMAST. Istanbul, Turkey 2012.
 14. O'Brien M, Hostin R, McCarthy I, Ames C, Smith J, Gupta M, Hart R, Burton D, Shaffrey C, Bess S, Schwab F, Lafage V, Kebaish K, Deviren V, ISSG. The Effect of Complications on Health Outcomes among Patients Undergoing Three-Column Osteotomy Surgery. IMAST. Istanbul, Turkey 2012.
 15. Lafage V, Schwab F, Ames C, Moal B, Hostin R, Mummaneni P, Kebaish K, Smith J, Deviren V, Shaffrey C, Klineberg E, Bess S, ISSG. Prevalence and Risk Factors for Proximal Junctional Kyphosis Following Realignment Surgery by Pedicle Subtraction Osteotomy: A Multicenter Review. IMAST. Istanbul, Turkey 2012.
 16. Tang J, Scheer J, Smith J, Deviren V, Bess S, Hart R, Lafage V, Shaffrey C, Schwab F, Ames C. The Impact of Standing Regional Cervical Sagittal Alignment on Outcomes in Posterior Cervical Fusion Surgery . IMAST. Istanbul, Turkey 2012.
 17. Mundis G, Terran J, Deviren V, Ames C, Gupta M, Burton D, ISSG. Risk Factors in Predicting Early Post-Operative Coronal Imbalance in Adult Spinal Deformity Patients: A Multicenter Analysis. IMAST. Istanbul, Turkey 2012.
 18. Hostin R, O'Brien M, McCarthy I, Ames C, Smith J, Gupta M, Hart R, Burton D, Shaffrey C, Bess S, Schwab F, Lafage V, Deviren V, Kebaish K, ISSG. The Impact of Restored Global Sagittal Alignment on Outcomes of Pedicle Subtraction Osteotomy. IMAST. Istanbul, Turkey 2012.
 19. Moal B, Schwab F, Ames C, Smith J, Mummaneni P, Mundis G, Terran J, Klineberg E, Hart R, Boachie-Adjei O, Shaffrey C, Lafage V, ISSG. Radiographic Outcomes of Spinal Deformity Correction in Adult Patients: A Critical Analysis of Variability and Failures Across Deformity Patterns. IMAST. Istanbul, Turkey 2012.
 20. Ames C, Scheer J, Deviren V, Smith J, Bess S, Hostin R, Klineberg E, Hart R, Mundis G, O'Brien M, Shaffrey C, Lafage V, Kebaish K, Schwab F, ISSG. Effect of Upper Instrumented Vertebra (UIV) On Adult Spinal Deformity (ASD) Correction, Maintenance of Correction, and Health Related Quality of Life (HRQOL) Following Lumbar Pedicle Subtraction Osteotomy (PSO). IMAST, Istanbul, Turkey 2012.
 21. Kebaish K, Klineberg E, El Dafrawy M, Lafage V, Shaffrey C, Schwab F, Gupta M, Bess S, Hostin R, O'Brien M, Boachie-Adjei O, Ames C, ISSG. Pelvic Fixation after Lumbar Pedicle Subtraction Osteotomy for Correction of Adult Spinal Deformity is Associated

- with Improved Radiographic Correction: Multicenter Radiographic Analysis. IMAST. Istanbul, Turkey 2012.
22. El Dafrawy M, Lafage V, Hostin R, Ames C, Smith J, Terran J, Deviren V, O'Brien M, Schwab F, Kebaish K, ISSG. Longitudinal Radiographic Assessment of Maintenance of Sagittal Plane Deformity Correction Following Three-Column Spinal Osteotomy. IMAST. Istanbul, Turkey 2012.
 23. Klineberg, Eric; Gupta, Munish C.; Nguyen, Stacie; Ames, Christopher P.; Burton, Douglas C.; Kelly, Michael P.; Mundis, Gregory M.; Shaffrey, Christopher I.; Smith, Justin S.; Schwab, Frank J.; Errico, Thomas J.; Hostin, Richard; Kim, Han Jo; Bess, Shay; Study Group, International Spine. *Anterior Posterior Versus Posterior Only Correction in Adult Spinal Deformity Matched Curves: Similar Correction with More Intra-Operative, but Less Late Implant Complications*. IMAST. Valencia, Spain 2014
 24. Protopsaltis, Themistocles S.; Boniello, Anthony J.; Smith, Justin S.; Passias, Peter G.; Shaffrey, Christopher I.; Boachie-Adjei, Oheneba; Mundis, Gregory M.; Ames, Christopher P.; Errico, Thomas J.; Bess, Shay; Gupta, Munish C.; Hart, Robert A.; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *Inter-center Variability in Treatment and Surgical Outcomes of Sagittal Adult Spinal Deformity (ASD) Surgery: A Retrospective Analysis from 5 Surgical Centers*. IMAST. Valencia, Spain 2014
 25. Lau, Darryl; Funao, Haruki; Clark, Aaron J.; Smith, Justin S.; Bess, Shay; Shaffrey, Christopher I.; Schwab, Frank J.; Lafage, Virginie; Deviren, Vedat; Hart, Robert A.; Kebaish, Khaled; Ames, Christopher P.; Study Group, International Spine. *Clinical Impact Correlation of a Delphi based Proximal Junctional Kyphosis Severity Scale and HRQOL*. IMAST. Valencia, Spain 2014
 26. Liu, Shian¹; Ferrero, Emmanuelle¹; Ames, Christopher P.; Kebaish, Khaled³; Obeid, Ibrahim¹⁰; Hostin, Richard⁴; Klineberg, Eric⁵; Boachie-Adjei, Oheneba⁶; Smith, Justin S.⁷; Mundis, Gregory M.⁸; Maier, Stephen P.¹; Protopsaltis, Themistocles S.¹; Schwab, Frank J.¹; Lafage, Virginie¹; Study Group, International Spine. *Revisions and Junctional Failures of Short versus Long Fusions for Adult Spinal Deformity treated by Three Column Osteotomy*. IMAST. Valencia, Spain 2014
 27. Liabaud, Barthelemy¹; Lafage, Virginie¹; Schwab, Frank J.¹; Smith, Justin S.²; Hamilton, D. K.³; Hiratzka, Jayme R.³; Deviren, Vedat⁴; Ames, Christopher P.⁵; Kim, Han Jo⁶; Bess, Shay⁷; Mundis, Gregory M.⁸; Klineberg, Eric⁹; Hu, Serena¹⁰; Hart, Robert A.³; Study Group, International Spine. *How Much Lordosis Is Required for Sagittal Alignment in Patients with High or Low Pelvic Incidence?* IMAST. Valencia, Spain 2014
 28. Ames, Christopher P.; Matsumoto, Morio²; Hosogane, Naobumi³; Smith, Justin S.⁴; Protopsaltis, Themistocles S.⁵; Yamato, Yu⁶; Matsuyama, Yukihiro⁶; Taneichi, Hiroshi⁷; Lafage, Renaud⁵; Ferrero, Emmanuelle⁵; Shaffrey, Christopher I.⁴; Lafage, Virginie⁵; Study Group, International Spine. *Geographic and Ethnic Variation in Radiographic Disability Thresholds: Analysis of North American and Japanese Operative Adult Spinal Deformity (ASD) Populations*. IMAST. Valencia, Spain 2014

29. Liu, Shian¹; Liabaud, Barthelemy¹; Smith, Justin S.²; Hostin, Richard³; Shaffrey, Christopher I.²; Cunningham, Matthew E.⁴; Mundis, Gregory M.⁵; Ames, Christopher P.; Burton, Douglas C.⁷; Bess, Shay⁸; Akbarnia, Behrooz A.⁵; Hart, Robert A.⁹; Schwab, Frank J.¹; Lafage, Virginie¹; Study Group, International Spine. *Reaching Minimal Clinically Important Difference Through Non-operative Treatment of Adult Spinal Deformity*. IMAST. Valencia, Spain 2014

NATIONAL

1. Lafage V, Hostin R, Schwab F, Klineberg E, Akbarnia B, Ames C, Boachie-Adjei O, Burton D, Shaffrey C, Smith J, Wood K, Bess S, ISSG. Thoracic vertebral column resection for adult spinal deformity improves regional spinal deformity and improves pelvic tilt. North American Spine Society (NASS). (#45) Orlando, FL, 2010.
2. Hostin R, Buchl E, Hart R, Ames C, Kebaish K, Burton D, Lafage V, Schwab F, Shaffrey C, Smith J, Wood K, Bess S, ISSG. Treatment parameters and injury mechanism associated with acute proximal junctional failure following posterior spinal fusion for deformity. North American Spine Society (NASS). (#41). Orlando, FL, 2010.
3. Hostin R, Buchl E, Hart R, Ames C, Kebaish K, Burton D, Lafage V, Shaffrey C, Schwab F, Smith J, Wood K, Bess S, ISSG. Acute proximal junctional failure following long posterior fusion for spinal deformity: Risk factors and radiographic analysis comparing upper thoracic versus thoracolumbar failures. North American Spine Society (NASS). (#28). Orlando, FL, 2010.
4. Bess S, Schwab F, Lafage V, Hostin R, Ames C, Klineberg E, Boachie-Adjei O, Burton D, Hart R, Shaffrey C, Smith J, ISSG. Thoracic three column osteotomy for adult spinal deformity improves regional spinal deformity and pelvic tilt. Congress of Neurological Surgeons (CNS). (oral poster 1247). San Francisco, CA, 2010.
5. Lafage V, Klineberg E, Schwab F, Akbarnia B, Ames C, Boachie-Adjei O, Burton D, Hart R, Hostin R, Shaffrey C, Wood K, Bess S, ISSG. Changes in thoracic kyphosis negatively impact sagittal alignment following lumbar pedicle subtraction osteotomy. Congress of Neurological Surgeons (CNS). (oral poster 69). San Francisco, CA, 2010.
6. Hostin R, Hart R, Line B, Ames C, Lafage V, Schwab F, Burton D, Shaffrey C, Smith J, O'Brien M, Wood K, Bess S, ISSG. Treatment parameters and injury mechanisms associated with acute proximal junctional failure following posterior spinal fusion for deformity. Congress of Neurological Surgeons (CNS). (oral poster 93). San Francisco, CA, 2010.
7. Hostin R, Bess S, Hart R, Line B, Ames C, Burton D, Lafage V, O'Brien M, Schwab F, Shaffrey C, Smith J, Wood K, ISSG. Acute proximal junctional failure following long posterior fusion for spinal deformity: Risk factors and radiographic analysis comparing thoracolumbar to upper thoracic failures. Congress of Neurological Surgeons (CNS). (oral poster 67). San Francisco, CA, 2010.
8. Smith J, Shaffrey C, Bess S, Hostin R, Hart R, Boachie-Adjei O, Ames C, Schwab F, Wood K, Akbarnia B, ISSG. Acute Proximal Junctional Failure in Spinal Deformity Surgery: Risk Factors and Mechanisms of Failure. American Association of Neurological Surgeons (AANS). Denver, CO, 2011.

9. Smith J, Bess S, Shaffrey C, Schwab F, Lafage V, Hostin R, Ames C, Klineberg E, Boachie-Adjei O, Burton D, Hart R, ISSG. Thoracic Three Column Osteotomy Improves Pelvic Parameters and Spinal Deformity. American Association of Neurological Surgeons (AANS). Denver, CO, 2011.
10. Schwab F, Bess S, Blondel B, Hostin R, Shaffrey C, Smith J, Boachie-Adjei O, Burton D, Akbarnia B, Mundis G, Ames C, Deviren V, Hart R, Kebaish K, Wood K, Gupta M, Klineberg E, Cunningham M, O'Brien M, ISSG, Lafage V. Combined Assessment of Pelvic Tilt, Pelvic Incidence/Lumbar Lordosis Mismatch and Sagittal Vertical Axis Predicts Disability in Adult Spinal Deformity: A Prospective Analysis. North American Spine Society (NASS). Chicago, IL. 2011.
11. Smith J, Shaffrey C, Ames C, Deviren V, Fu KMG, Schwab F, Lafage V, Bess S, ISSG. Assessment of Symptomatic Rod Fracture Following Posterior Instrumented Fusion for Adult Spinal Deformity. Congress of Neurological Surgeons (CNS). (#930-neurosurg forum). Washington, DC. 2011.
12. Lafage V, Schwab F, Blondel B, Ames C, Hostin R, Hart R, Deviren V, Akbarnia B, Demakakos J, Smith J, Shaffrey C, Burton D, Bess S, ISSG. Can Different Surgical Strategies Result in Satisfactory Post-Operative Sagittal Alignment? Congress of Neurological Surgeons (CNS). (#94-neurosurg forum). Washington, DC. 2011.
13. Bess S, Lafage V, Blondel B, Schwab F, Hostin R, Shaffrey C, Smith J, Boachie-Adjei O, Burton D, Akbarnia B, Mundis G, Ames C, Hart R, ISSG. Combined Assessment of Pelvic Tilt, Pelvic Incidence/Lumbar Lordosis Mismatch and Sagittal Vertical Axis Predicts Disability in Adult Spinal Deformity: A Prospective Analysis. Congress of Neurological Surgeons (CNS). (#72-neurosurg forum). Washington, DC. 2011.
14. Smith J, Lafage V, Klineberg E, Shaffrey C, Schwab F, Mundis G, Hart R, Bess S, Hostin R, Burton D, Gupta M, Deviren V, Ames C, ISSG. Correction of Sagittal Malalignment Following Pedicle Subtraction Osteotomy Improves Cervical Lordosis. Congress of Neurological Surgeons (CNS). (#91-neurosurg forum). Washington, DC. 2011.
15. Mummaneni P, Hart R, Hostin R, Shaffrey C, Smith J, Boachie-Adjei O, Cunningham M, Burton D, Akbarnia B, Mundis G, Lafage V, Schwab F, Ames C, Bess S, ISSG. Functional Limitations Due to Lumbar Stiffness Correlate with Pain Related Disability Measures and Sagittal Imbalance Among Adult Spinal Deformity Patients. Congress of Neurological Surgeons (CNS). (#74-neurosurg forum). Washington, DC. 2011.
16. Ames C, Gupta M, Klineberg E, Lafage V, Bess S, Schwab F, Boachie O, Akbarnia B, Mundis G, O'Brien M, Hostin R, ISSG. Pedicle Subtraction Osteotomy with Extension of Fusion to the Pelvis: Does Anterior Interbody Support at L5-S1 Improve Sagittal and Pelvic Parameters? Congress of Neurological Surgeons (CNS). (#102-neurosurg forum). Washington, DC. 2011.
17. Mummaneni P, Hart R, Line B, Shaffrey C, Smith J, Boachie-Adjei O, Burton D, Akbarnia B, Lafage V, Mundis G, Schwab F, Ames C, Bess S, ISSG. Self Reported Functional Limitations Due to Lumbar Stiffness Correlate with Age and SRS-22 Scores Among Asymptomatic Volunteers. Congress of Neurological Surgeons (CNS). (#101-neurosurg forum). Washington, DC. 2011.

18. Bess S, Yaszay B, Line B, Gupta M, Schwab F, Lonner B, Lafage V, Burton D, Akbarnia B, Ames C, Boachie-Adjei O, Hart R, Hostin R, Shaffrey C, ISSG. Surgical Treatment for Moderate Sized Main Thoracic Scoliosis Demonstrates Similar Acute Perioperative Outcomes for Adolescent and Adult Idiopathic Scoliosis: A Prospective, Matched Cohort Evaluation. Congress of Neurological Surgeons (CNS). (#73-neurosurg forum). Washington, DC. 2011.
19. Fu KM, Burton D, Lai SM, Akbarnia B, Ames C, Bess S, Deviren V, Hart R, Mundis G, Shaffrey C, Smith J, ISSG. The Association Between DRAM and the SRS 22r: Can We Substitute the SRS 22r for the DRAM for Assessing Psychological Distress? Congress of Neurological Surgeons (CNS). (#1146). Washington, DC. 2011.
20. O'Brien M, Hostin R, Freeman C, Fleming N, Ogola G, Kudyakov R, Richter KM, deVenny JT, Myers N, Ames C, Berven S, ISSG. A Preliminary Analysis of Outcomes, and Direct Cost for Four Diagnostic Categories of Adult Spinal Deformity (ASD). Congress of Neurological Surgeons (CNS). (#65-neurosurg forum). Washington, DC. 2011.
21. Schwab F, Bess S, Blondel B, Hostin R, Shaffrey C, Smith J, Boachie-Adjei O, Burton D, Akbarnia B, Mundis G, Ames C, Kebaish K, Hart R, ISSG, Lafage V. Pelvic Tilt, Pelvic Incidence/Lumbar Lordosis Mismatch and Sagittal Alignment Predict Spinal Disability. American Academy of Orthopaedic Surgeons (AAOS). (#P396). San Francisco, CA. 2012.
22. Gupta M, Klineberg E, Lafage V, Bess S, Schwab F, Boachie O, Kebaish K, Wood K, Akbarnia B, Mundis G, Ames C, O'Brien M, Hostin R, ISSG. Anterior L5-S1 Fusion Does Not Improve Sagittal Alignment Following Pedicle Subtraction Osteotomy. American Academy of Orthopaedic Surgeons (AAOS). (#P387). San Francisco, CA. 2012.
23. Tang JA, Scheer J, Smith J, Deviren V, Bess S, Schwab F, Hart RA, Lafage V, Shaffrey C, Ames C, ISSG. The Impact of Positive Regional Sagittal Alignment on Outcomes in Posterior Cervical Fusion Surgery. American Academy of Orthopaedic Surgeons (AAOS). San Francisco, CA. 2012.
24. Smith J, Ames C, Bess S, Yaszay B, Line B, Gupta M, Schwab F, Lonner B, Lafage V, Burton D, Akbarnia B, Boachie-Adjei O, Hart R, Hostin R, Shaffrey C. Comparison of Surgically Treated Adult and Adolescent Main Thoracic Scoliosis Demonstrates Similar Acute Perioperative Outcomes: A Prospective, Matched Cohort Evaluation. AANS/CNS Section. (#355). Orlando, FL. 2012.
25. Smith J, Ames C, Lafage V, Schwab F, Hostin R, Hart R, Deviren V, Akbarnia B, Demakakos J, Kebaish K, Burton D, Bess S, Shaffrey C. The Impact of Different Surgical Strategies in Achieving Satisfactory Post-Operative Sagittal Alignment. AANS/CNS Section. (#221). Orlando, FL. 2012.
26. Smith J, Ames C, Schwab F, Bess S, Blondel B, Hostin R, Boachie-Adjei O, Burton D, Akbarnia B, Mundis G, Kebaish K, Hart R, Lafage V, Shaffrey C. How the Assessment of Pelvic Tilt, Pelvic Incidence/Lumbar Lordosis Mismatch and Sagittal Vertical Axis

- Predicts Disability in Adult Spinal Deformity: A Prospective Analysis. AANS/CNS Section. (#222). Orlando, FL. 2012.
27. Smith J, Ames C, Lafage V, Klineberg E, Schwab F, Mundis G, Hart R, Bess S, Hostin R, Burton D, Gupta M, Devire V, Shaffrey C. Correction of Sagittal Malalignment Following Pedicle Subtraction Osteotomy Improves Cervical Lordosis. AANS/CNS Section. (#223). Orlando, FL. 2012.
 28. Smith J, Ames C, Gupta M, Klineberg e, Lafage V, Bess S, Schwab F, Boachie-Adjei O, Kebaish K, Wood K, Akbarnia B, Mundis G, O'Brien M, Hostin R, Shaffrey C. Pedicle Subtraction Osteotomy with Extension of Fusion to the Pelvis: Does Anterior Interbody Support at L5-S1 Improve Sagittal and Pelvic Parameters? AANS/CNS Section. (#224). Orlando, FL. 2012.
 29. Tang JA, Scheer J, Smith J, Deviren V, Bess S, Hart RA, Lafage V, Shaffrey C, Schwab F, Ames C, ISSG. The Impact of Positive Regional Sagittal Alignment on Outcomes in Posterior Cervical Fusion Surgery. AANS/CNS Section. Orlando, FL 2012.
 30. Tang JA, Scheer J, Smith J, Deviren V, Bess S, Hart RA, Lafage V, Shaffrey C, Schwab F, Ames C, ISSG. The Impact of Positive Regional Sagittal Alignment on Outcomes in Posterior Cervical Fusion Surgery. AANS. Miami, FL 2012.
 31. Smith J, Shaffrey C, Schwab F, Bess S, Blondel B, Hostin R, Boachie-Adjei O, Burton D, Akbarnia B, Mundis G, Ames C, Kebaish K, Hart R, ISSG, Lafage V. How the Assessment of Pelvic Tilt, Pelvic Incidence/Lumbar Lordosis Mismatch and Sagittal Vertical Axis Predicts Disability in Adult Spinal Deformity: A Prospective Analysis. AANS. Miami, FL 2012.
 32. Lafage V, Smith J, Schwab F, Shaffrey C, Klineberg E, Ames C, Hostin R, Fu KM, Mummaneni P, Kebaish K, Deviren V, Boachie-Adjei O, Hart R, Bess S, ISSG. Likelihood of Reaching Minimal Clinically Important Difference (MCID) in Health Related Quality of Life (HRQOL) Measures: Prospective Analysis of Operative and Non-operative Treatment of Adult Spinal Deformity (ASD). LSRS. Chicago, IL. 2012.
 33. Schwab F, Lafage V, Shaffrey C, Smith J, Blondel B, Ames C, Fu KM, Mummaneni P, Burton D, Gupta M, Deviren V, Mundis G, Hart R, Bess S, ISSG. The Schwab-SRS Adult Spinal Deformity Classification: Assessment and Clinical Correlations Based On A Prospective Operative and Non-Operative Cohort. LSRS. Chicago, IL 2012.
 34. Schwab F, Lafage V, Shaffrey C, Smith J, Moal B, Ames C, Fu KM, Mummaneni P, Burton D, Gupta M, Deviren V, Mundis G, Hart R, Bess S, ISSG. The Schwab-SRS Adult Spinal Deformity Classification: Assessment and Clinical Correlations Based On A Prospective Operative and Non-Operative Cohort. SRS. Chicago, IL. 2012.
 35. Lafage V, Smith J, Schwab F, Shaffrey C, Klineberg E, Ames C, Hostin R, Fu KM, Kebaish K, Mummaneni P, Deviren V, Boachie-Adjei O, Hart R, Bess S, ISSG. Likelihood of Reaching Minimal Clinically Important Difference (MCID) in Health Related Quality of Life (HRQOL) Measures: Prospective Analysis of Operative and Non-operative Treatment of Adult Spinal Deformity (ASD). SRS. Chicago, IL. 2012.

36. Moal B, Lafage V, Smith J, Ames C, Mummaneni P, Mundis G, Terran J, Klineberg E, Hart R, Boachie-Adjei O, Shaffrey C, Schwab F, ISSG. Clinical Improvement Through Surgery for Adult Spinal Deformity (ASD): What can be Expected and Who is Likely to Benefit Most? SRS. Chicago, IL. 2012.
37. Smith J, Klineberg E, Schwab F, Shaffrey C, Moal B, Ames C, Hostin R, Fu KM, Burton D, Akbarnia B, Gupta M, Hart R, Bess S, Lafage V, ISSG. Change in Classification Grade by the Schwab-SRS Adult Spinal Deformity (ASD) Classification Predicts Impact on Health Related Quality of Life (HRQOL) Measures: Prospective Analysis of Operative and Nonoperative Treatment. SRS. Chicago, IL. 2012.
38. Bess S, Line B, Boachie-Adjei O, Hart R, Ames C, Lafage V, Schwab F, Akbarnia B, Burton D, Hostin R, Klineberg E, Mundis G, Smith J, Shaffrey C, ISSG. Operative Time and Patient Age, Rather Than Recombinant Human Bone Morphogenetic Protein-2 (BMP) Use, Increase Major Complications in Adult Spinal Deformity (ASD) Surgery. SRS. Chicago, IL. 2012.
39. Fu KM, Bess S, Shaffrey C, Smith J, Lafage V, Schwab F, Burton D, Akbarnia B, Ames C, Boachie-Adjei O, Hart R, Klineberg E, Gupta M, Mummaneni P, ISSG. Operatively (OP) Treated Adult Spinal Deformity (ASD) Patients Report Worse Health Related Quality of Life (HRQOL) than Nonoperative (NON), Regardless of Age, However Radiographic Deformity Differs Between Age Groups. SRS. Chicago, IL. 2012.
40. Fu KM, Bess S, Shaffrey C, Smith J, Lafage V, Schwab F, Burton D, Akbarnia B, Ames C, Boachie-Adjei O, Hart R, Klineberg E, Gupta M, Mummaneni P, ISSG. Operatively Treated Young Adult Spinal Deformity (ASD) Patients (≤ 50 Years of Age) Have Larger Scoliosis and Worse Quality of Life than Nonoperative Patients Despite Normal Sagittal Alignment. SRS. Chicago, IL. 2012.
41. Fu KM, Bess S, Schwab F, Shaffrey C, Lafage V, Smith J, Ames C, Boachie-Adjei O, Burton D, Hart R, Klineberg E, Hostin R, Mundis G, Mummaneni P, ISSG. Health Impact Comparison of Different Disease States and Population Norms to Adult Spinal Deformity (ASD): A Call for Medical Attention. SRS. Chicago, IL. 2012.
42. Ames C, Scheer J, Smith J, Gupta M, Klineberg E, Hart R, Burton D, Hostin R, O'Brien M, Shaffrey C, Bess S, Schwab F, Deviren V, Kebaish K, ISSG. Outcomes Following 3 Column Spinal Osteotomies: Impact of HRQOL and Age on Two Year Followup. SRS. Chicago, IL. 2012.
43. Hostin R, O'Brien M, McCarthy I, Fleming N, Ogola G, Kudyakov R, Richter K, Saigal R, Berven S, Deviren V, Ames C, ISSG. Analysis of the Cost-Effectiveness of Surgical Treatment for Adult Spinal Deformity. SRS. Chicago, IL. 2012.
44. Kebaish K, Klineberg E, El Dafrawy M, Ames C, Bess S, Deviren V, Smith J, Hart R, Gupta M, ISSG. Primary Versus Revision Surgery: Multi-Center Analysis of Clinical and Functional Outcomes Following Surgery for Adult Spinal Deformity. SRS. Chicago, IL. 2012.
45. Moal B, Lafage V, Smith J, Ames C, Mummaneni P, Mundis G, Terran J, Klineberg E, Hart R, Boachie-Adjei O, Shaffrey C, Schwab F, ISSG. Clinical Improvement Through

- Surgery for Adult Spinal Deformity (ASD): What can be Expected and Who is Likely to Benefit Most?. SRS. Chicago, IL. 2012.
46. Hart R, Bess S, Burton D, Shaffrey C, Protosaltis T, Boachie-Adjei O, Ames C, Deviren V, Hostin R, Klineberg E, Mummaneni P, Mundis G, Smith J, Schwab F, ISSG. Proximal Junctional Failure (PJF) Classification and Severity Scale: Development and Validation of a Standardized System.
 47. Smith, Klineberg, Schwab, Shaffrey, Moal, Ames, Hostin, Fu, Kebaish, Burton, Akbarnia, Gupta, Deviren, Mundis, Boachie, Hart, Bess, Lafage, ISSG. Change in Classification Grade by the Schwab-SRS Adult Spinal Deformity Classification and Impact on Health Related Quality of Life Measures: Prospective Analysis of Operative and Nonoperative Treatment. NASS. Dallas, TX. 2012.
 48. Lafage, Smith, Schwab, Moal, Klineberg, Ames, Hostin, Fu, Kebaish, Burton, Akbarnia, Gupta, Deviren, Mundis, Boachie, Hart, Bess, ISSG. Likelihood of Reaching Minimal Clinically Important Difference in Health Related Quality of Life Measures: Prospective Analysis of Operative and Non-operative Treatment of Adult Spinal Deformity. NASS. Dallas, TX. 2012.
 49. Schwab, Lafage, Shaffrey, Smith, Moal, Klineberg, Ames, Hostin, Fu, Kebaish, Burton, Akbarnia, Gupta, Deviren, Mundis, Boachie, Hart, Bess, ISSG. The Schwab-SRS Adult Spinal Deformity Classification: Assessment and Clinical Correlations Based On A Prospective Operative and Non-Operative Cohort. NASS. Dallas, TX. 2012.
 50. Fu, Bess, Schwab, Shaffrey, Lafage, Smith, Akbarnia, Ames, Boachie, Burton, Hostin, Hart, Kebaish, Klineberg, Gupta, Deviren, Wood, ISSG. Health Impact Comparison of Different Disease States and Population Norms to Adult Spinal Deformity (ASD): A Call for Medical Attention. NASS. Dallas, TX. 2012.
 51. Bess, Line, Boachie, Hart, Lafage, Schwab, Akbarnia, Ames, Burton, Hostin, Kebaish, Klineberg, Gupta, Mundis, Deviren, O'Brien, Wood, Shaffrey, Smith, ISSG. Does Recombinant Human Bone Morphogenetic Protein-2 (BMP) Use in Adult Spinal Deformity (ASD) Increase Complications and Are Complications Dose Related? A Prospective, Multicenter Study of 257 Consecutive Patients. NASS. Dallas, TX. 2012.
 52. Fu, Bess, Shaffrey, Smith, Lafage, Schwab, Burton, Boachie, Hart, Akbarnia, Ames, Hostin, Kebaish, Klineberg, Gupta, Mundis, Deviren, O'Brien, Wood, ISSG. Operatively (OP) Treated Adult Spinal Deformity (ASD) Patients Report Worse Health Related Quality of Life (HRQOL) than Nonoperative (NON), Regardless of Age, However Radiographic Deformity Differs Between Age Groups. NASS. Dallas, TX. 2012.
 53. Ames, Scheer, Smith, Gupta, Klineberg, Hart, Burton, Hostin, O'Brien, Shaffrey, Bess, Schwab, Deviren, Kebaish, ISSG. The Relationship Between HRQOL and Age in Recovery From 3 Column Osteotomy in Adult Spinal Deformity Surgery Over the First 2 Years. NASS. Dallas, TX. 2012.

54. Hart, Hostin, Protopsaltis, Damakakos, Bess, Schwab, Lafage, Deviren, Ames, Shaffrey, Smith, Boachie, Klineberg, Burton, Gupta, ISSG. Age, Sagittal Deformity and Operative Correction are Risk Factors for Proximal Junctional Failure (PJF) Following Adult Spinal Deformity (ASD) Surgery. NASS. Dallas, TX. 2012.
55. Hostin, O'Brien, McCarthy, Ames, Kebaish, Burton, Lafage, Schwab, Shaffrey, Smith, Wood, Hart, Line, Deviren, ISSG. Identification of Decision Criteria for Revision Surgery among Patients with Acute Proximal Junctional Failure following Surgical Treatment for Spinal Deformity. NASS. Dallas, TX. 2012.
56. Hostin, O'Brien, McCarthy, Fleming, Ogola, Kudyakov, Richter, Saigal, Bergen, Deviren, Ames, ISSG. Analysis of the Cost-Effectiveness of Surgical Treatment for Adult Spinal Deformity. NASS. Dallas, TX. 2012.
57. O'Brien, Hostin, McCarthy, Fleming, Ogola, Kudyakov, Richter, Saigal, Berven, Deviren, Ames, ISSG. Analysis of Health Related Quality of Life Improvements among Patients with Adult Spinal Deformity. NASS. Dallas, TX. 2012.
58. Kebaish, Klineberg, El Dafrawy, Ames, Bess, Deviren, Smith, Hart, Hostin, O'Brien, Boachie, Gupta, ISSG. Primary Versus Revision Surgery: Multi-Center Analysis of Clinical and Functional Outcomes Following Surgery for Adult Spinal Deformity. NASS. Dallas, TX. 2012.
59. Ames, Scheer, Deviren, Smith, Bess, Hostin, Klineberg, Hart, Mundis, O'Brien, Shaffrey, Lafage, Kebaish, Schwab, ISSG. Effect of Upper Fusion Level on Correction, Maintenance of Correction, and HRQOL in the Setting of Sagittal Plane Deformity Treated by Lumbar Three Column Osteotomies and Fusion to the Pelvis. NASS. Dallas, TX. 2012.
60. Moal, Lafage, Smith, Ames, Mundis, Terran, Klineberg, Hart, Boachie, Shaffrey, Schwab, ISSG. Clinical Improvement Through Surgery for Adult Spinal Deformity (ASD): What can be Expected and Who is Likely to Benefit Most?. NASS. Dallas, TX. 2012.
61. El Dafrawy, Lafage, Hostin, Ames, Smith, Terran, Deviren, O'Brien, Schwab, Kebaish, ISSG. Longitudinal Radiographic Assessment of Maintenance of Sagittal Plane Deformity Correction Following Three-Column Spinal Osteotomy. NASS. Dallas, TX. 2012.
62. Lafage, Schwab, Ames, Moal, Hostin, Kebaish, Smith, Deviren, Shaffrey, Klineberg, Bess, ISSG. Prevalence and Risk Factors for Proximal Junctional Kyphosis Following Realignment Surgery by Pedicle Subtraction Osteotomy: A Multicenter Review. NASS. Dallas, TX. 2012.
63. Tang J, Scheer J, Smith J, Deviren V, Bess S, Hart R, Lafage V, Shaffrey C, Schwab F, Ames C. The Impact of Standing Regional Cervical Sagittal Alignment on Outcomes in Posterior Cervical Fusion Surgery. NASS. Dallas, TX. 2012.
64. Smith, Klineberg, Schwab, Shaffrey, Moal, Ames, Hostin, Fu, Kebaish, Burton, Akbarnia, Gupta, Deviren, Mundis, Boachie, Hart, Bess, Lafage, ISSG. Change in Classification Grade by the Schwab-SRS Adult Spinal Deformity Classification and

- Impact on Health Related Quality of Life Measures: Prospective Analysis of Operative and Nonoperative Treatment. CNS. Chicago, IL. 2012.
65. Lafage, Smith, Schwab, Moal, Klineberg, Ames, Hostin, Fu, Kebaish, Burton, Akbarnia, Gupta, Deviren, Mundis, Boachie, Hart, Bess, ISSG. Likelihood of Reaching Minimal Clinically Important Difference in Health Related Quality of Life Measures: Prospective Analysis of Operative and Non-operative Treatment of Adult Spinal Deformity. CNS. Chiczgo, IL. 2012.
 66. Schwab, Lafage, Shaffrey, Smith, Moal, Klineberg, Ames, Hostin, Fu, Kebaish, Burton, Akbarnia, Gupta, Deviren, Mundis, Boachie, Hart, Bess, ISSG. The Schwab-SRS Adult Spinal Deformity Classification: Assessment and Clinical Correlations Based On A Prospective Operative and Non-Operative Cohort. CNS. Chicago, IL. 2012.
 67. Blondel, Schwab, Ames, Le Huec, Smith, Bess, Demakakos, Moal, Tropiano, Farcy, ISSG, Lafage. The Crucial Role of Cervical Alignment in Regulating Sagittal Spino-Pelvic Alignment in Human Standing Posture. CNS. Chicago, IL. 2012.
 68. Fu, Bess, Schwab, Shaffrey, Lafage, Smith, Akbarnia, Ames, Boachie, Burton, Hostin, Hart, Kebaish, Klineberg, Gupta, Deviren, Wood, ISSG. Health Impact Comparison of Different Disease States and Population Norms to Adult Spinal Deformity (ASD): A Call for Medical Attention. CNS. Chicago, IL. 2012.
 69. Bess, Line, Boachie, Hart, Lafage, Schwab, Akbarnia, Ames, Burton, Hostin, Kebaish, Klineberg, Gupta, Mundis, Deviren, O'Brien, Wood, Shaffrey, Smith, ISSG. Does Recombinant Human Bone Morphogenetic Protein-2 (BMP) Use in Adult Spinal Deformity (ASD) Increase Complications and Are Complications Dose Related? A Prospective, Multicenter Study of 257 Consecutive Patients. Cns. Chicago, IL. 2012.
 70. Fu, Bess, Shaffrey, Smith, Lafage, Schwab, Burton, Boachie, Hart, Akbarnia, Ames, Hostin, Kebaish, Klineberg, Gupta, Mundis, Deviren, O'Brien, Wood, ISSG. Operatively Treated Young Adult Spinal Deformity (ASD) Patients (≤ 50 Years of Age) Have Larger Scoliosis and Worse Quality of Life than Nonoperative Patients Despite Normal Sagittal Alignment. Cns. Chicago, IL. 2012.
 71. Ames, Scheer, Smith, Gupta, Klineberg, Hart, Mundis, Akbarnia, Burton, Hostin, O'Brien, Shaffrey, Bess, Schwab, Kebaish, Deviren, ISSG. Reoperation Rates and Impact on Outcome in a Large Prospective Multicenter Adult Spinal Deformity Database. CNS. Chicago, IL. 2012.
 72. Hostin, O'Brien, McCarthy, Fleming, Ogola, Kydyakov, Richter, Saigal, Bergen, Deviren, Ames, ISSG. Analysis of the Cost-Effectiveness of Surgical Treatment for Adult Spinal Deformity. CNS. Chicago, IL. 2012
 73. O'Brien, Hostin, McCarthy, Fleming, Ogola, Kudyakov, Richter, Saigal, Berven, Deviren, Ames, ISSG. Analysis of Health Related Quality of Life Improvements among Patients with Adult Spinal Deformity. CNS. Dallas, TX. 2012.
 74. Moal, Schwab, Ames, Smith, Mundis, Terran, Klineberg, Hart, Boachie, Shaffrey, Lafage, ISSG. Radiographic Outcomes of Spinal Deformity Correction in Adult Patients:

- A Critical Analysis of Variability and Failures Across Deformity Patterns. CNS. Dallas, TX. 2012.
75. Hart, Bess, Burton, Shaffrey, Protopsaltis, Boachie, Line, Ames, Deviren, Fu, Gupta, Hostin, Kebaish, Klineberg, Mundis, Schwab, Smith, Akbarnia, ISSG. Proximal Junctional Failure (PJF) Classification and Severity Scale: Development and Validation of a Standardized System. CNS. Dallas, TX. 2012.
 76. Ames, Scheer, Deviren, Smith, Bess, Hostin, Klineberg, Hart, Mundis, O'Brien, Shaffrey, Lafage, Kebaish, Schwab, ISSG. Effect of Upper Instrumented Vertebra (UIV) On Adult Spinal Deformity (ASD) Correction, Maintenance of Correction, and Health Related Quality of Life (HRQOL) Following Lumbar Pedicle Subtraction Osteotomy (PSO). CNS. Dallas, TX. 2012.
 77. Moal, Lafage, Smith, Ames, Mundis, Terran, Klineberg, Hart, Boachie, Shaffrey, Schwab, ISSG. Clinical Improvement Through Surgery for Adult Spinal Deformity (ASD): What can be Expected and Who is Likely to Benefit Most?. CNS. Dallas, TX. 2012.
 78. Lafage, Schwab, Ames, Moal, Hostin, Kebaish, Smith, Deviren, Shaffrey, Klineberg, Bess, ISSG. Prevalence and Risk Factors for Proximal Junctional Kyphosis Following Realignment Surgery by Pedicle Subtraction Osteotomy: A Multicenter Review . CNS> Dallas, TX. 2012.
 79. Ames C, Scheer J, Smith J, Gupta M, Klineberg E, Hart R, Burton D, Hostin R, O'Brien M, Shaffrey C, Bess S, Schwab F, Deviren V, Kebaish K, ISSG. Outcomes Following 3 Column Spinal Osteotomies: Impact of HRQOL and Age on Two Year Followup. CNS. Dallas, TX. 2012.
 80. Smith J, Scheer J, Shaffrey C, Lafage V, Moal B, Schwab F, Protopsaltis T, Blondel B, Mummaneni P, Mundis G, Hostin R, Klineberg E, Bess S, Ames C, ISSG. Cervical Spinal Osteotomy Classification. CNS. Dallas, TX. 2012.
 81. Smith, Justin S.1; Lafage, Virginia2; scheer, Justin K.3; Shaffrey, Christopher I.1; Lafage, Renaud2; Klineberg, Eric4; Gupta, Munish C.4; Hostin, Richard5; Kebaish, Khaled6; Bess, Shay 7; Schwab, Frank J.2; Ames, Christopher P.; Study Group, International Spine. *Spinal Pelvic Radiographic Thresholds for Regional Lumbar Disability are Age Dependent: Analysis of Multicenter Database of 833 patients*. SRS. Anchorage, Alaska 2014
 82. Ames, Christopher P.; Lafage, Virginia2; scheer, Justin K.3; Kelly, Michael P.4; Hostin, Richard5; Hart, Robert A.6; Klineberg, Eric7; Protopsaltis, Themistocles S.2; Deviren, Vedat8; Sciubba, Daniel M.9; Bess, Shay 10; Shaffrey, Christopher I.11; Schwab, Frank J.2; Smith, Justin S.11; Study Group, International Spine. *Magnitude, Location and Factors Related to Regional and Global Correction Loss in Long Adult Deformity Constructs: Report of 183 Patients with 2 Year Follow up*. SRS. Anchorage, Alaska 2014

83. Sciubba, Daniel M.; scheer, Justin K.; Smith, Justin S.; Klineberg, Eric; Gupta, Munish C.; Mundis, Gregory M.; Protopsaltis, Themistocles S.; Lafage, Virginie; Kim, Han Jo; Koski, Tyler; Kebaish, Khaled; Shaffrey, Christopher I.; Bess, Shay; Hart, Robert A.; Schwab, Frank J.; Ames, Christopher P.; Study Group, International Spine. *Elderly Patients over 75 years Undergoing Reconstructive Spinal Deformity Surgery Have Significantly Improved Health-Related Quality of Life Measures Versus Those Managed Non-operatively Despite High Surgical Complication Rate*. SRS. Anchorage, Alaska 2014
84. Smith, Justin S., Shaffrey, Christopher I., Lafage, Virginie, Schwab, Frank J., Protopsaltis, Themistocles S., Klineberg, Eric, scheer, Justin K., Deviren, Vedat, Hart, Robert A., Bess, Shay, Arnold, Paul, Chapman, Jens, Fehlings, Michael G., Ames, Christopher P. *Assessment of Impact of Long-Cassette Standing X-rays on Surgical Planning for Lumbar Pathology: An International Survey of Spine Surgeons*. NASS 2014 Annual Meeting. San Francisco, California
85. Clark, Aaron J.; Oh, Taemin; Saigal, Devon J.; Klineberg, Eric; Hart, Robert A.; Kim, Han Jo; Schwab, Frank J.; Smith, Justin S.; Protopsaltis, Themistocles S.; Lafage, Virginie; Ames, Christopher P.; Study Group, International Spine. *Assessing the Impact of Thoracolumbar Deformity on Cervical Disability and Pain: How the Back Affects the Neck*. NASS 2014 Annual Meeting. San Francisco, California
86. McCarthy, Ian; Robinson, Chessie; O'Brien, Michael F.; Gupta, Munish C.; Ames, Christopher P.; Lafage, Virginie; Hart, Robert A.; Bess, Shay; Shaffrey, Christopher I.; Mundis, Gregory M.; Schwab, Frank J.; Kebaish, Khaled; Smith, Justin S.; Hostin, Richard; Study Group, International Spine. *Long Term Cost-Effectiveness of Adult Spinal Deformity Surgery*. NASS 2014 Annual Meeting. San Francisco, California
87. Robinson, Chessie; McCarthy, Ian; O'Brien, Michael F.; Gupta, Munish C.; Ames, Christopher P.; Lafage, Virginie; Hart, Robert A.; Burton, Douglas C.; Bess, Shay; Shaffrey, Christopher I.; Schwab, Frank J.; Kebaish, Khaled; Smith, Justin S.; Hostin, Richard; Study Group, International Spine. *Role of Implant Costs in the Long Term Cost-Effectiveness of Surgical Treatment of Adult Spinal Deformity (ASD)*. NASS 2014 Annual Meeting. San Francisco, California
88. Klineberg, Eric; Gupta, Munish C.; Nguyen, Stacie; Ames, Christopher P.; Burton, Douglas C.; Hart, Robert A.; Protopsaltis, Themistocles S.; Akbarnia, Behrooz A.; Shaffrey, Christopher I.; Smith, Justin S.; Schwab, Frank J.; Deviren, Vedat; Kim, Han Jo; Bess, Shay; Study Group, International Spine. *Posterior Surgical Correction With or Without Interbody in Matched Curves: No Difference in Correction or Fusion Rates*. NASS 2014 Annual Meeting. San Francisco, California
89. Passias, Peter G.; Yang, Sun; Soroceanu, Alex; scheer, Justin K.; Schwab, Frank J.; Shaffrey, Christopher I.; Kim, Han Jo; Protopsaltis, Themistocles S.; Mundis, Gregory M.; Gupta, Munish C.; Klineberg, Eric; Lafage, Virginie; Smith, Justin S.; Ames, Christopher P.; Study Group, International Spine. *Preoperative Cervical Hyperlordosis and C2-T3 Angle Correlated to Increased Risk of Post-op Sagittal Spinal Pelvic Malalignment in Adult Spinal Deformity Patients at 2 years Follow-up*. NASS 2014 Annual Meeting. San Francisco, California

90. Soroceanu, Alex; Passias, Peter G.; Boniello, Anthony J.; scheer, Justin K.; Schwab, Frank J.; Shaffrey, Christopher I.; Kim, Han Jo; Protopsaltis, Themistocles S.; Mundis, Gregory M.; Gupta, Munish C.; Klineberg, Eric; Lafage, Virginie; Smith, Justin S.; **Ames, Christopher P.**; Study Group, International Spine. *Risk of Development of New Onset Post Operative Cervical Deformity (CD) in Thoracolumbar Adult Spinal Deformity (ASD) and Effect on Clinical Outcomes at 2 year follow up.* NASS 2014 Annual Meeting. San Francisco, California
91. Liu, Shian; Lafage, Renaud; Smith, Justin S.; Protopsaltis, Themistocles S.; Lafage, Virginie; Challier, Vincent; Shaffrey, Christopher I.; Kim, Han Jo; Arnold, Paul; Chapman, Jens; Schwab, Frank J.; Massicotte, Eric; Yoon, S. Tim; Fehlings, Michael G.; **Ames, Christopher P.** *The Impact of Dynamic Alignment, Motion and Center of Rotation on Myelopathy Grade and Regional Disability in Cervical Spondylotic Myelopathy.* NASS 2014 Annual Meeting. San Francisco, California
92. Fehlings, Michael G.; Smith, Justin S.; Challier, Vincent; Shaffrey, Christopher I.; Kim, Han Jo; Arnold, Paul; Chapman, Jens; Protopsaltis, Themistocles S.; Lafage, Virginie; Liu, Shian; Lafage, Renaud; Schwab, Frank J.; Massicotte, Eric; Yoon, S. Tim; **Ames, Christopher P.** *Cervical Spondylotic Myelopathy: Does Surgical Approach Influence Post-operative Sagittal Alignment and Outcomes?.* NASS 2014 Annual Meeting. San Francisco, California
93. **Ames, Christopher P.**; scheer, Justin K.; Mundis, Gregory M.; Klineberg, Eric; Hart, Robert A.; Kelly, Michael P.; Deviren, Vedat; Burton, Douglas C.; McCarthy, Ian; Bess, Shay; Schwab, Frank J.; Shaffrey, Christopher I.; Lafage, Virginie; Smith, Justin S.; Study Group, International Spine. *The Effect of Complications and Reoperation on Recovery Kinetics in 149 Adult Spinal Deformity Pts with 2-year Follow-Up: An Area Under the Curve Analysis.* NASS 2014 Annual Meeting. San Francisco, California
94. Soroceanu, Alex; Burton, Douglas C.; Smith, Justin S.; Deviren, Vedat; Shaffrey, Christopher I.; Boachie-Adjei, Oheneba; Akbarnia, Behrooz A.; **Ames, Christopher P.**; Errico, Thomas J.; Bess, Shay; Hostin, Richard; Hart, Robert A.; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *Incidence Of Radiographic And Implant-Related Complications In Adult Spinal Deformity Surgery, Patient Risk Factors And Impact On Hrql.* NASS 2014 Annual Meeting. San Francisco, California
95. Protopsaltis, Themistocles S.; Maier, Stephen P.; Smith, Justin S.; Hostin, Richard; Shaffrey, Christopher I.; Boachie-Adjei, Oheneba; Mundis, Gregory M.; **Ames, Christopher P.**; Errico, Thomas J.; Bess, Shay; Klineberg, Eric; Hart, Robert A.; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *Should our elderly spinal deformity patients have the same targets for correction and is there an optimal alignment target that results in less PJK?* NASS 2014 Annual Meeting. San Francisco, California
96. Liabaud, Barthelemy; Ferrero, Emmanuelle; **Ames, Christopher P.**; Kebaish, Khaled; Mundis, Gregory M.; Hostin, Richard; Gupta, Munish C.; Boachie-Adjei, Oheneba; Smith, Justin S.; Hart, Robert A.; Diebo, Bassel G.; Protopsaltis, Themistocles S.; Schwab, Frank J.; Lafage, Virginie; Study Group, International Spine. *Sagittal Alignment following Lumbar 3-Column Osteotomy: Does the Level of Resection Matter?* NASS 2014 Annual Meeting. San Francisco, California

97. Liu, Shian; Ferrero, Emmanuelle; Ames, Christopher P.; Kebaish, Khaled; Obeid, Ibrahim; Hostin, Richard; Klineberg, Eric; Boachie-Adjei, Oheneba; Smith, Justin S.; Mundis, Gregory M.; Maier, Stephen P.; Protopsaltis, Themistocles S.; Schwab, Frank J.; Lafage, Virginia; Study Group, International Spine. *Revisions and Junctional Failures of Short versus Long Fusions for Adult Spinal Deformity treated by Three Column Osteotomy*. NASS 2014 Annual Meeting. San Francisco, California
98. Challier, Vincent; Liu, Shian; Ames, Christopher P.; Kebaish, Khaled; Obeid, Ibrahim; Hostin, Richard; Klineberg, Eric; Boachie-Adjei, Oheneba; Smith, Justin S.; Akbarnia, Behrooz A.; Bianco, Kristina; Protopsaltis, Themistocles S.; Schwab, Frank J.; Lafage, Virginia; Study Group, International Spine. *Three-Column Osteotomies in Elderly Patients: Is It Worth it?* NASS 2014 Annual Meeting. San Francisco, California
99. Schwab, Renaud; Liabaud, Diebo; Smith, Hostin; Shaffrey, Boachie; Ames, Christopher P.; Justin Jr, Burton, Bess, Gupta, Protopsaltis, Lafage, ISSG. *Does One Size Fit All? Defining spino-pelvic alignment thresholds based on age*. NASS 2014 Annual Meeting. San Francisco, California
100. Challier V, Smith JS, Shaffrey CI, Kim HJ, Arnold P, Lu S, Scheer JK, Chapman J, Protopsaltis TS, Lafage V, Schwab FJ, Massicotte E, Yoon ST, Ames CP, Fehlings MG. *Area under the curve: analysis of approach related recovery time in 165 operative cervical spondylotic myelopathy patients with two-year follow up*. 42nd Annual Cervical Spine Research Society (American Section). Orlando, FL. December 3-6, 2014
101. Liu S, Challier V, Lafage VC, Fehlings MJ, Smith JS, Ames CP. *The impact of dynamic alignment, motion and center of rotation on myelopathy grade and regional disability in cervical spondylotic myelopathy*. Society of Military Orthopaedic Surgeons 56th Annual Meeting. Scottsdale, AZ. December 15-19, 2014.
102. Liu S, Challier V, Lafage VC, Fehlings MJ, Smith JS, Ames CP. *The impact of dynamic alignment, motion and center of rotation on myelopathy grade and regional disability in cervical spondylotic myelopathy*. American Academy of Orthopaedic Surgeons Annual Meeting. Las Vegas, Nevada. March 24-28, 2015.
103. Fehlings MF, Smith JS, Challier V, Shaffrey CI, Kim HJ, Arnold P, Chapman J, Protopsaltis TS, Lafage V, Liu S, Lafage R, Schwab FJ, Massicotte E, Yoon ST, Ames CP. *Cervical spondylotic myelopathy: does surgical approach influence post-operative sagittal alignment and outcomes?* American Academy of Orthopaedic Surgeons Annual Meeting. Las Vegas, Nevada. March 24-28, 2015.
104. Ames C, Smith JS, Liu S, Arnold P, Challier V, Chapman J, Massicotte E, Yoon S, Fehlings MJ. *Correlation of myelopathy to regional neck disability: a surgical approach-specific analysis in 217 patients*. American Academy of Orthopaedic Surgeons Annual Meeting. Las Vegas, Nevada. March 24-28, 2015.
105. Lafage V, Lafage R, Liu S, Smith JS, Protopsaltis TS, Challier V, Shaffrey C, Kim HJ, Arnold P, Chapman J, Schwab FJ, Massicotte E, Yoon S, Fehlings MJ, Ames CP. *Impact of Cervical Spondylotic Myelopathy on General Health Compared to Different Diseases and United States Norms*. International Society for the Advancement of Spine Surgery 15th Annual Meeting. San Diego, CA. April 15-17, 2015.

106. Lafage R, Liu S, Smith JS, Shaffrey C, Challier V, Kim HJ, Arnold P, Chapman J, Protopsaltis TS, Lafage V, Schwab F, Massicotte E, Yoon S, Fehlings MJ, Ames CP. *The impact of dynamic alignment, motion and center of rotation on myelopathy grade and regional disability in cervical spondylotic myelopathy*. International Society for the Advancement of Spine Surgery 15th Annual Meeting. San Diego, CA. April 15-17, 2015.