

**Academic Information:**

Address: Vanderbilt University School of Medicine  
 Department of Orthopaedic Surgery  
 Medical Center East, South Tower, Suite 4200  
 Nashville, TN 37232

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**Education and Training:**

1989-1993 Colby College, Waterville, Maine (**BA**, Health Policy)

1998-2000 University of Colorado Health Sciences Center, Denver, CO (**MS**, Physical Therapy)

2002-2004 University of Colorado Health Sciences Center, Denver, CO (**DPT**, Physical Therapy)

2004-2007 Johns Hopkins Bloomberg School of Public Health, Department of Health Policy and Management, Baltimore, MD (**PhD**)

2013 OBSSR/NHLBI Institute on the Design and Conduct of Randomized Clinical Trials Involving Behavioral Interventions, Warrenton, Virginia (**Fellowship**)

**Academic Appointments:**

2002-2003 Clinical Instructor, Physical Therapy Program, University of Colorado Health Sciences Center, Denver, CO

2003-2004 Assistant Clinical Professor, Physical Therapy Program, University of Colorado Health Sciences Center, Denver, CO

2007-2008 Assistant Professor, Department of Orthopaedic Surgery, Johns Hopkins University, School of Medicine, Baltimore, MD

2007-2008 Adjunct Faculty, NIOSH Education and Research Center for Occupational Safety and Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

2007-2008 Adjunct Faculty, Center for Injury Research & Policy, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

2008-Present Adjunct Assistant Professor, Department of Orthopaedic Surgery, Johns Hopkins University, School of Medicine, Baltimore, MD

2008-2015 Assistant Professor, Department of Orthopaedic Surgery, Vanderbilt University, School of Medicine, Nashville, TN

2009-2010 Co-Director, Research Division, Department of Orthopaedic Surgery, Vanderbilt University, School of Medicine, Nashville, TN

2011-Present Adjunct Faculty, Vanderbilt Center for Bone Biology, Department of Medicine, Vanderbilt University, School of Medicine, Nashville, TN

2011-2015 Teaching Faculty, Doctoral Program in Epidemiology, Institute for Medicine and Public Health, Vanderbilt University, School of Medicine, Nashville, TN

2011-Present Director, Research Division, Department of Orthopaedic Surgery, Vanderbilt University, School of Medicine, Nashville, TN

2012-2015 Assistant Professor, Department of Physical Medicine & Rehabilitation, Vanderbilt University, School of Medicine, Nashville, TN

2015-Present Associate Professor with Tenure, Department of Orthopaedic Surgery, Vanderbilt University, School of Medicine, Nashville, TN

2015-Present Associate Professor with Tenure, Department of Physical Medicine & Rehabilitation, Vanderbilt University, School of Medicine, Nashville, TN

2015-Present Vice Chair of Research, Department of Orthopaedic Surgery, Vanderbilt University,

	School of Medicine, Nashville, TN
2015-2016	Visiting Scientist, Center of Excellence in Physical Therapy Health Services/ Health Policy Research and Training, University of Pittsburgh, Pittsburgh, PA
2019-Present	Director, Vanderbilt Center for Musculoskeletal Research, Vanderbilt University, School of Medicine, Nashville, TN
2019-Present	Director of Research, Osher Center for Integrative Medicine, Vanderbilt University, School of Medicine, Nashville, TN

**Clinical Employment:**

2000-2004	Physical Therapist and Clinic Manager, HealthSouth, Denver, CO
2004-2005	Physical Therapist, Department of Physical Medicine and Rehabilitation, Johns Hopkins Hospital, Baltimore, MD

**Professional Organizations:**

2002-Present	Member, American Physical Therapy Association
2005-2015	Member, Academy Health
2007-2016	Member, American Congress of Rehabilitation Medicine
2009-2018	Member, American Pain Society
2013-Present	Invited Member, Orthopaedic Trauma Association
2014-Present	Invited Member, North American Spine Society
2018-Present	Invited Member, International Society for the Study of the Lumbar Spine

**Professional Activities:**

**A. Intramural Activities** (Vanderbilt University School of Medicine)

2008-2014	Member, Institutional Review Board
2009-2011	Member, Resident Research Committee, Department of Orthopaedic Surgery
2010-2013	Member, Research Advisory Council, Osher Center for Integrative Health
2011-2019	Member, Executive Committee, Department of Orthopaedic Surgery
2013-2016	Member, Promotions Committee, Department of Orthopaedic Surgery
2016	Member, Advancement Review Board, Career Advancement Program
2020	Mid-Career Leadership Development Program

**B. Extramural Journal Reviewing Activities**

2007	Ad hoc Reviewer, <i>Journal of Biomechanics</i>
2008-Present	Ad hoc Reviewer, <i>Archives of Physical Medicine &amp; Rehabilitation</i>
2010-2015	Ad hoc Reviewer, <i>Physical Therapy</i>
2011-Present	Ad hoc Reviewer, <i>Clinical Journal of Pain</i>
2011-Present	Ad hoc Reviewer, <i>Journal of Pain</i>
2012-Present	Ad hoc Reviewer, <i>American Journal of Physical Medicine and Rehabilitation</i>
2012-Present	Ad hoc Reviewer, <i>Rehabilitation Psychology</i>
2015-Present	Ad hoc Reviewer, <i>Journal of the American Medical Association</i>
2015-Present	Editorial Board Member, <i>Physical Therapy</i>
2019-Present	Editorial Board Member, <i>BMC Musculoskeletal Disorders</i>

**C. Extramural Grant and Abstract Reviewing Activities**

2008	Research Symposium Panel Member, Belmont University, School of Physical Therapy
2008	Injury Prevention Panel Member, Department of Defense, Deployment Related Medical Research Program
2010-2014	Field Initiated Projects Panel Member, National Institute on Disability and Rehabilitation Research
2011-2015	External Review Grant Committee Member, American Physical Therapy Association, Orthopaedic Section

2011-Present Abstract Reviewer, American Physical Therapy Association, Orthopaedic Section  
 2012-2014 External Review Grant Committee Member, Bridging Advanced Developments for Exceptional Rehabilitation (BADER) Consortium, Department of Defense  
 2014 Invited Review Group Member, Center of Excellence in Physical Therapy Health Services and Health Policy Research and Training, Foundation for Physical Therapy  
 2014-2015 Scientific Review Committee Member, Foundation for Physical Therapy  
 2017-Present External Review Grant Committee Member, Major Extremity Trauma and Rehabilitation Consortium, Department of Defense  
 2017-Present Scientific Reviewer, Assessment of Prevention, Diagnosis, and Treatment Options Merit Review Panel, Patient-Centered Outcomes Research Institute (PCORI)  
 2017-Present Scientific Review Committee Member, Health Services Research Grant Applications, Foundation for Physical Therapy  
 2018-Present Abstract Reviewer, North American Spine Society  
 2019-Present Abstract Reviewer, International Society for the Study of the Lumbar Spine

#### **D. Extramural Professional Committee Activities**

2010-2012 Research Committee, Tennessee Physical Therapy Association  
 2011-2012 Research Committee, American Physical Therapy Association, Orthopaedic Section  
 2011-2014 Awards Committee, Subcommittee on Research, American Physical Therapy Association  
 2012-2014 Chair, Research Committee, Tennessee Physical Therapy Association  
 2012-2015 Research Advisory Committee, Bridging Advanced Developments for Exceptional Rehabilitation (BADER) Consortium, Department of Defense  
 2015-2019 Awareness Committee, Foundation for Physical Therapy  
 2015-2019 Invited Committee Member, Scientific Advisory Panel, Physical Therapy Outcomes Registry, American Physical Therapy Association  
 2016-2018 Awards Committee, Section on Research, American Physical Therapy Association  
 2017-2018 Lumbar Spondylolisthesis Outcome Measures Workgroup, Agency for Healthcare Research and Quality  
 2017-2018 Evidence Based Pain Therapies Committee, Orthopaedic Trauma Association  
 2017-Present Science Committee, Major Extremity Trauma Rehabilitation Research Consortium, Department of Defense  
 2017-Present Executive Committee, Major Extremity Trauma Rehabilitation Research Consortium, Department of Defense  
 2017-Present Emerging Investigator Committee, Major Extremity Trauma Rehabilitation Research Consortium, Department of Defense  
 2018-Present Pain Workgroup Member, American Physical Therapy Association  
 2019-Present Section on Research Retreat Planning Committee, American Physical Therapy Association  
 2019-2020 Chair, Awards Committee, Section on Research, American Physical Therapy Association  
 2019-Present Spine Journal Multidisciplinary Working Group, Spine Journal  
 2020-Present Eastern U.S. representative, International Society for the Study of the Lumbar Spine

#### **E. Data Safety Monitoring Board Member**

2019-Present SMART LBP: Optimized Multidisciplinary Treatment Programs for Nonspecific Chronic Low Back Pain. Patient Centered Outcomes Research Institute (PCORI): OTS-LBP-2017C1-6486

#### **F. Awards and Recognition**

2008 Paper Award, American Congress of Rehabilitation Medicine, ACRM-ASNR Joint Educational Conference, Ontario, Canada

2008-2010	Invited Expert Group Member, <i>Global Burden of Diseases, Injuries, and Risk Factors Study</i> , Institute for Health Metrics and Evaluation, University of Washington
2009	Invited Participant, American Physical Therapy Association's Research Department, "Creating a Culture of Collaboration: Vitalizing Practice through Research and Research through Practice" conference, Philadelphia, PA
2009	Leader, Cumulative Trauma Disorders Sub-Group, Bone and Joint Decade Global Network Conference, Washington, DC
2010	American Association for the Surgery of Trauma 2010 Peter C. Canizaro Award for Best Paper
2011-2012	Invited Participant, U.S. Bone and Joint Decade's Young Investigators Initiative (YII) Program
2012	Spine Journal 2012 Editor's Choice Award
2013	Invited Fellow, Thirteenth Annual OBSSR/NHLBI Summer Institute on the Design and Conduct of Randomized Clinical Trials Involving Behavioral Interventions
2013	Invited Poster Presenter, 8th Annual NIH Pain Consortium Symposium on Advances in Pain Research, Bethesda, MD
2014	North American Spine Society (NASS) Value Abstract Award for best oral paper
2015	Keynote Speaker, Rehabilitation Science Research Retreat, University of Colorado School of Medicine, Denver, CO
2015	Invited Poster Presenter, 10th Annual NIH Pain Consortium Symposium on Advances in Pain Research, Bethesda, MD
2017	Lee H. Riley, Jr Visiting Professor, Department of Orthopaedic Surgery, Johns Hopkins Medicine, Baltimore, MD
2018	Cervical Spine Research Society (CSRS) Resident Research Award (Mentor)
2018	North American Spine Society (NASS) Resident & Fellow Research Award (Mentor)
2019	NIH Back Pain Consortium (BACPAC) Advisory Working Group member

**Teaching Activities:**

**A. Graduate School Courses**

<b>Class Title</b>	<b>Role</b>	<b>Credit Hours</b>	<b>Number Students</b>	<b>Number Lecture per year</b>	<b>Date</b>
EPID 331: Quantitative Methods and Measurement <i>(Developed Course)</i>	Course Director	2	3-6	2-3	Fall 2011 Fall 2012 Fall 2013 Fall 2015
EPID 332: Advanced Methods in Epidemiology: Factor Analysis and SEM	Instructor	1	1	8	June-August 2012
EPID 332: Advanced Methods in Epidemiology: Longitudinal Analysis	Instructor	1	1	8	September-December 2012
EPID 332: Advanced Methods in Epidemiology: Survey Development and Factor Analysis	Instructor	1	1	8	March-May 2013
EPID 332: Advanced Methods in Epidemiology: Survey Development and Factor Analysis	Instructor	1	1	8	Jan-May 2014

EPID: 325 Scientific Writing 2	Co- Instructor	2	3	13	Jan-May 2015
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**B. Resident Education**

2009-2018 Resident Education Lecture Series  
*Evidence Based Medicine*    *Grant Writing*  
*Research Methods*            *Statistics I, II*

**C. Continuing Medical Education**

2019-Present Organizer, Vanderbilt Center for Musculoskeletal Research Seminar Series

**D. Research Supervision (Dates, Name, Current Position)**

**Doctoral Students: Thesis Advisor**

2007-2010 Caryn Seebach, PsyD            Staff Psychologist, Jefferson Headache Center,  
Thomas Jefferson University Hospital,  
Philadelphia, PA

2008-2011 Mary Zadnik, ScD            Assistant Professor and Program Director,  
University of St. Augustine for Health Sciences,  
Austin, TX

2017-Present Joshua Van Wyngaarden    PhD candidate, University of Kentucky College of  
Health Sciences, Division of Physical Therapy,  
Lexington, KY

2018-Present Christine Abraham, MA    PhD candidate, Lehigh University, Allentown, PA

2019-Present Jordan Bley            PhD student, Program in Epidemiology, Vanderbilt

**Doctoral Students: Thesis Advisory Committee**

2012-2014 Kara Michels, PhD            Research Fellow, Division of Cancer Epidemiology  
& Genetics, National Cancer Institute (NCI),  
Bethesda, MD

2018-Present Rebecca Hennessy            PhD student, University of Alabama at Birmingham,  
School of Health Professins, Birmingham, AL

2019-Present Nathan James            PhD student, Department of Biostatistics,  
Vanderbilt University Medical Center

**Doctoral Students: Faculty Advisor**

2012-2016 Michelle Baglia, PhD            Post-Doctoral Research Fellow, Fred Hutchinson  
Cancer Research Center, Seattle, WA

**Post-Doctoral Fellows**

2014-2016 Rogelio Coronado, PhD            Research Assistant Professor, Department of  
Orthopaedic Surgery, Vanderbilt University Medical  
Center

2019-Present Hiral Master, PT, PhD            Post-Doctoral Fellow, Department of Orthopaedic  
Surgery, Vanderbilt University Medical Center

**Clinical Fellows**

2015-2017 Silky Chotai, MD            Neurological Surgery Resident, Vanderbilt  
University Medical Center

2017-2019 Inamullah Khan, MD            Orthopaedic & Neurological Surgery Fellow,  
Vanderbilt University Medical Center

**Residents**

2007-2010	Michael Freehill, MD	Associate Professor of Orthopaedic Surgery, University of Michigan Medicine
2009-2010	Brandon Ramo, MD	Assistant Professor of Orthopaedic Surgery, University of Texas Southwestern Medical Center
2009-2010	Keith Douglas, MD	Orthopaedic Surgeon, Tennessee Orthopaedic Alliance, Nashville, TN
2009-2011	Kevin O'Neill, MD	Orthopaedic Surgeon, OrthoIndy, Indianapolis, IN
2010-2012	Kenneth Unruh, MD	Orthopaedic Surgeon, Orthopaedic and Sports Medicine Consultants, LLC, Leawood, KS
2010-2013	Brent Morris, MD	Orthopaedic Surgeon, Lexington Clinic Orthopedics – Sports Medicine Center, Lexington, KY
2013-2015	Dennis Lee, MD	Orthopaedic Surgeon, Michigan Orthopedic Center, Ypsilanti, MI
2013-2015	Sheyan Armaghani, MD	Orthopaedic Surgeon, Florida Orthopedic Institute, Tampa, FL
2014-2017	Alex Sielatycki, MD	Orthopaedic Surgeon, Center for Sports Medicine and Orthopaedics, Chattanooga, TN
2017-2019	A. Simone Maybin, MD	Instructor, Department of Physical Medicine & Rehabilitation, Johns Hopkins Medicine
2016-2019	Ahilan Sivaganesan, MD	Neurological Surgery Resident, Vanderbilt University Medical Center
2017-2019	Benjamin Weisenthal, MD	Orthopaedic Surgery Resident, Vanderbilt University Medical Center
2017-2019	Jeffrey Hills MD	Orthopaedic Surgery Resident, Vanderbilt University Medical Center
2019-Present	John Paul Wanner, MD	Orthopaedic Surgery Resident, Vanderbilt University Medical Center

#### **Medical Students**

2009	Priscilla Clark, MD	Physician, Cleveland Clinic Foundation
2010	Kevin Phelps, MD	Orthopaedic Surgeon, Carolinas Medical Center
2010	Henry Sanders, DO	Anesthesiology Resident, University of Alabama Birmingham
2010-2012	David Moore, MD	Urologic Surgeon, St. Thomas West Hospital, Newburgh, IN
2010-2012	Stephen Tourjee, MD	Psychiatrist, Massachusetts General Hospital and Harvard Medical School, Boston, MA
2011-2013	Vignesh Alamanda, MD	Orthopaedic Surgeon, NewYork Presbyterian/Weill Cornell Medical Center, New York, NY
2011-2013	James Tsahakis, MD	Emergency Medicine Physician, Denver Health Medical Center, Denver, CO
2014	Anthony Lazaro, MD	Family Medicine Resident, Fox Valley Family Medicine, Appleton, WI
2018	Tony Asher	Medical Student, University of North Carolina School of Medicine, Charlotte, NC

#### **Undergraduate Students**

2013-2016	Mackenzie Bird	Medical Student, Tulane University School of Medicine, New Orleans, LA
2015-2018	Steven Patalano	Graduate, Vanderbilt University
2016	Sarah Banks	Medical Student, University of Michigan Medical School, Ann Arbor, MI
2017-2019	Emma Sterling	Medical Student, Washington University

2018, 2019	Emily Oleisky	Undergraduate Student, Bowdoin College
2018-2019	Michael O'Brien	Medical Student, Vanderbilt University Medical Center
2018-2019	Betsy Nolan	Undergraduate Student, University of Virginia

**High School Students**

2017-2018	Elizabeth Blade	Undergraduate Student, University of Texas at Austin
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**Junior Faculty/Clinicians**

2013-2015	Carey Tomlinson, PT, MS	Physical Therapist / Clinical Coordinator, Vanderbilt Dayani Center
2017-Present	Jacqueline Pennings, PhD	Research Assistant Professor, Department of Orthopaedic Surgery, Vanderbilt University Medical Center
2018-2019	Sean Rundell, PhD	Assistant Professor, Department of Rehabilitation Medicine, University of Washington, <i>Primary Mentor for CoHSTAR Faculty Fellow</i>
2018-Present	Rogelio Coronado, PhD	Research Assistant Professor, Department of Orthopaedic Surgery, Vanderbilt University Medical Center, <i>Primary Mentor Vanderbilt Internal Career Development Award</i>
2019-Present	Carrie Brintz, PhD	Assistant Professor, Division of Pain Medicine, Department of Medicine, Vanderbilt University Medical Center

**Research Program:**

**A. Pending Support**

Grant PI:	Pradeep Suro
Archer Role:	Site PI
Funding Institution:	National Institutes of Health (NIH), 1R61 NS114933-01A1
Dates:	7/1/20-6/30/23
Total Funds:	\$9,291,274, Vanderbilt Sub-recipient: \$439,087
Archer Percent Effort:	Salary support (10% effort)
Title:	Leveraging electronic health record and genetic data for prognostic biomarker signatures in lumbar spinal disorders

**B. Current Support as Primary Investigator (PI) or Site PI**

Grant PI:	Kristin Archer
Archer Role:	PI
Funding Institution:	American Association of Neurological Surgeons
Dates:	9/1/15-8/31/20
Total Funds:	\$3,258,537
Archer Percent Effort:	Salary support (10% effort)
Title:	Quality and Outcomes Database

Grant PI:	Kristin Archer, PhD
Archer Role:	PI
Funding Institution:	Department of Defense (DoD), W81XWH-16-2-0061
Dates:	9/1/16-8/31/21
Total Funds:	\$500,000
Archer Percent Effort:	Salary support (10% effort)
Title:	MORE Resiliency in the Rehabilitation of Active Duty Service Members

Grant PI: Kristin Archer, PhD  
Archer Role: PI  
Funding Institution: American Orthopaedic Society for Sports Medicine  
Dates: 6/1/18-5/31/21  
Total Funds: \$150,000  
Title: Improving ACL Reconstruction Return to Play Outcomes through Psychologically Informed Rehabilitation

Grant PI: Kristin Archer, PhD  
Archer Role: PI  
Funding Institution: Department of Defense (DoD), W81XWH-16-2-0060  
Dates: 4/1/17-3/31/22  
Total Funds: \$1,106,551  
Archer Percent Effort: Salary support (10% effort)  
Title: Improving Pain and Function following Orthopaedic Trauma: A Cognitive-Behavioral Based Physical Therapy Approach

Grant PI: Niteesh Choudhry, MD, PhD/ Arnold Milstein, MD  
Archer Role: Site PI  
Funding Institution: Clinical Excellence Research Center, Stanford School of Medicine  
Dates: 2/01/18-3/31/21  
Total Funds: \$1,678,000  
Archer Percent Effort: Salary support (10% effort)  
Title: The Spine Pain Intervention to Enhance Care Quality And Reduce Expenditure (SPINE CARE)

Grant PI: Lauren McCormack, PhD, MSPH  
Archer Role: Site PI  
Funding Institution: Patient Centered Outcomes Research Institute (PCORI), OPD-1610-37006  
Dates: 2/01/18-1/31/22  
Total Funds: \$9,005,704; Vanderbilt Sub-recipient: \$1,700,000  
Archer Percent Effort: Salary support (10% effort)  
Title: Integrated Health Services to Reduce Opioid Use While Managing Chronic Pain

### **C. Current Support as Co-investigator**

Grant PI: Christopher Hughes, MD, MSc  
Archer Role: Co-investigator  
Funding Institution: National Institutes of Health (NIH), 1R01AG061161-01A1  
Dates: 2/1/20-1/31/24  
Total Funds: \$495,166  
Archer Percent Effort: Salary support (10% effort)  
Title: Cognitive and Physical Exercise to Improve Outcomes after Surgery in the Elderly

Grant PI: Leslie Crofford, MD  
Archer Role: Co-investigator  
Funding Institution: National Institutes of Health (NIH), UG3 AR076387-01  
Dates: 9/1/19-8/31/24  
Total Funds: \$4,488,498  
Archer Percent Effort: Salary support (5% effort)



Title: Fibromyalgia TENS in Physical Therapy Study (TIPS): an embedded pragmatic clinical trial

Grant PI: William Obrebskey, MD  
 Archer Role: Co-investigator  
 Funding Institution: Department of Defense, W81XWH-18-1-0810  
 Dates: 9/30/18-9/29/22  
 Total Funds: \$4,488,498  
 Archer Percent Effort: Salary support (10% effort)  
 Title: Effect of Early Weight Bearing on Rehabilitation Outcomes in Patients with Unicondylar Proximal Tibia Fractures and Bimalleolar Ankle Fractures

Grant PI: Guadalupe Ayala/Kristen Wells  
 Archer Role: Co-investigator  
 Funding Institution: National Institutes of Health (NIH), U54 MD012397-01-A1  
 Dates: 9/11/18-5/31/23  
 Total Funds: \$4,364,734; Vanderbilt Sub-recipient: \$50,000  
 Archer Percent Effort: Salary support (5% effort)  
 Title: SDSU HealthLINK Center for Transdisciplinary Health Disparities Research

Grant PI: Nitin Jain, MD  
 Archer Role: Co-Investigator  
 Funding Institution: Patient Centered Outcomes Research Institute (PCORI), CER-1605-35413  
 Dates: 8/01/17-7/31/22  
 Total Funds: \$7,515,928  
 Archer Percent Effort: Salary support (2% effort)  
 Title: Operative versus Non-Operative Treatment for Atraumatic Rotator Cuff Tears: A Multicenter Randomized Controlled Pragmatic Trial

**D. Previous Support**

Grant PI: Kristin Archer  
 Archer Role: PI  
 Funding Institution: Patient Centered Outcomes Research Institute (PCORI), CER-1306-01970  
 Dates: 2/1/14-9/1/18  
 Total Funds: \$1,867,629  
 Title: Comparative Effectiveness of Postoperative Management for Degenerative Spinal Conditions

Grant PI: Kristin Archer  
 Archer Role: PI  
 Funding Institution: National Institute on Disability and Rehabilitation Research (NIDRR), H133G120052  
 Dates: 10/1/12-9/30/16  
 Total Funds: \$599,357  
 Title: Improving Trauma Outcomes: A Goal Management Approach

Grant PI: Kristin Archer  
 Archer Role: PI  
 Funding Institution: National Institutes of Health (NIH), 1R21AR062880  
 Dates: 4/20/12-3/31/15  
 Total Funds: \$392,860

Title: Improving Surgical Spine Outcomes through Cognitive-Behavioral Based Physical Therapy

Grant PI: Kristin Archer  
Archer Role: PI  
Funding Institution: Orthopaedic Trauma Association (OTA)  
Dates: 1/1/09-12/31/12  
Total Funds: \$131,010  
Title: Postoperative Pain Instrument for Traumatic Orthopaedic Injuries

Grant PI: Kristin Archer  
Archer Role: PI  
Funding Institution: Foundation for Physical Therapy Magistro Research Grant  
Dates: 1/1/12-12/31/13  
Total Funds: \$40,000  
Title: Cognitive-Behavioral Based Physical Therapy Following Spine Surgery

Grant PI: Kristin Archer  
Archer Role: PI  
Funding Institution: American Physical Therapy Association, Orthopaedic Section  
Dates: 5/1/10-4/30/13  
Total Funds: \$24,996  
Title: A Cognitive-Behavioral Based Physical Therapy (CBPT) Intervention for Pain and Disability after Spine Surgery

Grant PI: Kristin Archer  
Archer Role: PI  
Funding Institution: Blaustein Pain Research Committee, Johns Hopkins University  
Dates: 7/1/08 – 8/31/09  
Total Funds: \$25,000  
Title: Effects of Fear-Avoidance Beliefs on Pain after Spine Surgery

Grant PI: Renan Castillo (Johns Hopkins, Prime, Vanderbilt Sub-recipient)  
Archer Role: Site PI  
Funding Institution: National Institutes of Health (NIH), R01AR064066  
Dates: 9/13/12-8/31/16  
Total Funds: \$1,067,985; Vanderbilt Sub-recipient: \$300,000  
Title: Reliability and Responsiveness of PROMIS Tools in Orthopaedic Trauma Patients

Grant PI: Stephen Wegener (Johns Hopkins, Prime, Vanderbilt Subrecipient)  
Archer Role: Site PI  
Funding Institution: National Institutes of Health (NIH), R01 AR054009  
Dates: 6/1/11-11/30/12  
Total Funds: \$1,884,337; Vanderbilt Sub-recipient: \$500,000  
Title: Pain Management Following Musculoskeletal Injury

Grant PI: Ellen Mackenzie (Johns Hopkins, Prime, Vanderbilt Subrecipient)  
Archer Role: Co-investigator  
Funding Institution: Department of Defense (DoD), W81XWH1520058  
Dates: 10/1/10-8/31/16  
Total Funds: Vanderbilt Sub-recipient: \$798,234

Title: Major Extremity Trauma Research Consortium (METRC) Project:

Grant PI: Ellen Mackenzie (Johns Hopkins, Prime, Vanderbilt Subrecipient)

Archer Role: Co-Investigator

Funding Institution: Department of Defense (DOD), W81XWH0920108

Dates: 9/1/09-8/31/14

Total Funds: \$18,400,000; Vanderbilt Sub-recipient: \$944,128

Title: The Major Extremity Trauma Research Consortium (METRC)

Grant PI: Nitin Jain, MD

Archer Role: Co-Investigator

Funding Institution: National Institutes of Health (NIH), 1 U34 AR069201-01A1

Dates: 7/25/16-6/30/18

Total Funds: \$197,500

Title: Operative versus Non-Operative Treatments for Atraumatic Rotator Cuff Tears: A Multicenter Randomized Controlled Trial

Grant PI: Inamullah Khan, MD

Archer Role: Co-investigator/Primary Mentor

Funding Institution: Cervical Spine Research Society

Dates: 1/1/19-12/31/19

Total Funds: \$25,000

Title: Assessment of Variation in Preoperative Expectations and Subsequent Fulfillment for Patients Undergoing Elective Cervical Spine Surgery

Grant PI: Rogelio Coronado, PhD

Archer Role: Co-Investigator/Primary Mentor

Funding Institution: Cervical Spine Research Society

Dates: 1/1/16-12/31/17

Total Funds: \$25,000

Title: A Randomized Trial of Early Home Exercise Versus Usual Care after Anterior Cervical Decompression and Fusion for Degenerative Cervical Spine Conditions

Grant PI: Rogelio Coronado, PhD

Archer Role: Co-Investigator/Primary Mentor

Funding Institution: APTA, Orthopaedic Section

Dates: 5/1/16-4/30/17

Total Funds: \$30,000

Title: Early Postoperative Exercise after Anterior Cervical Decompression and Fusion for Degenerative Cervical Spine Conditions

Grant PI: Clinton Devin, MD

Archer Role: Co-Investigator

Funding Institution: Lumbar Spine Research Society

Dates: 2/1/16-1/31/17

Total Funds: \$20,000

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

Grant PI: Rogelio Coronado

Archer Role: Co-Investigator/Primary Mentor  
Funding Institution: Foundation for Physical Therapy  
Dates: 1/1/15-12/31/16  
Total Funds: \$40,000  
Title: Improving Physical Activity and Function with Cognitive-Behavioral Based Physical Therapy after Spine Surgery

Grant PI: Jeff Nyman  
Archer Role: Co-Investigator  
Funding Institution: National Institutes of Health (NIH), R01AR063157  
Dates: 7/1/12-6/30/16  
Total Funds: \$1,719,698  
Title: Roles of Collagen and Water in the Fracture Resistance of Bone

Grant PI: William Obrebskey  
Archer Role: Co-Investigator  
Funding Institution: Department of Defense (DoD), OR090346  
Dates: 9/15/10-9/14/16  
Total Funds: \$2,972,205  
Title: Treatment of Early Post-op Wound Infection after Internal Fixation Improving Activity and Quality of Life Following Lower Extremity Trauma

Grant PI: Florent Elefteriou  
Archer Role: Co-Investigator  
Funding Institution: National Institutes of Health (NIH), R01CA168717  
Dates: 4/1/13-3/31/16  
Total Funds: \$1,606,789  
Title: Role of Sympathetic Activation and RANKL/IL6 in Breast Cancer Bone Metastasis

Grant PI: Kristin Archer  
Archer Role: PI  
Funding Institution: Vanderbilt Institute for Clinical and Translational Research (VR7092)  
Dates: 6/21/13-6/21/15  
Total Funds: \$13,278  
Title: Psychological Predictors of ACL Reconstruction Outcomes

Grant PI: Kristin Archer  
Archer Role: PI  
Funding Institution: Vanderbilt Institute for Clinical and Translational Research (VR6118)  
Dates: 2/8/13-2/8/15  
Total Funds: \$15,700  
Title: Improving Trauma Outcomes: A Goal Management Approach

Grant PI: Kristin Archer  
Archer Role: PI  
Funding Institution: Department of Orthopedic Surgery, Vanderbilt University Medical Center  
Dates: 7/1/13-6/30/14  
Total Funds: \$25,000  
Title: Psychological Predictors of ACL Reconstruction Outcomes

Grant PI: Kristin Archer

Archer Role: PI  
Funding Institution: Vanderbilt Institute for Clinical and Translational Research (VR4139)  
Dates: 6/15/12-6/13/14  
Total Funds: \$9,000  
Title: Feasibility of Activity Monitors for Patients After Spine Surgery

Grant PI: Kristin Archer  
Archer Role: PI  
Funding Institution: Vanderbilt Institute for Clinical and Translational Research (VR832)  
Dates: 5/1/10-4/30/13  
Total Funds: \$26,710  
Title: A Cognitive-Behavioral Based Physical Therapy (CBPT) Intervention for Pain and Disability after Spine Surgery

Grant PI: Kathy Hartmann  
Archer Role: Content Expert  
Funding Institution: Agency for Healthcare Research and Quality Evidence Based Practice Centers III, HHS 290-2007-10065-I  
Dates: 1/1/12-9/30/12  
Total Funds: \$8,728,676  
Title: American Recovery and Reinvestment Act of 2009: Comprehensive EPC Comparative Effectiveness Reviews for Effective Health Care Feeding and Nutrition Interventions in Cerebral Palsy (Task Order 5)

Grant PI: Renan Castillo  
Archer Role: Co-Investigator  
Funding Institution: IWIF Workers' Compensation Insurance  
Dates: 10/1/08 - 9/30/10  
Total Funds: \$210,000  
Title: Return to Work Following Low Back Injuries

### **Publications and Presentations:**

#### **A. Peer-Reviewed Original Journal Articles**

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11. O'Neill KR, Smith JG, Abtahi A, Archer KR, Spengler DM, McGirt MJ, Devin CJ. Reduced Surgical Site Infections in Patients Undergoing Posterior Spinal Stabilization of Traumatic Injuries Using Vancomycin Powder. **The Spine Journal**. 2011;11(7):641-646. PMID: 21600853 **Spine Journal 2012 Editor's Choice Award**
12. Guillamondegu OD, Richards JE, Ely EW, Jackson JC, Archer KR, Norris PR, Obremskey WT. Does Hypoxia Affect Intensive Care Unit Delirium or Long-Term Cognitive Impairment After Multiple Trauma Without Intracranial Hemorrhage? **Journal of Trauma**. 2011;70:910-915. **American Association for the Surgery of Trauma 2010 Peter C. Canizaro Award for Best Paper**
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Clothes or a New Arena for Physical Therapists? **Physical Therapy**. 2019;99(2):127-30. PMID: 30480605 **Selected for Commentary**

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#### **B. In-Press Peer-Reviewed Original Journal Articles**

1. Bydon M, Alvi M, Khan I, Archer KR, Asher A, Devin CJ. Impact of Dominant Symptom on 12-Month Patient Reported Outcomes for Patients Undergoing Lumbar Spine Surgery. **Neurosurgery**. 2020.

#### **C. Submitted Original Journal Articles**

1. Pennings JS, Khan I, Sivaganesan A, Bydon M, Asher AL, Devin CJ, Archer KR. \* Measurement properties of PROMIS-29 and Prediction of Neck Disability Index using PROMIS-29 in a National Sample of Cervical Spine Surgery Patients. **Spine Journal**. 2019. **Major Revision Submitted**
2. Coronado RA, Ehde DM, Vanston SV, Koyama T, Phillips SE, Mathis SL, McGirt MJ, Spengler DM, Aaronson OS, Cheng JS, Devin CJ, Wegener ST, Archer KR. \* Fear or movement and pain self-efficacy mediate outcomes in a randomized controlled trial of cognitive-behavioral-based physical therapy after spine surgery. **Physical Therapy**. 2019

### ***Major Revision Submitted***

3. Khan I, Kelly PM, Sivaganesan A, Monk SH, Blum DM, Archer KR, Devin CJ, Parker S. Radiological Parameters Predict 1-year Oswestry Disability Index (ODI) Following Single Level TLIF for Degenerative Spondylolisthesis. **Journal of Neurosurgery**. 2019. **Major Revision Submitted**
4. Khan I, Archer KR, Bydon M, Sivaganesan A, Pennings J, Alvi M, Foley K, Bisson E, Knightly J, Asher A, Devin C. Cervical Disc Arthroplasty Vs. Anterior Cervical Discectomy and Fusion: An analysis from the Quality Outcomes Database (QOD). **Neurosurgery: Spine**. 2020
5. Van Wyngaarden J, Noehren B, Archer KR. Reliability and Validity of the STarT-Lower Extremity Screening Tool for Patients with Lower Extremity Fracture. **Archives of Physical Medicine and Rehabilitation**. 2019 **Major Revision Submitted**
6. Harbaugh R, Cockroft K, Knightly J, Alvi M, Khan I, Archer KR, Zacharia B, Kalkanis S, Asher A, Bydon M. Launching the Quality Outcomes Database (QOD)-Tumor Registry: Rationale, Development, and Pilot Data. **Neurosurgical Focus**. 2019. **Major Revision Submitted**
7. Sivaganesan A, Roth SG, Pennings J, Nolan E, Khan I, Asher AL, Bydon M, Devin CJ, Archer KR. \* Why are patients dissatisfied after spine surgery when the improvements in disability and pain scores are clinically meaningful? **Spine Journal**. 2020
8. Archer KR, \* Bydon M, Khan I, Nian H, Harrell F Jr, Pennings JS, Sivaganesan A, Chotai S, McGirt M, Foley KT, Glassman SD, Mummaneni PV, Bisson E, Knightly JJ, Shaffrey C, Asher AL, Devin CJ. Development and validation of cervical prediction models for disability and pain 1-year after cervical spine surgery for radiculopathy and myelopathy. **Spine**. 2020. **Major Revision Submitted**
9. Master H, Pennings JS, Coronado RA, Henry AL, O'Brien MT, Haug CM, Skolasky RL, Riley LH, Neuman BJ, Cheng JS, Aaronson OS, Devin CJ, Wegener S, Archer KR. \* Physical performance tests provide distinct information in both predicting and assessing clinical outcomes following lumbar spine surgery. **Spine**. 2020
10. Coronado RA, Robinette PE, Henry AL, Pennings JS, Haug CM, Skolasky RL, Riley LH, Neuman BJ, Cheng JS, Aaronson OS, Devin CJ, Wegener ST, Archer KR. \* Bouncing back after lumbar spine surgery: early postoperative resilience is associated with 12-month physical function, pain interference, social participation, and disability. **Spine Journal**. 2020
11. Coronado RA, Master H, White DK, Pennings JS, Bird ML, Devin CJ, Buchowski M, Mathis SL, McGirt MJ, Cheng JS, Aaronson O, Wegener ST, Archer KR. \* Early Postoperative Physical Activity and Function after Lumbar Spine Surgery: A Descriptive Study. **BMC Musculoskeletal Disorders**. 2020
12. Master H, Pennings JS, Coronado RA, Robinette PE, Haug CM, Skolasky R, Riley LH, Neuman B, Cheng JS, Aaronson O, Devin CJ, Wegener ST, Archer KR. \* How many steps per day is enough to improve patient-reported outcomes after lumbar spine surgery? **Spine Journal**. 2020

13. McLaughlin K, Archer KR, Shafiq B, Mitchell SL, Wegener ST, Reider L. Variation in physical therapy referral and practice among surgeons and physical therapists following lower extremity trauma. **Physical Therapy**. 2020
14. Rengel KF, Mehdiratta N, Archer KR, Vanston SW, Jackson JC, Thompson JL, Pandharipande P, Hughes CG. Pilot trial of combined cognitive and physical exercise prehabilitation to improve outcomes in surgical patients. **British Journal of Anesthesia**. 2020
15. Khan I, Pennings JS, Devin CJ, Asher AM, Oleisky E, Asher AL, Archer KR.\* Clinically Meaningful Improvement Following Cervical Spine Surgery: Percent Reduction Vs. Minimum Clinically Important Difference. **Spine**. 2020

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#### D. Book Chapters

1. Archer KR. Physical Therapy for Pain, Strength, and Function (Ch.7). In *The Back Book*: by Riley LH III, Gokaslan ZL. The Johns Hopkins University Press: Baltimore, MD. 2008.
2. Coronado RC, Herzberg S, Archer KR.\* Return to Sport Psychological and Psychosocial Issues in the Athlete: Identification and Management. (Ch. 2). In *Return to Sport After ACL Reconstruction and Other Knee Operations: Limiting the Risk of Reinjury and Maximizing Athletic Performance*: by Noyes FR, Barber-Westin SD. Springer Nature. 2019

#### E. Peer-Reviewed Oral Presentation: International

1. Archer KR,\* Wegener ST, Devin CJ, Vanston, SW, McGirt M, Spengler D, Aaronson OS, Cheng J, Smith K. Cost-effectiveness of psychologically informed physical therapy in patients after lumbar spine surgery. International Society for the Study of the Lumbar Spine (ISSLS) 45th Annual Meeting. Banff, Canada, May 16, 2018.
2. Archer KR,\* A. Simone Maybin, Inam Khan, Pennings J, Chotai S, Coronado R, Devin CJ. The Impact of Postoperative Physical Therapy on Patient-Reported Outcomes in Patients Undergoing Spine Surgery. International Society for the Study of the Lumbar Spine (ISSLS) 45th Annual Meeting. Banff, Canada, May 16, 2018.
3. Archer KR,\* Coronado RA, Pennings JS, Henry AL, O'Brien M, Skolasky RL, Haug CM, Riley LH III, Neuman BJ, Cheng JS, Aaronson OS, Devin CJ, Wegener ST. Performance-Based Tests as Predictors of Patient-Reported Outcomes at 1-Year Following Lumbar Spine Surgery International Society for the Study of the Lumbar Spine (ISSLS) 46th Annual Meeting. Kyoto, Japan, June 4, 2019.
4. Archer KR,\* Pennings J, Sivaganesan A, Roth S, Nolan E, Khan I, Asher AL, Bydon M, Devin CJ. Why are patients dissatisfied after spine surgery when reductions in disability or pain are clinically meaningful? SpineWeek 2020. Melbourne, Australia, April 28, 2020. (Conference cancelled)
5. Pennings J, Coronado R, Master H, Wegener ST, Archer KR,\* Trajectories of PROMIS Physical Function, Pain Interference, and Participation in Social Roles in 24 Months Following Lumbar Spine Surgery. SpineWeek 2020. Melbourne, Australia, April 29, 2020. (Conference cancelled)

6. Coronado RA, Pennings JS, Hills JM, Khan I, Call R, Sivaganesan A, Devin CJ, Archer KR.\* Postoperative Outpatient Physical Therapy and Opioid Utilization after Spine Surgery. SpineWeek 2020. Melbourne, Australia, April 29, 2020 (Conference cancelled)
7. Coronado RA, Robinette PE, O'Brien M, Sterling E, Henry AL, Pennings JS, Vanston SW, Wegener ST, Archer KR.\* Influence of Goal Attainment Scaling on Cognitive-Behavioral Based Physical Therapy Outcomes after Lumbar Spine Surgery. SpineWeek 2020. Melbourne, Australia, April 30, 2020 (Conference cancelled)

\*KR Archer – corresponding author.

#### F. Peer-Reviewed Oral Presentation: National

1. Archer KR,\* Castillo RC, MacKenzie EJ, Bosse MJ. Predictors of Orthopaedic Surgeon Referral to Physical Therapy Among Patients With Lower-Extremity Trauma. Annual Conference & Exposition of the American Physical Therapy Association. San Antonio, TX, June 11-14, 2008.
2. Archer KR,\* MacKenzie EJ, Bosse MJ, Pollak A, Riley L. Physician and Practice Level Influences on Surgeon Referral to Physical Therapy: Results of a National Survey of Orthopaedic Trauma Association Members. ACRM-ASNR Joint Educational Conference. Toronto, Ontario, October 15-19, 2008. **Abstract published in Arch Phys Med Rehabil 2008;89(10):e3.**
3. Freehill MT, Ebel B, Archer KR, Bancel R, Wilckens J, McFarland EG, Cosgarea AJ. Glenohumeral Range of Motion in Major League Pitchers: A Longitudinal Analysis. Major League Baseball Team Physician Association and Professional Baseball Athletic Trainers Society Annual Meeting. Las Vegas, NV, December, 2008.
4. Freehill MT, Ebel B, Archer KR, Bancel R, Wilckens J, McFarland EG, Cosgarea AJ. Glenohumeral Range of Motion in Major League Pitchers: A Longitudinal Analysis. Eastern Orthopaedic Association 40<sup>th</sup> Annual Meeting. Paradise Island, Bahamas, June 17-20, 2009.
5. Archer KR,\* Wegener WT, Seebach C, Skolasky R, Thornton C, Khanna AJ, Riley LH. Effects of Fear-Avoidance Beliefs on Pain Intensity and Patient-Reported Disability after Spine Surgery. ACRM-ASNR Joint Educational Conference. Denver, CO, October 7-11, 2009. **Abstract published in Arch Phys Med Rehabil 2008;90(10):e3-e4.**
6. Obremskey WT, Bauer R, Abraham C, Anderson V, Song Y, Archer KR, Guillaumondegui O, Jackson JC, Ely EW. A Prospective Study of Cognitive Deficits, Depression and PTSD in Trauma Patients Without Intracranial Injury. Orthopaedic Trauma Association 25<sup>th</sup> Annual Meeting. San Diego, CA, October 8-10, 2009.
7. Archer KR,\* Wegener WT, Seebach C, Skolasky R, Thornton C, Khanna AJ, Riley LH. Impact of Fear-Avoidance Beliefs on Postoperative Pain and Disability after Spine Surgery. American Physical Therapy Association: Combined Sections Meeting. San Diego, CA, February 17-20, 2010. **Abstract published in J Orthop Sports Phys Ther 2010;40(1):A37.**
8. Archer KR,\* Jackson JC, Bauer R, Abraham C, Guillaumondegui O, Ely EW, Greevy R, Song Y, Obremskey W. Pain and Disability 2-Years after Traumatic Injury: The Role of Fear-Avoidance and Pain Catastrophizing. American Physical Therapy Association: Combined Sections Meeting. San Diego, CA, February 17-20, 2010. **Abstract published in J Orthop Sports Phys Ther 2010;40(1):A37-A38.**

9. Guillaumondegui OD, Richards JE, Ely EW, Jackson JC, Archer KR, Norris PR, Obremskey WT. Does Hypoxia Affect ICU Delirium or Long Term Cognitive Impairment following Multiple Trauma without Intracranial Hemorrhage? The American Association for the Surgery of Trauma. Boston, MA, September 22-25, 2010.
10. Richards JE, Guillaumondegui OD, Archer KR, Jackson JC, Ely EW, Obremskey WT. The Effect of Intramedullary Nailing on Cognitive Impairment following Multiple Trauma without Intracranial Hemorrhage. Orthopaedic Trauma Association 26<sup>th</sup> Annual Meeting. Baltimore, MD, October 14-16, 2010.
11. Douglas K, Cannada L, Lee S, Dean DB, Archer KR, Obremskey W. Incidence and Risk Factors of Heterotopic Ossification Following Major Elbow Trauma. American Academy of Orthopaedic Surgeons. San Diego, CA, February 15-19, 2011.
12. O'Neill K, Smith J, Abtahi A, Archer KR, Spengler DM, McGirt MJ, Devin CJ. Reduced Surgical Site Infections in Patients Undergoing Posterior Spinal Stabilization of Traumatic Injuries Using Vancomycin Powder. Annual Lumbar Spine Research Society Meeting. Chicago, IL, May 5-6, 2011. **Abstract published in Neurosurgical Focus 2011;30(3): A1-A25; Spine Journal 2011;11(10):S39 and S174.**
13. Adelani MA, Archer KR, Song Y, Holt GE. Complications Following Hip and Knee Replacement: Does Race Matter? Southern Orthopaedic Association 28<sup>th</sup> Annual Meeting. Kohala Coast, Big Island, HI, July 20-23, 2011.
14. Archer KR,\* Castillo RC, Wegener ST, Abraham C, Obremskey W. Pain and Satisfaction with Pain Management in Hospitalized Trauma Patients. Orthopaedic Trauma Association 27<sup>th</sup> Annual Meeting. San Antonio, TX, October 12-15, 2011.
15. Tourjee S, Obremskey WT, Castillo RC, Abraham CM, Phelps KD, Naik R, Archer KR\*. The Impact of Nerve Blocks on Opioid Use and Hospital Length of Stay in Patients with Traumatic Lower-Extremity Injury. American College of Surgeons' 97<sup>th</sup> Annual Clinical Congress. San Francisco, CA, October 23-27, 2011. **Abstract published in Journal of the American College of Surgeons 2011;213(3):S72-S73.**
16. Tourjee S, Obremskey WT, Castillo RC, Abraham CM, Phelps KD, Naik R, Archer KR\*. The Impact of Nerve Blocks on Opioid Use and Hospital Length of Stay in Patients with Traumatic Lower-Extremity Injury. American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting. San Francisco, CA, February 7-11, 2012.
17. Obremskey WT, Agel J, Archer KR, Tornetta P. Character, Incidence and Predictors of Knee Pain and Activity After IMN of an Isolated Tibia Fracture. Orthopaedic Trauma Association 28<sup>th</sup> Annual Meeting. San Antonio, TX, October 3-6, 2012.
18. Wright BA, Archer KR, Burns K, Devin CJ, McGirt MJ, Mioton L, O'Neill K. Effects of Depression on Patient Reported Outcomes following Surgery for Cervical Adjacent Segment Disease. Cervical Spine Research Society 40<sup>th</sup> Annual Meeting. Chicago, IL, December 6, 2012.
19. Mioton LM, O'Neill K, Burns KM, Wright BT, Wilson RJ, Archer KR, McGirt MJ, Devin CJ. Minimum Clinically Important Difference Assesses Health State After Repeat Cervical Spine Surgery. American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting. Chicago. IL, March 20, 2013.

20. Alamanda V, Crosby SN, Archer KR, Schwartz H, Holt G. The Financial Burden of Re-excising Incompletely Excised Sarcomas - A Cost Analysis. American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting. Chicago, IL, March 21, 2013.
21. Alamanda V, Crosby SN, Archer KR, Schwartz H, Holt G. Cause and Effect of Local Recurrence in Extremity Soft Tissue Sarcoma - Are We Making a Difference? American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting. Chicago, IL, March 22, 2013.
22. Alamanda V, Crosby SN, Archer KR, Schwartz H, Holt G. Failure to Correctly Diagnose Extremity Soft Tissue Sarcomas - is a Lack of Education to Blame? American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting. Chicago, IL, March 22, 2013.
23. Morris BJ, Zumsteg JW, Cash B, Archer KR, Mir H. Narcotic Use and Postoperative Doctor Shopping in the Orthopaedic Trauma Population. American College of Surgeons' 98th Annual Clinical Congress. Washington, DC, October 8, 2013.
24. Archer KR,\* Heins S, Abraham CM, Obremskey WT, Wegener ST, Castillo RC. Impact of Early Postoperative Pain on Outcomes 1-Year following Traumatic Orthopaedic Injury. Orthopaedic Trauma Association 29th Annual Meeting. Phoenix, Arizona, October 12, 2013.
25. Unruh KP, Richards JE, Archer KR, Cannada LK, Obremskey WT, Bosse MJ. Recombinant Human Morphogenetic Protein-2 (rhBMP-2) Versus Iliac Crest Autograft to Treat Tibia Nonunion. Orthopaedic Trauma Association 29th Annual Meeting. Phoenix, Arizona, October 10, 2013.
26. Kadakia RJ, Tsajakis JM, Issar NM, Archer KR, Jahangir AA, Sethi MK, Obremskey WT, Mir HR. Impact of Patient Comprehension On Postoperative Complications in an Orthopaedic Trauma Population. Orthopaedic Trauma Association 29th Annual Meeting. Phoenix, Arizona, October 12, 2013.
27. Lee D, Armaghani S, Bible J, Shau D, Kay H, Zhang C, Archer KR, McGirt M, Devin C. Preoperative Narcotic Use Predicts Worse Postoperative Self-Reported Outcomes in Patients Undergoing Spine Surgery. Cervical Spine Research Society 41<sup>st</sup> Annual Meeting. December 7, 2013. **Abstract published in Spine Journal 2013;13(9):S138.**
28. Morris BJ, Zumsteg JW, Archer KR, Cash B, Mir H. Narcotic Use and Postoperative Doctor Shopping in the Orthopaedic Trauma Population. American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting. New Orleans, LA, March 12, 2014.
29. Kadakia RJ, Tsajakis JM, Issar NM, Archer KR, Jahangir AA, Sethi MK, Obremskey WT, Mir HR. Health Literacy in an Orthopaedic Trauma Population: Improving Patient Comprehension Reduces Readmission Rates. AOA/COA Combined Meeting. Montreal, QC, Canada, June 19, 2014.
30. O'Neill K, Lenke LG, Bridwell KH, Neuman BJ, Kim HJ, Archer KR. Factors Associated with Improved Long-Term Outcomes Following 3-Column Osteotomies. SRS 49<sup>th</sup> Annual Meeting. Anchorage, AL, September 12, 2014.
31. Archer KR,\* Abraham CM, Richards J, Obremskey WT. Cerebral Fat Emboli and Cognitive Impairment Following Reamed Intramedullary Nailing. Orthopaedic Trauma Association 30<sup>th</sup> Annual Meeting. Tampa, FL, October 18, 2014.
32. O'Neill K, Lenke LG, Bridwell KH, Neuman BJ, Kim HJ, Archer KR. Factors Associated with

Improved Long-Term Outcomes Following 3-Column Osteotomies. North American Spine Society 29<sup>th</sup> Annual Meeting. San Francisco, CA, November 13, 2014. **Abstract published Spine Journal 2014; 14(11 Suppl):S56.**

33. Archer KR,\* Wegener ST, Vanston S, Cheng JS, Aaronson OS, Devin CJ, Bird M, McGirt MJ. Patient Reported and Performance-Based Outcome Measures Following Spine Surgery: A Longitudinal Analysis. North American Spine Society 29<sup>th</sup> Annual Meeting. San Francisco, CA, November 13, 2014. **Abstract published Spine Journal 2014;14(11 Suppl):S51-52.**
34. Archer KR,\* Vanston S, Cheng JS, Aaronson OS, Devin CJ, Wegener ST, Koyama T, Phillips S, McGirt MJ. Improving Surgical Spine Outcomes through a Targeted Postoperative Rehabilitation Approach. North American Spine Society 29<sup>th</sup> Annual Meeting. San Francisco, CA, November 14, 2014. **Selected for NASS Value Abstract Award for best oral paper. Abstract published Spine Journal 2014;14(11 Suppl):S76-77.**
35. Archer KR,\* Mathis S, Vanston S, Koyama T, Phillips S, Cheng JS, Aaronson OS, McGirt M, Devin CJ, Wegener ST. Improving Surgical Spine Outcomes through a Targeted Postoperative Rehabilitation Approach. American Physical Therapy Association: Combined Sections Meeting. Indianapolis, IN, February 7, 2015. **Abstract published J Orthop Sports Phys Ther 2015;45(1):A43.**
36. Archer KR,\* Wegener ST, Vanston S, Bird M, McGirt M, Cheng JS, Aaronson OS, Devin CJ. Patient Reported and Performance-Based Outcome Measures Following Spine Surgery: A Longitudinal Analysis. American Physical Therapy Association: Combined Sections Meeting. Indianapolis, IN, February 7, 2015. **Abstract published J Orthop Sports Phys Ther 2015;45(1):A43-44.**
37. Thakore R, Nwosu S, Archer KR, Ehrenfeld J, Obremsky WT, Sethi M. The Gustillo-Anderson Classification System as Predictor of Non Union and Infection in Open Tibia Fractures. American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting. Las Vegas, NV, March 27, 2015.
38. Devin CJ, Chotai S, Vaccaro AR, McGirt MJ, Youssef JA, Orndorff DG, Arnold PM, Frempong-Boadu AK, Lieberman IH, Hedayat HS, Wang JC, Isaacs RE, Radcliff K, Patt J, Archer KR. Does the use of Intrawound Vancomycin Decreases the Risk of Surgical Site Infection after Elective Spine Surgery? – A Multicenter Analysis. Congress of Neurological Surgeons Annual Meeting. New Orleans, LA, September 29, 2015. **Abstract published Neurosurgery 2015;62(Suppl 1):220**
39. Archer KR,\* Bird ML, Coronado RA, Wegener ST, Devin CJ, Haug CM, Schlundt D. Patients' Experiences and Expectations of Lumbar Spine Surgery for Degenerative Conditions: A Qualitative Study. North American Spine Society 30<sup>th</sup> Annual Meeting. Chicago, IL, October 14, 2015. **Abstract published Spine Journal 2015;15(10 Suppl):S99-100.**
40. Devin CJ, Chotai S, Vaccaro AR, McGirt MJ, Youssef JA, Orndorff DG, Arnold PM, Frempong-Boadu AK, Lieberman IH, Hedayat HS, Wang JC, Isaacs RE, Radcliff K, Patt J, Archer KR. Does the use of Intrawound Vancomycin Decreases the Risk of Surgical Site Infection after Elective Spine Surgery? – A Multicenter Analysis. North American Spine Society 30<sup>th</sup> Annual Meeting. Chicago, IL, October 14, 2015. **Abstract published Spine Journal 2015;15(10 Suppl):S103.**
41. Archer KR,\* Sielatycki JA, Wegener ST, Cheng JS, Aaronson OS, Coronado RA, Devin CJ. Patient Reported and Performance-Based Measures and Patient Satisfaction Following Spine Surgery: A Longitudinal Analysis. North American Spine Society 30<sup>th</sup> Annual Meeting. Chicago, IL,

October 15, 2015. **Abstract published Spine Journal 2015;15(10 Suppl):S123.**

42. Parker SL, Devin CJ, Chotai S, Bydon M, Archer K, McGirt MJ, Asher AL. Factors Associated with Non-Improvement in Patient-Reported Disability at 12-Months Post-operatively following Elective Lumbar Surgery for Degenerative Pathology. Southern Neurological Society 67th Annual Meeting. San Antonio, TX, March 5, 2016
43. Chotai S, Devin CJ, Archer KR, Speroff T, Harrell FE, Hui N, Dittus RS, Mummaneni PV, Knightly J, Glassman S, Bydon M, Foley KT, McGirt MJ, Asher AL. Impact of Functional Status of Patient on Satisfaction with Surgery 12-months after Elective Spine Surgery for Lumbar Degenerative Disease. 84<sup>th</sup> American Association of Neurological Surgeons Annual Meeting. Chicago, IL, May 2, 2016. **Abstract published Journal of Neurosurgery 2016;124 (4):A1159**
44. Chotai S, McGirt MJ, Devin CJ, Bydon M, Archer KR, Foley K, Schmidt M, Glassman S, Knightly J, Asher AL; N2QOD Investigator Group. Predictive Model for Return to Work after Elective Surgery for Lumbar Degenerative Disease: An Analysis from National Neurosurgery Quality Outcomes Database Registry. 84<sup>th</sup> American Association of Neurological Surgeons Annual Meeting. Chicago, IL, May 2, 2016. **Abstract published Journal of Neurosurgery 2016;63(Suppl 1):A1160-A1161.**
45. Asher AL, Chotai S, Devin CJ, Archer KR, Parker SL, Bydon M, Nian H, Harrell F, Spereoff T, Dittus R, Philips S, Shaffrey C, Foley K, McGirt MJ. Predictive Model for Return to Work after Elective Surgery for Lumbar Degenerative Disease: An Analysis from National Neurosurgery Quality Outcomes Database Registry. Congress of Neurological Surgeons Annual Meeting. San Diego, CA, September 27, 2016. **Abstract published Neurosurgery 2016;63(Suppl 1):160**
46. Devin CJ, Chotai S, Bydon M, Archer KR, McGirt MJ, Harrell FE, Asher AL. Impact of Functional Status of Patient on Satisfaction with Surgery 12 Months after Elective Spine Surgery for Lumbar Degenerative Disease. North American Spine Society 31<sup>st</sup> Annual Meeting. Boston, MA, October 26, 2016. **Abstract published Spine Journal 2016; 16(10):S186.**
47. Chotai S, Devin CJ, Bydon M, Archer KR, McGirt MJ, Nian H, Harrell FE, Asher AL. Predictive Model for Discharge to Home after Elective Surgery for Lumbar Degenerative Disease: An Analysis from National Neurosurgery Quality Outcomes Database Registry. North American Spine Society 31<sup>st</sup> Annual Meeting. Boston, MA, October 28, 2016. **Abstract published Spine Journal 2016; 16(10):S292-293.**
48. Chotai S, Sivaganesan A, Parker SL, Sielatycki JA, Archer KR, Nian H, McGirt MJ, Devin CJ. Determining the Drivers of Variability in 90-Day Cost for Primary Single-Level Microdiscectomy. North American Spine Society 31st Annual Meeting. Boston, MA, October 28, 2016. **Abstract published Spine Journal 2016; 16(10):S349.**
49. Archer KR,\* Coronado RA, Ehde D, Vanston, SW, Koyami T, Phillips S, McGirt M, Spengler D, Aaronson OS, Cheng J, Devin CJ, Wegener ST. Fear of movement and self-efficacy mediate outcomes following a targeted rehabilitation intervention after spine surgery. American Physical Therapy Association: Combined Sections Meeting. San Antonio, TX, February 16, 2017. **Abstract published J Orthop Sports Phys Ther 2017;47(1): A3**
50. Archer KR,\* Wegener ST, Devin CJ, Vanston, SW, McGirt M, Spengler D, Aaronson OS, Cheng J, Smith K. Cost-effectiveness of cognitive-behavioral-based physical therapy after lumbar spine surgery. American Physical Therapy Association: Combined Sections Meeting. San Antonio, TX, February 16, 2017. **Abstract published J Orthop Sports Phys Ther 2017;47(1): A446.**



51. Asher AL, Chotai S, Devin CJ, Bydon M, McGirt MJ, Nian H, Harrell FE, Archer KR, Foley KT, Mummaneni P, Glassman S, Knightly JJ, Shaffrey C. Improvement in disability and quality of life and pain 12-months after elective spine surgery for degenerative cervical radiculopathy; analysis from quality outcome database. Southern Neurological Society 68<sup>th</sup> Annual Meeting. Orlando, FL, February 25, 2017.
52. Chotai S, Sivaganesan A, Sielaycki JA, Archer KR, Parker SL, McGirt MJ, Devin CJ. Surgeon-level variability in cost and outcomes for elective lumbar decompression and fusion. Southern Neurological Society 68<sup>th</sup> Annual Meeting. Orlando, FL, February 25, 2017.
53. Asher AL, Chotai S, Devin CJ, Bydon M, McGirt MJ, Nian H, Harrell FE, Archer KR, Foley KT, Mummaneni P, Glassman S, Knightly JJ, Shaffrey C. Comparative-effectiveness of single-level anterior cervical discectomy and fusion versus posterior cervical foraminotomy for patients with cervical radiculopathy: analysis from quality outcome database. Southern Neurological Society 68<sup>th</sup> Annual Meeting. Orlando, FL, February 25, 2017.
54. Bydon M, Chotai S, Devin CJ, McGirt MJ, Nian H, Harrell FE, Archer KR, Foley KT, Mummaneni P, Glassman S, Knightly JJ, Shaffrey C, Asher AL. Improvement in disability and quality of life and pain 12-months after elective spine surgery for degenerative cervical myelopathy; analysis from quality outcome database. Southern Neurological Society 68<sup>th</sup> Annual Meeting. Orlando, FL, February 25, 2017.
55. Sivaganesan A, Chotai S, Kim E, Archer KR, Bydon M, Asher A, Devin C. Comparison of 1 vs. 2 year Oswestry Disability Index Outcomes in Lumbar Spine Surgery from a Prospective Registry. 85<sup>th</sup> American Association of Neurological Surgeons Annual Meeting. Los Angeles, CA, April 24, 2017. **Abstract published Journal of Neurosurgery 2017;126 (4):A1394.**
56. Asher AL, Devin CJ, Chotai S, Bydon M, Sivaganesan A, McGirt MJ, Nian H, Archer KR, Harrell FE, Foley KT, Glassman SD, Shaffrey CI. Comparative-effectiveness of single-level anterior cervical discectomy and fusion vs. posterior cervical foraminotomy for patients with cervical radiculopathy: analysis from Quality Outcome Database. North American Spine Society 32<sup>nd</sup> Annual Meeting. New Orleans, LA, October 27, 2017. **Abstract published Spine Journal 2017; 17(10):S208-S209.**
57. Wick JB, Sivaganesan A, Chotai S, Archer KR, Posey S, Evans P, Devin CJ. Is there a preoperative morphine equianalgesic dose that predicts ability to achieve a clinically meaningful improvement following spine surgery. North American Spine Society 32<sup>nd</sup> Annual Meeting. New Orleans, LA, October 25, 2017. **Abstract published Spine Journal 2017; 17(10):S196. Selected for Resident and Fellow Research Award.**
58. Chotai S, Wei J, Sivaganesan A, Archer KR, Devin CJ. Pre-injection opioids use as a predictor of adverse post-injection patient-reported outcomes following epidural steroid injections for degenerative spine disease. North American Spine Society 32<sup>nd</sup> Annual Meeting. New Orleans, LA, October 27, 2017. **Abstract published Spine Journal 2017; 17(10):S119-120.**
59. Weisenthal B, Chotai S, Nian H, Archer KR, Harrell FE, Bydon M, Asher AL, Devin CJ. Utility of anxiety or depression domain of EQ-5D to define psychological distress in spine surgery. North American Spine Society 32<sup>nd</sup> Annual Meeting. New Orleans, LA, October 27, 2017. **Abstract published Spine Journal 2017; 17(10):S61.**
60. Archer KR,\* Wegener ST, Devin CJ, Vanston, SW, McGirt M, Spengler D, Aaronson OS, Cheng

J, Smith K. Cost-effectiveness of psychologically informed physical therapy in patients after lumbar spine surgery. North American Spine Society 32nd Annual Meeting. Orlando, FL, October 25, 2017. **Abstract published Spine Journal 2017;17(10):S61**

61. Archer KR,\* A. Simone Maybin, Inam Khan, Pennings J, Chotai S, Coronado R, Devin CJ. The Impact of Postoperative Physical Therapy on Patient-Reported Outcomes in Patients Undergoing Spine Surgery. North American Spine Society 33rd Annual Meeting. Los Angeles, CA, September 28, 2018.. **Abstract published Spine Journal 2018;18(8):S72. Selected for Resident and Fellow Research Award**
62. Archer KR,\* Skolasky R, Haug C, Coronado R, Pennings J, Vanston SW, Riley L, Spengler D, Aaronson OS, Cheng J, Devin C, Wegener ST. Is a Physical Therapist-Delivered Cognitive-Behavioral Intervention Effective for Improving Surgical Spine Outcomes? North American Spine Society 33rd Annual Meeting. Los Angeles, CA, September 27, 2018. **Abstract published Spine Journal 2018;18(8):S60-S61**
63. Khan I, Sivaganesan A, Asher AL, Kerezoudis P, Nian H, Harrell F, Bydon M, Archer KR, Devin CJ. Impact of Neck Disability Index on 12-Month Satisfaction after Elective Surgery for Cervical Radiculopathy. Cervical Spine Research Society 46<sup>th</sup> Annual Meeting, Scottsdale, AZ, December 7, 2018.
64. Hills J, Wick J, Pennings JS, Khan I, Sivaganesan A, Archer KR, Devin CJ. 30-Day Preoperative Opioid Dosage Predicts 12-Months Satisfaction in Cervical Spine Surgery. Cervical Spine Research Society 46<sup>th</sup> Annual Meeting, Scottsdale, AZ, December 7, 2018. **Selected for Resident Research Award**
65. Sivaganesan A, Asher AI, Bydon M, Khan I, Nian H, Harrell F, Archer KR, Devin CJ. How does everyone stack up? A risk-adjusted ranking scheme for surgeons performing ACDF for radiculopathy. Cervical Spine Research Society 46<sup>th</sup> Annual Meeting, Scottsdale, AZ, December 8, 2018.
66. Weisenthal B, Sivaganesan A, Chotai S, Khan I, Nian H, Harrell FE, Archer KR, Pennings J, Bydon M, Mummaneni PV, Asher AL, Foley KT, Devin CJ. Effect of Modified Japanese Orthopedic Association Scores on Satisfaction with Outcomes 12 Months After Elective Surgery for Cervical Spine Myelopathy. Cervical Spine Research Society 46<sup>th</sup> Annual Meeting, Scottsdale, AZ, December 8, 2018.
67. Archer KR,\* Patel A, McKernan L, Wegener ST, Coronado R. Preoperative and Postoperative Psychologically-Informed Physical Therapy: A Systematic Review of Randomized Trials among Patients with Degenerative Spine, Hip, or Knee Conditions. American Physical Therapy Association: Combined Sections Meeting. Washington, DC, January 26, 2019. **Abstract published J Orthop Sports Phys Ther 2019;49(1):CSM5**
68. Archer KR,\* Coronado R, Skolasky R, Haug C, Pennings J, Vanston S, Riley L, Neuman B, Cheng J, Aaronson O, Devin C, Wegener WT. Psychologically Informed Physical Therapy for Patients Following Lumbar Spine Surgery: A Randomized Clinical Trial. American Physical Therapy Association: Combined Sections Meeting. Washington, DC, January 24, 2019. **Abstract published J Orthop Sports Phys Ther 2019; 49(1):CSM5-CSM6**
69. Coronado R, Sklasky R, Haug C, Pennings J, Vanston S, Riley L, Neuman B, Cheng J, Aaronson O, Devin C, Wegener WT Archer KR,\* Prognostic and Moderating Role of Resilience and Risk Factors in Patients Receiving a Cognitive-Behavioral Based Physical Therapy Intervention After

Lumbar Spine Surgery. American Physical Therapy Association: Combined Sections Meeting. Washington, DC, January 24, 2019 **Abstract published J Orthop Sports Phys Ther 2019;49(1):CSM10**

70. Khan I, Bydon M, Archer KR, Sivagansean A, Asher AL, Devin CJ. Impact of Occupational Characteristics on Return to Work for Employed Patients after Elective Lumbar Surgery. Southern Neurological Society 70th Annual Meeting. Key Largo, FL, February 21, 2019
71. Khan I, Archer KR, Wanner JP, Bydon M, Pennings JS, Sivagansean A, Asher AL, Devin CJ. Trajectory of Improvement in Myelopathic Symptoms from 3- to 12-Months Following Surgery for Degenerative Cervical Myelopathy. Southern Neurological Society 70th Annual Meeting. Key Largo, FL, February 21, 2019
72. Khan I, Pennings JS, Sivagansean A, Asher A, Bydon M, Archer KR, Devin CJ. Does the Mode of Questionnaire Administration Matter for Satisfaction with Outcomes in Lumbar Spine Surgery? A Comparison Study of 32,014 Patients from National Scale Registry. Lumbar Spine Research Society 12<sup>th</sup> Annual Meeting. Chicago, IL, April 5, 2019.
73. Bydon M, Devin CJ, Alvi M, McGirt M, Archer KR, Foley K, Mummaneni P, Bisson E, Knightly J, Shaffrey C, Asher A, Chan A. A predictive model and nomogram for predicting return to work at 3 months after cervical spine surgery: an analysis from the quality outcomes database. American Association of Neurological Surgeons Annual Scientific Meeting, San Diego, CA, April 15, 2019. **Abstract published Journal of Neurosurgery 2019;13(1):24.**
74. Khan I, Hills J, Wick J, Pennings JS, Khan I, Sivaganesan A, Archer KR, Devin CJ. Preoperative and 1-Year Patient Reported Outcomes after Spine Surgery. American Association of Neurological Surgeons Annual Scientific Meeting, San Diego, CA, April 15, 2019. **Abstract published Journal of Neurosurgery 2019;13(1):27.**
75. Pennings JS, Devin CJ, Archer KR.\* PROMIS-29 Validity and Conversion Equation to Oswestry Disability Index (ODI) Using a National Sample of Lumbar Spine Surgery Patients. NASS Summer Spine Meeting. Honolulu, HI, August 1, 2019.
76. Pennings JS, Khan I, Devin CJ, Archer KR.\* Correlations Among PROMIS-29 Domains Before and After Lumbar Spine Surgery. NASS Summer Spine Meeting. Honolulu, HI, August 1, 2019.
77. Khan I, Devin CJ, Harrell FE, Pennings JS, Bydon M, Sivagansean A, Hui N, Archer KR.\* Predicting Disability and Pain Outcomes 1-Year after Elective Surgery for Degenerative Cervical Diseases: Analysis from Quality Outcomes Database. North American Spine Society 34th Annual Meeting. Chicago, IL, September 25, 2019. **Abstract published Spine Journal 2019;19(9): S6.**
78. Khan I, Archer KR, Wanner JP, Bydon M, Pennings JS, Sivagansean A, Devin CJ. Trajectory of Change in mJOA Score Within 1-Year Following Surgery for Degenerative Cervical Myelopathy North American Spine Society 34th Annual Meeting. Chicago, IL, September 25, 2019. **Abstract published Spine Journal 2019;19(9):S22-S23.**
79. Coronado RA, Pennings JS, Skolasky RL, Devin CJ, Archer KR.\* Resilience and Self-Efficacy are Protective Psychological Factors for 12 Month Outcomes after Lumbar Spine Surgery. North American Spine Society 34th Annual Meeting. Chicago, IL, September 25, 2019. **Abstract published Spine Journal 2019;19(9): S28-S29.**

80. Archer KR,\* Pennings JS, Khan I, Sivaganesan A, Wanner JP, Verholtz DR, Coronado RA, Devin CJ, Oleisky E. Does Post-operative Physical Therapy Improve Patient-Reported Outcomes at 1-year Following Cervical Spine Surgery? North American Spine Society 34<sup>th</sup> Annual Meeting, Chicago, IL September 27, 2019. **Abstract published Spine Journal 2019;19(9): S114-S115.**
81. Carlile C, Hills JM, Devin CJ, Archer KR, Pennings JS. Postoperative opioids and 1-year outcomes after spine surgery. North American Spine Society 34<sup>th</sup> Annual Meeting, Chicago, IL September 27, 2019. **Abstract published Spine Journal 2019;19(9):S40-S41.**
82. Khan I, Pennings JS, Sivaganesan A, Devin CJ, Archer KR.\* PROMIS-29 Validity and Conversion Equation to Neck Disability Index (NDI) using a National Sample of Cervical Spine Surgery Patients. Congress of Neurological Surgeons Annual Meeting. San Francisco, CA. October 22, 2019
83. Oleisky E, Pennings JS, Khan I, Sivaganesan A, Devin CJ, Archer KR.\* The Impact of Postoperative Physical Therapy on Patient-Reported Outcomes at 1-Year After Cervical Spine Surgery. Cervical Spine Research Society's 47<sup>th</sup> Annual Meeting. New York, NY, November 22, 2019.
84. Archer KR,\* Bydon M, Khan I, Nian H, Harrell F Jr, Pennings JS, Sivaganesan A, Chotai S, McGirt M, Foley KT, Glassman SD, Mummaneni PV, Bisson E, Knightly JJ, Shaffrey C, Asher AL, Devin CJ. Can We Predict A Patient's Arm Pain, Neck Pain, And Disability Level One Year After Cervical Spine Surgery For Radiculopathy? Cervical Spine Research Society's 47<sup>th</sup> Annual Meeting. New York, NY, November 22, 2019.
85. Archer KR,\* Bydon M, Khan I, Nian H, Harrell F Jr, Pennings JS, Sivaganesan A, Chotai S, McGirt M, Foley KT, Glassman SD, Mummaneni PV, Bisson E, Knightly JJ, Shaffrey C, Asher AL, Devin CJ. Predictive Models For Long-Term Patient-Reported Outcomes After Cervical Spine Surgery For Myelopathy: A National Study Of 2717 Patients. Cervical Spine Research Society's 47<sup>th</sup> Annual Meeting. New York, NY, November 23, 2019.
86. Master H, Pennings JS, Coronado RA, Robinette PE, Haug CM, Skolasky R, Riley LH, Neuman B, Cheng JS, Aaronson O, Devin CJ, Wegener ST, Archer KR.\* Early postoperative physical activity predicts clinical improvement in disability one-year following spine surgery. North American Spine Society 35<sup>th</sup> Annual Meeting, San Diego, CA, October 10, 2020.
87. METRC. A Prospective Randomized Trial to Assess Oral (PO) versus Intravenous (IV) Antibiotics for the Treatment of Post-op Wound Infection after Extremity Fractures (POvIV). Orthopaedic Trauma Association Annual Meeting. Nashville, TN, October, 1 2020

\*KR Archer – corresponding author.

#### **G. Peer-Reviewed Oral Presentation: Local**

1. Tourjee S, Obremskey WT, Castillo RC, Abraham CM, Phelps KD, Naik R, Archer KR.\* The Impact of Nerve Blocks on Opioid Use and Hospital Length of Stay in Patients with Traumatic Lower-Extremity Injury. 29th Annual Vanderbilt Research Forum, Nashville, TN, April 21, 2011. **Elliot V Newman prize for best oral presentation in the clinical sciences.**

2. Master H, Pennings JS, Coronado RA, Archer KR\*. Early post-operative physical activity predicts clinical improvement in disability one-year following spine surgery. 38th Annual Vanderbilt Research Forum, Nashville, TN, May 2, 2020. **Finalist for Elliot V Newman prize for best oral presentation in the clinical sciences.**

#### H. Peer Reviewed Poster Presentation: International

1. Pennings JS, Davidson C, Inam K, Devin CJ, Archer KR\*. Using PROMIS-29 to predict Neck Disability (NDI) scores using a national sample of cervical spine surgery patients. SpineWeek. Melbourne, Australia, May 1, 2020. (Conference cancelled)

#### I. Peer Reviewed Poster Presentation: National

1. Archer KR\*, Castillo RC, MacKenzie EJ, Bosse MJ. Perceived Need and Unmet Need for Mental Health Services Following Lower-Extremity Trauma. Academy Health Annual Research Meeting. Washington, DC, June 8-10, 2008.
2. Archer KR\*, Castillo RC, MacKenzie EJ, Bosse MJ. Perceived Need and Unmet Need for Mental Health Services Following Lower-Extremity Trauma. ACRM-ASNR Joint Educational Conference. Toronto, Ontario, October 15-19, 2008. **Abstract published in Archives of Physical Medicine and Rehabilitation 2008;89(10):e51.**
3. Archer KR\*, Wegener WT, Seebach C, Skolasky R, Thornton C, Khanna AJ, Riley LH. Effects of Fear-Avoidance Beliefs on Pain and Disability after Spine Surgery. North American Spine Society 24<sup>th</sup> Annual Meeting. San Francisco, CA, November 10-14, 2009. **Abstract published in Spine Journal 2009;9(10):S174.**
4. Freehill MT, Srikumaran U, Archer KR, McFarland EG, Petersen SA. Significant Neuroanatomic Changes Resulting from the Latarjet Procedure. American Academy of Orthopaedic Surgeons Annual Meeting. San Diego, CA, February 15-19, 2011.
5. Archer KR\*, Phelps K, Seebach C, Song Y, Riley LH, Wegener ST. Measuring Postoperative Fear of Movement/(Re)injury: Evidence for a Shortened Version of The Tampa Scale for Kinesiophobia in a Surgical Spine Population. American Pain Society 30<sup>th</sup> Annual Scientific Meeting. Austin, TX, May 19-21, 2011. **Abstract published Journal of Pain 2011;12(4):P16.**
6. Archer KR\*, Castillo RC, Wegener ST, Abraham C, Obremskey W. Pain and Satisfaction with Pain Management in Hospitalized Trauma Patients. Academy Health Annual Research Meeting. Disability Research Interest Group Meeting, Seattle, WA, June 11, 2011.
7. Tourjee S, Obremskey WT, Castillo RC, Abraham CM, Phelps KD, Naik R, Archer KR\*. The Impact of Nerve Blocks on Opioid Use and Hospital Length of Stay in Patients with Traumatic Lower-Extremity Injury. 70th Annual Meeting of the American Association for the Surgery of Trauma and Clinical Congress of Acute Care Surgery. Chicago, IL, September 14-17, 2011.
8. Tourjee S, Obremskey WT, Castillo RC, Abraham CM, Phelps KD, Naik R, Archer KR\*. The Impact of Nerve Blocks on Opioid Use and Hospital Length of Stay in Patients with Traumatic Lower-Extremity Injury. Orthopaedic Trauma Association 27<sup>th</sup> Annual Meeting. San Antonio, TX, October 12-15, 2011.
9. Morris BJ, Unger RZ, Archer KR, Mathis SL, Perdue AM, Obremskey WT. Predictors of Infection after ORIF of Bicondylar Tibia Plateau Fractures. Orthopaedic Trauma Association 27th Annual Meeting. San Antonio, TX, October 12-15, 2011.

10. Archer KR,\* Seebach C, Riley LH, Wegener ST. Patients' Expectations and Satisfaction after Surgery for Lumbar and Cervical Degenerative Conditions. North American Spine Society 26<sup>th</sup> Annual Meeting. Chicago, IL, November 2-5, 2011. **Abstract published Spine Journal 2011;11(10): S126-S127.**
11. Kadakia RJ, Tsahakis J, Issar N, Archer KR, Jahangir A, Sethi M, Obremskey W, Mir H. Health Literacy in an Orthopaedic Trauma Patient Population: A Cross Sectional Survey of Patient Comprehension. American Orthopaedic Association 125<sup>th</sup> Annual Meeting. Washington, DC. June 27-30, 2012.
12. Moore DC, Yoneda ZT, Jahangir A, Archer KR, Ehrenfeld JM, Obremskey WT, Sethi M. Gunshot victims at a Major Level 1 Trauma Center: A Retrospective Cohort Study. American Orthopaedic Association 125<sup>th</sup> Annual Meeting. Washington, DC, June 27-30, 2012.
13. Kadakia RJ, Tsahakis JM, Issar NM, Archer KR, Jahangir AA, Sethi MK, Obremskey WT, Mir HR. Health Literacy in an Orthopaedic Trauma Patient Population: Improving Patient Comprehension with Informational Intervention. Orthopaedic Trauma Association 28<sup>th</sup> Annual Meeting. Minneapolis, MN, October 3-6, 2012.
14. Archer KR,\* Castillo RC, Wegener ST, Abraham CM, Heins SE, Obremskey WT. Development of a Postoperative Pain Tool for Orthopaedic Trauma Surgery. Orthopaedic Trauma Association 28<sup>th</sup> Annual Meeting. Minneapolis, MN, October 3-6, 2012.
15. Morris BJ, Richards JE, Archer KR, Lasater M, Rabalais D, Wedel C, Hill RW, Sethi MK, Jahangir AA. A Prospective Randomized Double-Blind Control Trial Assessing Patient Satisfaction in Orthopaedic Trauma Population. Orthopaedic Trauma Association 29<sup>th</sup> Annual Meeting. Minneapolis, MN, October 3-6, 2012.
16. Tomlinson C, Coon K, MacKenzie A, Archer KR. Improving Outcomes in Patients with Muscle Tension Dysphonia: A Myofascial Release and Exercise Program. American Physical Therapy Association: Combined Sections Meeting. San Diego, CA, January 21-24, 2013. **Abstract published J Orthop Sports Phys Ther 2013;43(1):A70.**
17. Archer KR,\* Mathis SL, Devin CJ, Spengler DM, McGirt MJ, Aaronson OS, Cheng JS, Wegener ST. Cognitive Behavioral Based Physical Therapy: Improving Surgical Spine Outcomes. 8<sup>th</sup> Annual NIH Pain Consortium Symposium on Advances in Pain Research. Bethesda, MD, May 29-20, 2013.
18. Morris BJ, Zumsteg JW, Cash B, Archer KR, Mir H. Narcotic Use and Postoperative Doctor Shopping in the Orthopaedic Trauma Population. American Academy of Orthopaedic Surgeons Annual Meeting. New Orleans, LA, March 11-15, 2014.
19. Armaghani S, Lee D, Archer KR, Bible J, Shau D, Kay H, Zhang C, McGirt M, Devin C. Preoperative Narcotic Use and its Relation to Depression and Anxiety in Patients Undergoing Spine Surgery. American Academy of Orthopaedic Surgeons Annual Meeting. New Orleans, LA, March 11-15, 2014.
20. Heins S, Castillo RC, Wegener ST, Abraham C, Obremskey WT Archer KR,\* The Course of Hospital Pain Following Orthopaedic Trauma Surgery. 33<sup>rd</sup> Annual Scientific Meeting of the American Pain Society. Tampa, FL, May 2, 2014. **Abstract published Journal of Pain 2014; 15(4):S13.**

21. Archer KR,\* Castillo RC, Abraham C, Heins S, Obremskey WT, Wegener ST. Development of a Multidimensional Postoperative Pain Scale (MPOPS) for the Hospital Setting. 33<sup>rd</sup> Annual Scientific Meeting of the American Pain Society. Tampa, FL, May 2, 2014. **Abstract published Journal of Pain 2014;15(4 Suppl):S13.**
22. Archer KR,\* Mathis S, Vanston S, Devin C, Spengler D, McGirt M, Cheng J, Aaronson O, Wegener ST. A Cognitive-Behavioral Based Self-Management Approach to Physical Therapy: Improving Surgical Spine Outcomes. 33<sup>rd</sup> Annual Scientific Meeting of the American Pain Society. Tampa, FL, May 2, 2014. **Abstract published Journal of Pain 2014;15 (4 Suppl):S1.**
23. Morris BJ, Zumsteg JW, Cash B, Archer KR, Mir H. Narcotic Use and Postoperative Doctor Shopping in the Orthopaedic Trauma Population. AOA/COA Combined Meeting. Montreal, QC, Canada, June 19, 2014.
24. Kadakia RJ, Kay HF, Ehrenfeld J, Kripalani S, Idrees K, Archer KR, Mir HR. Timing, Incidence, and Risk Factors Associated with Unplanned Postoperative Hospital Readmissions in the Orthopaedic Trauma Patient Population. Orthopaedic Trauma Association 30<sup>th</sup> Annual Meeting. Tampa, FL, October 18, 2014.
25. Kadakia RJ, Kay HF, Ehrenfeld J, Kripalani S, Idrees K, Archer KR, Mir HR. Surgical Apgar Score is Associated With Postoperative Complications in the Orthopaedic Trauma Patient Population. Orthopaedic Trauma Association 30<sup>th</sup> Annual Meeting. Tampa, FL, October 18, 2014.
26. Parker SL, Godil SS, Archer KR, Vanston S, Wegener S, Devin CJ. Patient Reported Outcome Measures Collected via Telephonic Interviews versus Self-Administered Forms after Lumbar Spine Surgery: Does Data Collection Methodology Make a Difference? North American Spine Society 29<sup>th</sup> Annual Meeting. San Francisco, CA, November 13, 2014. **Abstract published Spine Journal 2014;14(11 Suppl):S159-160.**
27. Delisca GO, Mesko NW, Alamanda VK, Archer KR, Song Y, Halpern JL, Schwartz HS, Holt GE. MFH and High-Grade Undifferentiated Pleomorphic Sarcoma – What’s in a Name? American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting. Las Vegas, NV, March 24-28, 2015.
28. Archer KR,\* Wegener ST, Vanston SW, Aaronson O, Cheng J, Devin CJ. Performance-Based Tests as Predictors of Substantial Clinical Benefit Following Spine Surgery. 83<sup>rd</sup> American Association of Neurological Surgeons Annual Scientific Meeting, Washington, D.C, May 2-6, 2015
29. Archer KR,\* Wegener ST, Vanston SW, Aaronson O, Cheng J, Devin CJ. Performance-Based Tests and Patient Satisfaction Following Spine Surgery: A Longitudinal Analysis. 83<sup>rd</sup> American Association of Neurological Surgeons Annual Scientific Meeting, Washington, D.C, May 2-6, 2015
30. Armaghani SJ, Archer KR, Rolfe R, Demaio DN, Devin CJ. Diabetes Predicts Worse Patient-Reported Outcomes at 2 Years following Spine Surgery. 83<sup>rd</sup> American Association of Neurological Surgeons Annual Scientific Meeting, Washington, D.C, May 2-6, 2015
31. Armaghani SJ, Archer KR, Rolfe R, Demaio DN, Devin CJ. The Presence of Diabetes

and its Association with Complications and Length of Stay in Patients Undergoing Spine Surgery. 83rd American Association of Neurological Surgeons Annual Scientific Meeting, Washington, D.C, May 2-6, 2015.

32. Coronado RA, George SZ, Wegener ST, Devin CJ, Cheng JS, Aaronson OS, Archer KR.\* Postoperative Pain Catastrophizing and Pressure Pain Sensitivity as Risk Factors for Persistent Pain and Disability in Patients after Lumbar Spine Surgery. 34th Annual Scientific Meeting of the American Pain Society. Palm Springs, CA, May 14, 2015. **Abstract published Journal of Pain 2015;16 (4 Suppl):S15.**
33. Archer KR,\* Reinke E, Huston LJ, Bird M, Scaramuzza E, Coronado R, Haug C, Vanston SW, Spindler KP. Impact of Preoperative Expectations and Fear of Movement on Return to Sport and KOOS Scores at 6 Months following ACL Reconstruction. American Orthopaedic Society for Sports Medicine, 2015 Annual Meeting. Orlando, FL, July 9-12, 2015.
34. Michels KA, Hartmann KE, Archer KR, Ye F, Edwards DR. Uterine fibroid severity, pain, and bleeding in the first trimester. Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting. Denver, CO, June 16, 2015.
35. Banks SD, Coronado RA, Haislip L, Abraham CM, Conrad BN, Morgan VL, Archer KR\*. Thalamic functional connectivity in mild traumatic brain injury. Annual Conference of the American Congress on Rehabilitation Medicine, Dallas, TX, October 2015. **Abstract published in Archives of Physical Medicine and Rehabilitation 2015;96(10):e51-52.**
36. Armaghani SJ, Archer KR, Rolfe R, Demaio DN, Devin CJ. Diabetes Predicts Worse Patient-Reported Outcomes at 2 Years following Spine Surgery. North American Spine Society 30<sup>th</sup> Annual Meeting. Chicago, IL, October 14, 2015. **Abstract published Spine Journal 2015;15 (10):S206.**
37. Archer K,\* Devin CJ, Chotai S, Bydon M, McGirt MJ, Nian H, Harell FE, Asher AL. Predictive Model for Return to Work after Elective Surgery for Lumbar Degenerative Disease: An Analysis From National Neurosurgery Quality Outcomes Database Registry. North American Spine Society 31st Annual Meeting. Boston, MA, October 27, 2016. **Abstract published Spine Journal 2016; 16(10):S371-S372.**
38. Coronado RA, Bird M, Van Hoy E, Huston L, Spindler K, Archer KR.\* The effects of psychosocial interventions on patient-reported outcomes after anterior cruciate ligament reconstruction: a systematic review of randomized controlled clinical trials. American Physical Therapy Association: Combined Sections Meeting. San Antonio, TX, February 17, 2017. **Abstract published J Orthop Sports Phys Ther 2017;47(1):A174.**
39. Coronado RA, Devin CJ, Van Hoy E, Haug Cm Vanston S, Aaronson O, Archer KR.\* Clinical efficacy and safety of an early home exercise program after anterior cervical discectomy and fusion: a case series. American Physical Therapy Association: Combined Sections Meeting. San Antonio, TX, February 17, 2017. **Abstract published J Orthop Sports Phys Ther 2017;47(1): A79.**
40. Chotai S, Sivaganesan A, Sielatycki JA, Archer KR, McGirt MJ, Devin CJ. Surgeon-level variability in cost and outcomes for elective lumbar decompression-fusion. North American Spine Society 32nd Annual Meeting. New Orleans, LA, October 25, 2017. **Abstract published Spine Journal 2017;17(10):S259-S260.**



41. Pennings JS, Abraham CM, Clemons L, Vanston SW, Jackson JC, Ely EW, Guillaumondegui O, Obremskey WT, Archer KR.\* Goal management training and mindfulness for patients with mild traumatic brain injury: A randomized controlled trial. American Psychological Association Convention, San Francisco, CA, August 9, 2018.
42. Maybin S, Pennings J, Archer KR.\* The impact of postoperative physical therapy on patient-reported outcomes in patient undergoing spine surgery. AAPM&R Annual Assembly. Orlando, FL. October 26, 2018. **Abstract published PM&R 2018;10(9S1):S41.**
43. Coronado RA, Devin CJ, Pennings JS, Vanston SW, Fenster DE, Hills J, Aaronson O, Scwarz JP, Stephens BF, Archer KR.\* Safety and Efficacy of an Early Exercise Program after Anterior Cervical Discectomy and Fusion: A Pilot Randomized Controlled Trial. Cervical Spine Research Society 46<sup>th</sup> Annual Meeting, Scottsdale, AZ, December 8, 2018.
44. Vanston S, Fenster D, Sterling E, Coronado R, Heritage AJ, Woosley V, Henry A, Huston L, Cox C, Sullivan J, Spindler K, Archer KR.\* Psychologically informed physical therapy to enhance return to sport after ACLR: a case series. American Physical Therapy Association: Combined Sections Meeting. Washington, DC, January 26, 2019. **Abstract published J Orthop Sports Phys Ther 2019;49(1):CSM203-CSM204**
45. Van Wyngaarden J, Archer KR, Noehren B. Change in patient-reported psychological measures 1, 6, and 12 weeks after definitive fixation for patients with lower extremity fracture. American Physical Therapy Association: Combined Sections Meeting. Washington, DC, January 26, 2019. **Abstract published J Orthop Sports Phys Ther 2019;49(1):CSM148**
46. Van Wyngaarden J, Noehren B, Archer KR. Reliability and validity of a modified start tool for patients with lower extremity fracture. American Physical Therapy Association: Combined Sections Meeting. Washington, DC, January 26, 2019. **Abstract published J Orthop Sports Phys Ther 2019;49(1):CSM147-CSM148**
47. Coronado R, Devin CJ, Pennings JS, Fenster D, Vanston V, Hills J, Aaronson O, Schwarz J, Stephens B, Archer KR.\* The safety and efficacy of an early physical therapist-delivered, telephone-based home exercise program after anterior cervical discectomy and fusion: a randomized controlled trial. American Physical Therapy Association: Combined Sections Meeting. Washington, DC, January 26, 2019. **Abstract published J Orthop Sports Phys Ther 2019;49(1):CSM84**
48. Van Wyngaarden J, Archer KR, Jacobs C, Matsuzewski P, Noehren B. Can Psychosocial Screening Predict the Transition to Chronic Pain Six Months after Lower Extremity Trauma. 2019 Orthopaedic Trauma Association Annual Meeting. Denver, CO, September 25, 2019
49. Van Wyngaarden J, Archer KR, Jacobs C, Matsuzewski P, Noehren B. Can External Fixator Use Influence Patients' Experience of Pain? 2019 Orthopaedic Trauma Association Annual Meeting. Denver, CO, September 25, 2019
50. Levy J, Reider L, MacKenzie eJ, Lissovoy G, Scharfstein D, Pollak AN, Firoozabadi R, Morshed S, Jones CB, Gary J, Quinnen S, Archer KR, Kempton L, O'Toole R, Keita M, Bosse MJ. The Economic Impact of Work and Productivity Loss following High Energy Lower Extremity Trauma. 2019 Orthopaedic Trauma Association Annual Meeting. Denver, CO, September 25, 2019

51. Archer KR,\* Asher AM, Pennings JS, Khan I, Sivaganesan A, Bydon M, Devin CJ, Asher AL. Clinically Relevant Percent Reduction (CRPR): A New Definition of Clinically Significant Change for Lumbar Spine Surgery. North American Spine Society 34th Annual Meeting. Chicago, IL, September 26 2019. **Abstract published Spine Journal 2019;19(9): S222.**
52. Pennings J, Bydon M, Khan I, Sivaganesan A, Devin CJ, Asher AL, Archer KR.\* Promis-29 Validity And Conversion Equation To Neck Disability Index (Ndi) Using A National Sample Of Cervical Spine Surgery Patients. Cervical Spine Research Society's 47<sup>th</sup> Annual Meeting. New York, NY, November 21, 2019.
53. Archer KR,\* Asher AM, Pennings JS, Khan I, Sivaganesan A, Bydon M, Devin CJ, Asher AL. Defining Clinically Relevant Improvement for Patients Following Cervical Spine Surgery: Percent Reducation vs. MCID. Cervical Spine Research Society's 47<sup>th</sup> Annual Meeting. New York, NY, November 21, 2019.
55. McCormack L, Dolor R, Dewey C, Walters J, Bowlby L, DeFrank J, INSPIRE Study. Implementing shared decision-making training for clinicians prescribing opioids to chronic noncancer patients. Rx Drug Abuse and Heroin Summit, 2020 Virtual Summit, April 16, 2020.
56. Davidson C, Pennings JS, Archer KR, Khan I, Chotai S, Goyal A, Alvi M, Knightly JJ, Moshel Y, Asher AL, Kalkanis S, Heilman C, Wu J, Roguski M, DiNapoli V, Moulding H, Upadhyaya C, Mukherjee D, Bydon M. Development and Pilot Implementation of a Brain Tumor Registry: Lessons Learned Thus Far. American Association of Neurological Surgeons Annual Scientific Meeting: World of Neurosurgery. Boston, MA, April 25, 2020. (Conference cancelled)
57. Abbenhaus EJ, Noehren B, Van Wyngaarden J, Archer KR, Jacobs C, Matuszewski P. External Fixator Use Influences Patients' Experience of Pain One Year after Definitive Fixation. Orthopaedic Trauma Association Annual Meeting. Nashville, TN, October, 1 2020

\*KR Archer – corresponding author.

#### **J. Peer Reviewed Poster Presentation: Local**

1. Unruh KP, Richards JE, Archer KR, Cannada LA, Obremskey WT, Bosse MJ. Recombinant Human Morphogenetic Protein-2 (rhBMP-2) Versus Iliac Crest Autograft to Treat Tibia Nonunion: A Retrospective Multi-Center Study. 29th Annual Vanderbilt Research Forum. Nashville, TN, April 21, 2011.
2. Morris BJ, Zumsteg JW, Cash B, Archer KR, Mir H. Narcotic Use and Postoperative Doctor Shopping in the Orthopaedic Trauma Population. GME Research Forum Poster Session, Vanderbilt University Medical Center. April 18, 2013.
3. Coronado RA, Banks SD, Haislip L, Abraham CM, Conrad BN, Morgan VL, Archer KR.\* Thalamic functional connectivity in mild traumatic brain injury. Postdoctoral Association and Shared Resource Symposium, Nashville, TN, April 28, 2015.
4. Coronado RA, Reinke EK, Withrow LJ, Bird ML, Scaramuzza EA, Haug CM, Vanston SW, Spindler KP, Archer KR.\* Impact of Preoperative Expectations and Fear Movement on Return to Sport and KOOS Scores at 6 Months following ACL Reconstruction. 30th Annual Vanderbilt Research Forum, Nashville, TN, April 2, 2015. **Prize for best clinical poster presentation.**

## K. On-line Articles and Press

1. The Mind/Body Connection: Cognitive behavioral-based therapy to improve surgical spine outcomes. By, Cindy Sanders. Nashville Medical News. August 12, 2013. [https://issuu.com/southcomm/docs/nmn\\_aug13\\_](https://issuu.com/southcomm/docs/nmn_aug13_)
2. Study explores best ways to manage spine surgery patients. By, Leslie Hill. Vanderbilt Reporter. March 6, 2014. <http://news.vanderbilt.edu/2014/03/study-explores-best-ways-to-manage-spinal-surgery-patients/>
3. Study: fear, not pain, causing problems with spine surgery. By, Elizabeth Hofheinz, MPH, MEd. Orthopaedics. January 13, 2016. <https://ryortho.com/breaking/study-fear-not-pain-causing-problems-with-spine-surgery/>
4. Archer KR, Bederman S, Chotai S, Dagenais S, Flamm CR, Ghogawala Z, Hey LA, Karlen E, Przybylksi GJ, Turner TC. Balancing quality with cost in spine care: strategies and challenges. SpineLine. March-April 2016, pages 18-21. [www.spine-line-digital.org](http://www.spine-line-digital.org)
5. Coping after spine surgery? Focus on your fear, not the pain. North American Spine. April 6, 2016. <https://northamericanspine.com/blog/coping-after-spine-surgery-focus-on-your-fear-not-the-pain/>
6. Effort aims to measure resiliency in injured soldiers. By, Tom Wilemon. Vanderbilt Reporter. October 20, 2016. <https://news.vanderbilt.edu/2016/10/20/effort-aims-to-measure-resiliency-in-injured-soldiers/>
7. Study seeks to reduce opioid use for chronic pain. By, Tom Wilemon. Vanderbilt Reporter. November 30, 2017. <https://news.vanderbilt.edu/2017/11/30/study-seeks-to-reduce-opioid-use-for-chronic-pain/>
8. More recover, less disability focus of new musculoskeletal research center. By, Bill Snyder. Vanderbilt Reporter. July 18, 2019. [http://news.vumc.org/2019/07/18/more-recovery-less-disability-focus-of-new-research-center/?\\_ga=2.240472710.489663492.1565743726-939347966.1565743726](http://news.vumc.org/2019/07/18/more-recovery-less-disability-focus-of-new-research-center/?_ga=2.240472710.489663492.1565743726-939347966.1565743726)
9. Opioid Reduction: Comparing Behavioral Health Interventions More recover, less disability focus of new musculoskeletal research center. Discover. November 6, 2019. <https://discover.vumc.org/2019/11/opioid-reduction-comparing-behavioral-health-interventions/>

## L. Invited Peer-Reviewed Symposium and Pre-Conference Course: International

1. Symposium Speaker: "Prehabilitation and Postoperative Rehabilitation – What Do We Really Know?" **46<sup>th</sup> Annual International Society for the Study of the Lumbar Spine Annual Meeting**. Kyoto, Japan, June 4, 2019
2. Symposium Speaker: "Communication and Implementation of Psychologically-informed Care for Musculoskeletal Pain." **2021 World Congress on Pain**. Amsterdam, Netherlands, July 28, 2021

## M. Invited Peer-Reviewed Symposium and Pre-Conference Course: National

1. Invited Moderator: "Reprioritizing Rehabilitation Research Topics." **Extremity War Injuries VII: Decade at War: Evolution of Orthopaedic Combat Casualty Care**. Washington, DC, January 20, 2012.

2. Invited Moderator: "Spine Platform." **American Physical Therapy Association: Combined Sections Meeting.** Chicago, IL, February 9, 2012.
3. Faculty Member and Symposium Speaker: "Developing an Orthopaedic Research Agenda for Early Investigators." **American Physical Therapy Association: Combined Sections Meeting.** San Diego, CA, January 20, 2013.
4. Faculty Member and Symposium Speaker: "Reducing Disability from Low Back Pain: Highlights of Primary, Secondary, and Tertiary Prevention." **American Pain Society 32nd Annual Scientific Meeting.** New Orleans, LA, May 9, 2013.
5. Faculty Member and Invited Symposium Speaker: "Innovative Delivery of Pain Self-Management Programs." **American Congress of Rehabilitation Medicine Annual Conference.** Orlando, FL, November 14, 2013.
6. Faculty Member: "Clinical Research: Writing Papers." Early Career Forum, **American Pain Society 33rd Annual Scientific Meeting.** Tampa, FL, April 30, 2014.
7. Faculty Member and Symposium Speaker: "Innovative Delivery of Pain Self-Management Programs." **American Pain Society 33rd Annual Scientific Meeting.** Tampa, FL, May 2, 2014.
8. Faculty Member and Symposium Speaker: "Innovative Delivery Methods to Improve Access to Low-cost, High Quality Spine Care." **North American Spine Society 30<sup>th</sup> Annual Meeting.** Chicago, IL, October 15, 2015.
9. Faculty Member and Symposium Speaker: "Changing Behavior through Physical Therapy: Improving Patient Outcomes." **American Physical Therapy Association: Combined Sections Meeting.** Anaheim, CA, February 18, 2016.
10. Faculty Member and Symposium Speaker: "Changing Behavior through Physical Therapy: Improving Patient Outcomes." **North American Spine Society Annual Meeting.** Boston, MA October 29, 2016.
11. Faculty Member and Symposium Speaker: "Bringing Pain and Psychosocial Factors to The Forefront of Sports Rehabilitation." **American Physical Therapy Association: Combined Sections Meeting.** Anaheim, CA, February 18, 2017.
12. Faculty Member and Symposium Speaker: "Bio-psychosocial Mechanisms Contributing to The Benefits of Non-pharmacologic Treatments for Chronic Pain." **American Pain Society 35th Annual Scientific Meeting.** Pittsburgh, PA, May 17, 2017.
13. Faculty Member and Pre-Conference Speaker: "Integrating Cognitive-Behavioral Skills into Clinical Practice." **NEXT 2017 Conference and Exposition.** Boston, MA, June 21, 2017.
14. Faculty Member and Pre-Conference Speaker: "Keep Calm and Treat Pain – from research to clinical practice" **American Physical Therapy Association: Combined Sections Meeting.** New Orleans, LA, February 20, 2018.
15. Faculty Member and Symposium Speaker and Moderator: "eHealth Technology for Rehabilitation: Telemedicine, Internet and Mobile Health Applications." **American Physical Therapy Association: Combined Sections Meeting.** New Orleans, LA, February 23, 2018.

16. Faculty Member and Symposium Speaker: "Linking CoHSTAR Research Activities to Priorities of the Physical Therapy Profession." **NEXT 2018 Conference and Exposition**. Orlando, FL, June 28, 2018.
17. Faculty Member and Symposium Speaker: "Employing Comprehensive Spine Care: From Midfulness to Procedure Table." **American Congress of Rehabilitation Medicine**. Dallas, TX, September 30, 2018.
18. Faculty Member and Symposium Speaker: "Employing Comprehensive Spine Care." **AAPM&R Annual Assembly**. Orlando, FL, October 26, 2018.
19. Faculty Member and Symposium Speaker: "Integrating Positive Psychology into Musculoskeletal Pain Management." **American Physical Therapy Association: Combined Sections Meeting**. Washington, DC, January 24, 2019.
20. Faculty Member and Symposium Speaker: "Bringing pain and psychosocial factors to the forefront of rehabilitation." **NEXT 2019 Conference and Exposition**. Chicago, IL June 15, 2019.
21. Faculty Member and Symposium Speaker: "Optimization for Spinal Surgery." **North American Spine Society 34<sup>th</sup> Annual Meeting**. Chicago, IL, September 26, 2019.
22. Faculty Member and Symposium Speaker: "Rehab to Optimize Outcomes: Getting Our Patients Back on Their Feet." Orthopaedic Trauma Association Annual Meeting. Nashville, TN, October 2, 2020.

#### **N. Invited Seminars/Lectures**

1. "Determinants of Referral to Physical Therapy: Influence of Patient Work Status, Pain Level and Physician Efficacy Beliefs." **University of Maryland School of Medicine**. Baltimore, MD, May 9, 2008.
2. "Perceived Need and Unmet Need for Support Services Following Lower-Extremity Trauma." **Academy Health Annual Research Meeting**. Disability Research Interest Group. Washington, DC, June 10, 2008.
3. "Enhancing Clinical Practice through the Identification and Management of Psychosocial Risk Factors." **Tennessee Physical Therapy Association**, Nashville District Meeting. Nashville, TN, November 3, 2011.
4. "Strategies for Improving Surgical Outcomes: Pain, Depression, and Other Psychological Factors." **Tennessee Physical Therapy Association**, Spring Meeting. Nashville, TN, March 30, 2012.
5. "Cognitive-Behavioral Based Physical Therapy (CBPT): Improving Surgical Spine Outcomes." **U.S Bone and Joint Young Investigators Workshop**. Toronto, ON, April 14, 2012.
6. "Improving Patient Outcomes: Identifying and Managing Psychosocial Risk Factors." **Belmont University**, School of Physical Therapy. Nashville, TN, October 9, 2012.
7. "Psychosocial Factors Related to Postoperative Recovery." **University of Alabama at Birmingham**, School of Health Professions. Birmingham, AL, March 28, 2013.

8. "Psychosocial Factors: Improving Patient Outcomes." **Belmont University**, School of Physical Therapy. Nashville, TN, September 3, 2013.
9. "Models and Methods in Behavioral Intervention Development: Improving Spine Surgery Outcomes." **Johns Hopkins Bloomberg School of Public Health**, Department of Health Policy and Management. Baltimore, MD, December 25, 2013.
10. "Innovative Delivery of Physical Therapy: Improving Spine Surgery Outcomes." **University of Southern California**, Division of Biokinesiology & Physical Therapy. Los Angeles, CA, March 3, 2014.
11. "Cognitive-Behavioral Physical Therapy: Improving Spine Surgery Outcomes." **University of Colorado Denver**, Physical Therapy Program. Denver, CO, April 14, 2014.
12. "Integrating Behavioral Self-Management Strategies and Physical Activity to Improve Surgical Spine Outcomes." **Academy Health Annual Research Meeting**, Behavioral Health Interest Group Meeting. San Diego, CA, June 7, 2014.
13. "Psychosocial Factors and Psychologically Informed Physical Therapy." **Belmont University**, School of Physical Therapy. Nashville, TN, September 2, 2014.
14. "Chronic Pain and Predictors of Chronic Pain in Trauma Survivors." **Tennessee Orthopaedic Trauma Symposium**. Nashville, TN, November 1, 2014.
15. "Biopsychosocial Rehabilitation: Opportunities and Challenges." **University of Colorado Denver**, Keynote Speaker: Physical Therapy Research Retreat. Denver, CO, April 27, 2015.
16. "Improving Patient Outcomes: Psychologically Informed Physical Therapy." **Feinberg School of Medicine, Northwestern University**, Department of Physical Therapy and Human Movement Sciences, Grand Rounds. Chicago, IL, July 23, 2015.
17. "Integrating Behavioral Self-Management Strategies and Physical Activity to Improve Surgical Spine Outcomes." **American Physical Therapy Association Retreat**, Section of Research. Smithfield, RI, July 28, 2015.
18. "Cognitive-Behavioral Based Physical Therapy (CBPT): Improving Surgical Spine Outcomes." **Johns Hopkins Medicine**, Department of Neurosurgery. Baltimore, MD, November 13, 2015.
19. "Prospective Spine Surgery Registry: Advancing Patient-Centered Care." **University of North Carolina**, Sheps Center for Health Services Research. Chapel Hill, NC, April 4, 2016
20. "Cost-effectiveness Analysis for Cognitive-Behavioral Based Physical Therapy (CBPT)." **CoHSTAR Summer Institute on Health Services Research**. Boston, MA, June 28, 2016.
21. "Behavior Change and Motivational Interviewing." **University of Colorado Denver**, Physical Therapy Program. Denver, CO, July 25 and 26, 2016.
22. "Transform your Clinical Practice: Integrating Cognitive Behavioral and Motivational Interviewing Skills for Physical Therapy. Marquette lecture, **University of Colorado Denver**, Physical Therapy Program. Denver, CO, April 1, 2017.
23. "An Integrative, Evidence-based Approach to Care of Persons with Chronic Pain." **Mountain**

**Area Health Education Center (MAHEC) Regional Services.** Asheville, NC, April 21, 2017.

24. "Behavior Change and Motivational Interviewing." **University of Colorado Denver**, Physical Therapy Program. Denver, CO, July 17 and 18, 2017.
25. "Rethinking Rehabilitation to Improve Patient Outcomes: Is it time for something new?" **Johns Hopkins Medicine**, Department of Orthopedic Surgery, Grand Rounds. Baltimore, MD, October 5, 2017. **Lee H Riley, Jr Visiting Professor Lecture**
26. "Integrating Cognitive Behavioral Skills into Clinical Practice." **St. Elizabeth Healthcare**. Erlanger, KY. November 3, 2017
27. "Controversies in Pain Management: Changing Behaviors, Changing Outcomes." **East Tennessee State University**. Johnson City, TN. April 6, 2018
28. "Pragmatic Clinical Trial Design." **San Diego State University**, School of Exercise and Nutritional Sciences. San Diego, CA. December 18, 2018
29. "Telehealth Rehabilitation to Improve Patient Outcomes." **Duke University**, Department of Orthopedic Surgery, Orthopaedic and Rehabilitation Seminar Series, Durham, NC, June 28, 2020

**O. Seminars at Vanderbilt University**

1. "Improving Patient Outcomes: Psychosocial Aspects of Pain and Disability." Department of Orthopaedic Surgery, Grand Rounds, Vanderbilt University Medical Center. September 18, 2009.
2. "Evidence-Based Medicine." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. November 13, 2009.
3. "Introduction to Grant Writing." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. March 19, 2010.
4. "Clinical Research: Study Design and Methodology." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. March 26, 2010.
5. "Introduction to Statistics: STATA 101." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. April 9, 2010.
6. "Advanced Statistical Modeling using STATA." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. April 16, 2010.
7. "Introduction to Methods and Statistical Analysis for Research Projects." Center for Bone Biology, Vanderbilt University Medical Center. February 18, 2011.
8. "Introduction to Grant Writing." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. February 25, 2011.
9. "Clinical Research: Study Design and Methodology." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. May 13, 2011.
10. "Introduction to Grant Writing." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. September 14, 2012.

11. "Clinical Research: Study Design and Methodology." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. September 28, 2012.
12. "Introduction to Statistics: STATA 101." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. October 12, 2012.
13. "Improving Patient Outcomes: Cognitive-Behavioral Based Rehabilitation." Department of Physical Medicine and Rehabilitation, Vanderbilt University Medical Center. December 12, 2012.
14. "Clinical Research: Methods and Statistics." Center for Bone Biology, Vanderbilt University Medical Center. January 11, 2013.
15. "Cognitive-Behavioral Based Physical Therapy: Improving Surgical Spine Outcomes." Center for Surgical Quality and Outcomes Research, Vanderbilt University Medical Center. February 6, 2013.
16. "How to Read a Journal Article: Risk of Bias and Clinical Relevance." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. November 6, 2013.
17. "Introduction to Grant Writing." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. November 22, 2013.
18. "Understanding and Interpreting Regression Analysis." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. December 13, 2013.
19. "New Approaches for Measuring Patient-Reported Outcomes: The PROMIS Technology." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. December 20, 2013.
20. "Introduction to Statistics: STATA 101." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. December 20, 2013.
21. "Integration of PROMIS Measures into Clinical Care and PCORI Funding." Center for Surgical Quality and Outcomes Research, Vanderbilt University Medical Center. April 23, 2014.
22. "How to Read a Journal Article: Risk of Bias and Clinical Relevance." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. August 6, 2014.
23. "Introduction to Grant Writing." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. February 13, 2015.
24. "Clinical Research: Methods and Statistics." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. February 20, 2015.
25. "Introduction to Statistics: STATA 101." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. February 27, 2015.
26. "Telehealth Yoga: Improving Surgical Spine Outcomes." Center for Health Services Research, Vanderbilt University Medical Center. April 21, 2015.



27. "Telehealth Yoga: Improving Surgical Spine Outcomes." Department of Physical Medicine and Rehabilitation, Vanderbilt University Medical Center. May 1, 2015.
28. "Behavior Change and Motivational Interviewing for Physical Therapists." Dayani Center, Vanderbilt University Medical Center. April 20, 2016.
29. "Introduction to Statistics: STATA 101." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. May 13, 2016.
30. "Clinical Research: Methods and Statistics." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. May 20, 2016.
31. "Introduction to Grant Writing." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. June 17, 2016.
32. "Improving Patient Outcomes through a Psychologically Informed Rehabilitation Approach." Department of Physical Medicine & Rehabilitation, Grand Rounds, Vanderbilt University Medical Center. August 4, 2016.
33. "New Approaches for Measuring Patient-Reported Outcomes." Department of Medicine, Division of Epidemiology, Vanderbilt University Medical Center. September 22, 2016.
34. "Introduction to Grant Writing." Department of Physical Medicine and Rehabilitation, Vanderbilt University Medical Center. February 23, 2017.
35. "Technology-Assisted Yoga for Chronic Low Back Pain." Department of Physical Medicine and Rehabilitation, Vanderbilt University Medical Center. April 7, 2017.
36. "Psychosocial Risk Factors for Chronic Low Back Pain." Department of Physical Medicine and Rehabilitation, Vanderbilt University Medical Center. August 3, 2017.
37. "Changing Behavior through Physical Therapy: Improving Patient-Reported Outcomes." Center for Effective Health Communication, Vanderbilt University Medical Center. July 27, 2018
38. "Patient-Reported Outcomes and PROMIS." Department of Medicine, Division of Epidemiology, Vanderbilt University Medical Center. October 4, 2018.
39. "Rethinking Rehabilitation to Improve Patient Outcomes: Is It Time for Something New." Osher Center for Integrative Medicine, Vanderbilt University Medical Center. June 13, 2019.
40. "Incorporating PROs into Clinical Care: Engagement and Shared Decision-Making." Department of Medicine, Division of Epidemiology, Vanderbilt University Medical Center. September 19, 2019.
41. "Funding Mechanisms & Departmental Resources." Department of Orthopaedic Surgery, Vanderbilt University Medical Center. February 19, 2020.