**Dr. Todd Frederick VanderHeiden, M.D.**

**ABOS Board-Certified Orthopaedic Spine Surgeon**

**Associate Professor of Orthopaedic Surgery**

**Panorama Orthopaedics and Spine Center (POSC)**

**The OrthoColorado Hospital (The OC)**

**St. Anthony Hospital – Level 1 Trauma Center (SAC)**

**St. Anthony North Health Campus (SAN)**

**Littleton Adventist Hospital (LAH)**

**Golden Ridge Surgery Center (GRSC)**

**Panorama Sports Performance Center (PSPC)**

**&**

**The University of Colorado School of Medicine (CUSOM)**

**BIOGRAPHICAL SKETCH**

CURRENT POSITIONS:

Spinal Surgeon – POSC, The OC, SAC, SAN, LAH, GRSC

BUSINESS ADDRESS**:**

POSC

660 Golden Ridge Road

Suite #250

Golden, CO 80401

CONTACT INFORMATION**:**

Appointments: (303) 233-1223

Toll Free: +1 (800) 258-5250

Physical Therapy: (720) 497-6616

Fax: (303) 233-8755

PERSONAL INFORMATION:

Birthplace: Fitzsimons Army Medical Center, Aurora, Colorado, USA

Wife: Theresa Marie VanderHeiden

Children: Alice Rose VanderHeiden & Matilda Grace VanderHeiden

Creed: Honesty, Integrity, Reliability

Motto: Trust No-One, Do it Yourself, Check it Twice, Expect Sabotage, Do the Right Thing

Philosophy:Never Give-Up, Always be Prepared, Choose to Win, Trust God, Remain Fit, Train for Life

Routine:No Drinking, No Smoking, No Drugs, Say Prayers, Take Vitamins, Love Neighbors, Do It Right

PERSONAL INTERESTS:

Loyalty; Austerity; Parenting; Winning; Work Hardening; Self Discipline; Self Restriction; Searching for Truth; Bible Study; Intensity Training; Leadership Training; Life Coaching; Physical Fitness; Weight & Cross Training; Big-Mountain Skiing; Skating Long-Boards; Trampoline Parks; “Fourteeners”; Golfing; Reading; Christian Charities; Volunteer Work; University of Colorado Buff Club; Colorado Buffaloes Sporting Events;

**EDUCATION**

**Baccalaureate Internationale - 1995**

Honors Graduate

Smoky Hill High School

College Preparatory Curriculum

Aurora, Colorado, USA

**Baccalaureus Artium – 1999**

Honors Graduate

Phi-Beta-Kappa Honor Society

Golden Key Honor Society

Major: Molecular, Cellular, Developmental Biology

Minor: Biochemistry

University of Colorado

Boulder, Colorado, USA

**Medicinae Doctor – 2004**

Honors Graduate

Senior Alpha-Omega-Alpha Honor Society

Junior Alpha-Omega-Alpha Honor Society

University of Colorado School of Medicine

University of Colorado Health Sciences Center

Denver, Colorado, USA

**Internship – General and Orthopaedic Surgery – 2005**

Department of Orthopaedic Surgery

University of Colorado Health Sciences Center

University of Colorado Hospital

Denver, Colorado, USA

**Residency – Orthopaedic Surgery – 2009**

Department of Orthopaedic Surgery

University of Colorado Health Sciences Center

University of Colorado Hospital & Affiliates

Denver, Colorado, USA

**Fellowship – Spinal Surgery – 2010**

Panorama Orthopaedics and Spine Center

Golden, Colorado

Littleton Adventist Hospital, Littleton, Colorado

Lutheran Hospital, Denver, Colorado

St. Anthony’s North Hospital, Westminster, Colorado

St. Anthony’s Central Hospital, Denver, Colorado

**ACADEMIC APPOINTMENTS**

2017-Present **Associate Professor of Orthopaedic Surgery**

CUSOM, Department of Orthopaedic Surgery

2010-2017 **Assistant Professor of Orthopaedic Surgery**

CUSOM, Department of Orthopaedic Surgery

2010-2017 **Site Director: Orthopaedic Spine Surgery Fellowship**

CUSOM, Department of Orthopaedic Surgery

**PROFESSIONAL POSITIONS**

2017-Present **Spinal Surgeon**

Spine Surgery Division

POSC

2014-2017 **Associate Director of Service**

Department of Orthopaedic Surgery

DHMC

2010-2017 **Division Chief**

Division of Spine Surgery, Department of Orthopaedic Surgery

DHMC

2014-2017 **Medical Director**

Orthopaedics Specialty Clinic

DHMC

2014-2017 **Manager & Supervisor**

Orthopaedics Advanced-Practice Providers (APP)

DHMC

2010-2013 **Orthopaedic Trauma Surgeon**

Department of Orthopaedic Surgery

DHMC

2010-2017 **Orthopaedic Spine Surgeon**

Department of Orthopaedic Surgery

 DHMC

2010-2014 **Interim Medical Director**

**Orthopaedics Specialty Clinic**

DHMC

2010-2014 **Interim Manager & Supervisor**

Orthopaedic Advanced-Practice Providers

DHMC

**RECOGNITION & AWARDS**

**PROFESSIONAL**

**Denver Health Medical Center**

2013: “Shark Tank” Team Award

2013: Colorado “PEAK” Award

2014: Colorado “PEAK” Award

2015: Colorado “PEAK” Award

2012: Nomination – Denver Health Clinician of the Year

2013: Nomination – Denver Health Clinician of the Year

2014: Nomination – Denver Health Clinician of the Year

2015: Nomination – Denver Health Clinician of the Year

2016: Nomination – Denver Health Clinician of the Year

2013: DHMC STAR Award

2013: DHMC STAR Award

2013: DHMC STAR Award

2010-2017: Denver Health “Pillar Partner”

**CUSOM**

2017: Colonel Allan Bucknell, Excellence in Resident Teaching Award

**POST GRADUATE**

2008: American Orthopaedic Association: Resident Leader

2008-2009: Administrative Chief Orthopaedic Resident

2008-2009: Senior Orthopaedic Surgery Resident of the Year

2010: Spine Interactive Education Program (IEP) National Award: Top 5 Fellow Case-Presentation

**GRADUATE**

2001: Campbell Scholarship

2002: Cheley Scholarship

2003: McClymond Scholarship

2003: Junior Alpha-Omega-Alpha Honor Society

2004: Senior Alpha-Omega-Alpha Honor Society

**UNDERGRADUATE**

1991-1995: National Honor Society

1991-1995: National Spanish Honor Society

1993-1994: Captain - Varsity Golf Team

1995: Captain - Varsity Baseball Team

1994-1995: Captain - Varsity Basketball Team

1995: All-Centennial League Baseball Player

1995: All-Centennial League Basketball Player

1994: All-Centennial League Golfer

1995: Honors Graduate

1995-1999: Dean’s List Scholarship

1995-1999: Alpha Epsilon Delta Honor Society

1998-1999: Golden Key National Honor Society

1998-1999: National Honor Society of Phi Beta Kappa

1999: Honors Graduate with Distinction

**PROFESSIONAL ORGANIZATIONS**

**PROFESSIONAL**

2010-Present: Member – American Academy of Orthoapedic Surgeons

2007-Present: Member – North American Spine Society

2004-Present: Member – American Medical Association

2010-Present: Member – Denver Medical Society

2010-Present: Member – Colorado Medical Society

2010-Present: Member – Colorado Orthopaedic Society

2016-Present: Board of Directors – Colorado Orthopaedic Society

2014-Present: Member – Western Orthopaedic Association

2007-Present: Member – University of Colorado Orthopaedic Surgery Pride Council

2008-Present: President Emeritus – University of Colorado Orthopaedic Surgery Pride Council

2009-Present: Member – University of Colorado Orthopaedic Surgery Alumni Association

2011-Present: President – University of Colorado Orthopaedic Surgery Alumni Association

1999-Present: Member – University of Colorado @Boulder Alumni Association

2004-Present: Member – University of Colorado School of Medicine Alumni Association

2015-Present: Member – University of Colorado BUFF CLUB Cabinet

2007-Present: Member – University of Colorado BUFF CLUB

2011-Present: Member – University of Colorado Advocate: “C.U. Advocate”

2010-Present: Member – AO Spine International

2010-Present: Member – International Society for the Advancement of Spine Surgery (ISASS)

2011-Present: Member – Spine Arthroplasty Society (SAS)

2010-Present: Member – Society for Minimally Invasive Spine Surgery (SMISS)

**POST GRADUATE**

2004-2009: University of Colorado Orthopaedic Surgery Pride Council: Founder and President

2007-2008: University of Colorado Orthopaedic Surgery: Resident-Alumni Representative

2008-2009: American Academy of Orthopaedic Surgeons: Resident Liaison

2008-Present: Chairman - University of Colorado Orthopaedic Surgery Annual Alumni Golf Tournament

2008-2009: University of Colorado Orthopaedic Surgery - Administrative Chief Resident

2008-2009: Coordinator - Denver Public Schools: Varsity Sports Medical Coverage

2009-2010: American Academy of Orthopaedic Surgeons – Spine Fellow Member

**GRADUATE**

2001: University of Colorado School of Medicine: Surgical Society - Founding Member

2004: University of Colorado School of Medicine: Nu Sigma Nu Medical Fraternity - House President

**MAJOR COMMITTEE & SERVICE RESPONSIBILITIES**

**DHMC**

2016-2017 **Member: Denver Health Medical-Staff Executive Committee (MSEC)**

2016-2017 **Member: Medical Staff Conflicts of Interest Committee**

2016-2017 **Member: Medical Staff Code of Conduct Committee**

2016-2017 **Member: Medical Staff Credentialing and Privileging Committee**

2016-2017 **Member: Joint Strategies Committee**

2013-2017 **Member: Risk Management Committee**

2017 Spine Surgery: Care-Transition Committee Chairman

2016 Member: Search Committee – Department of Neurosurgery Director-of-Service

2011-2012 Member: Search Committee – Denver Health and Hospital Authority CEO

2016-2017 Member: Physician Space-Allocation Task-Force

2016-2017 Member: Operating Room New-Products Committee

2016-2017 Member: Peri-Operative Services Steering Committee

2010-2017 Spine Surgery Clinic – Referrals Committee

2010-2017 Spine Surgery Clinic – Care-Protocols Committee

2010-2017 Spine Surgery Clinic – Patient-Access Committee

2010-2017 Spine Surgery Clinic – Clearance-Protocols Committee

2010-2017 Spine Center-of-Excellence – Development Committee

2010-2017 Interdisciplinary Spine Team – Committee Chairman

2011-2012 Spine Operating-Microscopes Purchasing Committee – Committee Chairman

2010-2012 Paediatric Trauma Surgery Committee

2010-2011 Spinal Cord Injury: Clinical Practice Guideline Committee

2010-2011 Cervical Spine Clearance Protocol: Clinical Practice Guideline Committee

2010-2011 Low Back Pain: Clinical Practice Guideline Committee

2010-2011 Primary Care Spine-Referral Guidelines Committee

2010-2011 Spinal Imaging Guidelines Committee

2010-2011 Health Record System – Process Development Committee

2013-2015 Denver Public Schools Athletic Trainer (AT-C) Physician-Extender Committee

2013-2015 Denver Public Schools Athletics Triage/Referral Committee

2014-2017 Spine Surgery External Referrals and Outreach Committee

**CUSOM Department of Orthopaedic Surgery**

2010-Present: Orthopaedic Surgery Alumni Association - President

2010-2012: Orthopaedic Residency Research Committee

2007-2017: Orthopaedic Resident Selection Committee

2010-2017: Spine Fellow Selection Committee

2007-Present: Pride Council: Cabinet

2007-Present: Pride Council: Steering Committee Chairman

**LICENSURE & BOARD CERTIFICATION**

Diplomate of the American Board of Orthopaedic Surgeons (ABOS)

Fellow of the American Academy of Orthopaedic Surgeons (AAOS)

Medical License by Colorado State Medical Board and the Colorado Department of Regulatory Agencies

**REVIEW WORK**

Reviewer: Patient Safety in Surgery Journal

Reviewer: Orthopaedics Journal

Reviewer: Spine Journal

Reviewer: European Journal of Orthopaedics and Traumatology

**LECTURES & PRESENTATIONS**

1. “Clinical Outcomes at 1 Year of Surgical Hip Dislocation for Adolescents with FemoroaAcetabular Impingement.” **VanderHeiden TF**, Sink E, Dayton MR. Colorado Children’s Hospital Orthopaedic Day. 2008.
2. “Radicular Pain.” **VanderHeiden TF**. Colorado Spine Symposium. November, 2009.
3. “Cervical Spine Trauma: Recognition and Management Review.” **VanderHeiden TF**. CU Orthopaedic Surgery Core Curriculum Conference. September, 2010.
4. “Thoracolumbar Fracture Management: Review.” **VanderHeiden TF**. CU Orthopaedic Surgery Core Curriculum Conference. June, 2011.
5. “Common Scenarios and Complications in Spine Surgery”. **VanderHeiden TF**. 3rd Annual Denver Health Critical Care Conference – Improving Outcomes, Saving Lives. October, 2011.
6. “Gunshot Wounds to the Spine and Extremities.” **VanderHeiden TF**. CU Orthopaedic Surgery Core Curriculum Conference. June 2012.
7. “Spine: Anatomy and Physical Examination.” **VanderHeiden TF**. CU Orthopaedic Surgery Core Curriculum Conference. August 2012.
8. “Initial Evaluation of the Spine-Injured Patient.” **VanderHeiden TF**. CU Orthopaedic Surgery Core Curriculum Conference. December 2012.
9. “Spine Trauma: Initial Management.” **VanderHeiden TF**. CU Orthopaedic Surgery Core Curriculum. January, 2013.
10. “Spine Fracture Update 2013: Thoracolumbar Injuries – Diagnosis and Management.” **VanderHeiden TF**. 2nd Rocky Mountain Orthopaedic Trauma Conference. August 2013.
11. “Blunt Vertebral Artery Injuries: Diagnosis and Management.” **VanderHeiden TF**. 27th Annual Neurosurgery in the Rockies Symposium. February 2014.
12. “Compression fracture? Or is it something worse…?” **VanderHeiden TF**, Smith SE. 3rd Annual Rocky Mountain Orthopaedic Trauma Conference. August 2014.
13. “Spine Surgery Case Presentations: Successes, Failures, What’s Next?” **VanderHeiden TF**. 4th Annual Rocky Mountain Orthopaedic Trauma Conference. August 2015.
14. “Frontline Management of Neck and Back Pain.” **VanderHeiden TF**. Denver Health Medical Center Primary Care Grand-Rounds Conference. September 2015.
15. “Surgical Concepts of Degenerative Spinal Conditions.” **VanderHeiden TF**. Stryker Spine: Sales Force Educational Conference. October 2015.
16. “Level-One Spine Care without Resources.” **VanderHeiden TF**. Denver Health Medical Center Family Medicine Grand-Rounds Conference. October 2015.
17. “Sub-axial Cervical Spine Trauma: Evaluation and Management.” **VanderHeiden TF**. CU Orthopaedic Core Curriculum Conference. November 2016.
18. “Thoracolumbar Spine Trauma: Evaluation and Management.” **VanderHeiden TF**. CU Orthopaedic Core Curriculum Conference. November 2016.
19. “Spine Trauma Case Review: Surgical Indications and Techniques.” **VanderHeiden TF**. CU Orthopaedic Core Curriculum Conference. November 2016.

**TEACHING RECORD**

2010-2017 **Faculty: Spine Surgery Residency Rotation**

 **PGY4 Orthopaedic Resident Clinical Rotation**

CUSOM

 DHMC

2010-2017 **Faculty: Spine Surgery Fellowship Rotation**

 **PGY6 Orthopaedic Spine-Fellow Clinical Rotation**

CUSOM

 DHMC

2010-2017 **Faculty: Musculoskeletal (MSK) Clerkship**

**MS3 Medical-Student Clinical Rotation**

CUSOM

 DHMC

2010-2017 **Faculty: Orthopaedic Surgery Sub-Internship**

 **MS4 Medical-Student Clinical Rotation**

CUSOM

 DHMC

2014-2017 **Faculty: Longitudinal Integrated Clerkship (LIC)**

 **MS3 & MS4 Medical-Student Rotation**

CUSOM

 DHMC

2011-2016 **Proctor**: CUSOM Orthopaedics: Spine Anatomy and Cadaveric Dissection

2010-2017 **Faculty**: DHMC Orthopaedic Trauma Journal Club

2010-2017 **Faculty**: CUSOM Spine Surgery Journal Club

2016-2017 **Faculty**: CUSOM Orthopaedic Leadership Journal Club

2010-2017 **Faculty**:DHMC Orthopaedics Morbidity & Mortality Conference

2010-2017 **Faculty**: CUSOMOrthopaedics Morbidity & Mortality Conference

2010-2017 **Faculty**: DHMC Orthopaedics Morning-Report & Fracture Conference

2010-2017 **Faculty**: DHMC Interdisciplinary Spine Conference

2010-2017 **Faculty**: DHMC Spine Surgery Indications & Postoperative Conference

2015-16 **Member**: CUSOM Medical-Student MSK-Rotation Curriculum Committee

2010-2017 **Member**: CUSOM Spine Surgery Resident Rotation Syllabus Committee

**BIBLIOGRAPHY**

**Peer-Reviewed Articles**

1. Smith WR, Ziran B, Agudelo JF, Morgan SJ, Lahti Z, **VanderHeiden TF**, Williams A. “Expandable intramedullary nailing for tibial and femoral fractures: a preliminary analysis of perioperative complications.” J Orthop Trauma. 2006 May;20(5):310-4; discussion 315-6.
2. Cothren CC, Moore EE, **VanderHeiden TF**, Haenel JB, Smith WR. “Case Report: Occam’s Razor is a Double-Edged Sword: Concomitant Pulmonary Embolus and Fat Embolus Syndrome.” J Trauma. 2008; 65: 1158-1560.
3. **VanderHeiden TF**, Stahel PF, Clutter S, Price C, Peterson SL, Morgan SJ. “Case Report: Nocardia Osteomyelitis: A Rare Complication After Intramedullary Nailing of a Close Tibial Shaft Fracture.” J Orthop Trauma. 2009. March; 33(3): 232-236.
4. Yoshihara H, **VanderHeiden TF**, Stahel PF. “A Missed Injury Leading to Delayed Diagnosis and

 Postoperative Infection of an Unstable Thoracic Spine Fracture – Case Report of a Potentially Preventable Complication.” Patient Safety in Surgery 2011, 5:25.

1. Yoshihara H, **VanderHeiden TF**, Harasaki Y, Beauchamp KM, Stahel PF. “Fatal Outcome After Brain Stem Infarction Related to Bilateral Vertebral Artery Occlusion – Case Report of a Detrimental Complication of Cervical Spine Trauma.” Patient Safety in Surgery 2011. July; 5:18
2. Bailey J, **VanderHeiden TF**, Cothren Burlew C, Pinski-Sibbel S, Jordan J, Moore EE, Stahel PF. “Thoracic Hyperextension Injury with Complete “Bony Disruption” of the Thoracic Cage: Case Report of a Potentially Life-threatening Injury. World J Emerg Surg 2012; 7:14.
3. Philip F. Stahel, **Todd VanderHeiden**, Michael A. Finn. “Management strategies for acute spinal cord injury: current options and future perspectives” Critical Care Volume 18 Number 6 December 2012
4. Stahel PF, **Vanderheiden TF,** Flierl MA, Matava B, Gerhardt D, Bolles G, Beauchamp K, Burlew CC, Johnson JL, Moore EE. “[The impact of a standardized "spine damage-control" protocol for unstable thoracic and lumbar spine fractures in severely injured patients: A prospective cohort study.](http://www.ncbi.nlm.nih.gov/pubmed/23354256)” *J. Trauma Acute Care Surg.* 2013,74(2):590-6.
5. **VanderHeiden TF**, Reiter MF, Bozzio AE. “Successful Conservative Management of Craniocervical Dissociation in a Pediatric Trauma Patient: A Case Report.” Submitted to Spine Journal for publication.
6. Stahel PF, **VanderHeiden TF**, Kim FJ. “Why do surgeons continue to perform unnecessary surgery?” *Patient Safety in Surgery Journal*. 2017, 11(1): 1-3.

**Book Chapters**

1. Pinski SE, Boylan A, Witt JP, **Vanderheiden TF**, Stahel PF. Centeral Spinal Cord Syndrome,

In: Encyclopedia of Intensive Care Medicine. Vincent JL, Hall J (Eds.) Springer, Heidelberg,

2012, pp. 513-6.

1. **Vanderheiden TF**, Stahel PF. Occipitocervical dislocation. In: Encyclopedia of Intensive Care

Medicine. Vincent JL, Hall J (Eds.) Springer, Heidelberg, 2012, pp.1609-15.

1. Stahel PF, Flierl MA, **VanderHeiden TF**, Beauchamp KM. Spine damage control. In: Encyclopedia of Intensive Care Medicine. Vincent JL, Hall J (Eds.) Springer, Heidelberg, 2012, pp.2104-7.
2. Yoshihara H, **VanderHeiden TF**, Weckbach S, Stahel PF. Vertebral brust fractures. In: *Orthopedic Trauma Call for the Attending Surgeon*. Hak DJ, Ipaktchi KR, Morgan SJ (Eds.), Slack Inc., Thorofare, NJ, 2013, pp.307-17.
3. **VanderHeiden TF**, Stahel PF. Spine fracture-dislocations. In: *Orthopedic Trauma Call for the Attending Surgeon*. Hak DJ, Ipaktchi KR, Morgan SJ (Eds.), Slack Inc., Thorofare, NJ, 2013, pp.319-28.
4. **VanderHeiden TF**, Stahel PF. Low-energy spine trauma. In: *Orthopedic Trauma Call for the Attending Surgeon*. Hak DJ, Ipaktchi KR, Morgan SJ (Eds.), Slack Inc., Thorofare, NJ, 2013, pp.329-35.
5. **VanderHeiden TF**. Spine Fractures. In: *Management of Musculoskeletal Injuries in the Trauma Patient*. Smith WR, Stahel PF (Eds.), Springer, New York, NY, 2014, pp 165-195.
6. **VanderHeiden TF**, Smith SE, Stahel PF. Spine Trauma: Diagnosis, Clearance, and Mobility. In: Denver Health Medical Center’s Surgical Critical Care Handbook: The Practice and the Evidence. Pieracci FM, Moore EE (Eds.), World Scientific Publishing, Hackensack, NJ, 2014, pp. 57-71.
7. **VanderHeiden TF**. Essential Elements of Patient Safety and Quality Care: Camaraderie amongst Resident Surgeons. In: Surgical Patient Safety. Stahel, PF. McGraw-Hill Publishing. New York, NY. 2016. In press.
8. **VanderHeiden TF**, Stahel PF. Spinal Cord Injuries. In: Abernathy’s Surgical Secrets, 7th Edition. Harken AH, Moore EE (Eds.), Elsevier, New York, NY. 2016. In Press.
9. **VanderHeiden TF**, Stahel PF. Spinal Cord Injury. In: Surgical Decision Making, 6th Edition. McIntyre RC, Shulick RD (Eds.), Saunders Elsevier, Philadelphia, PA. 2017. In Press.
10. Stahel PF, **VanderHeiden TF**. Open-access Journals: The Future of Scientific Publishing? In:

**Abstracts**

1. “Expandable Intramedullary Nailing for Long Bone Fractures: Analysis and Complications.” Smith WR, Ziran BH, Agudelo JF, Morgan SJ, Lahti Z, **VanderHeiden TF**, Williams A. Abstract accepted for Podium Presentation. Orthopaedic Trauma Society Meeting, Salt Lake City, Utah, October, 2003.
2. “Range of Motion Assessment in Patients Undergoing Surgical Dislocation and Debridement for Femoro-acetabular Impingement.” **VanderHeiden, TF**, Dayton MR, Sink E, Williams AE. Abstract submitted for Podium Presentation. American Academy of Orthopaedic Surgeons 2010 Annual Meeting. New Orleans, Louisiana.

**RESEARCH PROJECTS**

1. Subject-Matter Expert for Spine and Spinal-Cord Injury: Colorado SIREN! Research Project. **VanderHeiden TF**, Haukoos JS, et. al. Denver Metro Acute-Care Hospitals, UCHealth Emergency Care System, San Antonio Military Medical Center. Application submitted for review.
2. Co-Investigator: **VanderHeiden TF**. A Phase 2b, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety and Efficacy of Staphylococcus Aureus 4-Antigen Vaccine (SA4Ag) in Adults undergoing Elective Posterior Instrumented Lumbar Spinal Fusion Procedures. In progress.
3. Co-Investigator: **VanderHeiden TF**. Pain, Function, and Fusion Rates in cervical and lumbar spinal fusion surgery utilizing a cellular and tissue based allogenic bone-graft substitute, BIO4. In progress.
4. Co-Investigator: **VanderHeiden TF**. A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Efficacy, Safety, and Pharmacokinetics of SUN13837 Injection in Adult Subjects with Acute Spinal Cord Injury. Denver Health Medical Center. PI: Dr. Susan Ladley-O’Brien. In Progress.
5. Co-Investigator: **VanderHeiden TF**. A Double-Blind, Placebo-Controlled Study of AC105 in Patients with Acute Traumatic Spinal Cord Injury. Denver Health Medical Center. PI: Dr. Susan Ladley-O’Brien. In Progress.
6. Co-Investigator: **VanderHeiden TF**. Comparison of Inflammatory Markers Associated with Different Treatment Modalities in Multiply Injured Patients with Unstable Spine Fracture. Denver Health Medical Center. PI: Dr. Philip F. Stahel. In Progress.
7. Principal Investigator: **VanderHeiden TF**. Effect of Community Educational-Outreach, formal Referral Filter Implementation, and focused Triage Referral System on the Spine Surgery Clinic “Hit-Rate” at a County Hospital providing spine care for an Indigent Population. In Progress.
8. Principal Investigator: **VanderHeiden TF**. Safety and Efficacy of major elective spinal surgery on an Indigent Population at a County Hospital. Enhancement by implementation of a formalized Spine Surgery Clearance Protocol. In Progress.
9. Principal Investigator: **VanderHeiden TF**. Implementation of the Holy Trinity of Spine teaching philosophy at a training facility. Effect on Resident education. In Progress.
10. Senior Orthopaedic Surgery Resident Research Project: **VanderHeiden TF**, Dayton MR, Sink E, Williams AE. “Range of Motion Assessment in Patients Undergoing Surgical Dislocation and Debridement for Femoro-acetabular Impingement.” University of Colorado Hospital. Accepted by the C.U. Orthopaedic Department Resident Research Committee. In Preparation for Publication.
11. Spinal Surgery Fellowship Research Project: **VanderHeiden TF**, Brown CW, Puschak TJ. “The Effect of LumboSacral Obliquity on Adult Scoliosis Deformity and Length of Fusion Construct.” Panorama Orthopaedics and Spine Center. In Progress.

**COMMUNITY SERVICE & ADVOCACY**

**INSTITUTIONAL – DHMC**

2010-2017: DHMC Employee; Level-1 Care for All;

2013-2017: DHMC Future Leaders Program;

2010-2017: Denver Health Pillar Partner;

2010-2017: Denver Health Foundation: Advocate; Donor;

2010-Present: Denver Paramedics: Advocate; Donor;

2010-Present: Denver Police Department: Advocate; Donor;

2010-Present: Denver Fire Department: Advocate; Donor;

2010-Present: Friends of Denver Fire Department: Advocate; Donor;

2010-Present: Denver Public Schools: Advocate; Donor; Side-Line Physician;

**AFFILIATED PROGRAM – CUSOM**

2002-2004: CUSOM Surgical Socitey: Founder; Advocate; Donor;

2004-Present: CUSOM Orthopaedics Department: Advocate; Donor;

2004-Present: CUSOM Orthopaedics Alumni Association: President; Advocate; Donor;

2007-Present: CUSOM Orthopaedic Surgery Pride Council (OSPC): Founder; President; Advocate;

2004-Present: CUSOM Orthopaedics Residency Program: Alumni; Advocate; Donor;

2013-2017: CUSOM Orthopaedics “Godfather” Sponsor;

2012-Present: University of Colorado “C.U. Advocates”: Advocate; Donor;

1999-Present: C.U. @Boulder Alumni Association: Advocate; Donor;

2004-Present: CUSOM Alumni Assocation: Advocate; Donor;

2004-Present: CUSOM Stethoscope Fund: Advocate; Donor;

2004-Present: CUSOM Dean’s Scholarship Fund: Advocate; Donor;

2009-Present: C.U. Buffs-4-Life Foundation: Advocate; Donor;

2009-Present: C.U. Buff Club: Advocate; Donor;

2015-Present: C.U. Buff Club Cabinet: Member; Advocate; Donor;

1995-Present: C.U. Athletics: Advocate; Donor;

2014-Present: C.U. Sustainable Excellence Initiative: Advocate; Donor;

**CITY & LOCAL – DENVER**

2000-2005: Grant Street Mission: Advocate; Volunteer.

2010-Present: Denver Rescue Mission: Advocate; Volunteer; Donor;

2015-Present: Colorado Coalition for the Homeless: Advocate; Donor;

2016-Present: Youth for Christ – Denver-Area Chapter: Advocate; Donor;

2016-Present: Youth with a Mission (YWAM) – Denver-Area Chapter: Advocate; Donor;

2013-Present: Fellowship of Christian Athletes – Boulder-Area Chapter: Advocate; Donor;

2013-Present: Saint Vincent de Paul Church and School: Advocate; Donor;

2013-2016: Saint John Lutheran Church and School: Advocate; Donor;

2008-2015: BMH-BJ Congregation and Preschool: Advocate; Donor;

2010-2014: Mile Hi United Way: Advocate; Donor;

2010-Present: Denver Zoological Foundation: Advocate; Donor; Member;

2010-Present: Denver Botanical Gardens Foundation: Advocate; Donor; Member;

2016-Present: Habitat for Humanity: Advocate; Donor;

2016-Present: University of Denver Academics: Advocate; Donor;

2016-Present: University of Denver Athletics: Advocate; Donor;

**STATE – COLORADO**

2009-Present: Colorado Orthopaedic Society: Member; Advocate;

2016-Present: Colorado Orthopaedic Society: Board-of-Directors;

2004-Present: Colorado Medical Society: Member; Advocate;

2010-Present: Southeast Christian Church: Advocate; Donor;

2013-Present: Grace in Pagosa Christian Church: Advocate; Donor;

2012-Present: Freedom Through Faith Ministries: Advocate; Donor;

2010-2012: Good News Prison and Jail Ministry: Advocate; Donor;

**REGIONAL – WESTERN**

2009-Present: Western Orthopaedic Society: Member; Advocate; Donor;

**NATIONAL – USA**

2004-Present: American Academy of Orthopaedic Surgeons: Advocate; Member; Donor;

2016-Present: AAOS Orthopaedic Political Action Committee: Advocate; Supporter-Level Donor;

2016-Present: Orthopaedic Research and Education Foundation: Advocate; Order-of-Merit Donor;

2016-Present: North American Spine Society Annual Research Fund: Advocate; Donor;

2016-Present: North American Spine Society Special Research Endowment Fund: Advocate; Donor;

2016-Present: National Association of Spine Specialists; Advocate; Donor;

2012-Present: National Sports Center for the Disabled (NSCD): Advocate; Donor;

2012-Present: American Indian College Fund: Advocate; Donor;

2012-Present: First Nations Development Institute: Advocate; Donor;

2015-Present: American Bible Society: Advocate; Donor;

2010-Present: Our Daily Bread Ministries: Advocate; Donor;

2014-Present: The Nature Conservancy: Advocate; Donor;

2016-Present: Promise Keepers – Men of Integrity: Advocate; Donor;

2016-Present: Focus on the Family: Advocate; Donor;

**INTERNATIONAL**

2009-Present: North American Spine Society (NASS): Member; Advocate; Donor;

2009-Present: International Society for the Advancement of Spine Surgery (ISASS): Member; Advocate;

2009-Present: Society of Minimally Invasive Spine Surgery (SMISS): Member; Advocate; Donor;

2009-Present: AO Spine International: Member; Advocate; Donor;

2010-Present: Wycliffe Associates: Advocate; Donor;

2010-Present: Mission Aviation Fellowship: Advocate; Donor;

2010-Present: Smile Train: Advocate; Donor;

2014-Present: Compassion International: Advocate; Donor;

2015-Present: Mercy Ships: Advocate; Donor;

2010-Present: World Vision: Advocate; Donor;

2016-Present: Protect Our Winters: Advocate; Donor;

2016-Present: Samaritan’s Purse: Advocate; Donor;

**COURSES & CONFERENCES**

2004: Hand Surgery for the Primary Care Physician

Course offered by Hand Surgery Associates

Denver, Colorado, USA

2005: AO/ASIF Basic Fracture Management

Vancouver, British Columbia, Canada

2006: Surgical Approaches for Internal Fixation (SAIF)

Course offered by Smith and Nephew

Memphis, Tennessee, USA

2006: Advanced Fracture Management

AO/ASIF

Toronto, Ontario, Canada

2007: Colorado Trauma Symposium

Course offered by Panorama Orthopaedic Fund

Denver, Colorado, USA

2007: Four-Corners Orthopaedic Residency Symposium

Course for PGY3 Orthopaedic Residents in Colorado, New Mexico, Utah, Arizona

Keystone, Colorado

2007: Symposium: On-the-Field Management of the Injured Athlete

Course offered by University of Colorado Sports Medicine

Denver, Colorado, USA

2007: Senior Orthopaedic Surgery Resident Course

Hip, Knee, Tumor, Trauma, & OITE Review

Course offered by DePuy Orthopaedics

Chicago, Illinois, USA

2007: 18th Annual Colorado Spine Symposium

Course offered by Panorama Orthopaedics & Spine Center

Westminster, Colorado, USA

2007: Symposium: Life After Spine Fellowship

Course offered by Stryker Spine

Boulder, Colorado, USA

2008: Emerging Spine Technologies and Spine Education Summit

Course offered by Durango Orthopaedics and Spine

Jackson Hole, Wyoming, USA

2008: AOA Resident Leadership Forum

AOA/COA – OREF – Zimmer

Québec City, Québec, Canada

2008: Symposium: Life After Spine Fellowship

Course offered by Stryker Spine

Westminster, Colorado, USA

2009: AAOS Annual Meeting

American Academy of Orthopaedic Surgeons

Las Vegas, Nevada, USA

2009: Miller’s Orthopaedic Review Course

ABOS Part 1 Preparatory Course

Westminster, Colorado, USA

2009: NASS Annual Meeting

North American Spine Society

San Francisco, California, USA

2009: Colorado Spine Symposium

Course offered by Panorama Orthopaedics & Spine Center

Golden, Colorado, USA

2010: Emerging Spine Technologies and Spine Education Summit

Course offered by Durango Orthopaedics & Spine Center

Steamboat Springs, Colorado, USA

2010: Advanced Techniques in Minimally Invasive Spine Surgery

Course offered by Stryker Spine at Science Care Cadaver Lab

Aurora, Colorado, USA

2011: James S. Miles Lectureship (Master of Ceremonies)

University of Colorado Orthopaedics Research Day

Denver, Colorado, USA

2011: Marquis Visit Program for Spinal Tumor/Trauma/Infection - Corpectomy Course

Course offered by NuVasive Spine

San Diego, California, USA

2013: 9th Annual Evidence and Technology Spine Summit

North American Spine Society

Park City, Utah, USA

2013: 2nd Annual Rocky Mountain Orthopaedic Trauma Conference

Denver Heath Medical Center & Rocky Mountain Regional Trauma Center

Beaver Creek, Colorado, USA.

2014: 36th Annual Spine – Base to Summit Conference

Comprehensive Spine Surgery Lecture Symposium offered by Broad Water, Inc.

Beaver Creek, Colorado, USA

2014: 27th Annual Neurosurgery in the Rockies Conference

University of Colorado Department of Neurosurgery

Beaver Creek, Colorado, USA

2014: Minimally Invasive Spine Surgery – Techniques Course

Course offered by Stryker Spine at Science Care Cadaver Lab

Aurora, Colorado, USA

2014: 3rd Annual Rocky Mountain Orthopaedic Trauma Conference.

Beaver Creek, Colorado, USA.

2015: 37th Annual Spine – Base to Summit Conference

Comprehensive Spine Surgery Lecture Symposium offered by Broad Water, Inc.

Beaver Creek, Colorado, USA

2015: 18th Annual Selby Spine Conference

Global Balance, MIS, and Aging Spine Surgery Lecture Symposium offered by F.O.R.E. Inc.

Park City, Utah, USA

2015: Denver Health Leadership Development Institute

Denver Convention Center

Denver, Colorado, USA

2015: Denver Health Lean Management Systems for Leaders

Denver Health Medical Center

Denver, Colorado, USA

2015: iGA Foundational Anterior Spinal Surgery Course

Course offered by NuVasive Spine

San Diego, California, USA

2016: 38th Annual Spine – Base to Summit Conference

Coimprehensive Spine Surgery Lecture Symposium offered by Broad Water, Inc.

Beaver Creek, Colorado, USA

2016: 29th Annual Neurosurgery in the Rockies Conference

University of Colorado Department of Neurosurgery

Beaver Creek, Colorado, USA

2016: Denver Health Leadership Development Institute

Denver Convention Center

Denver, Colorado, USA

2016: 1st Annual Aspen Ethical Leadership Conference

University of Colorado Center for Bioethics and Humanities

University of Colorado School of Law

University of Denver Daniels College of Business

Aspen, Colorado, USA

2016: Credentialing & Privileging: Essential Training for Physician Leaders

Greeley Company

Denver Health Medical Center

Denver, Colorado, USA

2017: Denver Health Leadership Development Institute

Denver Convention Center

Denver, Colorado, USA

2017: Communication in Healthcare Basic Course

Carolinas Healthcare System: Charlotte Area Health Education Center (AHEC)

Denver Convention Center

Denver, Colorado, USA

2017: Spine Motion-Preservation: Cervical Total Disc Replacement

North American Spine Society

Spine Education and Research Center

Burr Ridge, Illinois, USA

2017: Adult Spinal-Deformity Surgery: Advanced Techniques

AO Spine & International Spine Study Group (ISSG)

Oquendo Center: Bioskills Lab

Las Vegas, Nevada, USA

2017: Minimally-Invasive Spine Surgery: Advanced Techniques

Stryker Spine

Oquendo Center: Bioskills Lab

Las Vegas, Nevada, USA

2017: SMISS Techniques Lab

Society for Minimally Invasive Spine Surgery

MERIN Laboratory

Las Vegas, Nevada, USA

2017: SMISS Annual Forum

Society for Minimally Invasive Spine Surgery

The Cosmopolitan Convention Center

Las Vegas, Nevada, USA

2017: Spine Coding Update: Conquering your Coding Hurdles

North American Spine Society

Orlando Convention Center

Orlando, Florida, USA

2017: NASS Annual Meeting

North American Spine Society

Orlando Convention Center

Orlando, Florida, USA

**MISCELLANEOUS**

2010-Present: **Grand Marshall**:C.U. Orthopaedic Surgery Alumni Association Golf Tournament

2007-Present: **Grand Marshall**: C.U. Orthopaedic Surgery Alumni Association Tailgate Event

2013-Present: **Grand Marshall**: C.U. Orthopaedics Resident-Fellow-Faculty Ski-Day

2012: **Guest Editor**: Mediators of Inflammation in Neurological Disorders. Pathology Research Int’l.

2011: **Master of Ceremonies**: James S. Miles Lectureship – C.U. Orthopaedics Research-Day.