

## Curriculum Vitae

**Timothy D. Browder, MD, FACS**  
**Clinical Associate Professor of Surgery**  
Stanford University School of Medicine  
Department of Surgery, Section of Trauma and Critical Care  
300 Pasteur Drive  
Stanford, CA 94305

### Education:

University of Nevada School of Medicine Doctor of Medicine	Aug 1994-May 1998
Whittier College Whittier, California Cum Laude Bachelor of Arts in Biology, Minor Chemistry	Sept. 1990-May 1994
Masters of Academic Medicine Keck School of Medicine University of Southern California	Aug 2011-current

### Medical Training:

General Surgery Residency University of Nevada School of Medicine Department of Surgery University Medical Center Las Vegas, Nevada	July 1998-June 2004
Surgical Research Fellow University of Nevada School of Medicine Department of Surgery	July 2000-June 2001
Surgical Critical Care Fellow Department of Surgery University of NV School of Medicine	July 2004-June 2005

## Academic Appointments:

Clinical Associate Professor of Surgery Trauma Director of Education Stanford University School of Medicine	August 2014-current
Associate Professor of Surgery Department of Surgery University of Nevada School of Medicine	July 2013-June 2014
Assistant Professor of Surgery Department of Surgery University of Nevada School of Medicine	July 2007-June 2013
Chief, Section of Trauma Surgery University of Nevada School of Medicine	June 2012-June 2014
Program Director, Acute Care Surgery Fellowship Division Trauma and Surgical Critical Care University of Nevada School of Medicine	Jan 2012-June 2014
Assistant Program Director Acute Care Surgery Fellowship University of Nevada School of Medicine	July 2007-Dec 2011
Assistant Professor of Surgery Division of Trauma Surgery and Critical Care University of Southern California Keck School of Medicine	July 2006-June 2007
Clinical Instructor Trauma and General Surgery Department of Surgery University of Nevada School of Medicine	July 2004-June 2006

**Additional Training and Educational Activities:**

Clinical Effectiveness Leadership Training Stanford University School of Medicine	May 2015-current
Biodesign Clinical Advisory Board Stanford University	Sep 2014-May 2015
Practical Applications of Ultrasound in ICU Post Graduate Course, ACS Clinical Congress San Francisco, CA	Oct 2014
Ultrasound for Surgeons: Basic Course, 3rd ed ACS online course	Aug 2014
Masters of Academic Medicine Keck School of Medicine University of Southern California -distance education program	Aug 2011-current
Mini Fellowship for Laparoscopic & Hand- Assisted Solid Organ Carolinas Medical Center	March 2010
Mini Fellowship for Advanced Laparoscopic Surgery Carolinas Medical Center	April 2010
ECMO Specialist Training Course University of Michigan Ann Arbor, MI	Oct 2009
American College of Surgeons Outcomes Research Course Chicago, IL	Nov 2008
American College of Surgeons Young Surgical Investigators Conference Bethesda, MD	Mar 2006

**Licensure:**

California Medical License (A96189) Active  
Nevada Medical License (#11045) Active

**Hospital Appointments:**

Los Angeles County & USC Medical Center, Los Angeles, California	July 2006-June2007
Attending Trauma/General Surgeon University Medical Center Las Vegas, Nevada	July 2007-July 2014
Stanford University Hospital Stanford, California	Oct 2014-current

**Certifications:**

Board Certified American Board of Surgery	June 2005
Board Certified Surgical Critical Care	Oct 2007
ASSET Course Director	June 2015
ASSET Instructor	March 2010-present
Fundamentals of Disaster Management Instructor	January 2005-present
Advanced Trauma Life Support Course Director	January 2012-present
Advanced Trauma Life Support Instructor	April 2005-present
Advanced Trauma Life Support	July 1998 present
Advanced Cardiac Life Support	July 1998-present
USMLE Step1	passed June 1996
USMLE Step2	passed June 1998
USMLE Step3	passed April 2004
Qualifying exam American Board of Surgery	passed October 2004
Certifying exam American Board of Surgery	passed June 7, 2005

**Honors/Awards:**

Voted Las Vegas Top Doc, Las Vegas Life magazine	May 2012
University of Nevada School of Medicine Department of Surgery Distinguished Alumni Speaker	June 2011
UNSOM Department of Surgery Research Grant	May 2009
American Association for the Surgery of Trauma Research and Education Scholarship	May 2008
University of Nevada Junior Faculty Research Grant	May 2008

Arnold P. Gold Foundation Resident Award for Humanism and Excellence in Teaching	2003
Applicant National LCME Student Representative	1997
Drew and McGraw Scholarships	1994-1997
McCoskey Scholarship	1997-1998
Rhodes Scholarship State Finalist	1994
Academic Distinction in Major Whittier College	1994
Beta Beta Beta Biology Honorary Society	1994-present

**Professional Activities:**

Panel to Advise Research on Trauma Stanford University School of Medicine	May 2015-current
Biodesign Clinical Advisory Board Stanford University	Sep 2014-May 2015
Vice Chairman for Nevada, American College of Surgeons Committee on Trauma	2012-2014
American Association for the Surgery of Trauma- Acute Care Surgery Committee member	2008-present
Fellow American College of Surgeons	2007-present
American Association for the Surgery of Trauma	2007-present
Association of Surgical Education	2014-present
Associate Fellow Southwestern Surgical Congress	2005-present
Eastern Association Surgery of Trauma Member	2006-present
Society of Critical Care Medicine Member	2004-present
Participant in Candidate Group, American College of Surgeons	2001-2006

“Every Fifteen Minutes.” Community outreach program for teenage drinking and driving. Affiliated with Las Vegas Metropolitan Police Department.	2005
Research Fellow Trauma Institute of Research and Department of Surgery	July 2000-June 2001
Member of Advisory Committee for Academic Affairs and Development, UNSOM	2008
Board member of Nevada Donor Network organ procurement agency	2008-present
UNSOM Education Planning Committee	2000-2001
UNSOM Curriculum Committee Student Rep.	1994-1998
UNSOM Faculty Hiring Committee member	1997
Representative and National Conf. Delegate, AMA	1995
Representative and National Conf. Del, AMSA	1995
UNSOM Med. Student Orientation Committee	1995
Research Assistant Whittier Blood Diseases Center	1993
Whittier Faculty Hiring Committee member	1993

**Research:**

Principal Investigator: In-field Portable Body Temperature Conditioner. Funded by Department of Defense Grant # W81XWH-11-1-0792 Phase 1 Sept 2011-current \$2.3 million.

Co-Principal Investigator: Center for Injury Prevention, Research and Community Education. Funded by Nevada Department of Transportation Grant # 29-406CP-3 Oct. 2009- present \$150,000/year

Co-Principal Investigator: Rapid fluid warming device development. Funded by Department of Defense Grant #10428977 Nov. 2007-present \$ 10 million

Principal Investigator: The effect of induced hypothermia on hepatic and pulmonary apoptosis during hemorrhagic shock. Funded by American Association for the Surgery of Trauma Research and Education Foundation Scholarship Jun. 2008 \$40,000.

Principal Investigator: Virtual Autopsy for Multisystem Trauma Patients: The Resuscitation of a Dying Field. Grant from UNSOM Department of Surgery June 2009.

Principal Investigator: The effect of hemorrhagic shock and resuscitation fluids on neutrophil adhesion molecule polarization. Grant from UNSOM Department of Surgery June 2008.

Principal Investigator: Hepatic gene expression alterations induced by hemorrhagic shock and resuscitation with various crystalloid solutions. Funded by UNSOM Department of Surgery Grant June 2006.

Co-Investigator: Phase III I A multicenter trial to evaluate the efficiency and safety of activated recombinant factor VII in refractory bleeding in severely injured trauma patients. Novo Nordisk, Inc. F7Trauma-1648. 2006.

Co-Investigator: The third space defined. The effect of tissue injury on cellular function and electrolyte distribution. Funding from Trauma Institute of Research with G. Thomas Shires, MD. 2003-2005.

Co-Investigator: The effect of Cerium Nitrate on cytokine expression in infected burn wounds. Funding from Trauma Institute of Research with G. Thomas Shires, MD. 2003-2005.

Co-Investigator: Phase II Study entitled Comparative Pharmacokinetic and Pharmacodynamic Study of Epoetin Alfa (Procrit) in Anemic Critically Ill Patients Randomized to One of Six Dose Regimens for 15 Days. Protocol PR02-33-048. Multi-Center Trial, 2004-2005.

### **Peer Reviewed Publications:**

1. Chestovich, Paul J. MD; **Browder, Timothy D. MD**; Morrissey, Shawna L. DO; Fraser, Douglas R. MD; Ingalls, Nichole K. MD; Fildes, John J. MD. Minimally invasive is maximally effective: Diagnostic and therapeutic laparoscopy for penetrating abdominal injuries. J Trauma Acute Care Surg. 2015 Jun; 78(6):1076-85

2. Holcomb JB, Fox EE, Scalea TM, Napolitano LM, Albarado R, Gill B, Dunkin BJ, Kirkpatrick AW, Cotton BA, Inaba K, DuBose JJ, Cohen AM, Azizzadeh A, Brenner M, Cohen MJ, Wade CE, Lumsden AB, Andrassy R, Rhee PM, Bass BL, Mattox KL, Britt LD, Eastman AB, Hoyt DB, Rasmussen TE; Catheter-Based Hemorrhage Control Study Group. J Trauma Acute Care Surg. 2014 Mar;76(3):888-93
3. Inaba K, Okoye OT, **Browder T**, Best C, Branco BC, Teixeira PG, Barmparas G, Reddy S, Demetriades D. Prospective evaluation of the utility of routine postoperative cystogram after traumatic bladder injury. J Trauma Acute Care Surg. 2013 Dec;75(6):1019-23
4. DuBose J, Inaba K, Okoye O, Demetriades D, Scalea T, O'Connor J, Menaker J, Morales C, Shiflett T, Brown C, Copwood B; AAST Retained Hemothorax Study Group. Development of posttraumatic in patients with retained hemothorax: results of a prospective, observational AAST study. J Trauma Acute Care Surg. 2012 Sep;73(3):752-7.
5. Inaba K, Barmparas G, Resnick S, **Browder T**, Chan LS, Lam L, Talving P, Demetriades D. The Model for End-stage Liver Disease Score: An Independent Prognostic Factor of Mortality in Injured Cirrhotic Patients. Arch Surg. 2011 May 16.
6. Moore EE, Knudson MM, Burlew CC, Inaba K, Dicker RA, Biffl WL, Malhotra AK, Schreiber MA, **Browder TD**, Coimbra R, Gonzalez EA, Meredith JW, Livingston DH, Kaups KL; WTA Study Group. Defining the limits of resuscitative emergency department thoracotomy: a contemporary Western Trauma Association perspective. J Trauma. 2011 Feb;70(2):334-9.
7. Petrone P, Talving P, **Browder T**, Teixeira PG, Fisher O, Lozornio A, Chan LS. Abdominal injuries in pregnancy: a 155-month study at two level 1 trauma centers. Injury. 2011 Jan;42(1):47-9.
8. Teixeira P, Inaba K, Oncel D, Dubose J, Chan L, Rhee P, Salim A, **Browder T**, Brown C, Demetriades D. Blunt Cardiac Rupture: A 5-Year NTDB Analysis. J Trauma. 2009 Oct; 67(4):788-791
9. Teixeira P, Inaba K, Salim A, Rhee P, Brown C, **Browder T**, Dubose J, Nomoto S, Demetriades D. Preventable Morbidity at a Mature Trauma Center. Arch Surg. 2009 Jun; 144(6):536-541
10. Teixeira PGR, Inaba K, Shulman I, Salim A, Demetriades D, Brown C, **Browder T**, Green D, Rhee P. Impact of plasma transfusion in massively transfused trauma patients. *J Trauma* . 2009 Mar; 66(3):693-697



11. Teixeira PGR, Inaba K, Dubose J, Salim A, Brown C, Rhee P, **Browder T**, Demetriades D. Intercutaneous Fistula Complicating Trauma Laparotomy: A Major Resource Burden. *Am Surg* . 2009 Jan; 75(1):30-32
12. Dubose J, **Browder TD**, Inaba K, Teixeira PG, Chan L, Demetriades D. Effect of trauma center designation on outcome in patients with severe traumatic brain injury. *Arch Surg*. 2008 Dec;143(12):1213-7
13. Jones C, Teixeira PGR, Inaba K, Keesara S, Rhee P, Brown C, Salim A, **Browder T**, Demetriades D. Combined CT venography and CT pulmonary angiography for the detection of deep venous thrombosis in injured patients. *Am Surg*.2008 Oct;74(10):935-8
14. Teixeira PG, Salim A, Inaba K, Brown C, **Browder T**, Margulies D, Demetriades D. A Prospective Look at the Current State of Open Abdomens. *Am. Surg*. 2008; 74:891-897.
15. Inaba K, MD,MS, FRCSC, FACS, Teixeira PG, MD, David j, MD, PhD, Chan L, PhD, Salim A, MD, FACS, Brown C, MD, FACS, **Browder T**, MD, FACS, Beale E, MD, Rhee P, MD, MPH, Demetriades D, MD, PhD, FACS. Beta-Blockers in Isolated Blunt Head Injury. *JACS*. 2008; 206: 432-438.
16. Ali Salim, Pedro GR Teixeira, Kenji Inaba, Carlos Brown, **Timothy Browder**, Demetrios Demetriades. Analysis of 178 Penetrating Stomach and Small Bowel Injuries. *World J Surg*. 2008;32(3):471-5.
17. Teixeira PGR, Inaba K, Hadjizacharia P, Brown C, Salim A, Rhee P, **Browder T**, Noguchi TT, Demetriades D. Preventable or Potentially Preventable Mortality at a Mature Trauma Center. *J. Trauma*. 2008; 63:1338-1347.
18. Didem Oncel MD, Demetrios Demetriades MD, PhD, Peter Gruen MD, Ali Salim MD, Kenji Inaba MD, Peter Rhee MD, **Timothy Browder** MD, Shot Nomoto RN, Linda Chan PhD. Brain Lobectomy For Severe Head Injuries Is Not A Hopeless Procedure. *J Trauma* 2007; 63:1010-1013.
19. Teixeira PGR, Inaba K, Salim A, Brown, C, Rhee P, **Browder T**, Belzberg H, Demetriades D. Retained foreign bodies after emergent trauma surgery: incidence after 2526 cavitary explorations. *Am Surg*. 2007;73:1031-1034.
20. Inaba K, Teixeira PGR, David JS, Brown C, Salim A, Rhee P, **Browder T**, Zee CS, Demetriades D. Computed Tomographic Brain Density Measurement as a Predictor of Elevated Intracranial Pressure in Blunt Head Trauma. *Am Surg*. 2007;73:1023-1026.

21. Salim A, Martin M, Brown C, Inaba K, **Browder T**, Rhee P, Teixeira PGR, Demetriades D. The presence of the adult respiratory distress syndrome does not worsen mortality or discharge disability in blunt trauma patients with severe traumatic brain injury. *Injury* 2008; 39:30-35.
22. Shires GT, Browder LK, Steljes TP, Williams SJ, **Browder TD**, Barber AE. The Effect of Shock Resuscitation Fluids on Apoptosis. *Am J Surg* 2005; 189:85-91.
23. **Browder TD**, Little AG. Barret's esophagus: Are there any easy answers? *Curr Surg* 2003 Jul-Aug; 60(4): 364-6.
24. Mazolewski PJ, Curry JF, **Browder TD**, Fildes JJ. CT can be used for surgical decision making in zone II penetrating neck injuries. *J. of Traum* 2001; 51:315-319.
25. Fildes JJ and **Browder TD**: Trauma In Pregnancy. Demetriades D and Asensio JA, eds. Trauma Management, 1<sup>st</sup> edition. Texas, Landes, 2000.
26. Tisman G, et al.: "Measurement of red blood cell-vitamin B12: a study of the correlation between intracellular B12 content and concentrations of plasma holotranscobalamin II." *American Journal of Hematology*. 1993 Jul 43(3): 226-229.

### **Invited Presentations:**

1. Challenging cases in Acute Care Surgery. Invited panel speaker. American College of Surgeons Annual Congress Meeting. Chicago, IL October 2012
2. "The Pricipilization of Trauma Care" Distinguished Alumni Lecture. University of Nevada School of Medicine. Las Vegas, NV June 2011
3. "Emergency Airway Established, Now What?" presented at the 18<sup>th</sup> Annual Trauma/Critical Care Symposium, hosted by University of Southern California and Los Angeles County Medical Center. Pasadena , California, May 13 2011.
4. Starting An Acute Care Surgery Fellowship Program at Your Hospital. Invited panel speaker American Association for the Surgery of Trauma Annual Meeting. Boston , MA September 22, 2010

5. "Induced Hypothermia: A Hot Topic" Bench to bedside lecture series. University of Nevada School of Medicine Reno, Nevada April 8, 2010.
6. "Tertiary Survey... Avoiding Medical-legal Grief." presented at the 16<sup>th</sup> Annual Trauma/Critical Care Symposium, hosted by University of Southern California and Los Angeles County Medical Center. Pasadena , California, March 16 2009.
7. "Pediatric Damage Control Surgery", presented at 2<sup>nd</sup> Annual Pediatric Trauma Conference, hosted by University Medical Center and University of Nevada School of Medicine. Las Vegas, Nevada, August 20 2008.
8. "Cardiopulmonary Bypass for Traumatic Arrest: How Far Can We Push the Envelope" , presented at the 14<sup>th</sup> Annual Trauma/Critical Care Symposium, hosted by University of Southern California and Los Angeles County Medical Center. Pasadena , California, May 16 2007.
9. "Preventing Ventilator-associated Pneumonia", presented at 15<sup>th</sup> Annual Trauma/Critical Care Symposium, hosted by University of Southern California and Los Angeles County Medical Center. Pasadena, California, May 13 2008.

### **Professional Presentations:**

1. Browder TD. *A Novel Simulation Training Model: The Mangled Extremity Surgical Skills Course*. University of Southern California, Keck School of Medicine, Innovations In Medical Education Conference. Poster presentation. Pasadena, CA Feb 2012.
2. Tuano K, Chua C, Dyer P, Muterspaw J, Browder TD, Fildes JJ, Kuhls DA. *Registered Dietician Calculations Using ASPEN Guidelines Underestimate Nutrition Requirements of Adult Trauma and Burn Patients*. Society of Critical Care Medicine, Annual Meeting poster presentation. Jan 2012
3. Browder TD, Samourjian E, Johnson M, Nessen S, Kuhls DA, Fildes JJ. *A Prospective Analysis of Occupational Exposures to the Trauma Team: Is Being a Trauma Surgeon Hazardous to Your Health?* American Association for the Surgery of Trauma, Annual Meeting poster presentation. Chicago, IL Sept 2011
4. Browder TD, Boomer L, Lambert R, Cocks S, Kuhls DA, Fildes JJ. *The Effect of Induced Hypothermia on Systemic Inflammatory Markers During Hemorrhagic*

*Shock*. American Association for the Surgery of Trauma, Annual Meeting poster presentation. Boston, MA Sept 2010

5. Merkle T, Kuhls DA, Horsley J, Chua B, Browder TD, Kuhls D, Fildes JJ. *Not so nice sugar in adult trauma patients-intensive versus conventional glucose control*. Society of Critical Care Medicine, Annual Meeting poster presentation. 2010.

6. Osigweh JM, Merkle TW, Browder TD, Fildes JJ, Kuhls DA. *Glucose control improves mortality in geriatric trauma patients*. Society of Critical Care Medicine, Annual Meeting poster presentation. 2010.

7. Osigweh JM, Kuhls DA, Chua B, Horsely J, Browder TD, Fildes JJ. *Beta Blockade is safe in critically injured adult patients*. Society of Critical Care Medicine, Annual Meeting poster presentation. 2010.

8. Browder TD, Fisher O, Williams S, Fildes JJ. *Analysis of Hepatic Gene Expression Following Hemorrhagic Shock and Resuscitation*. American Association for the Surgery of Trauma, Annual Meeting poster presentation. Pittsburgh, PA Sept 2009

9. *The Effect of Combined Resuscitation with Isotonic Fluids and Induced Hypothermia on Hepatic and Pulmonary Apoptosis During Hemorrhagic Shock*. American Association for the Surgery of Trauma Research Scholarship, Annual Meeting Podium Presentation. Pittsburgh, PA Sept 2009

10. Cinelli S, Casey M, Kuhls DA, Browder TD, Coates JE, Fildes JJ. *Early primary closure of open abdominal wounds using the abdominal reapproximation anchor (ABRA) system*. Southwest Surgical Congress Annual Meeting poster presentation. San Diego, CA 2009

11. Johnson M, Browder TD, Koler A, Wu D, Kuhls DA, Casey M, Coates JE, Fildes JJ. *Occult pneumothorax in penetrating trauma can be safely observed*. Southwest Surgical Congress Annual Meeting poster presentation. San Diego, CA 2009

12. Cinelli S, Casey M, Kuhls DA, Browder TD, Coates JE, Fildes JJ. *Closure of open abdomen using the abdominal reapproximation anchor (ABRA) system-how we do it*. 4<sup>th</sup> World Congress of Abdominal Compartment Syndrome poster presentation. Dublin, Ireland 2009

13. Horsley J, Merkle T, Frisch D, Fildes JJ, Browder TD, Kuhls D. *Tight Glucose Control Improves Mortality in Adult Brain Injury Patients*. Eastern Association for the Surgery of Trauma, Annual Meeting poster presentation. Lake Buena Vista, FL January 2009.

14. Merkle T, Horsley J, Frisch D, Fildes JJ, Browder TD, Kuhls D. *Tight Glucose Control Improves Mortality in Adult Trauma Patients*. Eastern Association for the Surgery of Trauma, Annual Meeting poster presentation. Lake Buena Vista, FL January 2009.
15. Teixeira P, Inaba K, Salim A, Rhee P, Brown C, Browder T, Nomoto S, Demetriades D. *Preventable Morbidity at a Mature Trauma Center*. American Association for the Surgery of Trauma, Annual Meeting poster presentation. Las Vegas, NV Sept 2007
16. Browder TD, Kuhls DA, Fildes JJ. *CT is Safe and Cost effective for Asymptomatic Penetrating Thoracic Injuries*. American Association for the Surgery of Trauma, Annual Meeting poster presentation, New Orleans, LA 2006.
17. Browder TD, Kuhls DA, Fildes JJ. *Bilateral Atrial Ruptures: A case report*. Case Report Session 57<sup>th</sup> annual meeting The Southwestern Surgical Congress. San Antonio, TX April 2005.
18. Browder TD, Kuhls DA, Fildes JJ. *Blunt LAD Occlusion: Two case reports*. Case Report Session 57<sup>th</sup> annual meeting The Southwestern Surgical Congress. San Antonio, TX April 2005.
19. Browder TD. *CT is Safe and Cost effective for Asymptomatic Penetrating Thoracic Injuries*. American College of Surgeons Committee on Trauma, Region IX Resident Paper Competition. Reno, NV 2004
20. Browder LK, Barber AE, Williams SJ, Zhou YK, Browder TD, Shires GT. *The Effect of Shock Resuscitation Fluids on Apoptosis*. Presented at International Surgical Society meeting Bangkok, Thailand 2003.
21. Little AG, Curry D, Browder TD. *Laparoscopic Paraesophageal Hernia Repair*. Presented at Western Thoracic Association meeting Carlsbad, Ca 2003.
22. Browder TD, Shires GT. *The Third Space Defined*. Bierkamper Research Convocation, Reno, NV 2003
23. Browder TD, Shires GT. *IL-6 and TNF are not produced in thermal injury*. Bierkamper Research Convocation, Reno, NV 2002
24. Browder TD, Shires GT. *The Third Space Defined*. Finalist, American College of Surgeons Committee on Trauma, Region IX Resident Paper Competition. San Francisco, CA 2002

25. Mazolewski PJ, Curry JD, Browder TD, Fildes JJ. *CT can be used for surgical decision making in zone II penetrating neck injuries*. Poster presentation American Association for the Surgery of Trauma. San Antonio, TX 2000.

26. Browder TD, Kuhls DA, Fildes JJ. *Nonoperative management of blunt hepatic and splenic injuries in patients with severe head injury*. Finalist, American College of Surgeons Committee on Trauma, Region IX Resident Paper Competition. Las Vegas, NV 2000.

27. Browder TD, Kuhls DA, Fildes JJ. *Nonoperative management of blunt hepatic and splenic injuries in patients with severe head injury*. Poster Presentation American Association Surgery of Trauma, Seattle, WA 2001.

28. Phillips D, Browder TD, Ozobia N. *Hypothermic circulatory arrest for repair of retrohepatic venous injuries*. American College of Surgeons Committee on Trauma, Region IX Resident Paper Competition. 1998